BOARD OF TRUSTEES
SAMUEL E. DEAN BOARD ROOM
BUTLER GOVERNMENT CENTER
1200 OAK BROOK ROAD
OAK BROOK, ILLINOIS
630-368-5000

Special Meeting
Tuesday, June 16, 2026
7:00 PM

"Please be advised that any proposed documents attached hereto are in draft form and vary from the final versions which are adopted at the meeting as set forth herein."

1. CALL TO ORDER

2. ROLL CALL

3. PRESIDENT'S OPENING COMMENTS

4. PUBLIC COMMENTS

5. APPROVAL OF MINUTES

   A. Regular Board of Trustees Meeting Minutes of May 12, 2026

   B. Special Board of Trustees Meeting Minutes of May 19, 2026

   C. Special Board of Trustees Meeting Minutes of May 29, 2026

   D. Regular Executive Meeting Minutes of March 24, 2026

6. CONSENT AGENDA

All items on the Consent Agenda are considered to be routine in nature and will be enacted in one motion. There will be no separate discussion of these items unless a Board member so requests, in which event, the item will be removed from the Consent Agenda and considered as the first item after approval of the Consent Agenda.

   A. Accounts Payable for Period Ending: June 11th, 2026 - $2,300,868.94

      1. LEGAL SERVICES:

         a) Croke Fairchild Duarte & Beres - Legal Services - May 2026 - $38,964.10 (FY26 YTD - 120,486.45)

         b) Clark Baird Smith LLP - Legal Services - May 2026 - $570.00 (FY26 YTD - $2,276.50)

TOTAL LEGAL BUDGET FOR 2026 - $838,399.96
TOTAL LEGAL BILLS PAID FOR 2026 - YTD - $296,967.87

      2. DuPage Water Commission - Water Consumption - April 2026 - $391,285.40

      3. Engineering Resource Associates, Inc. - Ginger Creek WM Storm Sewer Improvements - $24,953.00

4. Trine Construction Corporation - Ginger Creek WM & Storm Sewer Improvements - $786,926.67

5. Cerniglia Co, - Woodside & Forest Glen WM Improvements - Pay Application #10 - $184,497.92

6. EZA Engineering PLLC - Professional Engineering Services - May 2026 - $27,965.47

7. DuPage Metropolitan Enforcement Group - Fair Share Contribution for FY27 - $21,840.00

8. Chicagoland Pool Management - July 1st Payment - $62,330.06

9. Leibold Irrigation, Inc. - Sports Core Pump Station - $165,750.00

10. WRB LLC Consulting & Management Services - Interim Assistant Village Manager - May 2026 - $23,060.16

B. Approval of Payroll Paydate: May 14, 2026 - $1,006,537.23
May 28, 2026 - $1,057,834.18
June 11, 2026 - $1,028,210.63

C. Village of Oak Brook – Monthly Financial Reports - April 2026

D. Development Services Referrals

1. Referral – Butterfield Road Development Project – Butterfield Road Properties at 2707, 2803, 2805, 2908, 2901, 2905 and 2907 – Final Plat of Subdivision

2. Referral - 3715 Spring Road (north Lot and south lot) – Certificates of Appropriateness (COA) for Single-Family Residences

7. ITEMS REMOVED FROM CONSENT AGENDA

8. ACTIVE BUSINESS

A. Ordinances & Resolutions

1. Resolution R-2369, A Resolution Authorizing and Approving a Membership Agreement for the Illinois Counties Risk Management Trust (ICRMT)

2. Resolution R-2364, A Resolution Approving and Authorizing the Award of Contract Pierce Manufacturing, Inc., of Appleton, WI for the Purchase of (1) Pierce Enforcer PUC 107' ASL Tandem Ladder Truck

3. Resolution R-2365, A Resolution Approving the Waiver of Competitive Bidding and Authorizing the Purchase of One Polaris Ranger Crew Cab ATV for the Fire Department

4. Resolution R-2371, A Resolution To Waive Further Bidding and Authorize Staff to issue a Purchase Order to Compass Minerals America Inc., of Overland Park Kansas, for the Bulk Purchase of Deicer Salt.

5. Resolution R-2373, A Resolution Authorizing and Approving the Oak Brook Public Library to Participate in the Non-Resident Library Card Program from July 1, 2026 to June 30, 2027

6. Resolution R-2374, A Resolution Approving the Final Plat of Subdivision for the Property Commonly Known as 2715, 2815, 2915 Jorie Blvd, Oak Brook, IL 60523

7. Ordinance S-1741, An Ordinance Approving a Planned Development to Allow Enclosed Outdoor Dining and a Fitness Studio for the Property Located at 1211-1315 22nd Street, Oak Brook, IL 60523

8. Ordinance S-1742, An Ordinance Authorizing the Sale or Donation or Recycling or Disposal of Certain Items of Personal Property Owned By the Village of Oak Brook

9. Ordinance S-1744, An Ordinance Approving the Amended 2026 Classification, Salary Plan and Salary Administration Policy

10. Ordinance S-1743, An Ordinance Authorizing Amendments and Transfers Among Budget Line Items The Village of Oak Brook, Illinois

11. Ordinance G-1286, An Ordinance Amending Title 2 (Boards and Commissions) of the Village of Oak Brook Code of Ordinances

12. Ordinance G-1287, An Ordinance Amending Title 6 Chapter 1 Section 6-1-9 of the Village of Oak Brook Code of Ordinances

9. BOARD UPDATES

10. ADJOURN TO CLOSED SESSION

For the purpose of discussing (1) minutes of meetings lawfully closed under this Act, (2) to consider litigation probable or imminent or pending against, affecting, or on behalf of the Village, (3) to consider the appointment, employment, compensation, or performance of a specific Village employee. Pursuant to 2(C)(21), 2(C)(11), 2(C)1 Of the Illinois Open Meetings Act respectively.

11. ADJOURNMENT

In accord with the provisions of the American with Disabilities Act, any individual who is in need of a reasonable accommodation in order to participate in or benefit from attendance at this public meeting should contact the Butler Government Center (Village Hall), at 630-368-5010 as soon as possible before the meeting date.

ITEM 5.D.
BOARD OF TRUSTEES MEETING
SAMUEL E. DEAN BOARD ROOM
BUTLER GOVERNMENT CENTER
1200 OAK BROOK ROAD
OAK BROOK, ILLINOIS
630-368-5000

AGENDA ITEM

Board of Trustees Special Meeting
of
June 16, 2026

SUBJECT: Regular Executive Meeting Minutes of March 24, 2026

FROM: Netasha Scarpiniti, Clerk

BUDGET SOURCE/BUDGET IMPACT: N/A

RECOMMENDED MOTION: I move that the Village Board approve the Executive Meeting Minutes of March 24, 2026.

Background/History:
The Open Meetings Act requires that all public bodies shall keep written minutes of all their meetings, whether open or closed. The public body shall periodically, but no less than semi-annually, meet to review minutes of all closed sessions that have not been released to the public. At this time, the Executive Minutes of March 24, 2026, are ready to be approved as written on June 16, 2026 but are not ready to be released to the Public. This set of minutes was distributed at the May 12, 2026, executive session meeting, where there was a consensus to bring them to the open session for approval.

Recommendation:
Staff recommends that the Village Board approve the Executive Meeting Minutes of March 24, 2026.

Attachments:
None

Approval for Payroll Paydate: 05/14/26

Total Gross Payroll			**$**	**688,351.78**
Employee Deductions:				
Illinois Municipal Retirement Fund	$	15,774.14		
Police Pension Fund**	$	20,048.49		
Fire Pension Fund	$	13,682.82		
Federal Tax Withholding	$	70,733.87		
State Tax Withholding	$	29,024.93		
Social Security and Medicare	$	28,035.17		
ICMA/NACO/457	$	30,808.81		
Court Orders	$	530.00		
Insurance Contributions*	$	26,460.83		
Aflac Contributions	$	798.60		
Mo Vol Life	$	537.28		
Police Union Dues	$	1,728.00		
Fire Union Dues	$	1,401.64		
Public Works Union Dues	$	1,124.03		
125-Medical/Dependent Care	$	2,448.53		
Total Employee Deductions				**243,137.14**
Net Payroll			**$**	**445,214.64**
Village Expenses:				
Police Pension	$	83,466.58		
Fire Pension	$	80,244.22		
IMRF Pension	$	23,770.80		
Insurance Contributions*	$	102,668.68		
Social Security and Medicare	$	28,035.17		
Total Village Expenses				**318,185.45**
Total Payroll (Gross Payroll plus Village Expenses)			**$**	**1,006,537.23**

*Includes Health Savings Account (HSA) Contributions

**Includes Employee Buyback Prior Service Contributions

Payroll Date: 05/14/26

Employee Deductions		Pension Deduction	Salary by Pension Plan	Percent of Pensionable Salary**
	Police	$ 20,048.49	$ 201,366.84	9.956%
	Fire	13,682.82	144,714.63	9.455%
	IMRF	11,073.35	246,074.44	4.500%
	Non-Pensionable	-	-	0.000%
		$ 44,804.66	$ 592,155.91	

Village Payment into Pensions		Village Contribution	Percent of Payroll*	Percent "Match" of what Employee Contributes
	Police	$ 83,466.58	41.45%	416.3%
	Fire	80,244.22	55.45%	586.5%
	IMRF	23,770.80	9.66%	214.7%
		$ 187,481.60		

*Police and Fire Village contribution rates reflect the State minimum funding requirements. The rates to match 100% funding by 2040 are 51.5% for Police and 67.3% for Fire.

**Includes Employee Buyback Prior Service Contributions

Approval for Payroll Paydate: 05/28/26

Total Gross Payroll			**$**	**732,749.22**
Employee Deductions:				
Illinois Municipal Retirement Fund	$	18,375.88		
Police Pension Fund**	$	20,048.48		
Fire Pension Fund	$	14,003.13		
Federal Tax Withholding	$	78,608.22		
State Tax Withholding	$	31,016.48		
Social Security and Medicare	$	30,664.57		
ICMA/NACO/457	$	32,459.65		
Court Orders	$	530.00		
Insurance Contributions*	$	25,941.43		
Aflac Contributions	$	847.80		
Mo Vol Life	$	546.68		
Police Union Dues	$	-		
Fire Union Dues	$	1,401.64		
Public Works Union Dues	$	994.59		
125-Medical/Dependent Care	$	2,448.53		
Total Employee Deductions				**257,887.08**
Net Payroll			**$**	**474,862.14**
Village Expenses:				
Police Pension	$	83,466.59		
Fire Pension	$	82,122.77		
IMRF Pension	$	26,564.66		
Insurance Contributions*	$	102,266.37		
Social Security and Medicare	$	30,664.57		
Total Village Expenses				**325,084.96**
Total Payroll (Gross Payroll plus Village Expenses)			**$**	**1,057,834.18**

*Includes Health Savings Account (HSA) Contributions

**Includes Employee Buyback Prior Service Contributions

Payroll Date: 05/28/26

Employee Deductions		Pension Deduction	Salary by Pension Plan	Percent of Pensionable Salary**
	Police	$ 20,048.48	$ 201,366.87	9.956%
	Fire	14,003.13	148,102.44	9.455%
	IMRF	12,374.85	274,996.58	4.500%
	Non-Pensionable	-	-	0.000%
		$ 46,426.46	$ 624,465.89	

Village Payment into Pensions		Village Contribution	Percent of Payroll*	Percent "Match" of what Employee Contributes
	Police	$ 83,466.59	41.45%	416.3%
	Fire	82,122.77	55.45%	586.5%
	IMRF	26,564.66	9.66%	214.7%
		$ 192,154.02		

*Police and Fire Village contribution rates reflect the State minimum funding requirements. The rates to match 100% funding by 2040 are 51.5% for Police and 67.3% for Fire.

**Includes Employee Buyback Prior Service Contributions

Approval for Payroll Paydate: 06/11/26

Total Gross Payroll			**$**	**711,364.24**
Employee Deductions:				
Illinois Municipal Retirement Fund	$	15,138.68		
Police Pension Fund**	$	20,080.69		
Fire Pension Fund	$	13,706.00		
Federal Tax Withholding	$	73,576.92		
State Tax Withholding	$	30,028.26		
Social Security and Medicare	$	28,762.84		
ICMA/NACO/457	$	31,922.92		
Court Orders	$	530.00		
Insurance Contributions*	$	25,870.34		
Aflac Contributions	$	788.76		
Mo Vol Life	$	538.38		
Police Union Dues	$	1,728.00		
Fire Union Dues	$	1,401.64		
Public Works Union Dues	$	994.59		
125-Medical/Dependent Care	$	2,448.53		
Total Employee Deductions				**247,516.55**
Net Payroll			**$**	**463,847.69**
Village Expenses:				
Police Pension	$	83,601.31		
Fire Pension	$	80,380.17		
IMRF Pension	$	22,832.77		
Insurance Contributions*	$	101,269.30		
Social Security and Medicare	$	28,762.84		
Total Village Expenses				**316,846.39**
Total Payroll (Gross Payroll plus Village Expenses)			**$**	**1,028,210.63**

*Includes Health Savings Account (HSA) Contributions

**Includes Employee Buyback Prior Service Contributions

Payroll Date: 06/11/26

Employee Deductions		Pension Deduction	Salary by Pension Plan	Percent of Pensionable Salary**
	Police	$ 20,080.69	$ 201,691.93	9.956%
	Fire	13,706.00	144,959.75	9.455%
	IMRF	10,636.40	236,363.99	4.500%
	Non-Pensionable	-	-	0.000%
		$ 44,423.09	$ 583,015.67	

Village Payment into Pensions		Village Contribution	Percent of Payroll*	Percent "Match" of what Employee Contributes
	Police	$ 83,601.31	41.45%	416.3%
	Fire	80,380.17	55.45%	586.5%
	IMRF	22,832.77	9.66%	214.7%
		$ 186,814.25		

*Police and Fire Village contribution rates reflect the State minimum funding requirements. The rates to match 100% funding by 2040 are 51.5% for Police and 67.3% for Fire.

**Includes Employee Buyback Prior Service Contributions

VILLAGE

OF

OAK BROOK

MONTHLY FINANCIAL REPORTS

APRIL 2026

Executive Summary on Village Funds

Through April 30, 2026

Governmental Funds	YTD Revenues	YTD Expenditures	YTD Net Fund Increase (Decrease)	Estimated YTD Ending Fund Balance (Deficit)
General Fund (Major Fund) *Main operating fund of the Village.*	$ 12,989,171	$ 10,336,181	$ 2,652,990	$ 45,799,313
Hotel Fund (Major Fund) *Collects and spends resources from the 3% hotel/motel tax.*	$ 665,059	$ 298,346	$ 366,714	$ 6,542,774
Motor Fuel Tax Fund *Collects and spends resources from the State motor fuel tax.*	$ 152,124	$ 58,856	$ 93,268	$ 2,875,529
Infrastructure Fund (Major Fund) *Accounts for construction and maintenance of roadways, drainage, and safety path systems.*	$ 3,921,695	$ 1,088,580	$ 2,833,115	$ 30,714,512
Enterprise Funds				
Water Fund (Major Fund) *Collects user fees for the distribution of water and maintenance of infrastructure.*	$ 3,321,513	$ 2,521,733	$ 799,780	$ 25,114,586
Sports Core Fund (Major Fund) *Accounts for revenues and expenses relating to administration, programs, food and beverage operations, and golf course.*	$ 1,787,332	$ 1,476,432	$ 310,900	$ 4,143,981
Internal Service Funds				
Insurance Fund *Accounts for the Village's health insurance costs and the related contributions from the Village, employees, retirees, and other agencies.*	$ 1,084,262	$ 1,097,402	$ (13,139)	$ 338,485
Garage Fund *Accounts for the maintenance of the Village's vehicle fleet and the related departmental reimbursements.*	$ 226,566	$ 190,217	$ 36,349	$ 614,251
Equipment Replacement Fund *Accounts for the replacement of the Village's vehicle fleet and the related departmental contributions.*	$ 504,424	$ 689,363	$ (184,939)	$ 3,666,361

Further information on the Village's major funds (as indicated above) can be found on the proceeding pages.

Village of Oak Brook
General Fund Financial Update
For the Period Ending April 30, 2026

	4/30/25 YTD Actual	4/30/26 YTD Actual	4/30/26 YTD Amended Budget	4/30/26 % of YTD Amended Budget	2026 Adopted Budget	Difference Prior Year
OPERATING REVENUES						
Sales Tax	$ 6,837,771	8,291,342	$ 6,166,667	134.5%	$ 18,500,000	$ 1,453,571
State Income Tax	492,399	516,996	516,602	100.1%	1,549,806	24,597
Replacement Tax	113,951	129,430	166,667	77.7%	500,000	15,479
Road & Bridge Tax	1	8	11,233	0.1%	33,700	7
Local Use Tax	78,558	24,692	96,667	25.5%	290,000	(53,866)
Cannabis Use Tax	4,346	4,342	4,615	94.1%	13,846	(4)
Grants	5,320	-	7,040	0.0%	21,120	(5,320)
Utility/Telecom. Tax	1,018,590	1,248,806	966,667	129.2%	2,900,000	230,216
Licenses and Permits	585,170	621,946	809,470	76.8%	2,428,410	36,777
Charges for Services	497,524	669,158	681,350	98.2%	2,044,050	171,634
Investment Interest	499,189	361,604	466,667	77.5%	1,400,000	(137,585)
Miscellaneous Income	182,900	193,040	238,087	81.1%	714,260	10,140
Total Operating Revenues	**$ 10,315,717**	**$ 12,061,363**	**$ 10,131,731**	**119.0%**	**$ 30,395,192**	**$ 1,745,646**
OPERATING EXPENDITURES						
Personnel	$ 7,148,941	$ 8,109,739	$ 8,299,285	97.7%	$ 24,897,854	$ 960,798
Materials and Supplies	166,239	140,875	239,476	58.8%	718,429	$ (25,364)
Operation and Contract	2,230,025	2,046,722	2,313,820	88.5%	6,941,461	$ (183,303)
Other Expenditures	3,961	3,684	3,300	111.6%	9,900	$ (277)
Capital Outlay	67,763	35,162	184,897	19.0%	554,690	$ (32,601)
Total Operating Expenditures	**$ 9,616,928**	**$ 10,336,181**	**$ 11,040,778**	**93.6%**	**$ 33,122,333**	**$ 719,253**
SURPLUS (DEFICIT) OF REVENUES OVER EXPENDITURES	**$ 698,789**	**$ 1,725,182**	**$ (909,047)**	**-189.8%**	**$ (2,727,141)**	**$ 1,026,393**
INTERFUND TRANSACTIONS						
Transfers In	$ -	$ -	$ -	N/A	$ -	$ -
Transfers Out				N/A		-
Reimbursements From Other Funds	670,352	927,808	927,811	100.0%	2,783,433	257,456
Reimbursements To Other Funds	-	-	-	N/A	-	-
Sports Core Loan				N/A	-	-
Total Interfund Transactions	**$ 670,352**	**$ 927,808**	**$ 927,811**	**100.0%**	**$ 2,783,433**	**$ 257,456**
NET FUND INCREASE (DECREASE)	**$ 1,369,141**	**$ 2,652,990**	**$ 18,764**		**$ 56,292**	**$ 1,283,849**

*Includes the collection of Income Tax, Use Tax, Road & Bridge Tax, Personal Property Replacement Tax, and Cannabis Use Tax.

Village of Oak Brook
Hotel Tax Fund Financial Update
For the Period Ending April 30, 2026

	4/30/25 YTD Actual	4/30/26 YTD Actual	4/30/26 YTD Amended Budget	4/30/26 % of YTD Amended Budget	2026 Adopted Budget	Difference Prior Year
OPERATING REVENUES						
Hotel Tax	$ 426,733	$ 478,644	$ 533,333	89.7%	$ 1,600,000	$ 51,911
Investment Interest	65,992	53,916	20,000	269.6%	60,000	(12,076)
Loan Interest	-	-	-	N/A	-	-
Miscellaneous	104,500	132,500	166,167		498,500	28,000
Total Operating Revenues	**$ 597,224**	**$ 665,059**	**$ 719,500**	**92.4%**	**$ 2,158,500**	**$ 67,835**
EXPENDITURES						
Personnel	$ 41,732	$ 48,820	$ 51,585	94.6%	$ 154,755	$ 7,088
Operation and Contract	94,883	152,817	370,247	41.3%	1,110,740	57,934
Other Expenditures	-	-	95,919	0.0%	287,758	-
Capital Outlay	38,892	793	283,350	0.3%	850,050	(38,099.42)
Total Expenditures	**$ 175,507**	**$ 202,430**	**$ 749,516**	**27.0%**	**$ 2,403,303**	**$ 19,835**
SURPLUS (DEFICIT) OF REVENUES OVER EXPENDITURES	**$ 421,717**	**$ 462,630**	**$ (81,601)**	**-566.9%**	**$ (244,803)**	**$ 48,000**
INTERFUND TRANSACTIONS						
Transfer Out	$ -	$ -	$ -	N/A	$ -	$ -
Reimbursements to Other Funds	(68,596)	(95,916)	95,919	-100.0%	287,758	(27,320)
Total Interfund Transactions	**$ (68,596)**	**$ (95,916)**	**$ 95,919**	**-100.0%**	**$ 287,758**	**$ (27,320)**
NET FUND INCREASE (DECREASE)	**$ 353,121**	**$ 366,714**	**$ 14,318**		**$ 42,955**	**$ 20,680**

Note - Expenditures are recorded in program 171.

Village of Oak Brook
Infrastructure Fund Financial Update
For the Period Ending April 30, 2026

	4/30/25 YTD Actual	4/30/26 YTD Actual	4/30/26 YTD Amended Budget	4/30/26 % of YTD Amended Budget	2026 Adopted Budget	Difference Prior Year
OPERATING REVENUES						
Non-Home Rule Sales Tax	$ 2,962,957	$ 3,656,249	$ 2,865,000	127.6%	$ 8,595,000	$ 693,292
Charges for Services	-		-	N/A		$ -
Investment Interest	258,074	265,446	166,667	159.3%	500,000	7,372
Grants	-		-	N/A		-
Miscellaneous	-		-	N/A		-
Total Operating Revenues	**$ 3,221,031**	**$ 3,921,695**	**$ 3,031,667**	**129.4%**	**$ 9,095,000**	**$ 700,664**
OPERATING EXPENDITURES						
Personnel	$ 14,120	$ 15,954	$ -	N/A	$ -	$ 1,834
Materials and Supplies	2,825	882	19,601	4.5%	58,804	(1,943)
Operation and Contract	401,483	730,306	1,267,233	57.6%	3,801,698	328,823
Other Expenditures	-	-	368,277	0.0%	1,104,830	-
Capital Outlay	296,533	39,830	3,069,501	1.3%	9,208,503	(256,703)
Total Operating Expenditures	**$ 714,961**	**$ 786,972**	**$ 4,724,612**	**16.7%**	**$ 14,173,835**	**$ 72,010**
SURPLUS (DEFICIT) OF REVENUES OVER EXPENDITURES	**$ 2,506,069**	**$ 3,134,723**	**$ (1,692,945)**	**-185.2%**	**$ (5,078,835)**	**$ 628,654**
INTERFUND TRANSACTIONS						
Transfers In	$ -	$ -	$ -	N/A	$ -	$ -
Reimbursements From Other Funds	-	-	666,667	0.0%	2,000,000	-
Reimbursements To Other Funds	(233,968)	(301,608)	(368,277)	81.9%	(1,104,830)	(67,640)
Total Interfund Transactions	**$ (233,968)**	**$ (301,608)**	**$ 298,390**	**-101.1%**	**$ 895,170**	**$ (67,640)**
NET FUND INCREASE (DECREASE)	**$ 2,272,101**	**$ 2,833,115**	**$ (1,394,555)**		**$ (4,183,665)**	**$ 561,014**

Village of Oak Brook
Water Fund Financial Update
For the Period Ending April 30, 2026

	4/30/25 YTD Actual	4/30/26 YTD Actual	4/30/26 YTD Amended Budget	4/30/26 % of YTD Amended Budget	2026 Adopted Budget	Difference Prior Year
OPERATING REVENUES						
Plan Review Fees	$ 525	$ 75	$ 250	30.0%	$ 750	$ (450)
Building/Inspection Fees	-	-	-	N/A	-	-
Water Sales	2,524,117	2,773,846	4,136,333	67.1%	12,409,000	249,729
Unmetered Sales	4,647	4,988	13,333	37.4%	40,000	342
Water Connection Fees	22,310	9,890	20,000	49.5%	60,000	(12,420)
Fire Service Charge	-	-	-	N/A		-
Meter Charges	8,537	4,872	5,500	88.6%	16,500	(3,665)
Special Services	-	-	5,000	0.0%	15,000	-
Investment Interest	401,900	300,797	283,333	106.2%	850,000	(101,103)
Proceeds from Property Sale	-	-	-	N/A		-
Miscellaneous	49,062	227,045	25,000	908.2%	75,000	177,983
Total Operating Revenues	**$ 3,011,097**	**$ 3,321,513**	**$ 4,488,750**	**74.0%**	**$ 13,466,250**	**$ 310,416**
OPERATING EXPENDITURES						
Personnel	$ 187,003	$ 210,863	$ 234,384	90.0%	$ 703,153	$ 23,860
Materials and Supplies	50,705	23,989	50,844	47.2%	152,532	(26,716)
Operation and Contract	1,613,326	1,535,372	2,671,194	57.5%	8,013,581	(77,954)
Other Expenditures	-	-	228,253	0.0%	684,758	-
Capital Outlay	150,378	523,252	2,005,743	26.1%	6,017,230	372,875
Total Expenditures	**$ 2,001,412**	**$ 2,293,477**	**$ 5,190,418**	**44.2%**	**$ 15,571,254**	**$ 292,065**
Surplus (Deficit) of Revenues Over Expenditures	**$ 1,009,685**	**$ 1,028,036**	**$ (701,668)**	**-146.5%**	**$ (2,105,004)**	**$ 18,351**
INTERFUND TRANSACTIONS						
Reimbursements To Other Funds	$ (196,404)	$ (228,256)	$ (228,253)	100.0%	$ (684,758)	$ (31,852)
Total Interfund Transactions	**$ (196,404)**	**$ (228,256)**	**$ (228,253)**	**100.0%**	**$ (684,758)**	**$ (31,852)**
Fund Increase/(Decrease) - Budgetary Basis	**$ 813,281**	**$ 799,780**	**$ (929,921)**		**$ (2,789,762)**	**$ (13,501)**

*Estimates based on historical year-end audit adjustments. Actual amounts are not measured and recorded until the end of the year.

Village of Oak Brook
Monthly Operating Statement
Sports Core Fund Consolidated Presentation
For the Period Ending April 30, 2026

	B&T Recreation Operations	Field Operations	Clubhouse Operations	Golf Club	4/30/26 YTD Total	4/30/26 YTD Amended Budget	4/30/26 % of YTD Amended Budget	2026 Adopted Budget	4/30/25 YTD Total	Difference Prior Year
OPERATING REVENUES										
Memberships	$ 588,300	$ -	$ -	$ 346,630	$ 934,930	$ 347,630	268.9%	1,042,890	$ 801,016	$ 133,914
Greens Fees	-	-	-	202,081	202,081	580,667	34.8%	1,742,000	154,330	47,751
Pro Shop Sales	-	-	-	-	-	60,000	0.0%	181,000	22,312	(22,312)
Golf Lessons	-	-	-	38,660	38,660	33,333	116.0%	100,000	42,950	(4,290)
Driving Range Fees	-	-	-	243,676	243,676	259,667	93.8%	779,000	160,835	82,841
Golf Surcharge	-	-	-	23,085	23,085	83,333	27.7%	250,000	19,700	3,385
Rentals	95,886	26,833	54,106	75,553	252,378	376,157	67.1%	1,226,070	146,739	105,640
Programs/User Fees	45,988	-	-	-	45,988	51,940	88.5%	155,820	10,714	35,274
Food Sales	-	-	-	3,641	3,641	38,583	9.4%	115,750	2,157	1,483
Beverage Sales	-	-	-	-	-	1,333	0.0%	4,000	884	(884)
Grants	-	-	-	-	-	-	N/A	-	-	-
Other Revenue	21,032	-	-	8,524	29,556	25,520	115.8%	76,560	23,185	6,372
Total Operating Revenues	**$ 751,206**	**$ 26,833**	**$ 54,106**	**$ 941,851**	**$ 1,773,996**	**$ 1,858,163**	**95.5%**	**$ 5,673,090**	**$ 1,384,821**	**$ 389,174**
OPERATING EXPENDITURES										
Personnel	$ 74,306	$ -	$ -	$ 310,041	$ 384,348	$ 605,840	63.4%	$ 1,817,521	$ 299,272	$ 85,076
Materials & Supplies	25	-	-	64,926	64,951	152,629	42.6%	457,887	100,435	(35,484)
Operational & Contractual	320,399	29,051	24,407	124,446	498,305	377,837	131.9%	1,133,511	320,979	177,326
Other	-	-	-	-	-	-	N/A	-	-	-
Capital	87,831	-	-	125,633	213,464	296,314	72.0%	888,942	194,341	19,123
Total Operating Expenditures	**$ 482,562**	**$ 29,051**	**$ 24,407**	**$ 625,047**	**$ 1,161,068**	**$ 1,432,620**	**81.0%**	**$ 4,297,861**	**$ 915,027**	**$ 246,041**
B&T Administration Overhead Allocation*	$ 318,051	$ (27,030)	$ (56,944)	$ (234,077)	$ -	$ (0)	N/A	$ -	$ -	$ -
Operating Revenues Over (Under) Expenditures	**$ 586,696**	**$ (29,248)**	**$ (27,246)**	**$ 82,726**	**$ 612,928**	**$ 425,543**	**144.0%**	**$ 1,375,229**	**$ 469,794**	**$ 143,134**
INTERFUND TRANSACTIONS										
Reimbursement From Other Funds	$ 13,336	$ -	$ -	$ -	$ 13,336	$ 13,333	100.0%	$ 40,000	$ 13,336	$ -
Reimbursement To General Fund	(315,364)	-	-	-	(315,364)	(315,362)	100.0%	(946,087)	(184,720)	(130,644)
Total Interfund Transactions	**$ (302,028)**	**$ -**	**$ -**	**$ -**	**$ (302,028)**	**$ (302,029)**	**100.0%**	**$ (906,087)**	**$ (171,384)**	**$ (130,644)**
Total Revenues Over (Under) Expenditures - Budgetary Basis	$ 284,668	$ (29,248)	$ (27,246)	$ 82,726	$ 310,900	$ 123,514		$ 469,142	$ 298,410	$ 12,490

*Overhead allocation is comprised of salaries, business forms, liability insurance, building & grounds maintenance and bank service fees in Program 811 - Sports Core General Operations distributed to various Sports Core Programs on a % basis.

**Estimates based on historical year-end audit adjustments. Actual amounts are not measured and recorded until the end of the year.

Village of Oak Brook
Monthly Operating Statement
Bath & Tennis Club Recreation Operations
For the Period Ending April 30, 2026

	811 B&T Admin	812 Swimming	813 Tennis	822 Poolside Café	4/30/26 YTD Total	4/30/26 YTD Adopted Budget	4/30/26 % of YTD Amended Budget	2026 Adopted Budget	4/30/25 YTD Total	Difference Prior Year
OPERATING REVENUES										
Memberships	$ -	$ 571,925	$ 16,375	$ -	$ 588,300	$ 213,238	275.9%	$ 639,715	$ 463,466	$ 124,834
Programs/User Fees	-	44,910	1,078	-	45,988	51,940	88.5%	155,820	10,714	35,274
Pro Shop Sales	-	-	-	-	-	333	0.0%	1,000	-	-
Rentals	94,886	-	-	1,000	95,886	32,533	294.7%	97,600	-	95,886
Food Sales	-	-	-	-	-	2,000	0.0%	6,000	-	-
Beverage Sales	-	-	-	-	-	1,333	0.0%	4,000	-	-
Grants	-	-	-	-	-	-	N/A	-	-	-
Other Revenue	21,032	-	-	-	21,032	15,520	135.5%	46,560	3,684	17,348
Total Operating Revenues	**$ 115,918**	**$ 616,835**	**$ 17,453**	**$ 1,000**	**$ 751,206**	**$ 316,898**	**237.0%**	**$ 950,695**	**$ 477,864**	**$ 273,342**
OPERATING EXPENDITURES										
Personnel	$ 74,306	$ -	$ -	$ -	$ 74,306	$ 110,819	67.1%	$ 332,458	$ 59,458	$ 14,849
Materials & Supplies	25	-	-	-	25	9,533	0.3%	28,600	16,659	(16,634)
Operational & Contractual	192,828	121,313	6,259	-	320,399	195,883	163.6%	587,649	214,367	106,033
Other		-	-	-	-	-	N/A	-	-	-
Capital	87,831	-	-	-	87,831	1,800	4879.5%	5,400	10,088	77,743
Total Operating Expenditures	**$ 354,990**	**$ 121,313**	**$ 6,259**	**$ -**	**$ 482,562**	**$ 318,036**	**151.7%**	**$ 954,107**	**$ 300,572**	**$ 181,990**
B&T Administration Overhead Allocation*	$ 403,363	$ (67,158)	$ (13,306)	$ (4,848)	$ 318,051	318,051	100.0%	$ 954,154	$ 218,679	$ 99,373
Operating Revenues Over (Under) Expenditures	**$ 164,291**	**$ 428,365**	**$ (2,112)**	**$ (3,848)**	**$ 586,696**	**$ 316,914**	**185.1%**	**$ 950,742**	**$ 395,971**	**$ 190,725**
INTERFUND TRANSACTIONS										
Reimbursement From Other Fund	$ 13,336	$ -	$ -	$ -	$ 13,336	$ 13,333	100.0%	$ 40,000	$ 13,336	$ -
Reimbursement To General Fund	(315,364)	-	-	-	(315,364)	(315,362)	100.0%	(946,087)	(184,720)	(130,644)
Total Interfund Transactions	**$ (302,028)**	**$ -**	**$ -**	**$ -**	**$ (302,028)**	**$ (302,029)**	**100.0%**	**$ (906,087)**	**$ (171,384)**	**$ (130,644)**
Total Revenues Over (Under) Expenditures - Budgetary Basis	**$ (137,737)**	**$ 428,365**	**$ (2,112)**	**$ (3,848)**	**$ 284,668**	**$ 14,885**		**$ 44,655**	**$ 224,587**	**$ 60,081**

*Overhead allocation is comprised of salaries, business forms, liability insurance, building & grounds maintenance and bank service fees in Program 811 - Sports Core General Operations distributed to various Sports Core Programs on a percentage basis.

**Estimates based on historical year-end audit adjustments. Actual amounts are not measured and recorded until the end of the year.

Village of Oak Brook
Monthly Operating Statement
Open Fields Operations
For the Period Ending April 30, 2026

	815 Polo	816 Open Fields	4/30/26 YTD Total	4/30/26 YTD Amended Budget	4/30/26 % of YTD Amended Budget	2026 Adopted Budget	4/30/25 YTD Total	Difference Prior Year
OPERATING REVENUES								
Field Rentals	$ -	$ 26,833	$ 26,833	$ 68,000	39.5%	$ 204,000	$ 29,222	$ (2,389)
Range Rentals	-	-	-	-	N/A	-	-	-
Other Revenue	-		-	-	N/A	-	-	-
Total Operating Revenues	**$ -**	**$ 26,833**	**$ 26,833**	**$ 68,000**	**39.5%**	**$ 204,000**	**$ 29,222**	**$ (2,389)**
OPERATING EXPENDITURES								
Personnel	$ -	$ -	$ -	$ -	N/A	$ -	$ -	$ -
Materials & Supplies	-	-	$ -	3,163	0.0%	9,490	-	-
Operational & Contractual	-	29,051	$ 29,051	25,774	112.7%	77,322	19,126	9,925
Capital	-	-	$ -	66,667	0.0%	200,000	-	-
Total Operating Expenditures	**$ -**	**$ 29,051**	**$ 29,051**	**$ 95,604**	**30.4%**	**$ 286,812**	**$ 19,126**	**$ 9,925**
B&T Administration Overhead Allocation*	$ -	$ (27,030)	$ (27,030)	(27,030)	100.0%	$ (81,090)	$ (18,585)	$ (8,445)
Total Revenues Over (Under) Expenditures - Budgetary Basis	**$ -**	**$ (29,248)**	**$ (29,248)**	**$ (54,634)**	**53.5%**	**$ (163,902)**	**$ (8,489)**	**$ (20,759)**

*Overhead allocation is comprised of salaries, business forms, liability insurance, building & grounds maintenance and bank service fees in Program 811 - Sports Core General Operations distributed to various Sports Core Programs on a percentage basis.
**Estimates based on historical year-end audit adjustments. Actual amounts are not measured and recorded until the end of the year.

Village of Oak Brook
Monthly Operating Statement
Bath & Tennis Clubhouse Operations
For the Period Ending April 30, 2026

	821 B&T Clubhouse	4/30/26 YTD Amended Budget	4/30/26 % of YTD Amended Budget	2026 Adopted Budget	4/30/25 YTD Total	Difference Prior Year
OPERATING REVENUES						
Rentals	$ 54,106	$ 80,000	67.6%	$ 240,000	$ 55,282	$ (1,176)
Other Revenue	-	-	0.0%	-	-	-
Total Operating Revenues	**$ 54,106**	**$ 80,000**	**67.6%**	**$ 240,000**	**$ 55,282**	**$ (1,176)**
OPERATING EXPENDITURES						
Personnel	$ -	$ -	N/A	$ -	$ -	$ -
Materials & Supplies	-	1,667	0.0%	5,000	137	(137)
Operational & Contractual	24,407	21,150	115.4%	63,450	12,514	11,893
Capital	-	-	N/A	-	-	-
Total Operating Expenditures	**$ 24,407**	**$ 22,817**	**107.0%**	**$ 68,450**	**$ 12,651**	**$ 11,757**
B&T Administration Overhead Allocation*	$ (56,944)	(56,944)	100.0%	$ (170,832)	$ (40,298)	$ (16,646)
Operating Revenues Over (Under) Expenditures	**$ (27,246)**	**$ 239**	**-11384.1%**	**$ 718**	**$ 2,333**	**$ (29,579)**
Total Revenues Over (Under) Expenditures - Budgetary Basis	**$ (27,246)**	**$ 239**		**$ 718**	**$ 2,333**	**$ (29,579)**

*Overhead allocation is comprised of salaries, business forms, liability insurance, building & grounds maintenance and bank service fees in Program 811 - Sports Core General Operations distributed to various Sports Core Programs on a percentage basis.
**Estimates based on historical year-end audit adjustments. Actual amounts are not measured and recorded until the end of the year.

Village of Oak Brook
Monthly Operating Statement
Golf Club Programs
For the Period Ending April 30, 2026

	823 Golf Café	831 Golf General Operation	832 Golf Learning & Practice	833 Golf Cart Operations	834 Golf Course Maintenance	844 Golf Surcharge	4/30/26 YTD Total	4/30/26 YTD Amended Budget	4/30/26 % of YTD Amended Budget	2026 Adopted Budget	4/30/25 YTD Total	Difference Prior Year
OPERATING REVENUES												
Memberships	$ -	$ 346,630	$ -	$ -	$ -	$ -	$ 346,630	$ 134,392	257.9%	$ 403,175	$ 337,550	$ 9,080
Greens Fees	-	202,081	-	-	-	-	202,081	580,667	34.8%	1,742,000	154,330	47,751
Pro Shop Sales	-	-	-	-	-	-	-	60,000	0.0%	180,000	22,312	(22,312)
Golf Lessons	-	-	38,660	-	-	-	38,660	33,333	116.0%	100,000	42,950	(4,290)
Driving Range Fees	-	-	243,676	-	-	-	243,676	259,667	93.8%	779,000	160,835	82,841
Rentals	12,240	-	7,250	56,063	-	-	75,553	228,157	33.1%	684,470	62,235	13,319
Food Sales	3,641	-	-	-	-	-	3,641	36,583	10.0%	109,750	2,157	1,483
Beverage Sales	-	-	-	-	-	-	-	-	N/A		884	(884)
Golf Surcharge	-	-	-	-	-	23,085	23,085	83,333	27.7%	250,000	19,700	3,385
Other Revenue	-	8,524	-	-	-	-	8,524	10,000	85.2%	30,000	19,500	(10,976)
Total Operating Revenues	**$ 15,881**	**$ 557,235**	**$ 289,586**	**$ 56,063**	**$ -**	**$ 23,085**	**$ 941,851**	**$ 1,426,132**	**66.0%**	**$ 4,278,395**	**$ 822,453**	**$ 119,397**
OPERATING EXPENDITURES												
Personnel	$ -	$ 109,123	$ 9,613	$ 3,038	$ 188,268		$ 310,041	$ 495,021	62.6%	$ 1,485,063	$ 239,815	$ 70,227
Materials & Supplies	-	19,281	503	-	45,142		64,926	138,266	47.0%	414,797	83,639	(18,713)
Operational & Contractual	-	89,618	8,622	2,750	23,456		124,446	135,030	92.2%	405,090	74,972	49,474
Other	-	-	-	-	-		-	-	N/A		-	-
Capital	-	67,882	8,500	-	49,252		125,633	227,847	55.1%	683,542	184,253	(58,619)
Total Operating Expenditures	**$ -**	**$ 285,903**	**$ 27,238**	**$ 5,788**	**$ 306,118**	**$ -**	**$ 625,047**	**$ 996,164**	**62.7%**	**$ 2,988,492**	**$ 582,678**	**$ 42,369**
Operating Revenues Over (Under) Expenditures	**$ 15,881**	**$ 271,332**	**$ 262,349**	**$ 50,275**	**$ (306,118)**	**$ 23,085**	**$ 316,804**	**$ 429,968**	**73.7%**	**$ 1,289,903**	**$ 239,775**	**$ 77,029**
B&T Administration Overhead Allocation*	$ -	$ (234,077)	$ -	$ -	$ -	$ -	$ (234,077)	(234,077)	100.0%	$ (702,232)	$ (159,796)	$ (74,282)
INTERFUND TRANSACTIONS												
Reimbursement To General Fund	$ -	$ -	$ -	$ -	$ -	$ -	N/A	$ -	0.0%	$ -	$ -	
Total Interfund Transactions	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**N/A**	**$ -**	**$ -**	**$ -**	**$ -**	
Total Revenues Over (Under) Expenditures - Budgetary Basis	**$ 15,881**	**$ 37,255**	**$ 262,349**	**$ 50,275**	**$ (306,118)**	**$ 23,085**	**$ 82,726**	**$ 195,890**		**$ 587,671**	**$ 79,979**	**$ 2,747**

*Estimates based on historical year-end audit adjustments. Actual amounts are not measured and recorded until the end of the year.

ITEM 6.D.1.
BOARD OF TRUSTEES MEETING
SAMUEL E. DEAN BOARD ROOM
BUTLER GOVERNMENT CENTER
1200 OAK BROOK ROAD
OAK BROOK, ILLINOIS
630-368-5000

AGENDA ITEM

Board of Trustees Special Meeting
of
June 16, 2026

SUBJECT: Referral – Butterfield Road Development Project – Butterfield Road Properties at 2707, 2803, 2805, 2908, 2901, 2905 and 2907 – Final Plat of Subdivision

FROM: Rebecca Von Drasek, Development Services Director

BUDGET SOURCE/BUDGET IMPACT: N/A

RECOMMENDED MOTION: I move that the Village Board refer the request for a preliminary and final plat to the Planning & Zoning Commission for review and recommendation.

Background/History:
DLA Piper LLC. with the approval of the owners of the properties located at 2707, 2803, 2805, 2908, 2901, 2905 and 2907 Butterfield Road, has submitted a petition requesting approval of a final plat of consolidation for the approximately 27-acre site. The current lots are improved with office buildings and surface parking lots. The proposed consolidation, Butterfield Road Development Project Final Plat of Consolidation would create one lot for a 225,000 square-foot Amazon commercial retail building, and an outlot.

A Planned Development was recommended for approval for a commercial retail building by the Planning & Zoning Commission on May 13, 2026. The Planned Development application will be on the July 14, 2026 Board meeting agenda for review.

Several additional documents have been included with this referral to provide the Board with more specific information related to the request.

Recommendation:
Staff recommends that the Village Board refer the Final Plat of Consolidation to the Planning & Zoning Commission (P&Z) for public hearing, review, and recommendation.

Attachments:
1. Exhibits - BOT 6-16-26

Record No: SD-26-3

Subdivision Application

Status: Active

Submitted On: 4/23/2026

Primary Location

2901 BUTTERFIELD RD
OAK BROOK, IL 60523

Owner

INLAND 2901 BUTTERFIELD
P O BOX 3666 OAK BROOK
, IL 60622

Applicant

Katie Jahnke Dale
[redacted]
444 West Lake Street
Chicago, IL 60606

Project Information

Subdivision Type*

Final Plat of Consolidation and/or Plat of Vacation

Subdivision Title*

Amazon Retail, LLC

Date Filed*

04/24/2026

Village Code Info

Number of Street Frontages for Public Hearing Signs*

2

General Location and Legal Address of Property to be Subdivided*

Commercial

Are you seeking any variation (relief) to the subdivision regulations?*

No

If YES, list the specific section in the Subdivision Regulations and attach a detailed explanation of the relief you are seeking:

Relationship of Applicant to Property Owner*

Agent

Owner of Record*

Inland 2905 & 2907 Butterfield Road L.L.C. and Inland 2901 Butterfield Road L.L.C.

Phone*

[redacted]

Address*

210 Skokie Valley Rd. Suite A

City, State, Zip*

Highland Park, IL 60035

Is the property in Trust?*

No

I (we) certify that all of the above statements and the statements contained in any papers or plans submitted herewith are true to the best of my (our) knowledge and belief. I (we) give permission to the Village to install public hearing sign(s) on the lot frontages of the above subject property as described in the Village Code. In addition to the above fees, applicant agrees to reimburse the Village for publication costs within 30 days of billing.*

Katie Jahnke Dale
Apr 23, 2026

OWNERS AFFIDAVIT FOR SUBDIVISIONS OF NOT MORE THAN FIVE (5) LOTS This plat contains the entire contiguous undeveloped land area in which I have any interest.*

Katie Jahnke Dale
Apr 23, 2026

Sizing by Land Use Category

Number of Lots by Type*

Commercial

Number of Lots*

5

Number of Acres by Type*	Number of Acres*
Commercial	2.92

Number of Square Feet by Type*	Number of Square Feet*
Commercial	127195

Application for Planned Development
Butterfield Road Retail Development
Village of Oak Brook, Illinois
Updated: April 20, 2026

Project Narrative

Amazon Retail, LLC (the "**Applicant**") seeks approval of a planned development to authorize the redevelopment of the approximately 27-acre site generally located at 2901 Butterfield Road (the "**Property**"). The Applicant proposes to construct a one-story, approximately 225,000 square-foot commercial retail building served by 871 accessory parking spaces and 9 loading docks (the "**Amazon Retail Building**"). The 27-acre development includes an area for a future 1.70 acre oultot to be subdivided at a later date (the "Future Outlot"). The Future Outlot will be located north and east of the proposed site of the Amazon Retail Building. The proposed development includes two large stormwater management areas and significant open space, buffering the retail buildings from surrounding roadways.

The proposed Amazon Retail Building will provide a wide selection of products, including groceries and general merchandise, with accessory services and, possibly, dining locations for food prepared and sold on-site. The Amazon Retail Building will offer in-store shopping as well as fulfillment of individual online retail orders for pickup or local delivery, meeting consumer demand for online ordering without compromising an in-store customer experience.

Ingress and egress to the Amazon Retail Building has been carefully planned to enhance safety and coordinate in-store shopping, delivery pickup, and merchandise deliveries. In-store customers will access the Property from Butterfield Road and park on the north side of the building and enter through the north entrance. Customers collecting online orders will use parking spaces dedicated to customer pickup along the building's western façade. The site plan dedicates space along the southern façade of the Amazon Retail Building for third-party delivery drivers, who will enter and leave that parking area via a designated route to and from County Road 25. This separation of uses promotes safe traffic flow and facilitates easy movement of merchandise from the store to waiting flex drivers. Trucks will enter and leave the site via a modified right-in/right-out intersection with Butterfield Road located at the western end of the Property.

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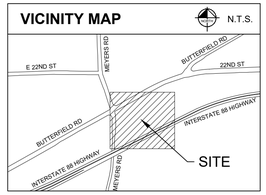
BUTTERFIELD ROAD DEVELOPMENT PROJECT
FINAL PLAT OF CONSOLIDATION
OF
THAT PART OF THE NORTH 1/2 OF SECTION 28, TOWNSHIP 39 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN IN DUPAGE COUNTY, ILLINOIS

VICINITY MAP N.T.S.



TAX PIN'S PARCEL 1: 06-28-104-009
06-28-202-020
TAX PIN PARCEL 5: 06-28-104-015
TAX PIN'S PARCEL 6: 06-28-104-011
06-28-104-013

BASIS OF BEARINGS

ALL BEARINGS SHOWN ARE BASED ON GRID NORTH OF THE ILLINOIS COORDINATE SYSTEM OF 1983, EAST ZONE (1201), NORTH AMERICAN DATUM OF 1983.

AREA SUMMARY

PARCEL 1	745,161 SQ.FT.	(17.107 AC.)
PARCEL 5	128,463 SQ.FT.	(2.949 AC.)
PARCEL 6	301,739 SQ.FT.	(6.927 AC.)
TOTAL LOT 1	1,175,363 SQ.FT.	(26.983 AC.)

SITE ADDRESSES

2707 BUTTERFIELD RD., OAK BROOK IL 60523
2803 BUTTERFIELD RD., OAK BROOK IL 60523
2805 BUTTERFIELD RD., OAK BROOK IL 60523
2809 BUTTERFIELD RD., OAK BROOK IL 60523
2901 BUTTERFIELD RD., OAK BROOK IL 60523
2905 BUTTERFIELD RD., OAK BROOK IL 60523
2907 BUTTERFIELD RD., OAK BROOK IL 60523

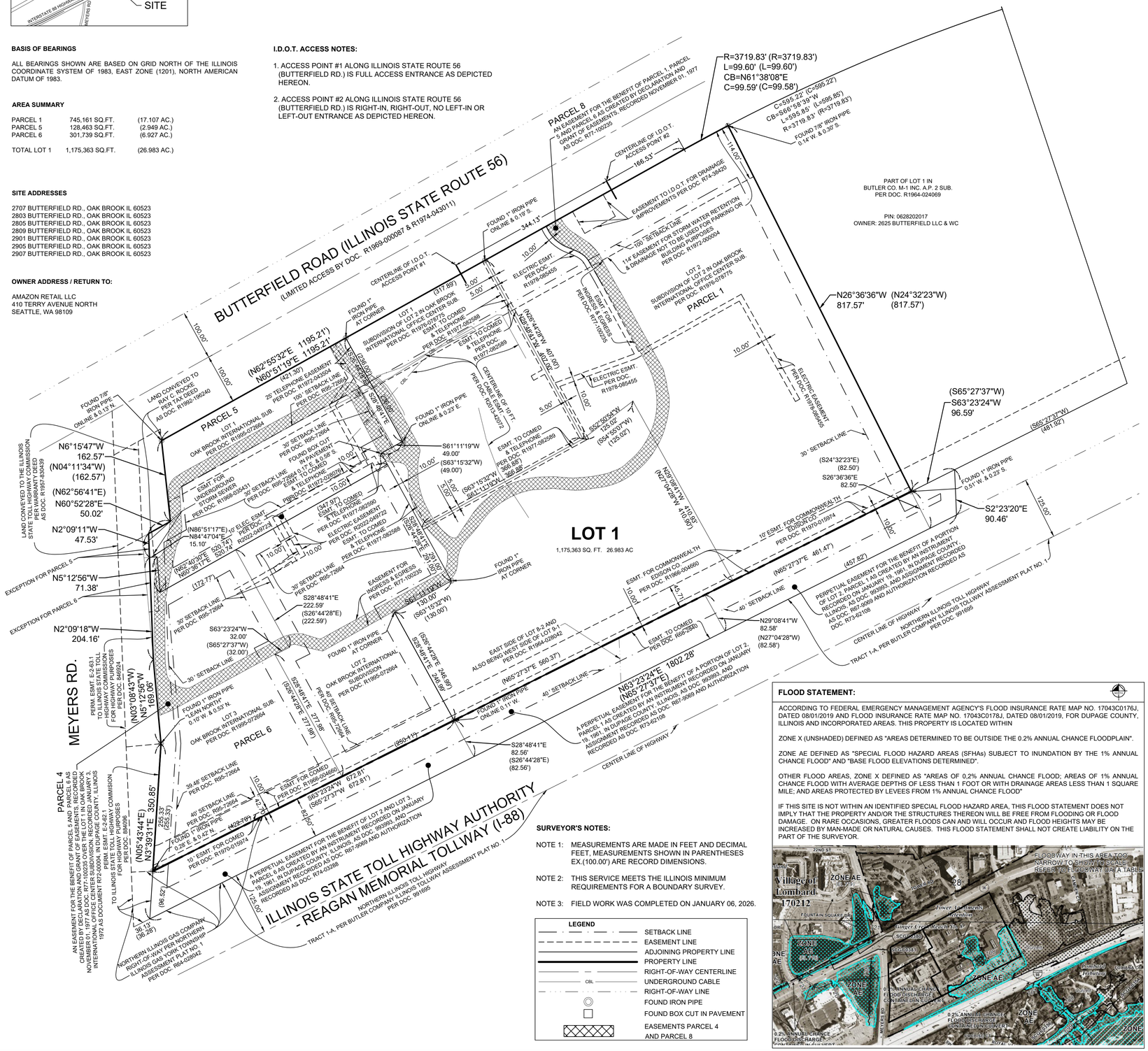
OWNER ADDRESS / RETURN TO:

AMAZON RETAIL LLC
410 TERRY AVENUE NORTH
SEATTLE, WA 98109

I.D.O.T. ACCESS NOTES:

1. ACCESS POINT #1 ALONG ILLINOIS STATE ROUTE 56 (BUTTERFIELD RD.) IS FULL ACCESS ENTRANCE AS DEPICTED HEREON.

2. ACCESS POINT #2 ALONG ILLINOIS STATE ROUTE 56 (BUTTERFIELD RD.) IS RIGHT-IN, RIGHT-OUT, NO LEFT-IN OR LEFT-OUT ENTRANCE AS DEPICTED HEREON.



SURVEYOR'S NOTES:

NOTE 1: MEASUREMENTS ARE MADE IN FEET AND DECIMAL FEET, MEASUREMENTS SHOWN IN PARENTHESES EX.(100.00') ARE RECORD DIMENSIONS.

NOTE 2: THIS SERVICE MEETS THE ILLINOIS MINIMUM REQUIREMENTS FOR A BOUNDARY SURVEY.

NOTE 3: FIELD WORK WAS COMPLETED ON JANUARY 06, 2026.

LEGEND

- SETBACK LINE
- EASEMENT LINE
- ADJOINING PROPERTY LINE
- PROPERTY LINE
- RIGHT-OF-WAY CENTERLINE
- CBL — UNDERGROUND CABLE
- RIGHT-OF-WAY LINE
- FOUND IRON PIPE
- FOUND BOX CUT IN PAVEMENT
- EASEMENTS PARCEL 4 AND PARCEL 8

FLOOD STATEMENT:

ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE RATE MAP NO. 17043C0176J, DATED 08/01/2019 AND FLOOD INSURANCE RATE MAP NO. 17043C0178J, DATED 08/01/2019, FOR DUPAGE COUNTY, ILLINOIS AND INCORPORATED AREAS. THIS PROPERTY IS LOCATED WITHIN

ZONE X (UNSHADED) DEFINED AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN".

ZONE AE DEFINED AS "SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD" AND "BASE FLOOD ELEVATIONS DETERMINED".

OTHER FLOOD AREAS, ZONE X DEFINED AS "AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD"

IF THIS SITE IS NOT WITHIN AN IDENTIFIED SPECIAL FLOOD HAZARD AREA, THIS FLOOD STATEMENT DOES NOT IMPLY THAT THE PROPERTY AND/OR THE STRUCTURES THEREON WILL BE FREE FROM FLOODING OR FLOOD DAMAGE. ON RARE OCCASIONS, GREATER FLOODS CAN AND WILL OCCUR AND FLOOD HEIGHTS MAY BE INCREASED BY MAN-MADE OR NATURAL CAUSES. THIS FLOOD STATEMENT SHALL NOT CREATE LIABILITY ON THE PART OF THE SURVEYOR.

22ND ST
Village of Lombard 170212
ZONE AE
FOUNTAIN SQUARE DR
Tower Townes Condos
Ginger Creek Road Way
SCG0181
SCG0181
ZONE AE
ZONE AE
ZONE AE

TAX PIN'S PARCEL 1: 06-28-104-009
06-28-202-020
TAX PIN PARCEL 5: 06-28-104-015
TAX PIN'S PARCEL 6: 06-28-104-011
06-28-104-013

BUTTERFIELD ROAD DEVELOPMENT PROJECT
FINAL PLAT OF CONSOLIDATION
OF
THAT PART OF THE NORTH 1/2 OF SECTION 28, TOWNSHIP 39 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN IN DUPAGE COUNTY, ILLINOIS

OWNER'S CERTIFICATE

STATE OF _____)
)SS
COUNTY OF _____)

THIS IS TO CERTIFY THAT _____, IS THE FEE SIMPLE OWNER OF THE PROPERTY DESCRIBED IN THE FOREGOING SURVEYOR'S CERTIFICATE AND HAS CAUSED THE SAME TO BE SURVEYED, SUBDIVIDED, AND PLATTED AS SHOWN HEREON FOR THE USES AND PURPOSES HEREIN SET FORTH AS ALLOWED AND PROVIDED FOR BY STATUTE, AND DOES HEREBY ACKNOWLEDGE AND ADOPT THE SAME UNDER THE STYLE AND TITLE THEREON INDICATED

THIS IS TO ALSO CERTIFY THAT _____, AS OWNER OF THE PROPERTY DESCRIBED AS "BUTTERFIELD ROAD DEVELOPMENT PROJECT" AND LEGALLY DESCRIBED ON THE PLAT OF THE SAME NAME, HAVE DETERMINED TO THE BEST OF OUR KNOWLEDGE THE SCHOOL DISTRICT IN WHICH EACH OF THE FOLLOWING LOTS LIE:

LOT 1 - DOWNERS GROVE GRADE SCHOOL DISTRICT 58 AND COMMUNITY HIGH SCHOOL DISTRICT 99.

DATED THIS ____ DAY OF _____, 20____.

BY: _____

PRINT NAME: _____

ITS:_____

NOTARY CERTIFICATE

STATE OF _____)
)SS
COUNTY OF _____)

I, _____, A NOTARY PUBLIC IN AND FOR SAID COUNTY, IN THE STATE AFORESAID,

DO HEREBY CERTIFY THAT _____ PERSONALLY KNOWN TO ME TO BE THE SAME PERSONS WHOSE NAMES ARE SUBSCRIBED TO THE AFORESAID INSTRUMENT AS SUCH OWNERS, APPEARED BEFORE ME THIS DAY IN PERSON AND ACKNOWLEDGED THAT THEY SIGNED THE ANNEXED PLAT AS THEIR OWN FREE AND VOLUNTARY ACT FOR THE USES AND PURPOSES THEREIN SET FORTH.

GIVEN UNDER MY HAND AND NOTARIAL SEAL THIS ___ DAY OF _____, 20___.

_____
NOTARY PUBLIC

CERTIFICATE OF STATE HIGHWAY DEPARTMENT

THIS PLAT HAS BEEN APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION WITH RESPECT TO ROADWAY ACCESS PURSUANT TO PARAGRAPH 2 OF "AN ACT TO REVISE THE LAW IN RELATION TO PLATS," AS AMENDED. A PLAN THAT MEETS THE REQUIREMENTS CONTAINED IN THE DEPARTMENT'S "POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS" WILL, BE REQUIRED BY THE DEPARTMENT.

DATED THIS ____ DAY OF _____, 20____.

_____
DISTRICT ENGINEER
ILLINOIS DEPARTMENT OF TRANSPORTATION

PLAN COMMISSION CERTIFICATE

STATE OF ILLINOIS)
)SS
COUNTY OF DUPAGE)

APPROVED BY THE PLAN COMMISSION OF THE VILLAGE OF OAK BROOK, DUPAGE COUNTY, ILLINOIS,

THIS _____DAY OF _____, 20__.

_____
CHAIRMAN

VILLAGE CLERK'S CERTIFICATE

STATE OF ILLINOIS)
)SS
COUNTY OF DUPAGE)

I, _____, VILLAGE CLERK OF THE VILLAGE OF OAK BROOK, ILLINOIS, HEREBY CERTIFY THAT THE ANNEXED PLAT WAS PRESENTED TO AND BY RESOLUTION DULY APPROVED BY THE VILLAGE BOARD OF SAID VILLAGE AT ITS MEETING HELD ON _____, 20___ , AND THAT THE REQUIRED BOND OR OTHER GUARANTEE HAS BEEN POSTED FOR THE COMPLETION OF THE IMPROVEMENTS REQUIRED BY THE REGULATIONS OF SAID VILLAGE.

IN WITNESS WHEREOF I HAVE HERETO SET MY HAND AND THE SEAL OF THE VILLAGE OF OAK BROOK, ILLINOIS,

THIS _____DAY OF _____, 20__.

_____
VILLAGE CLERK

CERTIFICATE AS TO SPECIAL ASSESSMENTS

STATE OF ILLINOIS)
)SS
COUNTY OF DUPAGE)

I, _____, VILLAGE TREASURER OF THE VILLAGE OF OAK BROOK DO HEREBY CERTIFY THAT THERE ARE NO DELINQUENT OR UNPAID CURRENT OR FORFEITED SPECIAL ASSESSMENTS OR ANY DEFERRED INSTALLMENTS THEREOF THAT HAVE BEEN APPORTIONED AGAINST THE TRACT OF LAND INCLUDED IN THE PLAT.

DATED AT OAK BROOK, DUPAGE COUNTY, ILLINOIS, THIS _____ DAY OF _____, 20__.

_____
TREASURER

COUNTY CLERK CERTIFICATE

STATE OF ILLINOIS)
)SS
COUNTY OF DUPAGE)

I, _____, COUNTY CLERK OF DUPAGE COUNTY, ILLINOIS, DO HEREBY CERTIFY THAT THERE ARE NO DELINQUENT GENERAL TAXES, NO UNPAID FORFEITED TAXES, AND NO REDEEMABLE TAX SALES AGAINST ANY OF THE LAND INCLUDED IN THE ANNEXED PLAT.

GIVEN UNDER MY HAND AND SEAL AT WHEATON, DUPAGE COUNTY, ILLINOIS,

THIS _____ DAY OF _____, 20__.

_____
COUNTY CLERK

COUNTY RECORDER'S CERTIFICATE

STATE OF ILLINOIS)
)SS
COUNTY OF DUPAGE)

THIS INSTRUMENT _____ WAS FILED FOR RECORD IN THE RECORDER'S OFFICE OF

DUPAGE COUNTY, ILLINOIS, ON THE _____ DAY OF _____, 20___, AT _____O'CLOCK __ M.,

AND WAS RECORDED IN BOOK ____ OF PLATS ON PAGE _____.

_____
RECORDER OF DEEDS

SANITARY DISTRICT CERTIFICATE

STATE OF ILLINOIS)
)SS
COUNTY OF DUPAGE)

I, _____ , SECRETARY OF THE _____ SANITARY DISTRICT, DUPAGE COUNTY, ILLINOIS, HEREBY CERTIFY THAT THERE ARE NO DELINQUENT OR UNPAID CURRENT OR FORFEITED SPECIAL ASSESSMENTS OR ANY DEFERRED INSTALLMENTS THEREOF THAT HAVE BEEN CONFIRMED AGAINST THE TRACT OF LAND INCLUDED IN THE PLAT.

DATED AT _____, ILLINOIS, THIS _____ DAY OF _____, 20__.

_____
SECRETARY

VILLAGE ENGINEER'S CERTIFICATE

STATE OF ILLINOIS)
)SS
COUNTY OF DUPAGE)

I, _____, VILLAGE ENGINEER OF THE VILLAGE OF OAK BROOK, ILLINOIS, HEREBY CERTIFY THAT THE LAND IMPROVEMENTS DESCRIBED IN THE ANNEXED PLAT AND THE PLANS AND SPECIFICATIONS THEREFOR MEET THE MINIMUM REQUIREMENTS OF SAID VILLAGE AND HAVE BEEN APPROVED BY ALL PUBLIC AUTHORITIES HAVING JURISDICTION THEREOF.

DATED AT OAK BROOK, DUPAGE COUNTY, ILLINOIS, THIS _____ DAY OF _____, 20__.

_____
VILLAGE ENGINEER

PERMISSION TO RECORD

STATE OF ILLINOIS)
)SS
COUNTY OF DUPAGE)

I, BRADLEY A. STROHL, ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3686, HEREBY GRANT PERMISSION TO A REPRESENTATIVE OF THE VILLAGE OF OAK BROOK, ILLINOIS, TO RECORD THIS PLAT ON OR BEFORE DECEMBER 31, 2025. SHALL SHOW PROPER IDENTIFICATION AND PROVIDE THIS SURVEYOR WITH A RECORDED COPY OF SAID PLAT.

DATED THIS ____ DAY OF _____, 20___.

_____
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3686
LICENSE EXPIRES: NOVEMBER 30, 2026

BRADLEY A. STROHL 3686 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS WARRENVILLE, ILLINOIS

SURVEYOR'S CERTIFICATE

STATE OF ILLINOIS)
)SS
COUNTY OF DUPAGE)

THIS IS TO CERTIFY THAT I, BRADLEY A. STROHL, ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-003686, HAVE SURVEYED AND SUBDIVIDED THE FOLLOWING DESCRIBED PROPERTY:

PARCEL 1: LOTS 1 AND 2 IN THE SUBDIVISION OF LOT 2 IN OAK BROOK INTERNATIONAL OFFICE CENTER SUBDIVISION, BEING A SUBDIVISION OF PART OF THE NORTH 1/2 OF SECTION 28, TOWNSHIP 39 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT RECORDED AS DOCUMENT NUMBER R76-78775 IN DUPAGE COUNTY, ILLINOIS.

PARCEL 5: LOT 1 IN OAK BROOK INTERNATIONAL SUBDIVISION, BEING A RESUBDIVISION OF LOT 1 IN OAK BROOK INTERNATIONAL OFFICE CENTER SUBDIVISION OF PART OF THE NORTH 1/2 OF SECTION 28, TOWNSHIP 39 NORTH, RANGE11, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED JUNE 14, 1995 AS DOCUMENT NO. R95-072664, IN DUPAGE COUNTY, ILLINOIS. EXCEPTING THEREFROM THAT PART DESCRIBED AS BEGINNING AT THE MOST WESTERLY NORTHWEST CORNER OF SAID LOT 1 (SAID POINT ALSO BEING THE NORTHEAST CORNER OF ILLINOIS STATE TOLL HIGHWAY COMMISSION PERMANENT EASEMENT E-2-63.1); THENCE NORTH 63 DEGREES 11 MINUTES 33 SECONDS EAST ALONG A NORTHERLY LINE OF SAID LOT 1 A DISTANCE OF 14.71 FEET (4.4830M); THENCE SOUTH 00 DEGREES 14 MINUTES 08 SECONDS WEST TO A SOUTHERLY LINE OF SAID LOT 1 A DISTANCE OF 47.55 FEET (14.4920M); THENCE SOUTH 87 DEGREES 10 MINUTES 30 SECONDS WEST ALONG SAID SOUTHERLY LINE A DISTANCE OF 10.90 FEET (3.3223M) TO THE MOST WESTERLY LINE OF SAID LOT 1 (ALSO BEING THE EAST LINE OF AFORESAID PERMANENT EASEMENT E-2-63.1); THENCE NORTH 02 DEGREES 49 MINUTES 30 SECONDS WEST ALONG THE MOST WESTERLY LINE OF SAID LOT 1 A DISTANCE OF 41.50 FEET (12.6492M) TO THE POINT OF BEGINNING, IN DUPAGE COUNTY, ILLINOIS.

PARCEL 6: LOTS 2 AND 3 IN OAK BROOK INTERNATIONAL SUBDIVISION, BEING A RESUBDIVISION OF LOT 1 IN OAK BROOK INTERNATIONAL OFFICE CENTER SUBDIVISION OF PART OF THE NORTH 1/2 OF SECTION 28, TOWNSHIP 39 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED JUNE 14, 1995 AS DOCUMENT NO. R95-072664, (EXCEPTING THEREFROM THAT PART OF LOT 3 DESCRIBED AS BEGINNING AT THE MOST NORTHWEST CORNER OF SAID LOT 3; THENCE NORTH 87 DEGREES 10 MINUTES 30 SECONDS EAST ALONG A NORTH LINE OF SAID LOT 3 A DISTANCE OF 10.90 FEET; THENCE SOUTH 00 DEGREES 14 MINUTES 08 SECONDS WEST A DISTANCE OF 204.16 FEET TO A POINT ON THE WEST LINE OF SAID LOT 3 (ALSO BEING THE EAST LINE OF ILLINOIS STATE TOLL HIGHWAY COMMISSION PERMANENT EASEMENT E-2-63.1); THENCE NORTH 02 DEGREES 49 MINUTES 30 SECONDS WEST ALONG THE WEST LINE OF SAID LOT 3 A DISTANCE OF 203.87 FEET TO THE POINT OF BEGINNING), IN DUPAGE COUNTY, ILLINOIS.

CONTAINING 26.983 ACRES OR 1,175,363 SQUARE FEET MORE OR LESS

AS SHOWN BY THE ANNEXED PLAT, WHICH IS A CORRECT REPRESENTATION OF SAID SURVEY AND SUBDIVISION. ALL DISTANCES ARE SHOWN IN FEET AND DECIMALS THEREOF. I FURTHER CERTIFY THAT ALL REGULATIONS ENACTED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF OAK BROOK RELATIVE TO PLATS AND SUBDIVISIONS HAVE BEEN COMPLIED WITH IN PREPARATION OF THIS PLAT. I FURTHER CERTIFY THAT THE LAND IS WITHIN THE VILLAGE OF OAK BROOK (OR WITHIN 1/2 MILES OF THE CORPORATE LIMITS OF THE VILLAGE OF OAK BROOK) WHICH HAS ADOPTED A VILLAGE COMPREHENSIVE PLAN AND MAP AND IS EXERCISING THE POWERS AUTHORIZED BY DIVISION 12 OF ARTICLE 11 OF THE ILLINOIS MUNICIPAL CODE AS AMENDED. I FURTHER CERTIFY THAT A PART OF THE LANDS SHOWN ON THIS PLAT ARE LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA AS IDENTIFIED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.

GIVEN UNDER MY HAND AND SEAL AT _____, ILLINOIS,

THIS ____ DAY OF _____, 20__.

_____
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3686
LICENSE EXPIRES: NOVEMBER 30, 2026

DESIGN FIRM PROFESSIONAL REGISTRATION NO. 184002012-0006
EXPIRES APRIL 30, 2027

BRADLEY A. STROHL 3686 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS WARRENVILLE, ILLINOIS

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2026 KIMLEY-HORN AND ASSOCIATES, INC.
4201 WINFIELD ROAD, SUITE 600
WARRENVILLE, IL 60555
PHONE: 630-487-9500
WWW.KIMLEY-HORN.COM

SCALE: AS NOTED
DESIGNED BY: BAS
DRAWN BY: AJ
CHECKED BY: BAS

FINAL PLAT OF CONSOLIDATION

BUTTERFIELD ROAD DEVELOPMENT PROJECT

MEYERS RD. & BUTTERFIELD RD., OAK BROOK, IL. 60523

ORIGINAL ISSUE: 04/17/26
KHA PROJECT NO. 049561356
SHEET NUMBER
2 OF 2

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

ITEM 6.D.2.
BOARD OF TRUSTEES MEETING
SAMUEL E. DEAN BOARD ROOM
BUTLER GOVERNMENT CENTER
1200 OAK BROOK ROAD
OAK BROOK, ILLINOIS
630-368-5000

AGENDA ITEM

Board of Trustees Special Meeting
of
June 16, 2026

SUBJECT: Referral - 3715 Spring Road (north Lot and south lot)– Certificates of Appropriateness (COA) for Single-Family Residences

FROM: Rebecca Von Drasek, Development Services Director

BUDGET SOURCE/BUDGET IMPACT: N/A

RECOMMENDED MOTION: I move that the Village Board refer this appearance review for two single-family homes to the Planning & Zoning Commission for Certificates of Appropriateness in the Historic Graue Mill Gateway Area.

Background/History:
Mark Daniel (Daniel Law Office, P.C.) with the consent of the property owners, has submitted an application requesting a Certificate of Appropriateness (COA) in the Historic Graue Mill Gateway Area for two (2) single-family homes at 3715 Spring Road and the at the lot to the south (Washington Street). The project would include the demolition of the existing single-family home on the north lot and shed structure on the south lot for the construction of a new single-family home on each lot. The properties are zoned R-3 Single-Family Residence and located on the southeast corner of Spring Road and Washington Street.

The subject property (both lots) was previously included as part of a zoning/subdivision petition in 2017 for a two-lot subdivision that included lot size variations. The entitlement process was never completed and the property owner has since pursued and recorded a two (2)-lot deed division. The deed division created two (2) lots that are 29,086 sf and 25,150 sf in area respectively.

Chapter 8 Historic Graue Mill Gateway Area of the Zoning Code has been provided as an attachment for reference purposes. More specifically, Section 13-8-7 of the Gateway Development Plan is identified below and states the criteria to be reviewed:

"A. Relationship Of Proposed Buildings Or Structures To Site And Adjoining Area: The site shall be planned to accomplish a desirable transition with the streetscape, and to provide for adequate planting, pedestrian movement, and parking areas, and shall be evaluated pursuant to the following criteria:

1. *The provision, where practical, of setbacks in excess of zoning restrictions to provide an interesting relationship between buildings.*
2. *The treatment of parking areas with decorative elements, building wall extensions, plantings, berms or other innovative means so as to screen parking from view;*
3. *The underground installation of newly installed utility services, and service revisions necessitated by exterior alterations.*

B. Building Design: Evaluation of the appearance of a project shall be based on the following criteria:

1. *The quality of the design and its relationship to the Graue Mill, its site, and the historic period it represents;*
2. *The compatibility of the design, arrangement, texture, and materials of the proposed buildings or structures with the intent and purpose of the area;*
3. *The screening and location of mechanical equipment or other utility hardware on roof, ground, or buildings from public view with materials harmonious to the building, so as not to be visible from any public ways;*
4. *The unobtrusiveness and harmoniousness of exterior lighting and the compatibility of fixtures, standards, and all exposed accessories with the building design."; and*

"F. Site Plan: A detailed site plan shall show:

1. *Exact location of the building(s) or structure(s) on the site;*
2. *Exact location of drives, walks, parking areas, parking layout, freestanding or retaining walls, fences, and drainage accommodations;*
3. *Elevations showing all sides of the proposed structure. Elevations should indicate the type of materials to be used on the structure as well as their proportions;*
4. *Existing grades or topographic details to be retained and proposed grading;*
5. *Location of utilities. (Ord. G-272, 11-11-1980; Ord. G-695, 3-26-2002)".*

Recommendation:

Staff recommends that the Village Board refer the request for the Certificates of Appropriateness to the Planning & Zoning Commission for a public hearing and recommendation. The petition will then come back to the President and Board of Trustees for a decision concerning the issuance of the COAs so that building permits can eventually be issued for the single-family homes.

Attachments:

1. Exhibits - BOT 6-16-26

Record No: PZ-26-2

Planning & Zoning Application

Status: Active

Submitted On: 5/3/2026

Primary Location

3715 Spring Road

Owner

No owner information

Applicant

Mark Daniel
[redacted]
[redacted]
17W733 Butterfield Road
Unit F
Oakbrook Terrace, IL 60181

Project Information

Type of Property*

Residential

Zoning Ordinance Type*

Certificate of Appropriateness

Date Filed*

04/30/2026

Property Interest of the Applicant*

Agent

Owner of Record*

First Nations Bank, Trustee Tr. No. 1824

Phone*

[redacted]

Address*

17W300 22nd Street

City, State, Zip*

Oakbrook Terrace, IL 60181

Is the property in Trust?*

Yes

Type of Residential Project*

New Residence

Number of Street Frontages for Public Hearing Signs*

2

Intended Meeting Date*

07/01/2026

Property Information

Subdivision*

Other

Zoning District*

R-3 Single-Family

Zoning Ordinance Section (see title 13 in Village Code)

13-8-6, 13-8-9

Proposed Use/Action Requested*

APPROVAL OF CERTIFICATE OF APPROPRIATENESS FOR NEW SINGLE FAMILY RESIDENCE

Location and Legal Address

ADDRESS UNASSIGNED

Permanent Parcel Number*

636308032

Acknowledgement

I (we) certify that all of the above statements and the statements contained in any documents or plans submitted herewith are true to the best of my (our) knowledge and belief. I (we) give permission to the Village to install public hearing sign(s) on the lot frontages of the above subject property as described in the Village Code. In addition to the above fees, applicant agrees to reimburse the Village for publication costs within 30 days of billing.*

Mark W. Daniel (attorney for Applicant)
Apr 29, 2026

Signature of Applicant: I agree that my electronic signature is equivalent to a handwritten signature and is binding for all purposes related to this transaction.*

Mark W. Daniel (attorney for Applicant)
Apr 29, 2026

Record No: PZ-26-3

Planning & Zoning Application

Status: Active

Submitted On: 5/3/2026

Primary Location

3715 SPRING RD
OAK BROOK, IL 60523

Owner

SAHLI, MARIA
3715 SPRING RD OAK BROOK , IL 60523

Applicant

Mark Daniel
[redacted]
[redacted]
17W733 Butterfield Road
Unit F
Oakbrook Terrace, IL 60181

Project Information

Type of Property*

Residential

Zoning Ordinance Type*

Certificate of Appropriateness

Date Filed*

05/03/2026

Property Interest of the Applicant*

Agent

Owner of Record*

MARIA SAHLI

Phone*

[redacted]

Address*

17W300 22ND STREET

City, State, Zip*

OAKBROOK TERRACE, IL 60181

Is the property in Trust?*

No

Type of Residential Project*

New Residence

Number of Street Frontages for Public Hearing Signs*

1

Intended Meeting Date*

07/01/2026

Property Information

Subdivision*

Other

Zoning District*

R-3 Single-Family

Zoning Ordinance Section (see title 13 in Village Code)

13-8-6, 13-8-9

Proposed Use/Action Requested*

APPROVAL OF CERTIFICATE OF APPROPRIATENESS FOR NEW SINGLE FAMILY RESIDENCE

Location and Legal Address

ADDRESS UNASSIGNED

Permanent Parcel Number*

636308033

Acknowledgement

I (we) certify that all of the above statements and the statements contained in any documents or plans submitted herewith are true to the best of my (our) knowledge and belief. I (we) give permission to the Village to install public hearing sign(s) on the lot frontages of the above subject property as described in the Village Code. In addition to the above fees, applicant agrees to reimburse the Village for publication costs within 30 days of billing.*

Mark W. Daniel
May 3, 2026

Signature of Applicant: I agree that my electronic signature is equivalent to a handwritten signature and is binding for all purposes related to this transaction.*

Mark W. Daniel
May 3, 2026

Mark W. Daniel, Esq.
mark@thedaniellawoffice.com

17W733 Butterfield Road, Unit F
Oakbrook Terrace, IL 60181
(630) 833-3311
Fax: (630) 833-3511

Daniel Law Office, P.C.

May 3, 2026

Via E-Mail (DropBox) & Upload

Hon. Laurence Herman, Village President
Hon. Rajaraman Iyer, Plan Commission Chairman
c/o Rebecca VonDrasek & Cathy Chiarelli
Village of Oak Brook
1200 Oak Brook Road
Oak Brook, Illinois 60523

Re: Parcel 2 Sahli Assmt. Plat (fmrly. 3715 Spring, part of)
Request for Certificate of Appropriateness
P.I.N. 06-36-308-033

Dear President Herman and Chair Iyer:

I represent Maria Sahli, as Applicant for a Certificate of Appropriateness (filed November 15, 2021) for the parcel assigned Permanent Index No. 06-36-308-033, which is one lot south of the property at the southeast corner of the intersection of Spring Road and Washington Street. This information is provided as an update and supplement to the information already on file with the Village in Case No. 2022-01-ZO-CA. In order to comply with formatting in the Village's online application portal, I provided the following items:

1. A copy of Title 13, Chapter 8;
2. A copy of the last tax bill for the property;
3. The surrounding owners' verification, with a map and address label file;
4. The subject property verification;
5. Architectural plans ;
6. An existing conditions survey;
7. Site development plan;
8. List of persons testifying;
9. The Sahli Assessment Plat (R2020-077385);
10. Landscape plan;
11. Legal descriptions;
12. Details sheet;
13. Exhibit depicting current and future lot lines and easements; and
14. A DropBox containing these files.

The response concerning the standards (beginning on Page 6) is premised on the discussion of the development site, the Gateway Area, the neighborhood, and the project on the next four pages of the narrative. This supplemental information is in addition to the materials provided previously.

I will provide staff with a Powerpoint in advance of hearing. This supplement to request for Certificate of Appropriateness is being processed along with the supplemental information regarding the request for certificate of appropriateness for the northerly neighboring lot owned by First Nations Bank, as trustee (PIN 06-36-308-032).

Property Description

The parcel that is on the lot south of the lot at the southeast corner of the intersection of Spring Road and Washington Street is the south portion of land formerly known as 3715 Spring Road, Oak Brook (PIN 06-36-308-033) (the **"Property"**). The west property line of the Property is within the right of way known as Washington Street. The Property is situated in the Village's R-3 single-family residence district and meets the minimum width and area requirements.

Like its neighbor to the north, the Property has an area of roughly one-half of an acre. Due to matters that ended up in litigation, the area of the Property and its neighbor will change for various reasons. First, there will be an adjustment of the north property line between the Property and its northerly neighbor. Second, the Applicant plans to dedicate some of her land to the Village as right-of-way. Please see the future lot line and easement exhibit. These changes will not affect the appearance of the Property amid its surroundings since no one recognizes the true boundary between the right of way and private property or that a property line is in an existing right of way.

The Property features standard easements on its perimeter. These easements are also undergoing review with the placement of overhead wires underground. Power poles exist along the west property line. Rights to drainage benefitting 3719 Spring Road (portions of which drain onto the Property) will cause some planning for drainage that is customary in the block and draw water from the north and east. No improvements are planned that will obstruct or slow storm flow from any higher property or increase the rate or volume of flow onto any lower property.

The right-of-way and frontage portions of the Property feature some trees and the area-standard culvert and swale drainage system. Various Village and utility easements line the west side of the Property. There are no sidewalks. Water (west) and sanitary (west) are available within Washington Street.

Ground elevations range from 651 on the east side of the Property down to 648 at the rim of the west street culvert where elevation necessarily drops and to allow drainage north to a catch basin that conveys stormwater to Salt Creek. 3719 Spring Road is the high point in the area, with grades taking water in multiple directions, but the Property will be graded and designed to convey the portion of stormwater from 3719 Spring Road that flows west or southwest.

Surrounding Area

In November 1980, the Graue Mill Gateway Area was established along with related historic district in Hinsdale that no longer exists following an update to the Hinsdale Zoning Ordinance. The Graue Mill Gateway Area includes most of the York Tavern parcel and extends south to Glendale Avenue, encompassing 34.5 acres of which roughly eight (8) acres, including nearly an acre of wetland and wetland buffer, are zoned and currently used for residential purposes. The Property is one of ten residential lots in the Gateway Area. Nearly 21 acres within the Gateway Area host institutional or governmental use, much of it open space. Commercial use occupies just over four (4) acres east and west of York Road. The remainder is right of way area. This Property is the only known residential lot to become the subject of completed Certificate of Appropriateness proceedings.

Homes in the Graue Mill Gateway Area primarily front the east line of Washington Street. All residential properties in the Gateway Area are designed to allow an alternative to backing from garages into the right of way. Once the home is constructed, all but two homes in the Gateway Area (3719 Spring (detached rear garage) and 3801 Washington Street (front loading)) will have side-loaded garages. There are currently four exterior side-loading garages in the Gateway Area, and two interior side-loading garages. The latter two homes have additional mass in front of the primary residential area. Homes in the block south of Spring Road (other than the home planned for the southeast corner of Spring Roat and Washington Street) face west to Washington Street, but the home south of the Property has an angled wall facing southwest (its garage faces west).

Although Fullersburg Woods and York Road are walkable, there are no sidewalks along the residential lots south of Oak Brook Road and east of Illinois Route 83. Sidewalks in near the residential part of the neighborhood serve the immediate uses (St. John's, Graue Mill and Fullersburg Woods).

Homeownership in the area remains steady. Over the last fifteen years, the only transfers of title have been among related family or to family members who may have grown up nearby who bought in the area. The Gateway Area arose after development in the area, so none of the homes in the area have redeveloped under these standards. One of the six Washington Street homes might qualify for a Certificate of Appropriateness under today's standards due to its first-level stone and window design (3811 Washington Street). Due to a lack of like properties, or comparables, it is not possible to evaluate benefits to nearby homes from residential improvements under Gateway Area standards. Among the eight residential lots, none have substantial front yard landscaping while the most screening and planting occurs in the rear yards. This last circumstance is also the result of topography and soil type south and southeast of the Property.

With the development of the Property, the only structures in the Gateway Area existing in their 1987 form will be Graue Mill, 3801 Washington Street, 3807 Washington Street, and 3821 York Road. Acquisitions on the east side of the block at issue led to demolition of six principal residential structures that existed in 1956, leaving only the home on the Property and 3719 Spring Road—both of which saw additions between the 1970's and today. (The Graue House is no longer residential and changed with the York/Spring realignment.)

3719 Spring Road underwent significant improvements in the 1980's and in 2006, and it has been appropriately maintained in its current structural form for parts of three decades. The owner of 3801 Washington repainted the home and seems to be in the process of replacing a rear deck. 3807 Washington Street continues to be well maintained, with rotations and replacement of landscaping over the years. The last addition to 3811 Washington Street occurred between 1998 and 2006, but maintenance over the more recent years has included landscape maintenance and repair that is more than appropriate for the lot. Following 1987 construction, 3815 Washington Street appears to have added attractive landscaping. 3819 Washington Street was also constructed in 1987 and 1988. Constructed soon after its neighboring homes to the north, the residence at 3823 Washington Street has seen landscaping and patio or deck improvements and the removal or addition of certain services for the home over the past 40 years. The home at 3900 York Road added a westerly patio extension around 2018, but it has not had any material exterior changes other than landscaping improvements since 1998. The Forest Preserve demolished the home at 3721 Spring Road in 2022 or 2023.

3824 York Road (Alan Rocca Fine Jewelry) received a Certificate of Appropriateness. The mixed-use building at the southerly end of the Graue Mill Gateway Area features a stone façade, varied windows that include tall, narrow windows similar to Graue Mill, and varied rooflines and features, including a chimney that rises above and is visible from the street. Commercial lighting has a more historic appearance even though it cannot match lighting from the Graue Mill era. Landscaping essentially wraps the parking lot and freestanding sign and transitions the site at the north end of the commercial property. The home at 3900 York Road was constructed in the 1990's at a time when remnants of the former automotive use facilities remained at 3824 York Road.

The Property abuts the north portion of 3715 Spring Road (PIN 06-36-308-032) (also under review for a Certificate of Appropriateness) and 3719 Spring Road. The neighboring parcel to the north will host a single-family residence with an attached easterly side-loading garage. 3719 Spring Road hosts a principal structure (single family residence that reached today's condition through periodic improvements and additions), two detached accessory structures, and two driveways from Spring Road (situated at the northern corners of the lot). West of the Property, 3710 Spring Road hosts a single-family two-story (above the driveway) residence. Further north of the intersection of Spring Road and Washington Street is land owned by Forest Preserve District of DuPage County which is situated in the CR district and hosts a walking and exercise path connecting Graue Mill (east) and the Fullersburg Woods Environmental Education Center. This path is known as the Night Heron Trail, which extends

along the southerly line of Wennes Subdivision, including south of York Tavern, before turning north and deeper into Fullersburg Woods Forest Preserve.

The Property is near the northwest corner of an R-3 district extending between Washington Street and York Road and south from Spring Road to Glendale Avenue. The southeast corner of this area is zoned B-3 for a mixed commercial and office use with a bank drive through. Except for some land owned by the Forest Preserve and the Oak Brook Park District and the aforementioned B-3 sector, the properties in the Gateway Area are all developed and occupied for single-family detached residential use. Ground elevations in the R-3 portion of the Gateway Area are relatively consistent until reaching the rear lots at the southerly end of the R-3 district. Elevations of 649-650 prevail along the rights of way, with ground elevations dropping as one moves south and east from the rear of residences. Standard site design calls for the use of swales and other storm water planning in the rear and side yards.

West of Washington Street, there is a large R-2 single family district dominated by single-family use. Opposite the Property is a five-acre tract that hosts a religious institutional use and cemetery. This use offers 14-15 90-degree street parking spaces, 29 off-street angled parking spaces and three additional driveway spaces. The cemetery lies west of the improved area along Spring Road. St. John's is addressed below.

Proposed Construction

Applicant proposes an attractive single-family residence that meets all setbacks: 40 feet (east and west), 12 feet (north), and 23 feet (south, where a side-loaded garage will have a 26.3-foot setback). Corner home elevations will be 651. Swales and site grading (in addition to existing grades and culverts) will convey stormwater as required under DuPage County and local regulations. The west wall of the attached garage is generally in line with the westernmost wall of the home. Ample room exists for the south side-loaded garage planned with spacing that exceeds required setbacks. The air conditioning and a generator will be on the north face of the home. Exterior service connections are screened even though this is not required at the location. The rear yard (east) features an area where the owner may wish to install a patio or deck.

The site development plan and the landscape plan depict a possible future road dedication area (west). The location of the proposed dedication area follows research into the history of Spring Road and Washington Street and discussion among counsel for the Village and Applicant to plan for development that fits the various needs of the Village even though no dedication or easements are required in the process. The dedication should not be taken as bargaining for zoning inasmuch as there is already roadway area on the Property and the adjustment follows planning for the residence. The home is oriented with windows facing west and northwest in an attractive non-linear orientation.

The home will be parallel to Washington Street and the east property line. The primary driveway access will be at the southwest corner of the Property. The positioning of the home allows for a larger front setback adjacent to Washington Street (61 feet). The side-loaded garage and setback to the driveway allow for more spacing between the proposed home and the home at 3801 Washington Street (south side yard of 26.3 feet). There will be at least 52 feet between the proposed home on the Property and the proposed home to the north.

The home falls below the maximum floor area ratio and the maximum lot coverage. The home will have a maximum height of forty (40) feet and no authorized element will extend more than 30 inches beyond that.

The landscape plan depicts a full screen (summer wine ninebark and wintergreen arborvitae) along the south side-loaded garage driveway. Plantings will directly screen the north mechanical installations (boxwoods) (a request made during prior review). Additionally, the north lot line landscaping (wintergreen arborvitae and blue kazoo double play spirea) is planned to provide a screen between the Property and the corner lot to the north. The street side is reasonably landscaped with three (3) amur maple trees extending along the right-of-way. A Norway maple will be planted in the northeast corner to allow a screen between 3719 Spring Road and Property as well as its north neighbor. Another Norway maple will be planted near the south lot line to allow a screen with the southerly neieghbor.

Graue Mill Gateway Area Standards (13-8-7, 13-8-8)

"In May 1975 Graue Mill joined the National Register of Historic Places, and in 1981 the American Society of Mechanical Engineers recognized it as an Illinois Historic Mechanical Engineering Landmark." https://www.dupageforest.org/places-to-go/centers/graue-mill-and-museum. Information provided below has been sourced from the Forest Preserve District of DuPage County, Graue Mill & Museum, DuPage County Historical Museum, the National Register of Historic Places (including the nomination form for Graue Mill), and the Fullersburg Historic Foundation. Personal review of records available at York Township, including meetings with record keepers, also contributed. Some of the information has been culled from reported judicial opinions and other resources available on the internet such as historic preservation websites like https://www.illinoiswindmills.org/graue-mill.

The gateway development plan is appropriate to the development of the area. Occasional conflicts arise when trying to regulate according to the times of Graue Mill (then a manufacturing facility on the perimeter of Hinsdale) while imposing expectations for larger yards than required (in an affluent residential area). The undersigned has previously noted the irony of demanding greater setbacks when the setbacks proposed were larger than average to begin with and the people building and living in the area during the mid-nineteenth century certainly did not pursue expansive setbacks due to the nature of the area and the need to have employees near work. The homes on Spring Road between York Road and Washington Street, most demolished by the Forest Preserve, reflected this. Homes along Washington Street

contain ordinary interior side yard setbacks. This was also true for York Road homes north of the Gateway Area in Wennes Estates and north thereof.

The three historic structures in the area are all non-residential: Graue Mill (1852); St. John's Community Church (1881); and The Farmers Home (1843, now York Tavern continuing bar service that started 180 years ago). None of the residential structures other than, possibly, the west portion of 3719 Spring Road (visual similarities to a former portion of York Tavern), resemble the non-residential features of the former building now occupied by York Tavern. Homes generally did not exist in the area due to its commercial and manufacturing character, flooding, and soil conditions. To blend history and current demand, the Graue Mill Gateway Area regulations should be applied in a fashion that relies on structural elements and building design while avoiding either (a) conversion of an R-3 zoning district to one more like the R-2 district or (b) alteration of zoning regulations. Otherwise, owners will not be motivated to meet objectives in Title 13, Chapter 8.

The standards in Chapter 8 of the Zoning Ordinance are quoted below as they appear in Sections 13-8-7 and 13-8-8. Following each standard, Applicant provides additional support for the conclusion that the gateway development plan should be approved. These should be taken with statements made in support on prior hearing dates and in previous submittals. Applicant notes that much discussion of architecture from the second half of the 19th century occurred previously. This remains in the record, but this supplement is limited to a shallower discussion of existing, older uses because the Village Board was uninterested in the nature of residential architecture that could have been considered in the era of Graue Mill construction.

> ***A. Relationship Of Proposed Buildings Or Structures To Site And Adjoining Area: The site shall be planned to accomplish a desirable transition with the streetscape, and to provide for adequate planting, pedestrian movement, and parking areas, and shall be evaluated pursuant to the following criteria:***
>
> > ***1. The provision, where practical, of setbacks in excess of zoning restrictions to provide an interesting relationship between buildings;***

Replicating the yard planning and design features of Graue Mill has ironically proven impossible in the Graue Mill Gateway Area, with the only property owners known to have been the subject of Chapter 8's regulations having faced constant, and unnecessary demands to increase setbacks when Frederick Graue did exactly the opposite with respect to the mill that is much closer to York Road (42-43 feet) than portions of the home proposed for the Property will be to Washington Street (over 61 feet). The Graue House was also only ten (10) feet from the paved portion of York Road. St. John's Community Church has stairs extending to the apparent lot line and a building 11-12 feet from the Washington Street lot line. If the Village were to pursue planning for yards and setbacks in the tradition of Frederick Graue and his

peers who constructed St. John's Community Church, the Village would allow relief from setbacks to allow shorter setbacks while avoiding pressure to open spaces, grade transitions, and natural areas in the instant block near Glendale Avenue. It is not constructive to debate street setbacks. Placement of buildings around a marshy area in the early 1900s and population density since the 1970s (not the 1850s) led to the demand for "interesting building relationships." As has been noted previously before the Plan Commission, there are no "interesting relationships" between any of the residential buildings in the Graue Mill Gateway Area. The Graue House, situated south of the mill, is barely 11 feet off York Road because of Village planning with the County Division of Transportation in the 1990's, when they provided for a rather interesting setback 29 feet less than the R-3 requirement. Prior to the redesign of the intersection of Spring Road with York Road, portions of the Graue House (now removed) were 10 feet from the former York Road pavement.

Still, Applicant provides excess yard area on the west (61-foot front yard), north (12.5-foot side yard), east (41-foot rear yard) and south (26-foot yard). The yard area west of the front steps far exceeds the required 40-foot west yard line.

2. The treatment of parking areas with decorative elements, building wall extensions, plantings, berms or other innovative means so as to screen parking from view;

Applicant provides continuous plantings (summer wine ninebark and wintergreen arborvitae) adjacent to the driveway on the south side of the Property. Amur maple trees offer visual relief in the front and rear yards. Two Norway maples will be visible from neighboring lots to the south and east. The landscape plan provided is intended to specify baseline requirements.

3. The underground installation of newly installed utility services, and service revisions necessitated by exterior alterations.

Utility services will be installed underground.

B. Building Design: Evaluation of the appearance of a project shall be based on the following criteria:

1. The quality of the design and its relationship to the Graue Mill, its site, and the historic period it represents;

Frederick Graue, a German immigrant who settled nearby in the 1840s, built the Graue Mill between 1850 and 1852. The mill was a water-powered gristmill situated along Salt Creek, to provide hydraulic power to grind grain (primarily corn and wheat) for local farmers. It is also an authenticated stop on the Underground Railroad. The mill operated from 1852 until 1929 before being converted to use related to paper manufacturing. In what was then known as

Hinsdale's planning area, the Forest Preserve acquired the mill and it became one of the earliest examples of historic preservation in DuPage County. when it was partially restored in the 1930's and restored fully in 1951 before opening as a museum in 1952.

Graue Mill's construction is bold and projects a sense of strength. This locally quarried Niagaran dolomite limestone is a significant feature of Graue Mill. The limestone is present on all four levels of the mill—a characteristic in the design of the mixed-use building at 3824 York Road which is a two-story building with limestone exterior on the entirety of the structure. Original mortar was a lime-based combination of burned limestone and sand, but there is no certainty that the same mortar was used in initial 1934 restoration efforts or in 1951 prior to the museum opening.

The base floor level of the mill offers visible structural mass (the walls are roughly 18–24 inches thick. The foundation is pronounced and the building features heavily in views from York Road and Spring Road as well as from Salt Creek where the heavy stone foundation is set into the bank of Salt Creek where it remains engineered to anchor the structure against the hydraulic forces of the millrace and seasonal flooding.

American vernacular architecture in the 1850s commonly planned for functional, rather than decorative buildings. For example, while some can recount tours of the mill where the roof was described as steep and decorative, the gable roof's pitch was designed simply to shed snow and rain. Window elements are decorative, the chimney is decorative, elements above doors and the relationship of the roofs and eaves may be decorative.

St. John's Community Church (directly west of the Property) was constructed with wood and timber materials in 1881, with the tower reportedly added a few years later. Original construction was simple and functional. The tower separates St. John's from other historic or respected structures in the Gateway Area inasmuch as it is not functional but rather adds an element that is a common architectural call to worship or prayer in most faiths—the high point rising above the congregation hall (towers, tall parapets), church (towers, religious symbols), mosque (domes, symbols, and, eventually, minarets), synagogue (rising arches, religious symbols), or temple (the Shikhara and pediment) to welcome people to worship or pray, gather, and study. St. Johns was constructed at a very shallow setback from the curbline of Washington Street. Like many lots in the area, St. John's owned the right of way and participated in a common law dedication. The Church on the County Line Resubdivision (R1982-050796) dedicated part of Washington Street and depicts a setback to the main entrance of 16 feet and a setback to the residence of 28 feet, both far shorter than setbacks on a majority of lots in the Gateway Area. The apparent depth to the main entrance is 11-12 feet due to existing pavement.

The wood and beam portions of York Tavern (confirmed) and 3719 Spring Road (reported) have been similar for a century. The Farmers Home (1843, now York Tavern) spent most of its existence only 44-45 feet from the improved portion of York Road. York Tavern

does not have, and never has had, a front yard meeting R-2 district requirements (the current yard from York Road is 20 feet deep). The westerly part of 3719 York Road is a wood frame residence that has long existed 26 feet from the apparent Spring Road right of way before the brick and masonry component was added to the southeast. The older part of the home carries some similarities to wood and beam construction common to the area in the 1800s.

After an extensive effort ending in the early 2000s, 3826 York Road redeveloped with a Certificate of Appropriateness. Its elevations reflect an obvious construction preference for stone compared to wood. The elevations in this case reflect the same consumer preference for stone. Applicant would not construct a wood sided, wood framed house.

2. The compatibility of the design, arrangement, texture, and materials of the proposed buildings or structures with the intent and purpose of the area;

The tower at St. John's was not part of the original construction. Yet, the owners of 3826 York Road and the lot north of the Property have focused substantially on functional, but attractive, steep roofs and multiple varied rooflines. Like 3826 York Road and the lot north of the Property, Applicant proposes an exterior that includes multiple rooflines and a stone appearance on a structure with a strong base floor elevation that is apparent in Graue Mill. The proposed home also features varied types and styles of rooflines.

The chimney is similar to the chimney at the Graue House, Graue Mill, and 3826 York Road, and like the chimney proposed on the lot to the north. Windows on all elevations of the proposed home resemble the tall narrow windows on the Graue Mill windows. Exterior lighting is also similar to the lighting at Graue Mill, including the light centered above the vestibule/main entrance. The garage doors and lighting are consistent with 3719 Spring Road and the improvements proposed on the lot to the north.

The site plan respects the existing right of way. The driveway avoids unnecessary backing onto Washington Street. There are no planned sidewalks which, as noted above, would be incomplete and a first residential sidewalk in the area east of Route 83.

3. The screening and location of mechanical equipment or other utility hardware on roof, ground, or buildings from public view with materials harmonious to the building, so as not to be visible from any public ways;

Applicant screens mechanical equipment with boxwoods even though it would not be visible from any public ways without the plantings. There are no mechanical installations visible from any street.

4. The unobtrusiveness and harmoniousness of exterior lighting and the compatibility of fixtures, standards, and all exposed accessories with the building design.

Exterior building lighting is like other residential lighting in the area. Lights exist to illuminate ingress and egress and use areas. No unnecessary lighting is proposed.

C. Street Hardware And Signs: See chapter 11 of this title.

No signs are proposed. Address signage will comply with ordinance and the Property will comply with ordinances governing signs, including nameplate and address signs. Applicant seeks no variations and it will comply with Section 13-11-12.

D. Landscaping Design Considerations: Landscape treatment shall be provided to enhance architectural features and provide shade and screening, and shall be evaluated pursuant to the following criteria:

1. The compatibility of the design and size of all landscaping effects with the building or structure and adjacent areas;

2. The preservation, protection and development of existing topographic patterns and plant materials which contribute to the beauty and utility of a development;

3. Where building sites limit plantings, the placement of trees in the parkway or paved areas. Parkway trees shall be of a minimum three inch (3") caliper. Buildings of three (3) stories or more shall have parkway and front and/or side yard trees of a minimum of five inch (5") caliper;

4. The method of screening of service yards, and other places which tend to be unsightly, by fencing, plantings, or a combination of these. Screening shall be equally effective in all seasons and may be accomplished by use of any combination of walls, fencing or plantings;

5. The enhancement of parking areas and traffic ways with landscaped spaces containing trees and tree groupings and low shrubs or ground cover;

6. The use of unobstrusive exterior lighting to enhance the landscaping;

7. The use of landscaping materials and lighting which have low demand for annual maintenance.

Subsection D is not applicable to single-family development. 13-8-12.

E. Landscape Plan: A detailed landscape plan shall show:

> ***1. Location of existing plant materials to remain and those to be removed;***
> ***2. Designation of parkway "street trees". Existing parkway trees shall be preserved and protected during construction;***
> ***3. Scientific (genus-species) and common names of proposed landscape material and proposed quantities and sizes of same;***
> ***4. Landscape materials other than plant materials shall be designated in detail.***
> ***The landscape plan shall be prepared by a landscape architect or qualified nurseryman in accordance with the criteria set forth in subsection D of this section. The plan shall be signed and dated by the designer.***

Subsection E is not applicable to single-family development. 13-8-12.

> ***F. Site Plan: A detailed site plan shall show:***
> ***1. Exact location of the building(s) or structure(s) on the site;***
> ***2. Exact location of drives, walks, parking areas, parking layout, freestanding or retaining walls, fences, and drainage accommodations;***
> ***3. Elevations showing all sides of the proposed structure. Elevations should indicate the type of materials to be used on the structure as well as their proportions;***
> ***4. Existing grades or topographic details to be retained and proposed grading;***
> ***5. Location of utilities***

The topographic site development plan depicts all required information. Applicant provides a landscape plan even though not required so that the Village understands the planned minimum landscaping. Elevations have been provided. The stone exterior finish comprises a portion of the exterior finish. The division between stone finish and other materials is reflected in the same form as proposed previously (notations remain in the plan sheets submitted with the supplemental application). Existing and planned grades appear in the topographic site development plan. All utilities will be installed underground. The overhead wire locations are faded in order to show existing locations.

> ***In addition to the information required pursuant to subsection 13-8-7F of this chapter, the following requirements must be met prior to the issuance of a certificate of appropriateness:***

A. Visual Environment: In order to ensure an adequate and pleasant natural environment, a sum of money equal to not less than five percent (5%) of the total project construction cost, as set forth on the approved building permits, shall be budgeted and used by the owners and developers to purchase and install mature sized trees, shrubbery, grass and other suitable landscaping upon the grounds, which budgeted amount shall be expended to comply with the provisions of subsections 13-8-7D and E of this chapter. The president and board of trustees may vary from or waive the requirement for such expenditure where such expenditure would cause a hardship on the applicant. Hardship, for purposes of this chapter shall include, but not be limited to, the following situations:

1. Irregular shaped lots where landscaping is not practical;

2. Lots with minimal frontage;

3. Development does not cause any visual impact; e.g., development to the rear of a lot or building; and

4. Those instances where there is an abundance of existing natural vegetation precluding the necessity for further landscaping treatment.

Subsection A is not applicable to single-family development. 13-8-12.

B. Public Utilities: All utility lines, including, but not limited to, telephone and electric, in the right of way adjacent to and in the development property shall be placed underground. Underground utility lines shall be placed within easements or dedicated public ways in a manner which will not conflict with other underground services. All transformer boxes and service posts shall be located so as not to be unsightly or hazardous. (Ord. G-272, 11-11-1980)

Applicant will locate utility services underground. Applicant will locate utility lines underground. Overhead wires shown in the plans indicate current locations along Washington Street and Spring Road. If the Village has a program in place to assist Applicant in this effort, coordination and a contribution of public funds towards this effort could lead owners of 3719 Spring Road, 3710 Spring Road, and St. John's Community Church to place current overhead main and service lines underground. Such an expense would be in the public interest and benefit the Gateway Area. Other than service lines to St. John's and to 371 Spring Road, no overhead lines exist on the west side of Washington Street. The Forest Preserve lots are in some flux, but there is no reason Oak Brook and the Forest Preserve cannot locate lines underground. The effort to place main utility lines underground would end south of the Property.

Thank you for your attention to this matter and the matter of the Certificate of Appropriateness for the corner lot to the north which is tracking with this request for the time being.

Yours very truly,

DANIEL LAW OFFICE, P.C.

[redacted]

Mark W. Daniel

Encls.

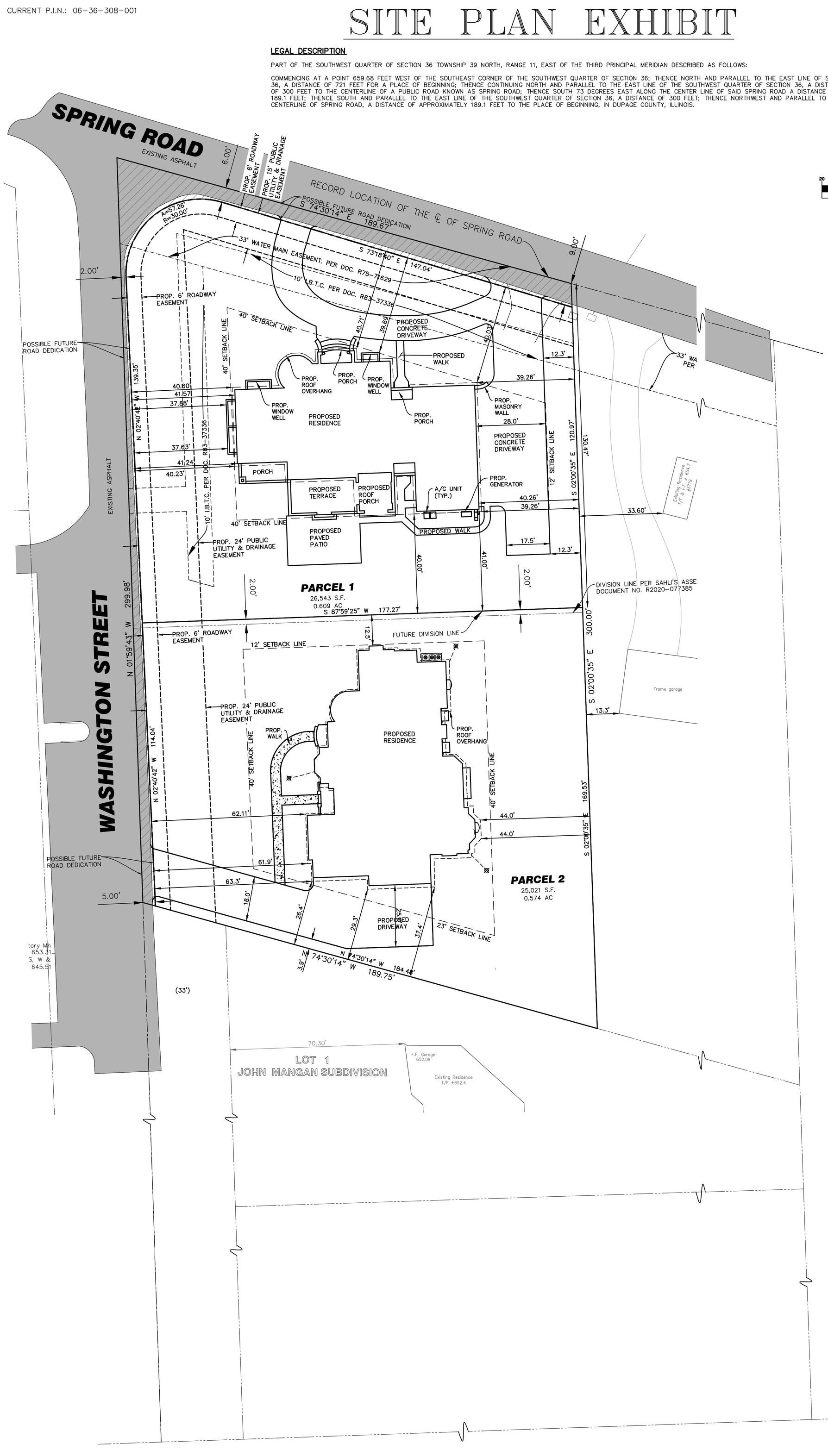
CURRENT P.I.N.: 06-36-308-001

SITE PLAN EXHIBIT

LEGAL DESCRIPTION

PART OF THE SOUTHWEST QUARTER OF SECTION 36 TOWNSHIP 39 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT 659.68 FEET WEST OF THE SOUTHEAST CORNER OF THE SOUTHWEST QUARTER OF SECTION 36; THENCE NORTH AND PARALLEL TO THE EAST LINE OF SECTION 36, A DISTANCE OF 721 FEET FOR A PLACE OF BEGINNING; THENCE CONTINUING NORTH AND PARALLEL TO THE EAST LINE OF THE SOUTHWEST QUARTER OF SECTION 36, A DISTANCE OF 300 FEET TO THE CENTERLINE OF A PUBLIC ROAD KNOWN AS SPRING ROAD; THENCE SOUTH 73 DEGREES EAST ALONG THE CENTER LINE OF SAID SPRING ROAD A DISTANCE OF 189.1 FEET; THENCE SOUTH AND PARALLEL TO THE EAST LINE OF THE SOUTHWEST QUARTER OF SECTION 36, A DISTANCE OF 300 FEET; THENCE NORTHWEST AND PARALLEL TO THE CENTERLINE OF SPRING ROAD, A DISTANCE OF APPROXIMATELY 189.1 FEET TO THE PLACE OF BEGINNING, IN DUPAGE COUNTY, ILLINOIS.



GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

AREA SUMMARY

PARCEL 1:	26,543 SQUARE FEET (0.609 AC±)
PARCEL 2:	25,021 SQUARE FEET (0.574 AC±)
TOTAL:	51,564 SQUARE FEET (1.184 AC±)

LEGEND

PROPERTY LINE	
LOT LINE	
CENTERLINE	
EASEMENT LINE	
SETBACK LINE	
(XXX.XX)	DEED/RECORD INFORMATION
XXX.XX	MEASURED INFORMATION

ABBREVIATIONS

A	ARC DISTANCE
CH	CHORD
CONC.	CONCRETE
E	EAST
FIP	FOUND IRON PIPE
FIR	FOUND IRON ROD
I.B.T.C.	ILLINOIS BELL TELEPHONE COMPANY
N	NORTH
P.O.B.	PLACE OF BEGINNING
P.O.C.	POINT OF COMMENCING
R	RADIUS
R.O.W.	RIGHT OF WAY
S	SOUTH
W	WEST

PARCEL 1 LEGAL DESCRIPTION

PART OF THE SOUTHWEST QUARTER OF SECTION 36 TOWNSHIP 39 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT 659.68 FEET WEST OF THE SOUTHEAST CORNER OF THE SOUTHWEST QUARTER OF SECTION 36; THENCE NORTH AND PARALLEL TO THE EAST LINE OF SECTION 36, A MEASURED DISTANCE OF 721.71 FEET (721 FEET RECORD); THENCE CONTINUING NORTH AND PARALLEL TO THE EAST LINE OF THE SOUTHWEST QUARTER OF SECTION 36, A DISTANCE OF 110.45 FEET FOR A PLACE OF BEGINNING; THENCE CONTINUING NORTH AND PARALLEL TO THE EAST LINE OF THE SOUTHWEST QUARTER OF SECTION 36, A DISTANCE OF 189.53 FEET TO THE CENTERLINE OF A PUBLIC ROAD KNOWN AS SPRING ROAD; THENCE SOUTH 74 DEGREES 30 MINUTES 14 SECONDS EAST ALONG THE CENTER LINE OF SAID SPRING ROAD A DISTANCE OF 189.67 FEET; THENCE SOUTH AND PARALLEL TO THE EAST LINE OF THE SOUTHWEST QUARTER OF SECTION 36, A DISTANCE OF 132.47 FEET; THENCE SOUTH 87 DEGREES 59 MINUTES 25 SECONDS WEST, A DISTANCE OF 180.93 FEET TO THE PLACE OF BEGINNING, IN DUPAGE COUNTY, ILLINOIS.

PARCEL 2 LEGAL DESCRIPTION

PART OF THE SOUTHWEST QUARTER OF SECTION 36 TOWNSHIP 39 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT 659.68 FEET WEST OF THE SOUTHEAST CORNER OF THE SOUTHWEST QUARTER OF SECTION 36; THENCE NORTH AND PARALLEL TO THE EAST LINE OF SECTION 36, A MEASURED DISTANCE OF 721.71 FEET (721 FEET RECORD) FOR A PLACE OF BEGINNING; THENCE CONTINUING NORTH AND PARALLEL TO THE EAST LINE OF THE SOUTHWEST QUARTER OF SECTION 36, A DISTANCE OF 110.45 FEET; THENCE NORTH 87 DEGREES 59 MINUTES 25 SECONDS EAST A DISTANCE OF 180.93 FEET; THENCE SOUTH AND PARALLEL TO THE EAST LINE OF THE SOUTHWEST QUARTER OF SECTION 36, A DISTANCE OF 167.53 FEET; THENCE NORTHWEST AND PARALLEL TO THE CENTERLINE OF SPRING ROAD, A DISTANCE OF 189.75 FEET TO THE PLACE OF BEGINNING, IN DUPAGE COUNTY, ILLINOIS.

G:\PROJECTS\SEIBuilders\161107.00 3715SpringRdOakBrook\CADD\161107 Lot 1 and Lot 2 Exhibit 2026-04-29.dwg Updated by: bleprich 4/29/2026

DRAWN BY:	BL
CHECKED BY:	JG
APPROVED BY:	JG

ENGINEERING RESOURCE ASSOCIATES

3S701 WEST AVENUE, SUITE 150
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FAX (312) 474-6099

2416 GALEN DRIVE
CHAMPAIGN, ILLINOIS 61821
PHONE (217) 351-6268
FAX (217) 355-1902

PREPARED FOR:
SEI BUILDERS, INC.
17W300 22ND STREET, SUITE 200
OAKBROOK TERRACE, IL 60181

TITLE:
SITE PLAN EXHIBIT
PARCEL 1 AND PACEL 2
3715 SPRING ROAD
OAKBROOK, ILLINOIS

SCALE:	1"=20
DATE:	04-29-2026
JOB NO:	161107
SHEET	1 OF 1

CURRENT P.I.N.: 06-36-308-001

EXISTING CONDITIONS AND DEMO PLAN

PARCEL 1 LEGAL DESCRIPTION

PART OF THE SOUTHWEST QUARTER OF SECTION 36 TOWNSHIP 39 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN DESCRIBED AS FOLLOWS:

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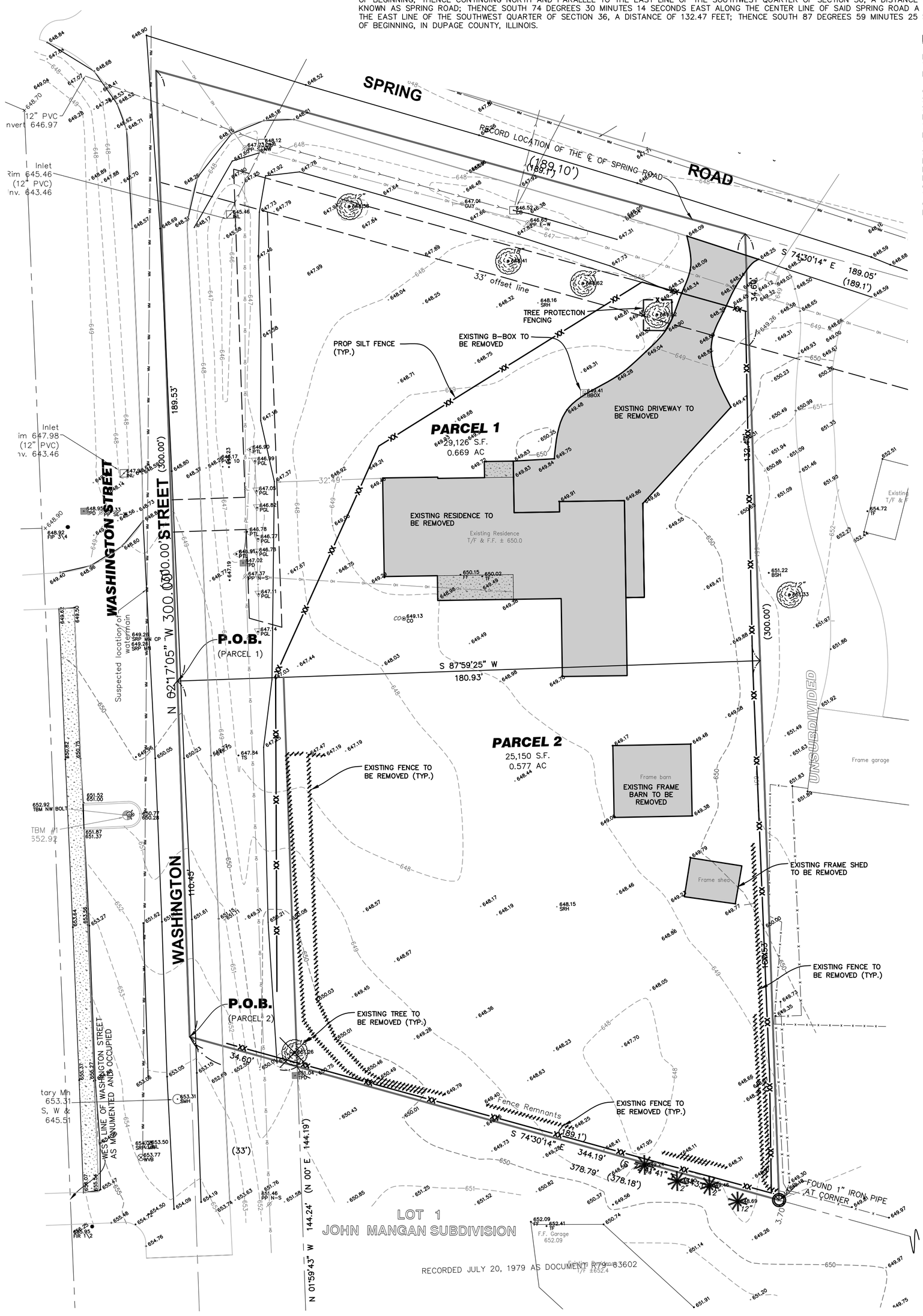
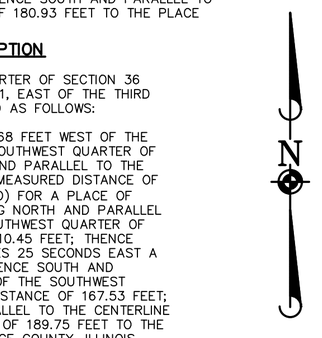
PARCEL 2 LEGAL DESCRIPTION

PART OF THE SOUTHWEST QUARTER OF SECTION 36 TOWNSHIP 39 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT 659.68 FEET WEST OF THE SOUTHEAST CORNER OF THE SOUTHWEST QUARTER OF SECTION 36; THENCE NORTH AND PARALLEL TO THE EAST LINE OF SECTION 36, A MEASURED DISTANCE OF 721.71 FEET (721 FEET RECORD) FOR A PLACE OF BEGINNING; THENCE CONTINUING NORTH AND PARALLEL TO THE EAST LINE OF THE SOUTHWEST QUARTER OF SECTION 36, A DISTANCE OF 110.45 FEET; THENCE NORTH 87 DEGREES 59 MINUTES 25 SECONDS EAST A DISTANCE OF 180.93 FEET; THENCE SOUTH AND PARALLEL TO THE EAST LINE OF THE SOUTHWEST QUARTER OF SECTION 36, A DISTANCE OF 167.53 FEET; THENCE NORTHWEST AND PARALLEL TO THE CENTERLINE OF SPRING ROAD, A DISTANCE OF 189.75 FEET TO THE PLACE OF BEGINNING, IN DUPAGE COUNTY, ILLINOIS.





GRAPHIC SCALE

20 0 10 20 40 60

(IN FEET)
1 inch = 20 ft.

DEMOLITION LEGEND:

- REMOVAL BUILDINGS & DRIVEWAY
- REMOVAL FENCE
- REMOVAL TREE

NOTES:

1. DEMOLITION AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE VILLAGE CODE OF OAK BROOK RELATED TO STANDARDS FOR DEMOLITION WORK IN THE VILLAGE.
2. THE REMAINING HOLE CAUSED BY THE EXISTING FOUNDATION DEMOLITION AND REMOVAL MUST BE BACKFILLED TO MEET EXISTING ADJOINING GRADES.
3. THE SITE MUST BE KEPT SAFE AND CLEAN. ALL CONSTRUCTION DEBRIS AND DEMOLITION MATERIAL MUST BE REMOVED AND/OR PLACED IN THE APPROPRIATE CONTAINERS.
4. DUST AND AIRBORNE PARTICLES SHALL BE CONTROLLED DURING DEMOLITION BY SPRAYING WATER ON STRUCTURES TO BE RAZED BY MEANS OF A WATER TRUCK AND SPRAYING EQUIPMENT.
5. GRAVEL MAT CONSTRUCTION ENTRANCE SHALL EXTEND INTO LOT TO PROVIDE SUFFICIENT AREA TO WASH DOWN VEHICLES. GRAVEL MAT SHALL BE 3 INCH AGGREGATE WITH MINIMUM DEPTH OF 6 INCHES.
6. CONTRACTOR SHALL KEEP STREETS CLEAN
7. ALL DISTURBED ARES SHALL BE RESTORED WITH HYDROSEED, EXCEPT THE PARKWAY WHICH SHALL BE RESTORED WITH TOPSOIL AND SOD.
8. NO MATERIAL SHALL BE STORED WITHIN 10 FEET OF ANY LOT LINE.
9. AT THE TIME OF BACKFILL, SWALES SHALL BE CONSTRUCTED TO PROTECT NEIGHBORING PROPERTY OWNERS.
10. THE PROPOSED PORTABLE TOILET SHALL NOT BE PLACED WITHIN 10 FEET OF ANY LOT LINE.
11. PROPOSED WATER SERVICE SHALL BE 1.0" TYPE K COPPER SIZE ACCORDING TO VILLAGE REQUIREMENTS
12. SANITARY SERVICE SHALL BE 6" PVC (SDR26) @ 1.00% MIN.
13. MINIMUM HORIZONTAL SEPARATION OF 10.0 FEET SHALL BE MAINTAINED BETWEEN WATER AND SEWER SERVICES.
14. EXISTENCE OF UTILITY STUBS SHALL BE FILED VERIFIED PRIOR TO CONSTRUCTION OF PROPOSED SERVICES.
15. WHEN PREPARING FOR CONSTRUCTION OF FOUNDATION PUMPING OF STORMWATER OUT OF EXCAVATED AREAS MAY BE REQUIRED. DEWATERING DISCHARGE SHALL BE PUMPED TO THE FRONT TO EXISTING
16. CONSTRUCTION SCHEDULE:
    - 16.1. SEDIMENT AND EROSION CONTROL AND TREE PROTECTION FACILITIES SHALL BE INSTALLED. – SUMMER 2018
    - 16.2. RESTORE DISTURBED AREAS, BACKFILL FOUNDATION & EXISTING SWALES. – FALL 2018
    - 16.3. LANDSCAPING AND PLANT LAWN AND REMOVE TEMPORARY FENCING – SPRING 2019
17. CONTACT PERSON FOR SITE: MIKE SAHLI 630.310.8668
18. T/F OF EXISTING RESIDENCE AT 3715 SPRING RD, OAK BROOK = 651.66
19. PARKING DATE: MAXIMUM CONTRACTOR VEHICLES: 6. PARKING SHALL BE ON THE EAST SIDE OF WASHINGTON STREET.
20. WASH DOWN AREA FOR CONSTRUCTION VEHICLES SHALL BE LOCATED ON SITE WEST OF CONSTRUCTION ENTRANCE (WITH SILT FENCE PROTECTION FOR RUN OFF.)
21. CONTRACTOR SHALL COORDINATE RELOCATION OF UTILITY LINES WITH INDIVIDUAL UTILITY COMPANIES.
22. PUMPING SEDIMENT–LADEN WATER INTO ANY STORM SEWER FACILITY NOT DESIGNED TO BE A SEDIMENT TRAP, DRAINAGEWAY, OR OFFSITE AREA EITHER DIRECTLY OR INDIRECTLY WITHOUT FILTRATION IS PROHIBITED.
23. IF THE SOIL STOCKPILE IS TO REMAIN IN PLACE FOR GREATER THAN THREE DAYS, THEN SOIL & SEDIMENT CONTROL MEASURES WILL BE PROVIDED.
24. SOIL STOCKPILES SHALL NOT BE LEFT OVERNIGHT IN DITCHES OR WITHIN FLOODPLAINS.
25. LAND DISTURBANCE ACTIVITIES IN STREAMS AND DITCHES SHALL BE AVOIDED WHERE POSSIBLE.
26. ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL STABILIZATION IS ACHIEVED. TEMPORARY MEASURES SHALL BE PROPERLY DISPOSED OF PRIOR TO PERMANENT STABILIZATION.
27. ANY DEVIATION FROM THIS APPROVED PLAN SHALL REQUIRE PRIOR WRITTEN APPROVAL FROM THE VILLAGE OF OAK BROOK.

EXISTING GRADE	+ XXX.XX
EXISTING CONTOUR	XXX
PROPOSED GRADE	+ XXX.XX
PROPOSED CONTOUR	XXX
PROPOSED FLOW	
TREE PRESERVATION FENCE	——x——
SILT FENCE & CONSTRUCTION SAFETY FENCE	—xx——xx—

KEY:

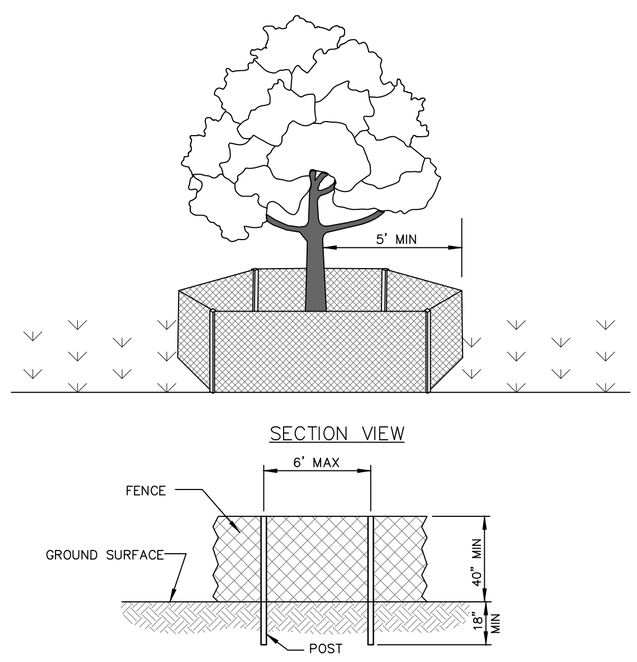
T/F = TOP OF FOUNDATION

P.T.F. = PROPOSED TOP OF FOUNDATION

IMPERVIOUS DATA TABLE

EXISTING IMPERVIOUS (TO BE REMOVED)

RESIDENCE & PATIO:	2,937 S.F.
FRAME BARN:	540 S.F.
FRAME SHED:	194 S.F.
DRIVEWAY:	2,680 S.F.
TOTAL:	6,351 S.F.



SECTION VIEW

POST AND FENCE DETAIL

NOTES:

1. THE FENCE SHALL BE LOCATED A MINIMUM OF 1 FOOT OUTSIDE THE DRIP LINE OF THE TREE TO BE SAVED AND IN NO CASE CLOSER THAN 5 FEET TO THE TRUNK OF ANY TREE.
2. FENCE POSTS SHALL BE EITHER STANDARD STEEL POSTS OR WOOD POSTS WITH A MINUMUM CROSS SECTIONAL AREA OF 3.0 SQ. IN.
3. THE FENCE MAY BE EITHER 40" HIGH SNOW FENCE, 40" PLASTIC WEB FENCING OR ANY OTHER MATERIAL AS APPROVED BY THE PROJECT MANAGER.

NOT TO SCALE

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NICHOLAS A. VARCHETTO, P.E.
IL. P.E. NO. 062–068622
Expires November 30, 2019

PREPARED FOR: SEIBUILDERS

PROFESSIONAL DESIGN FIRM NUMBER: 184.001186

DRAWN BY: B.L/T.F.
CHECKED BY: N.V.
APPROVED BY: N.V.

ENGINEERING RESOURCE ASSOCIATES
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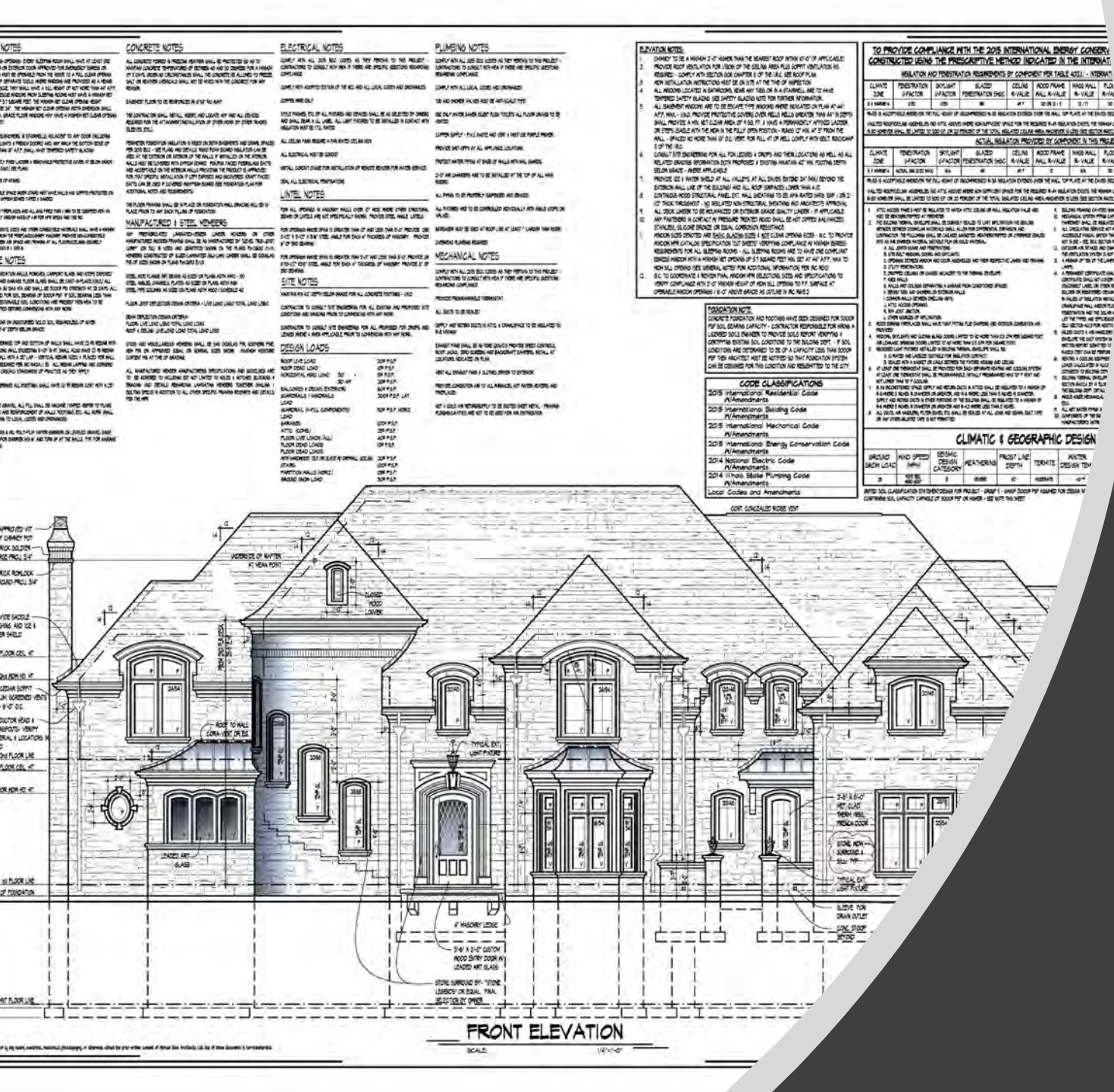
PREPARED FOR:
SEI BUILDERS, INC.
17W300 22ND STREET, SUITE 200
OAKBROOK TERRACE, IL 60181

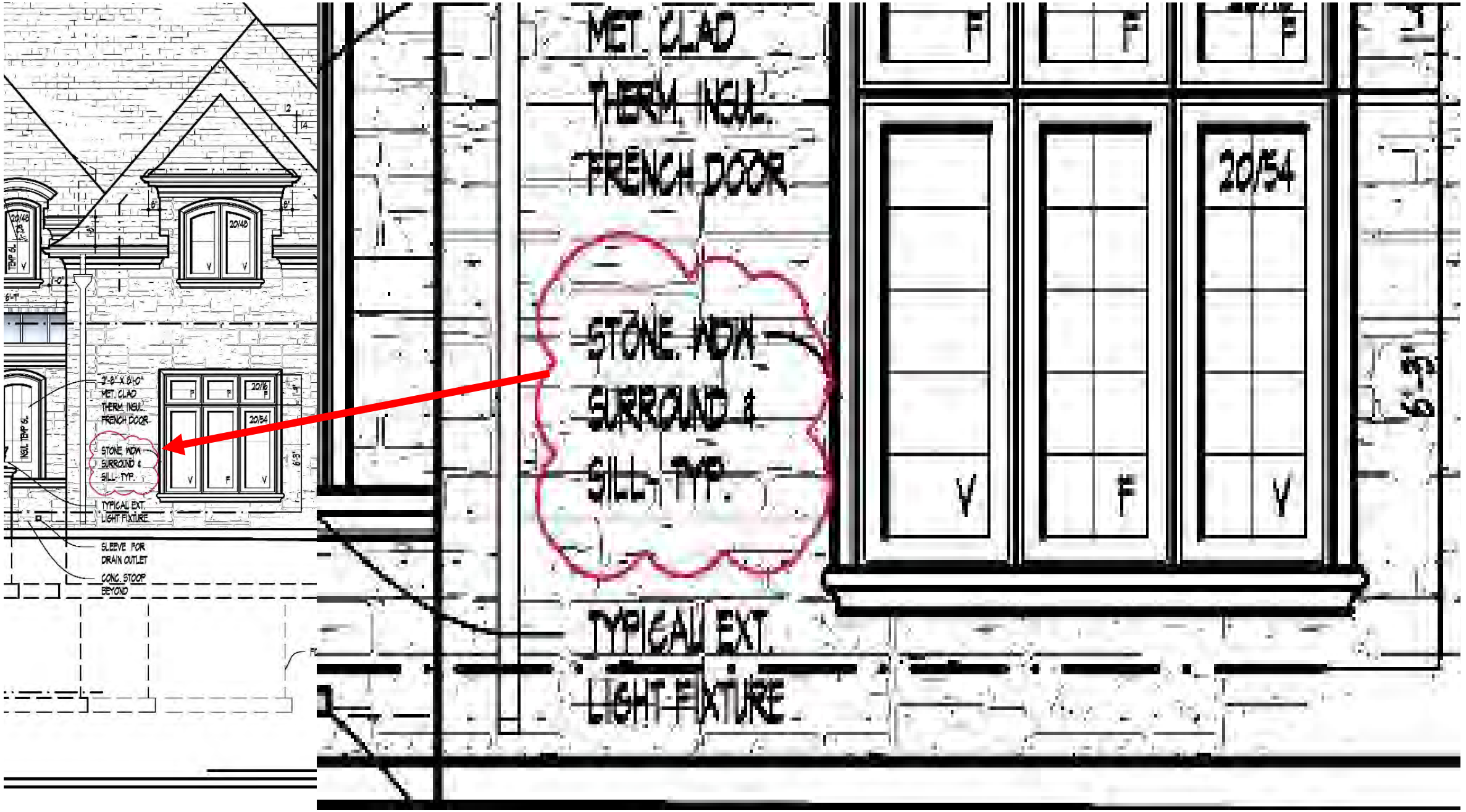
TITLE:
EXISTING CONDITIONS & DEMO
3715 SPRING ROAD
OAKBROOK, ILLINOIS

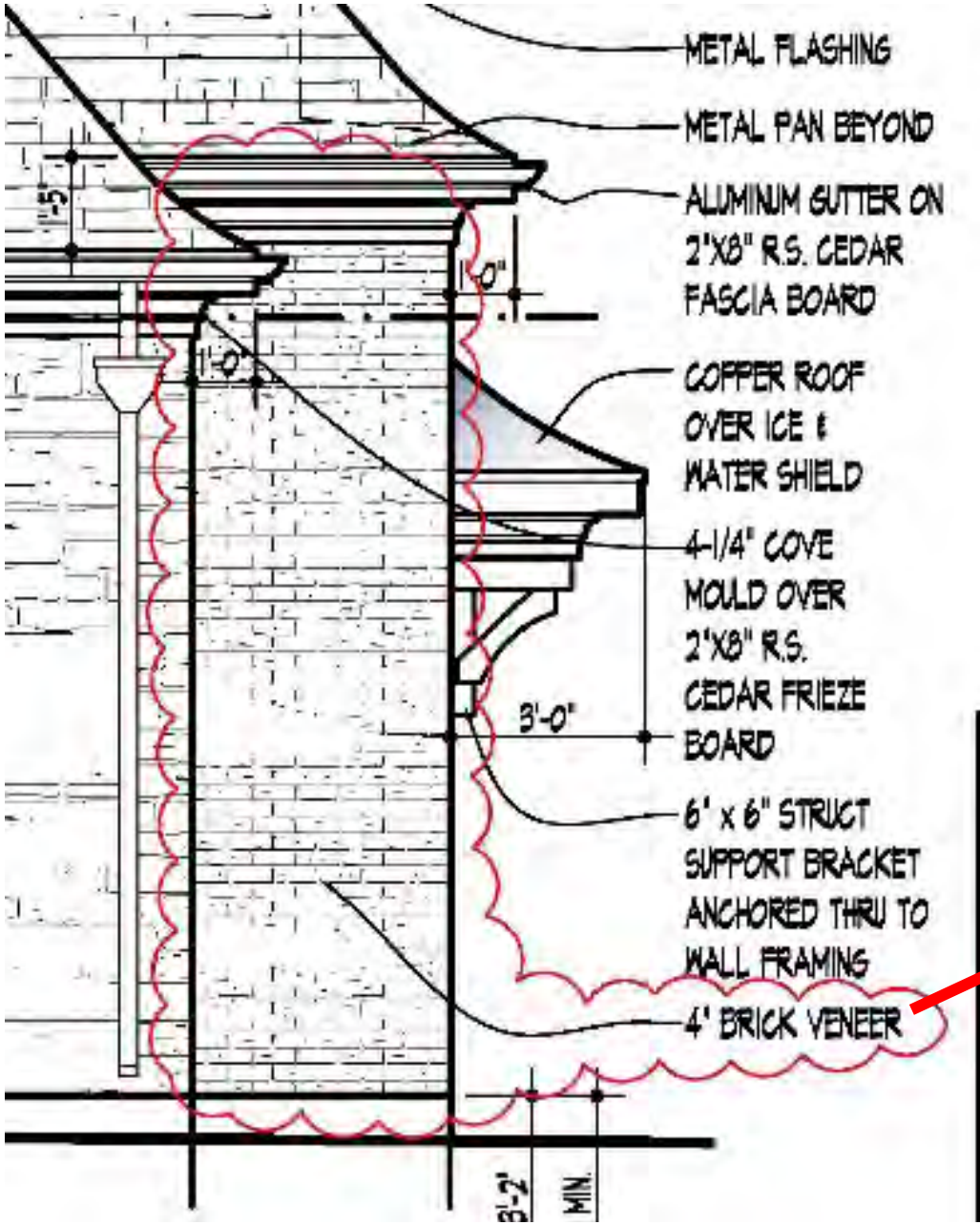
SCALE: 1"=20
DATE: 06–21–18
JOB NO: 161107
SHEET 1 OF 2

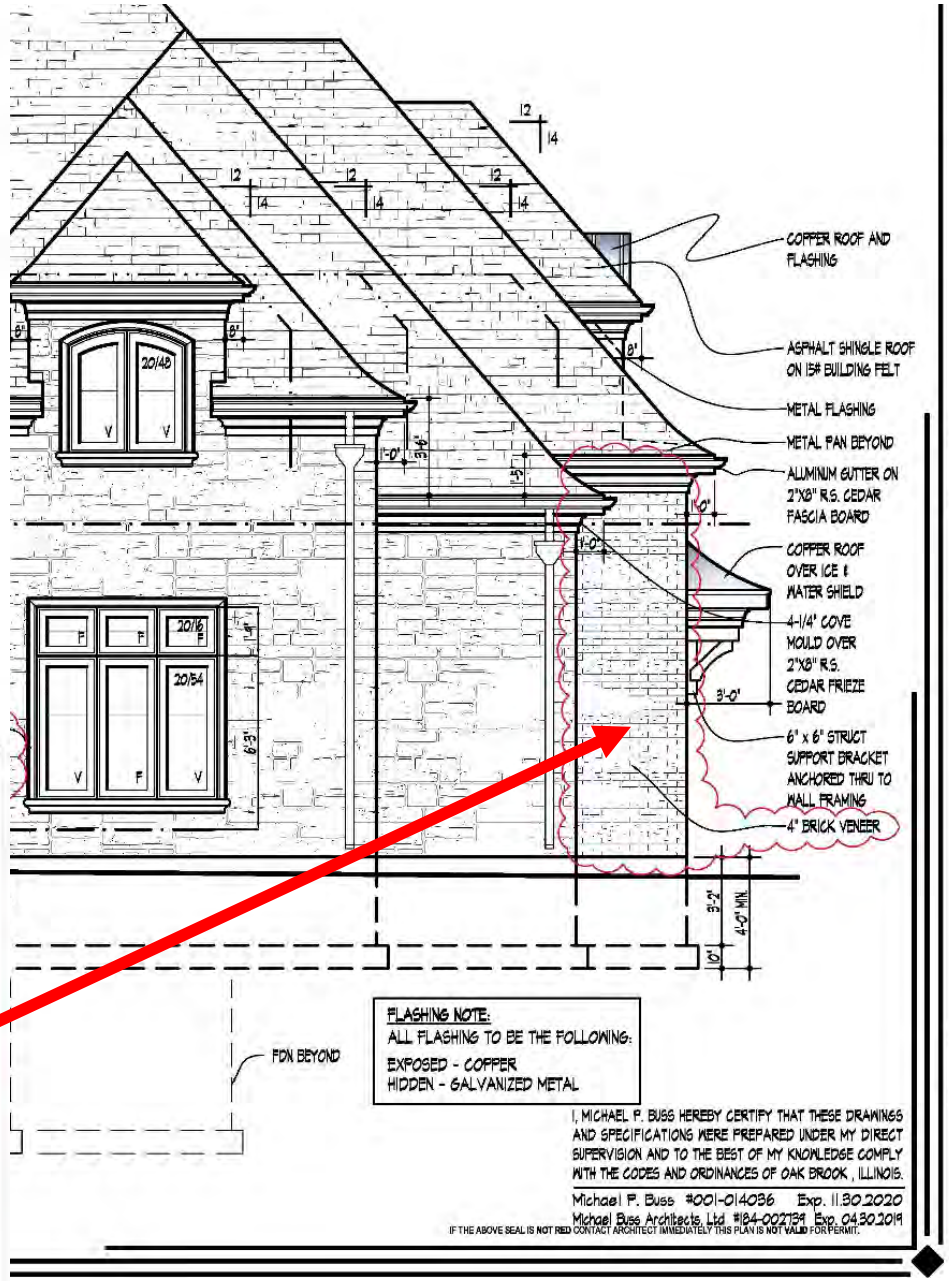
G:\PROJECTS\SEIBuilders\161107.00 3715SpringRdOakBrook\CADD\161107 Lot 2 Site Plan.dwg Updated by: tfrisbie 6/21/2018



WEST/FRONT BUILDING ELEVATION


MET. CLAD
THERM. INSUL.
FRENCH DOOR
STONE, NOM.
SURROUND &
SILL, TYP.
TYPICAL EXT.
LIGHT FIXTURE
20/154
2'-8" X 6'-10"
MET. CLAD
THERM. INSUL.
FRENCH DOOR
STONE, NOM.
SURROUND &
SILL, TYP.
TYPICAL EXT.
LIGHT FIXTURE
SLEEVE FOR
DRAIN OUTLET
CONC. STOOP
BEYOND





I, MICHAEL P. BUSS HEREBY CERTIFY THAT THESE DRAWINGS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE COMPLY WITH THE CODES AND ORDINANCES OF OAK BROOK, ILLINOIS.

Michael P. Buss #001-014036 Exp. 11.30.2020
Michael Buss Architects, Ltd #184-002734 Exp. 04.30.2019

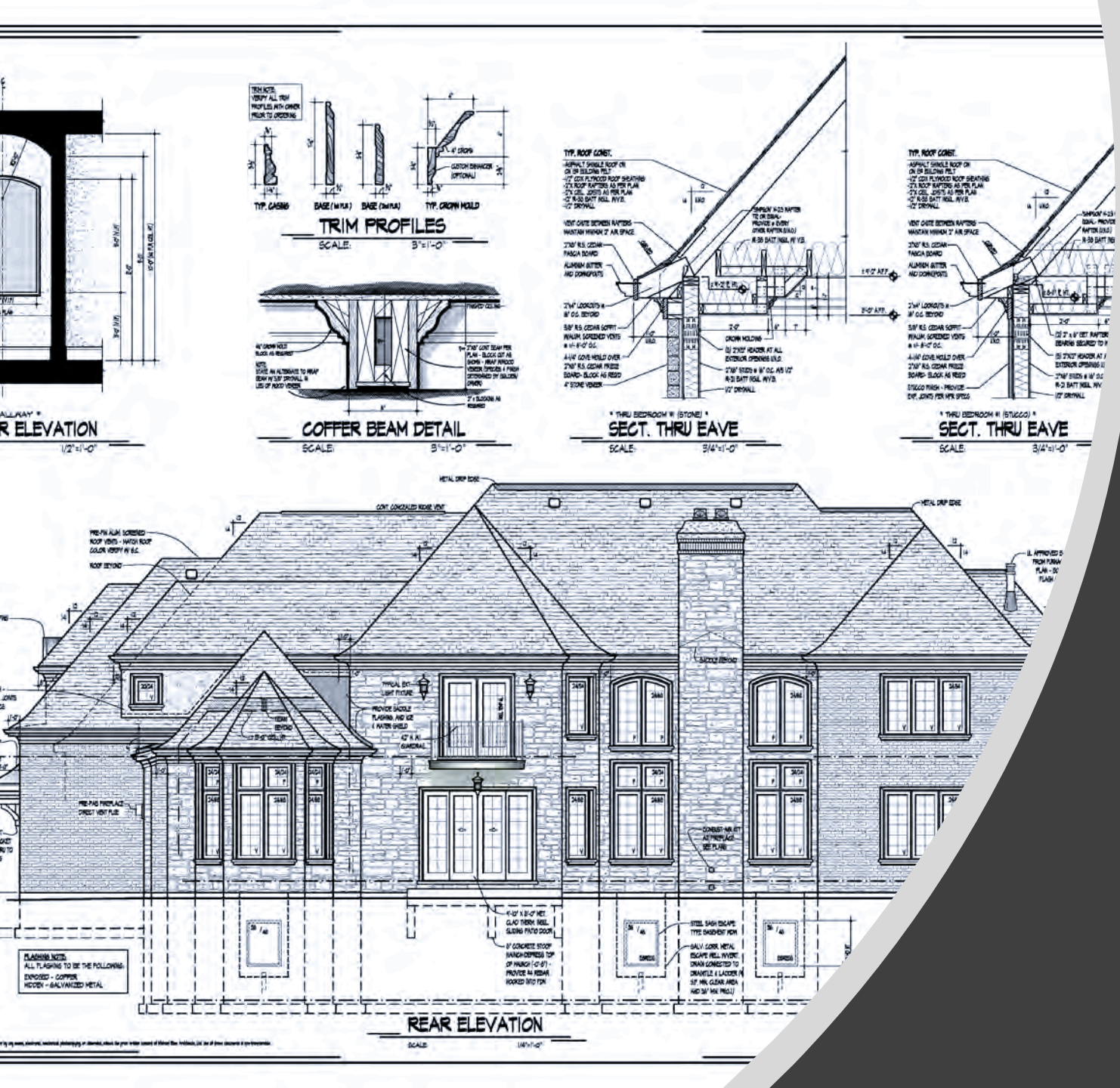
IF THE ABOVE SEAL IS NOT RED CONTACT ARCHITECT IMMEDIATELY THIS PLAN IS NOT VALID FOR PERMIT.

No.	Date
01	6.26.18
02	6.29.18

Project Number: 18024
Designed by: MPB
Drawn by: MBJE
Checked by: MPB
Scale: AS NOTED

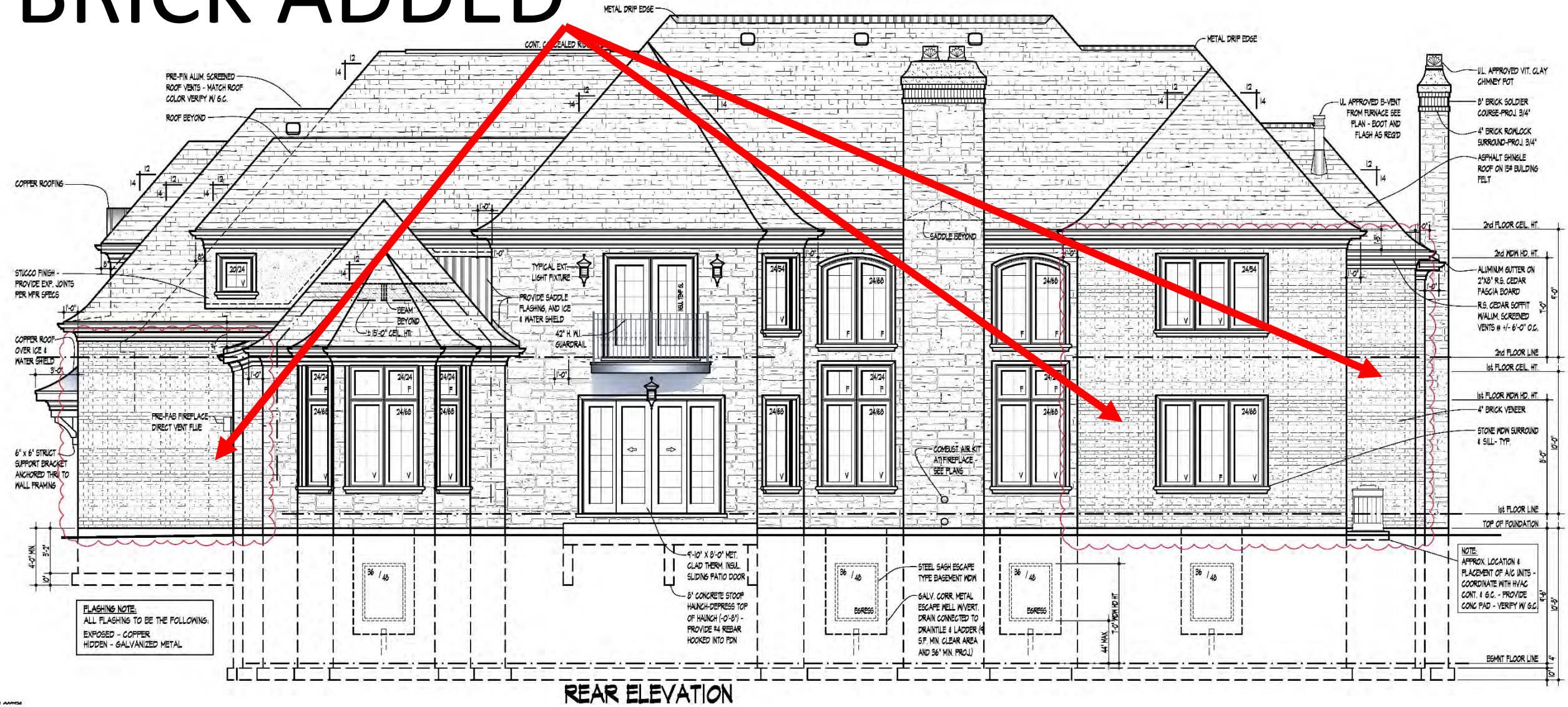
MICHAEL BUSS ARCHITECTS, LTD.
9324 South Roberts Road, Suite 1S
Hickory Hills, Illinois 60457
Office 708.598.0400 Fax 708.598.0433
www.mbussarchitects.com

A-1

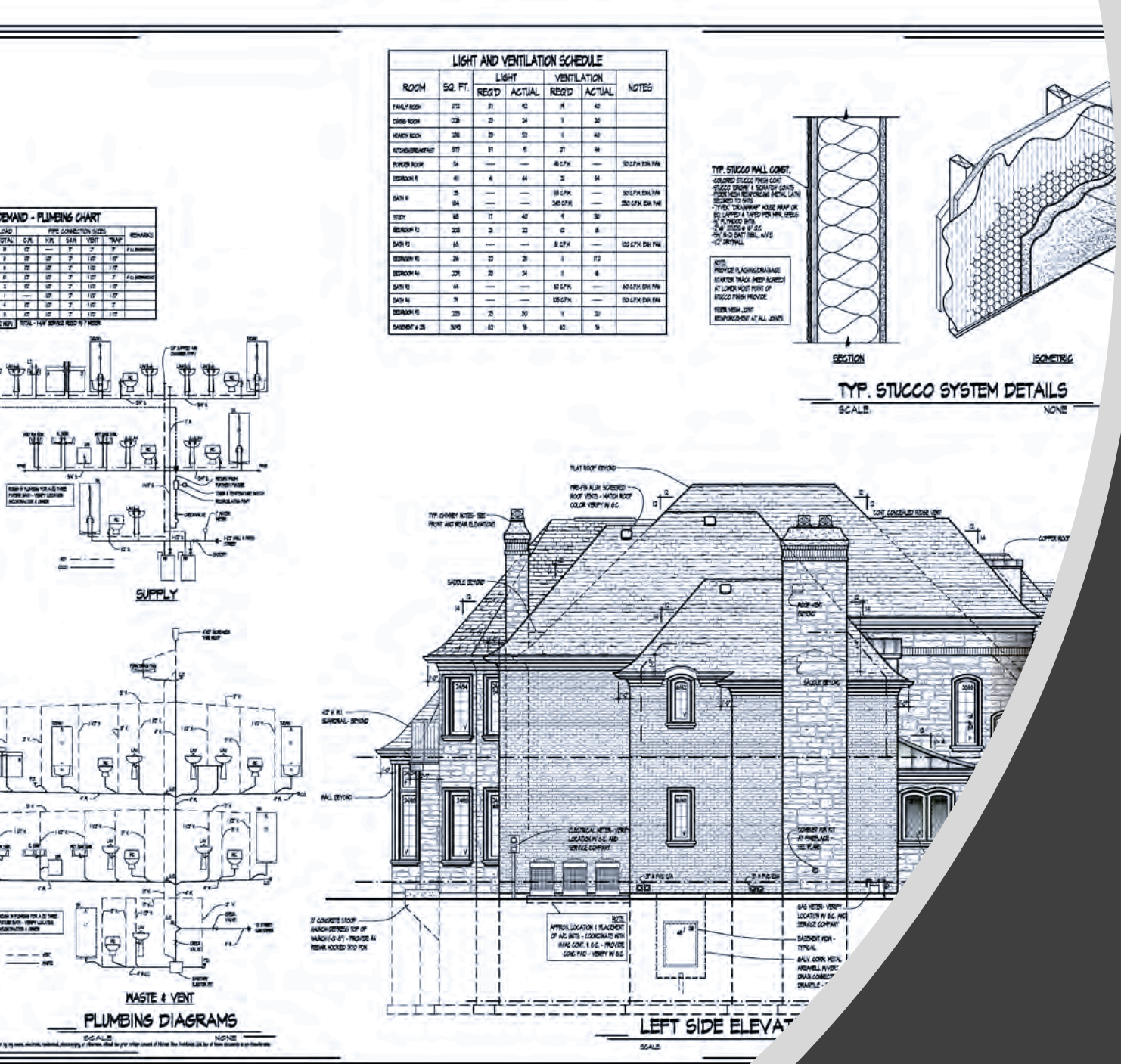


EAST/REAR BUILDING ELEVATION

BRICK ADDED

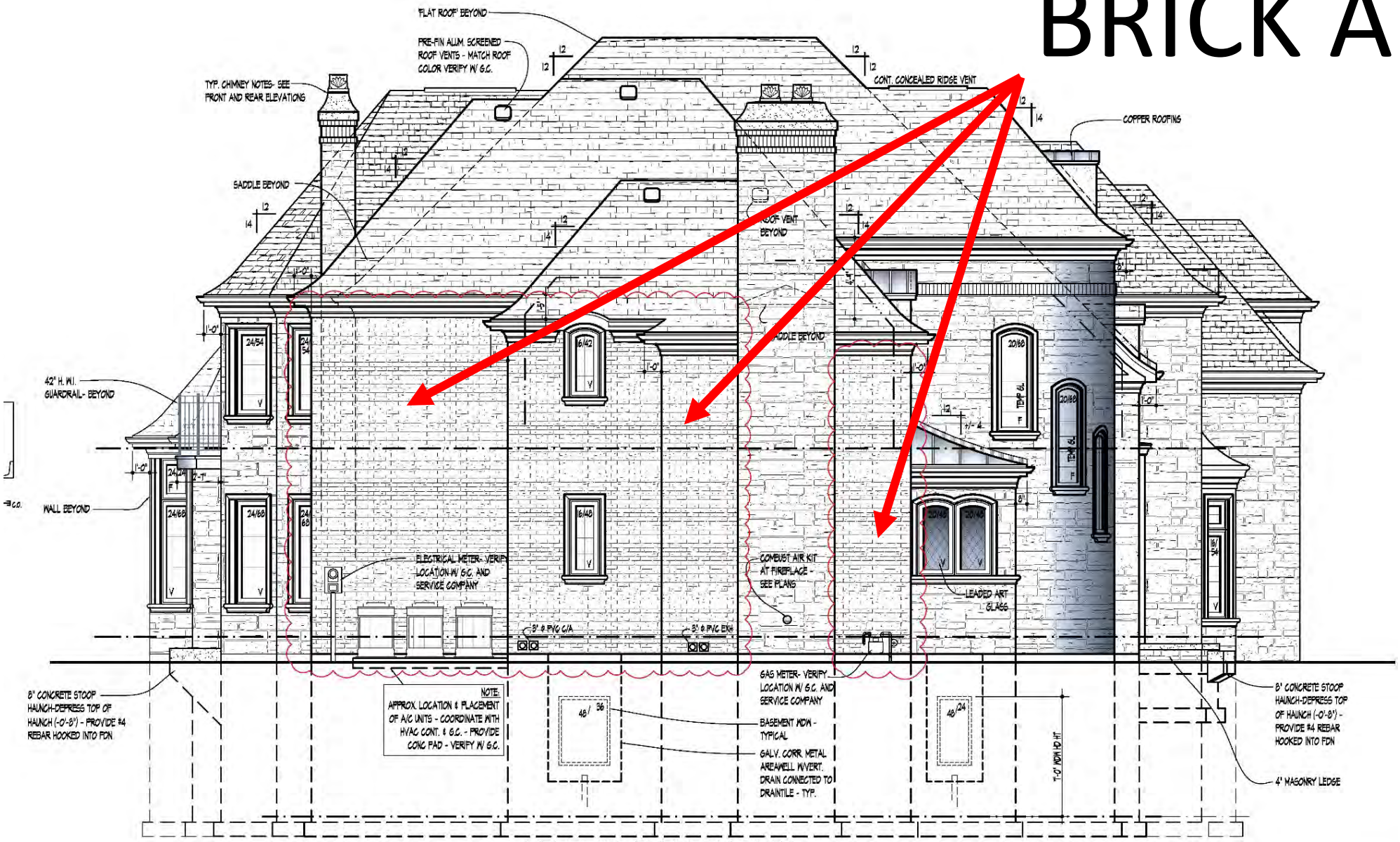


REAR ELEVATION



NORTH/SIDE BUILDING ELEVATION

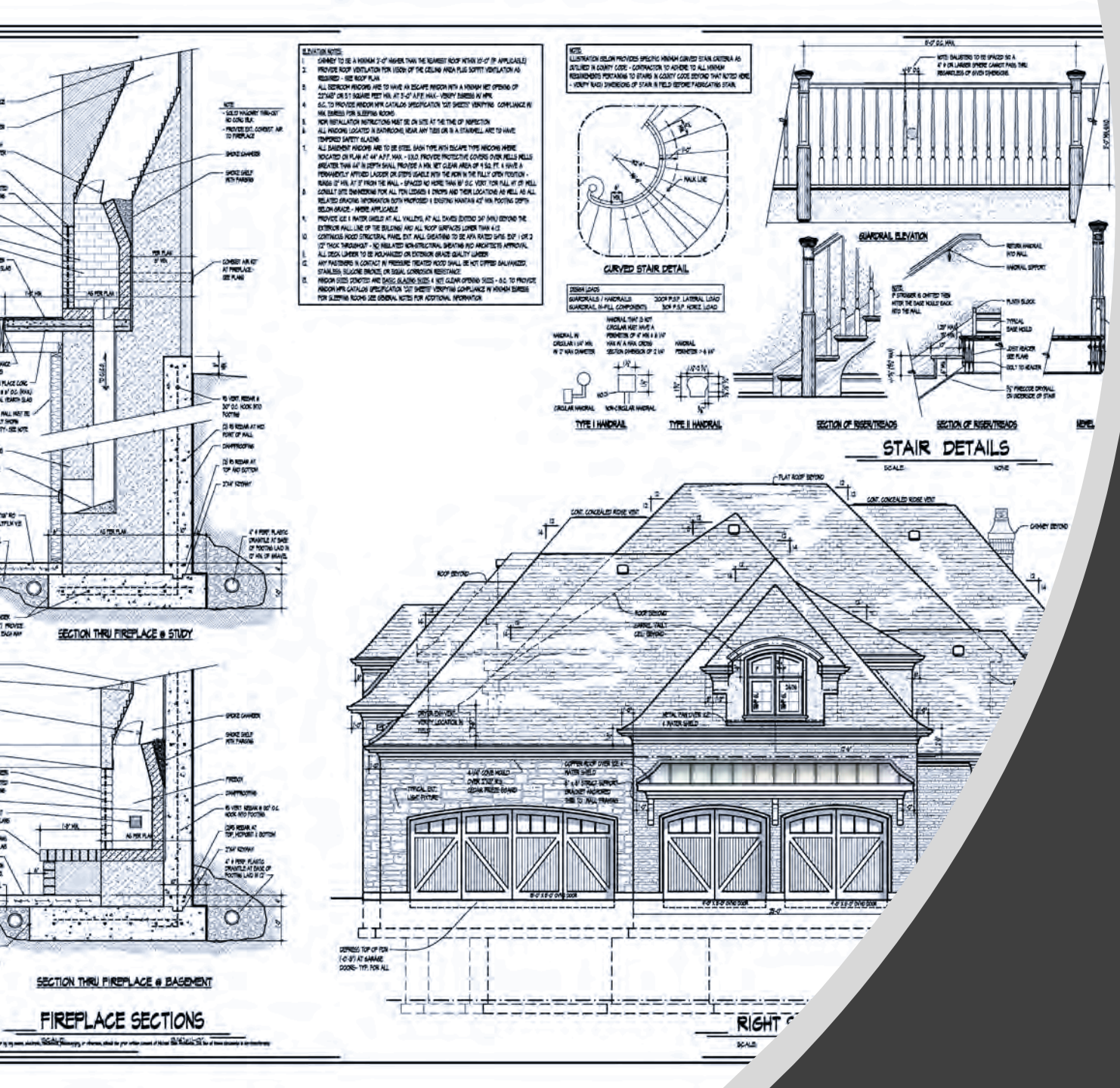
BRICK ADDED



LEFT SIDE ELEVATION

SCALE: 1/4"=1'-0"

IF THE ABOVE SEAL IS NOT RED CONTACT ARCHITECT IMMEDIATELY THIS PLAN IS NOT VALID FOR PERMIT.



SOUTH/SIDE BUILDING ELEVATION

CURRENT P.I.N.: 06-36-308-001

LANDSCAPE PLAN

PARCEL 2 LEGAL DESCRIPTION

PART OF THE SOUTHWEST QUARTER OF SECTION 36 TOWNSHIP 39 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN DESCRIBED AS FOLLOWS:

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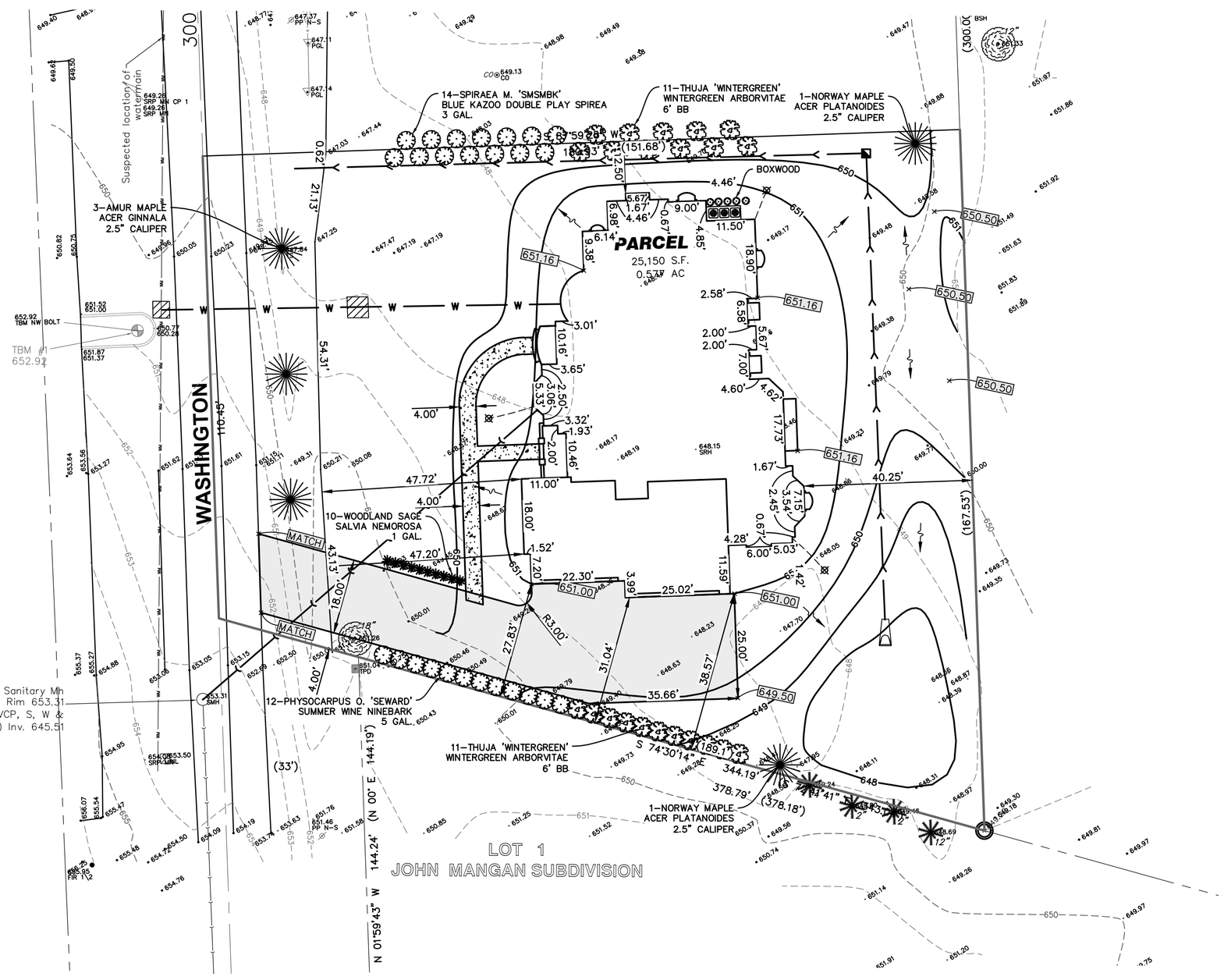


GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

GENERAL NOTES:

Contractor is responsible for verification of underground utility lines and is responsible for any damage occurring as a product of his work.

Contractor shall maintain clear and open access to the vehicular and pedestrian entrances to and from the property during all periods of work.

Contractor is responsible for verification of all existing conditions in the field prior to bidding and construction and shall notify the Landscape Architect and/or Owner of any variances.

Contractor is responsible for acquisition of and payment for all permits, fees and inspections necessary for the proper execution of this work and for compliance with all codes applicable to this work.

Contractor shall protect the property and is directly responsible for all damages caused by his work and for daily removal of all trash and debris from his work area to the satisfaction of the Landscape Architect and/or the Owner.

Material quantities are shown only for the convenience of the Contractor. The Contractor is responsible for verification of all materials and supplies in sufficient quantity to complete the job per plan.

All work shall conform to American Nursery & Landscape Association 2004 edition of the American Standard for Nursery Stock, State of Illinois Horticultural Standards and local municipal requirements.

All plant material installation shall be as detailed on these Drawings.

LANDSCAPE PLANTING NOTES:

All pruning work shall be performed only with hand pruners.

All deciduous plant material shall be thin pruned to remove ¼ interior branches, dead branches and broken branches. Pruning shall compliment the plants natural form. Absolutely no tip pruning is allowed, except for hedges as noted on the Drawing. Any plant that is tip pruned is subject to rejection by the Landscape Architect and/or Owner.

The Landscape Architect and/or Owner reserves the right to inspect trees and shrubs either at the place of growth or at the site prior to planting for compliance with requirements of variety, size and quality.

Planting beds shall be prepared with a 2" depth of mushroom compost and a 1" depth of calcined clay tilled to an overall depth of 6"-9".

Prior to mulching, all individual trees, shrub beds and groundcover areas shall be treated with a pre-emergent herbicide, such as Snap-Shot®. All areas shall be free from weeds prior to herbicide application.

All shrub beds and individual proposed trees shall be mulched to a depth of 3" with finely shredded hardwood mulch.

All perennial planting beds shall be mulched to a depth of 2" with leaf compost. Mushroom compost may be substituted if leaf compost is unavailable.

Water trees, shrubs and groundcover beds within the first 12 hours of initial planting. Continue watering weekly or as needed until the end of the maintenance period.

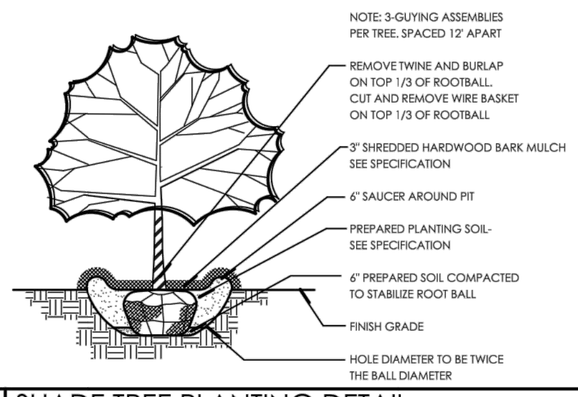
Sod shall be Kentucky Bluegrass and is required in all areas as noted on the Drawings.

Seed shall be IDOT 1A Salt Tolerant Lawn mixture of the previous year's crop with 0.5% or less weed seed and 1.75% or less crop seed, by weight. Seed shall be dry and free of mold and delivered to the site in it's original packaging.

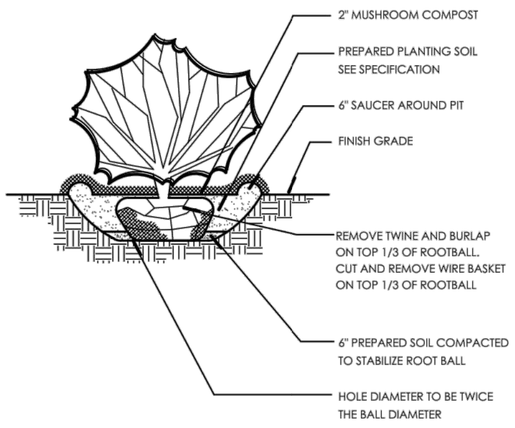
Contractor shall maintain all planting under the contracted work for a period of no less than 90 days or until establishment of seeding, whichever is longer.

Maintenance operations shall include pruning, cultivating, weeding, resetting settled plants, application of pesticides if required and application of fertilizer as needed to insure proper establishment of planting and lawns.

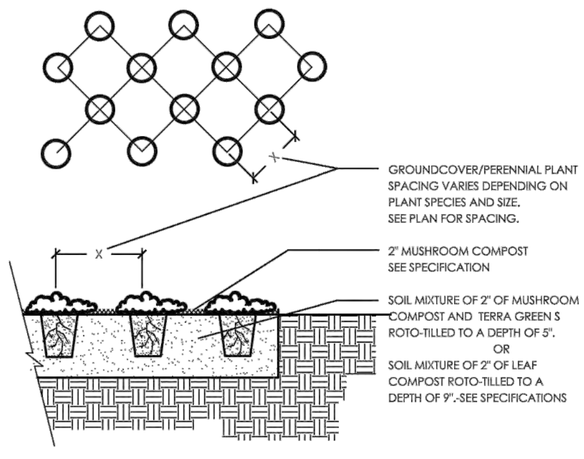
NOTE:
1. ALL LAWN AREA SHALL BE RESTORED WITH 4" TOPSOIL AND SOD.



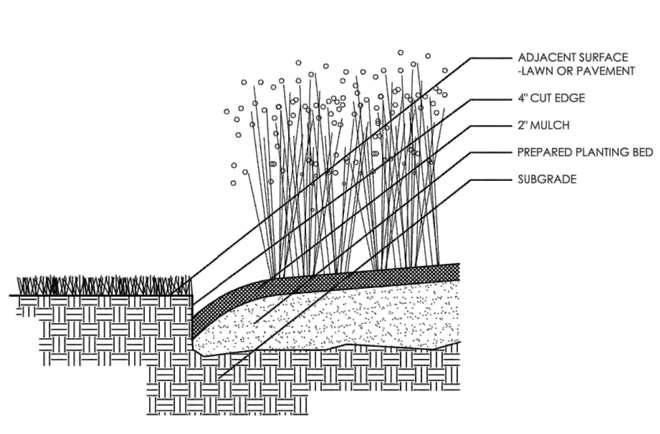
C SHADE TREE PLANTING DETAIL — N.T.S. — 09/11/96 — P-01



D SHRUB PLANTING DETAIL — N.T.S. — 09/11/96 — P-03



E PERENNIAL PLANTING DETAIL — N.T.S. — 01/25/96 — P-04



F SPADED PLANTING BED EDGE — N.T.S. — XX/XX/XX — P-04.2

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PREPARED FOR: SEIBUILDERS

LANDSCAPE PLAN REVISED: JANUARY 27, 2022
LANDSCAPE PLAN DATED: NOVEMBER 15, 2021

PROFESSIONAL DESIGN FIRM NUMBER: 184.001186

DRAWN BY: B.L./T.F./K.F
CHECKED BY: N.V.
APPROVED BY: N.V.

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17W300 22ND STREET, SUITE 200
OAKBROOK TERRACE, IL 60181

TITLE:
LANDSCAPE PLAN
3715 SPRING ROAD
OAKBROOK, ILLINOIS

SCALE: 1"=20
DATE: 11-15-21
JOB NO: 161107
SHEET 1 OF 1

C:\PROJECTS\SEIBuilders\161107.00 3715SpringRdOakBrook\CADD\161107 Lot 2 Site Plan.dwg Updated by: kfoje 1/27/2022

SINGLE FAMILY RESIDENCE

OAK BROOK, IL

MAREK SALAMON DESIGN, INC.

NORTH ELEVATION

SCALE : 1/4"=1'-0"

WEST ELEVATION

SCALE : 1/4"=1'-0"

REVISION :

JOB NO. 25.024
DATE : 11.18.2025
DRAWN BY : MS.
INSPECTED BY : P.J.M.

SINGLE FAMILY RESIDENCE

NEW CONSTRUCTION

3715 SPRING ROAD OAK BROOK, ILLINOIS

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MAREK SALAMON DESIGN

1 720 OAK AVENUE 1 RIVER FOREST 1 ILLINOIS 60305 1 PHONE: 708.366.0898 1

SHEET NO. A2 OF 5

SOUTH ELEVATION

SCALE : 1/4"=1'-0"

EAST ELEVATION

SCALE : 1/4"=1'-0"

REVISION :

JOB NO. 25.024
DATE : 11.18.2025
DRAWN BY : MS.
DRAWING BY : MS.
INSPECTED BY : PJM.

SINGLE FAMILY RESIDENCE

NEW CONSTRUCTION

3715 SPRING ROAD OAK BROOK, ILLINOIS

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SHEET NO. A3 OF 5

CURRENT P.I.N.: 06-36-308-001

LANDSCAPE PLAN

EXISTING GRADE	+ XXX.XX
EXISTING CONTOUR	XXX
PROPOSED GRADE	+ XXX.XX
PROPOSED CONTOUR	XXX
PROPOSED FLOW	
TREE PRESERVATION FENCE	-x-
SILT FENCE & CONSTRUCTION SAFETY FENCE	-xx-xx-

KEY:

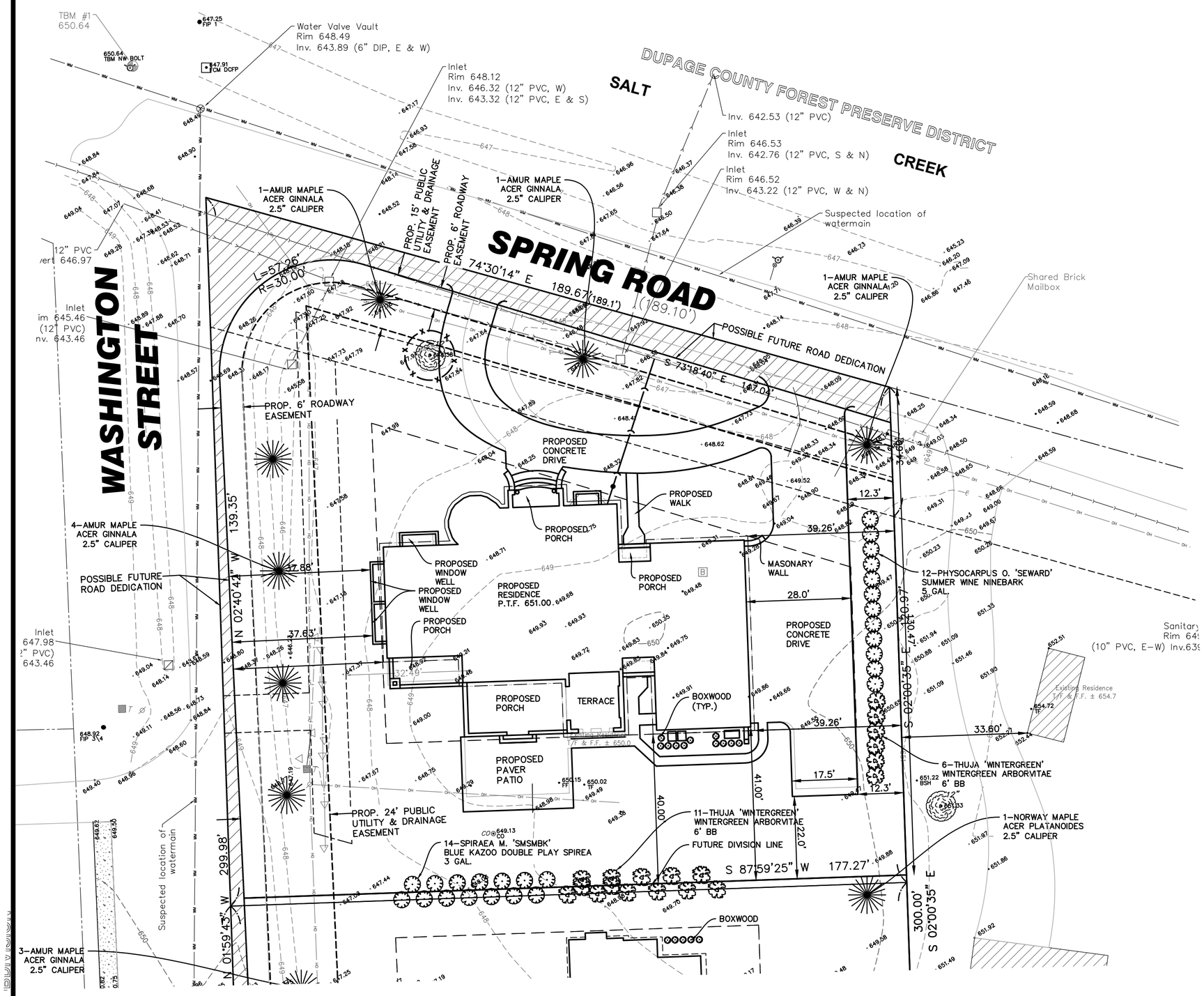
T/F = TOP OF FOUNDATION

P.T.F. = PROPOSED TOP OF FOUNDATION

PARCEL 1 LEGAL DESCRIPTION

PART OF THE SOUTHWEST QUARTER OF SECTION 36 TOWNSHIP 39 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT 659.68 FEET WEST OF THE SOUTHEAST CORNER OF THE SOUTHWEST QUARTER OF SECTION 36; THENCE NORTH AND PARALLEL TO THE EAST LINE OF SECTION 36, A MEASURED DISTANCE OF 721.71 FEET (721 FEET RECORD); THENCE CONTINUING NORTH AND PARALLEL TO THE EAST LINE OF THE SOUTHWEST QUARTER OF SECTION 36, A DISTANCE OF 110.45 FEET FOR A PLACE OF BEGINNING; THENCE CONTINUING NORTH AND PARALLEL TO THE EAST LINE OF THE SOUTHWEST QUARTER OF SECTION 36, A DISTANCE OF 189.53 FEET TO THE CENTERLINE OF A PUBLIC ROAD KNOWN AS SPRING ROAD; THENCE SOUTH 74 DEGREES 30 MINUTES 14 SECONDS EAST ALONG THE CENTER LINE OF SAID SPRING ROAD A DISTANCE OF 189.67 FEET; THENCE SOUTH AND PARALLEL TO THE EAST LINE OF THE SOUTHWEST QUARTER OF SECTION 36, A DISTANCE OF 132.47 FEET; THENCE SOUTH 87 DEGREES 59 MINUTES 25 SECONDS WEST, A DISTANCE OF 180.93 FEET TO THE PLACE OF BEGINNING, IN DUPAGE COUNTY, ILLINOIS.



GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

1 inch = 20 ft.

GENERAL NOTES:

Contractor is responsible for verification of underground utility lines and is responsible for any damage occurring as a product of his work.

Contractor shall maintain clear and open access to the vehicular and pedestrian entrances to and from the property during all periods of work.

Contractor is responsible for verification of all existing conditions in the field prior to bidding and construction and shall notify the Landscape Architect and/or Owner of any variances.

Contractor is responsible for acquisition of and payment for all permits, fees and inspections necessary for the proper execution of this work and for compliance with all codes applicable to this work.

Contractor shall protect the property and is directly responsible for all damages caused by his work and for daily removal of all trash and debris from his work area to the satisfaction of the Landscape Architect and/or the Owner.

Material quantities are shown only for the convenience of the Contractor. The Contractor is responsible for verification of all materials and supplies in sufficient quantity to complete the job per plan.

All work shall conform to American Nursery & Landscape Association 2004 edition of the American Standard for Nursery Stock, State of Illinois Horticultural Standards and local municipal requirements.

All plant material installation shall be as detailed on these Drawings.

LANDSCAPE PLANTING NOTES:

All pruning work shall be performed only with hand pruners.

All deciduous plant material shall be thin pruned to remove ¼ interior branches, dead branches and broken branches. Pruning shall compliment the plants natural form. Absolutely no tip pruning is allowed, except for hedges as noted on the Drawing. Any plant that is tip pruned is subject to rejection by the Landscape Architect and/or Owner.

The Landscape Architect and/or Owner reserves the right to inspect trees and shrubs either at the place of growth or at the site prior to planting for compliance with requirements of variety, size and quality.

Planting beds shall be prepared with a 2" depth of mushroom compost and a 1" depth of calcined clay tilled to an overall depth of 6"-9".

Prior to mulching, all individual trees, shrub beds and groundcover areas shall be treated with a pre-emergent herbicide, such as Snap-Shot®. All areas shall be free from weeds prior to herbicide application.

All shrub beds and individual proposed trees shall be mulched to a depth of 3" with finely shredded hardwood mulch.

All perennial planting beds shall be mulched to a depth of 2" with leaf compost. Mushroom compost may be substituted if leaf compost is unavailable.

Water trees, shrubs and groundcover beds within the first 12 hours of initial planting. Continue watering weekly or as needed until the end of the maintenance period.

Sod shall be Kentucky Bluegrass and is required in all areas as noted on the Drawings.

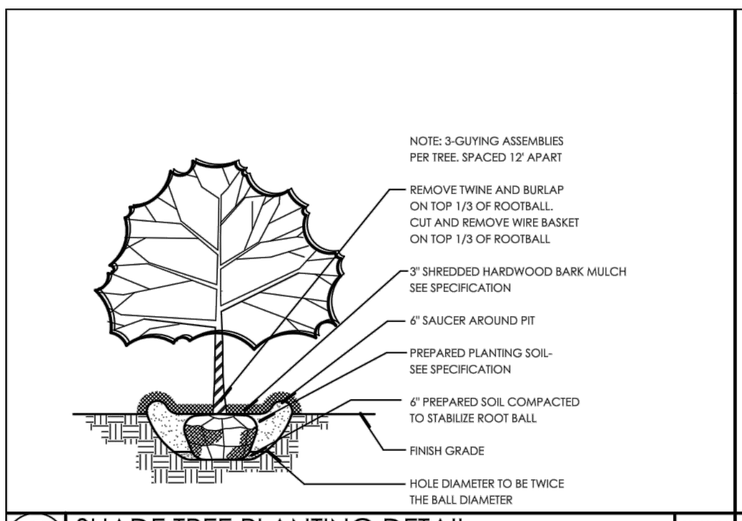
Seed shall be IDOT 1A Salt Tolerant Lawn mixture of the previous year's crop with 0.5% or less weed seed and 1.75% or less crop seed, by weight. Seed shall be dry and free of mold and delivered to the site in it's original packaging.

Contractor shall maintain all planting under the contracted work for a period of no less than 90 days or until establishment of seeding, whichever is longer.

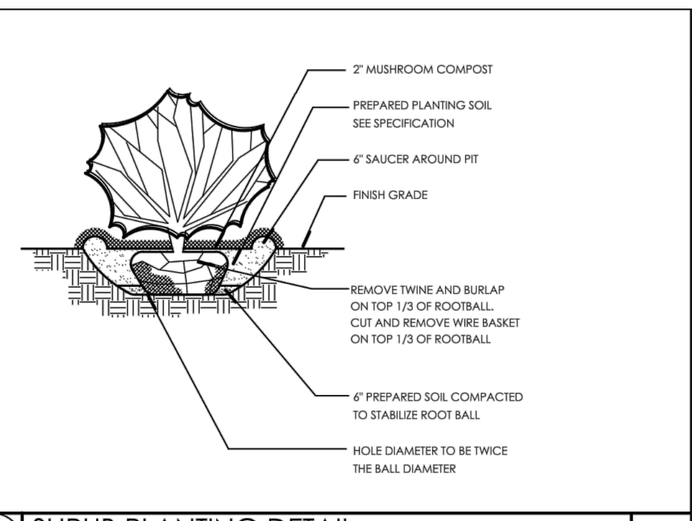
Maintenance operations shall include pruning, cultivating, weeding, resetting settled plants, application of pesticides if required and application of fertilizer as needed to insure proper establishment of planting and lawns.

NOTE:

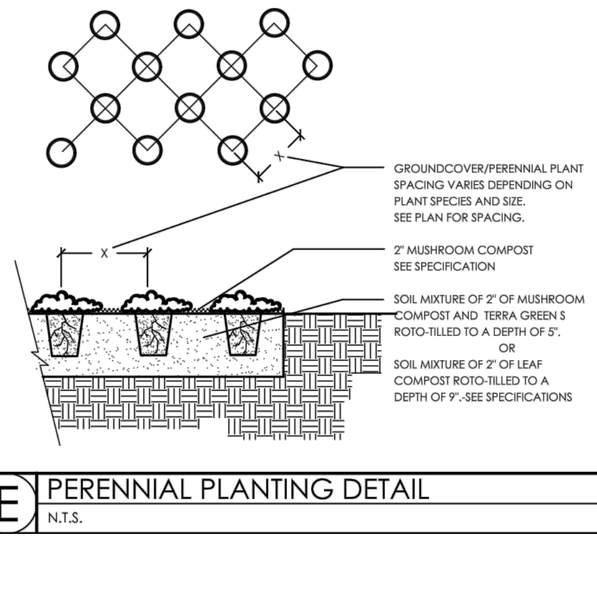
1. ALL LAWN AREA SHALL BE RESTORED WITH 4" TOPSOIL AND SOD.



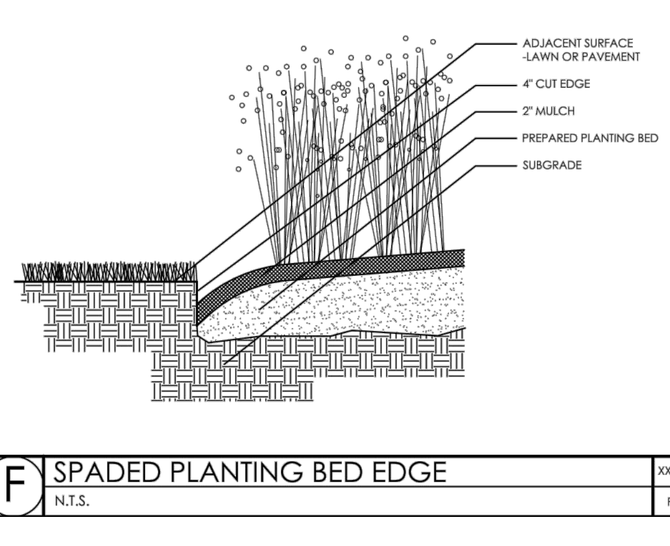
C SHADE TREE PLANTING DETAIL — 09/11/96 — N.T.S. — P-01



D SHRUB PLANTING DETAIL — 09/11/96 — N.T.S. — P-03



E PERENNIAL PLANTING DETAIL — 01/25/96 — N.T.S. — P-04



F SPADED PLANTING BED EDGE — XX/XX/XX — N.T.S. — P-04.2

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Call before you dig 800.892.0123

PREPARED FOR: SEIBUILDERS

PROFESSIONAL DESIGN FIRM NUMBER: 184.001186

DRAWN BY: B.L.
CHECKED BY: J.G.
APPROVED BY: J.G.

ENGINEERING RESOURCE ASSOCIATES
3S701 WEST AVENUE, SUITE 150
WARRENVILLE, ILLINOIS 60555
PHONE (630) 393-3060
FAX (630) 393-2152

10 S. RIVERSIDE PLAZA , SUITE 875
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FAX (312) 474-6099

2416 GALEN DRIVE
CHAMPAIGN, ILLINOIS 61821
PHONE (217) 351-6268
FAX (217) 355-1902

PREPARED FOR:
SEI BUILDERS, INC.
17W300 22ND STREET, SUITE 200
OAKBROOK TERRACE, IL 60181

TITLE:
LANDSCAPE PLAN
3715 SPRING ROAD
OAKBROOK, ILLINOIS

SCALE: 1"=20
DATE: 04/29/2026
JOB NO: 161107
SHEET 2 OF 3

C:\PROJECTS\SEIBuilders\161107.00 3715SpringRdOakBrook\CADD\161107 Lot 1 Site Plan2026-04-29.dwg Updated by: bleprich 4/29/2026

ITEM 8.A.1.
BOARD OF TRUSTEES MEETING
SAMUEL E. DEAN BOARD ROOM
BUTLER GOVERNMENT CENTER
1200 OAK BROOK ROAD
OAK BROOK, ILLINOIS
630-368-5000

AGENDA ITEM

Board of Trustees Special Meeting
of
June 16, 2026

SUBJECT: New Insurance Carrier - Illinois Counties Risk Management Trust (ICRMT)

FROM: Greg Summers, Village Manager

BUDGET SOURCE/BUDGET IMPACT: Net reduction of $90,547 versus the current IRMA risk management annual premium

RECOMMENDED MOTION: I move that the Village Board approve Resolution R-2369, A Resolution Authorizing and Approving a Membership Agreement for the Illinois Counties Risk Management Trust (ICRMT)

Background/History:

The Village of Oak Brook was a founding member of the Intergovernmental Risk Management Agency (IRMA) in 1979 and The Village has remained with IRMA since formation, utilizing their services for the following lines of insurance coverages:

- General Liability
- Public Officials Liability
- Law Enforcement
- Property
- Automobile Liability & Physical Damage
- Worker's Compensation
- Sales Tax Interruption
- Cyber
- Excess Liability

Total coverage for these matters, inclusive of excess liability, is $15 million. For the period December 1, 2025 through November 30, 2026 the Village's annual premium for these coverages was $925,513.

IRMA is not a conventional insurer, but rather a risk pooling agency organized pursuant to Illinois law for the purpose of providing risk management, loss coverage, and related services to its municipal members. Accordingly, coverage is not bound by policy documents, but rather under certain Contract and Bylaws established by the IRMA Executive Board and the IRMA Board, which are comprised of representatives from member agencies. Unlike traditional insurance carriers, this leads to open interpretation of claims and coverages, rather than a strict deductible and limits model. The end result is that IRMA, through its Boards and Executive Director, has tremendous latitude is deciding what is a covered claim and what is not. The end result is nearly $1 million in annual premiums with zero guarantee of coverage.

Under the direction of its current Executive Director, IRMA has increased the frequency in which it seeks to deny coverage, most recently resulting in the Village having to file litigation against both IRMA and its Executive Director to enforce the policy coverages; creating unnecessary expense and delay in claims coverage. Such delays drive up exposure and expenses. Furthermore, IRMA is an assessable pool. In an assessable pool, if the pool's assets are insufficient to cover a member's claim, each member is responsible for a pro-rata share of the claim cost. This leaves the Village subject to other municipalities' risk management practices and exposed to the resulting expenses thereof.

Additionally, IRMA coverage caps out at $15 million and recent court awards for police pursuit claims have exceeded this amount, often settling at $16 to $18 million and growing. This risks not only an excess claim on our end, but exposure to claims from IRMA's other risk pool members over which we have no training or risk mitigation technique control.

As a result, the Village engaged broker Alliant (and a competitor broker) to shop for potential insurance coverage for the Village across both the private sector and other risk management pools. While every program is built differently and there are few private sector insurers willing to take on police agencies (especially in Illinois), making comparisons complicated, Alliant clearly demonstrated that the Illinois Counties Risk Management Trust (ICRMT) can deliver the best value to the Village, with a higher coverage limit, and save the Village money on an annual basis. ICRMT has 600+ members with $160 million in annual contributions versus IRMA's 70 members with $40 million of contribution. ICRMT allows their insured to take a greater role in claim management and settlement via selection of their own counsel through use of an attorney pool (of which the Village Attorney's firm is an approved panel member) versus IRMA's assigned counsel and the IRMA restrictive pooling agreement which allows IRMA's Executive Director authority to deny claims or only pay a partial claim. Further, ICRMT provides customized on-site training whereas IRMA has mass off-site trainings combined for all members. Finally, ICRMT is a non-assessable pool, meaning the Village has no exposure to claims from other members.

Previously, the Village Board approved a Conditional Resolution of Withdrawal from IRMA and on June 9, 2026 IRMA voted to accept the withdrawal under the Village's terms. Other Chicagoland suburban communities that have recently left IRMA and are now insured with ICRMT include the Village of Glendale Heights, Village of Westchester, Village of Bensenville, Village of Niles, Village of Willow Springs, City of Prospect Heights, and Village of East Dundee. Upon reference checks, all had positive comments regarding ICRMT and noted improved services and coverages over IRMA.

As noted earlier, the Village's annual IRMA premium was $925,513, a number which is projected to increase by at least 11% for 2027 (to $1,027,319) based on current claim history, ICRMT placed one for

one coverage matches at $1,096,511 – higher but with guaranteed coverage. Increasing the total claim cap from $15 million to $21 million, raises that premium further to $1,167,551 – with all other parameters matched. Moving from a $25,000 deductible to a $100,000 Self-Insured Retention (SIR), even with the higher coverage limits, reduces the premium to $821,632, for an annual savings of $103,881.

It is important to note that this does result in an increased exposure to the deductible/SIR of $75,000. Accordingly, staff reviewed 11 years of claim history for this gap, revealing that this would have exposed the Village to an additional $28,379 annually, lowering the annual savings to $75,502. Notably, most of this differential is in one large and uncommon claim. Removing this claim would have lowered the annual additional exposure to $14,742; an annual savings of $89,139 per year.

In order to get from an IRMA cancellation date of July 1, 2026 (12:00 midnight) to the ICRMT policy year starting 12/1/2026, a pro-rated premium of $351,362 is proposed at this time.

Recommendation:

Staff's analysis reveals it is expected that moving from IRMA to ICRMT with a $100,000 SIR could save the Village between 9.2% and 9.6% annually; with an excess liability limit $6 million dollars higher per claim, plus the guarantee of actual enforceable insurance coverage. Therefore, staff recommends that the Village Board approve Resolution R-2369, A Resolution Authorizing and Approving a Membership Agreement for the Illinois Counties Risk Management Trust (ICRMT).

Attachments:

1. R-2369 - Res_ICRMT
2. ICRMT Membership Agreement to 9th Amendment
3. Alliant_ICRMT versus IRMA High Level Program Comparison 2026
4. Oak Brook Package 10 Loss Stratification summary losses between 25,000-100,000

THE VILLAGE OF OAK BROOK
COOK AND DUPAGE COUNTIES, ILLINOIS

RESOLUTION
NUMBER 2026-FI-BKSRV-R-2369

A RESOLUTION AUTHORIZING AND APPROVING A MEMBERSHIP AGREEMENT FOR THE ILLINOIS COUNTIES RISK MANAGEMENT TRUST

LAURENCE E. HERMAN, Village President
NETASHA SCARPINITI, Village Clerk

JOHN ANOS
NAVEEN JAIN
MICHAEL MANZO
MELISSA MARTIN
A. SURESH REDDY
EDWARD TIESENGA

Village Board

Published in pamphlet form by authority of the President
and the Board of Trustees of the Village of Oak Brook
on the 16th day of June, 2026

RESOLUTION NO. 2026-FI-BKSRV-R-2369

A RESOLUTION
AUTHORIZING AND APPROVING A MEMBERSHIP AGREEMENT FOR THE ILLINOIS COUNTIES RISK MANAGEMENT TRUST

WHEREAS, the Village of Oak Brook is a municipal corporation with authority provided for and granted pursuant to the Illinois Municipal Code to exercise certain powers and perform certain functions pertaining to its local government and affairs;

WHEREAS, the Village of Oak Brook (hereinafter referred to as "Village") upon approval of the Village President and Board of Trustees (collectively, the "Corporate Authorities") may enter into an agreement with another party pursuant to Illinois Statute;

WHEREAS, The Village of Oak Brook was a founding member of the Intergovernmental Risk Management Agency (IRMA) in 1979 and the Village has remained with IRMA since formation, utilizing their services for various lines of insurance coverages;

WHEREAS, due to the increase in annual premiums payable by the Village and the increase in frequency in which IRMA has sought denial of the Village's claims, Staff is recommending the Village seek alternative insurance options;

WHEREAS, Staff recommends the Corporate Authorities authorize and approve the Membership Agreement ("Agreement") with the Illinois Counties Risk Management Trust to begin policy coverage December 1, 2026 at the pro-rated premium cost of $419,483, as further detailed in Quote No. ICRMT-001001196-N-2626-01, collectively attached hereto and incorporated herein as Exhibit A;

WHEREAS, the Village of Oak Brook Corporate Authorities are of the opinion that it is in the best interests of the Village of Oak Brook to authorize the foregoing actions.

NOW, THEREFORE, BE IT RESOLVED, in open meeting assembled, by the Village President and Board of Trustees of the Village of Oak Brook, DuPage and Cook Counties, Illinois as follows:

Section One – Recitals

The Corporate Authorities hereby find that all of the recitals hereinbefore stated as contained in the preamble to this Resolution are full, true, and correct and do hereby, by reference, incorporate and make them part of this Resolution as legislative findings.

Section Two – Approval

The Corporate Authorities hereby approves the Agreement, substantially in the form attached hereto and made a part hereof as Exhibit A.

Section Three – Authorization and Direction

The Village Manager is hereby authorized to execute the Agreement, substantially in the form attached hereto as Exhibit A, with such changes therein as shall be approved by the Village attorney and the officials of the Village executing the same, their execution thereof to constitute

exclusive evidence of their approval to any and all changes or revisions therein from and after the execution and delivery of such Agreement.

Section Four - Other Actions Authorized

The officers, employees and/or agents of the Village shall take all actions necessary or reasonably required to carry out and give effect to the intent of this Resolution and otherwise to consummate the transactions contemplated herein, and shall take all actions necessary in conformity therewith including, without limitation, the execution and delivery of all documents required to be delivered in connection with the transaction contemplated herein.

Section Five - Authorization of Expenditures

The Corporate Authorities hereby authorize and direct the expenditure of all costs related to the execution of the Agreement, additionally, the Village is authorized and directed to allocate and spend all necessary funds to fulfill the requirements of the attached Agreement.

Section Six – Waiver of Bidding Process

To the extent that any requirement of bidding would be applicable to the transactions contemplated hereunder, the same is hereby waived.

Section Seven - Acts of Village Officials

That all past, present and future acts and doings of the officials of the Village that are in conformity with the purpose and intent of this resolution are hereby, in all respects, ratified, approved, authorized and confirmed.

Section Eight – Effective Date

This resolution shall be in full force and effect from and after its passage, approval and publication as provided by law.

Section Nine - Publication

This resolution shall be published in book or pamphlet form as provided by the Illinois Municipal Code.

Section Ten – Conflict Clause

All resolutions, parts of resolutions or board actions in conflict herewith are hereby repealed to the extent of such conflict.

Section Eleven – Saving Clause

If any section, paragraph, clause or provision of this resolution is declared by a court of law to be invalid or unconstitutional, the invalidity or unconstitutionality thereof shall not affect the validity of any other provisions of this resolution, which are hereby declared to be separable.

Section Twelve – Recording

This resolution shall be entered into the minutes and upon the journals of the Board of Trustees of the Village of Oak Brook.

PASSED THIS 16th day of June 2026.

Ayes: _____

Nays: _____

Absent: _____

APPROVED THIS 16th day of June 2026.

_____
LAURENCE E. HERMAN,
Village President

ATTEST:

_____
NETASHA SCARPINITI,
Village Clerk

EXHIBIT A

Agreement

THIRD AMENDED AND RESTATED ILLINOIS COUNTIES RISK MANAGEMENT TRUST

THIRD AMENDED AND RESTATED
ILLINOIS COUNTIES RISK MANAGEMENT TRUST

On or about January 1, 1983, certain Illinois counties entered into an Agreement for Membership – Illinois Counties Risk Management Trust ("Agreement").

On November 15, 1993, the Agreement was amended and restated in its entirety.

On October 24, 1994, the Agreement was further amended.

Upon resolutions duly adopted by the Executive Board (as hereinafter defined) in accordance with the terms of said Agreement, the Agreement is hereby further amended and restated in its entirety, as follows:

"This Agreement is made and entered into as of the 1st day of January, 1983, by and among certain Illinois counties organized and existing under the constitution and laws of the State of Illinois and pursuant to the authority granted by the Illinois Intergovernmental Cooperation Act (5 ILCS 220, as amended) and the Illinois Local Governmental and Governmental Employees Tort Immunity Act (745 ILCS, 10, as amended).

RECITALS

A. The Illinois Intercontinental Cooperation Act authorizes Illinois counties and other "Public Agencies" (therein defined as any unit of local government as defined in the Illinois Constitution of 1970, any school district, any public community college district, the State of Illinois, any agency of the State government or of the United States, or of any other state, any political subdivision of another state, and any combination of the above pursuant to an intergovernmental agreement which included provisions for a governing body of the agency created by the Agreement") to enter into agreements to jointly self-insure and expend their funds to protect, to the extent agreed, any such counties and other Public Agencies against liability or loss covered under such agreements.

B. The Participants (as hereinafter defined) desire to establish a joint self-insurance fund and to jointly purchase such excess insurance, reinsurance and claims adjusting, loss control, data processing and other services as they seem necessary or advisable for the development and administration of such a fund.

C. Each Participant intends to strictly limit its financial responsibility for the defense or indemnity or any other Participant to the express terms, conditions and limitations of this Agreement.

AGREEMENT

In consideration of the mutual promises and agreements herein contained, the parties hereto agree as follows:

1. **Recitals**: The recitals set forth above are an integral part of this Agreement and are hereby incorporated into it by reference.

2. **Name**: There is hereby created an unincorporated association known as the Illinois Counties Risk Management Trust ("ICRMT"). The principal offices of the ICRMT shall be at such location or locations as may be designated from time to time by the Executive Board.

3. **Purpose**: The ICRMT has been formed for the purpose of established a joint self-insurance fund to provide, on behalf of the Participants, for the defense and, when appropriate, payment of claims and losses covered under this Agreement.

4. **No Waiver of Immunity**: This Agreement shall not for any purpose be deemed to constitute a waiver by any Participant or any other public entity or public employee of any defenses or immunities otherwise available to any of them by law.

5. **Participant Eligibility**: The ICRMT shall have two classes of Participants. One class of Participants (referred to herein individually as "Member" and collectively as "Members") shall consist of those Illinois counties which were Members under the Agreement immediately prior to the effective date of this amendment and restatement (each of which shall retain its Member status, without satisfying the terms of this Paragraph 5, unless and until such Member status is terminated as hereinafter provided), together with those Illinois counties which are hereafter admitted as Members under the terms hereof. The ICRMT's other class of Participants (referred to herein individually as "Associate" and collectively as "Associates") shall consist of those Public Agencies (other than Illinois counties) which are hereafter admitted as Associates under the terms hereof. Member and Associates are sometimes referred to herein individually as "Participant" and collectively as "Participants." To be eligible as a new Participant in the ICRMT, applicants must:

   (a) Member Status: To be a Member, be an Illinois county and retain and maintain in good standing membership in the United Counties Council of Illinois;

   (b) Associate Status: To be an Associate, be a Public Agency (other than an Illinois county);

   (c) Application: File with the Executive Board or the Trust Administrator (as hereinafter defined) a completed application in the form prescribed by the Executive Board from time to time;

   (d) Review: Be determined by the Executive Board or Trust Administrator, upon its review of the application and any further investigation deemed necessary or advisable, to be financially sound, employing generally accepted financial practices and exhibiting reasonably prudent safety practices and loss control programs;

(e) Other Requirements: Satisfy such other requirements for Member or Associate status as the Executive Board may establish from time to time;

(f) Approval: Be approved for Member or Associate status by the Executive Board or Trust Administrator and, if necessary, the ICRMT's excess insurance carriers;

(g) Agreement: Execute, together with a duly-authorized office of the Executive Board, an ICRMT Participant Agreement, by which the Participant shall agree to be bound by the terms and conditions of this Agreement; and

(h) Other Documents: Execute any and all other documents which the Executive Board may determine from time to time to be necessary or advisable in connection with Member or Associate status in the ICRMT.

(i) Consent to Legal Process: Agree and consent that it may be sued by the ICRMT in any court having jurisdiction for any premiums, assessments, contribution, debts, penalties or other monies that are not paid to the ICRMT on the due date thereof, including all reasonable attorney's fees and other related expenses incurred by the ICRMT in the collection process through litigation or otherwise.

6. **Participation Term**: Members and Associates are admitted to participate in the ICRMT for a minimum term of one year, such term to continue thereafter unless and until such Member or Associate's participation is terminated as herein provided.

7. **Termination of Member/Associate's Participation**: The following provisions shall apply to the termination of a Member or Associate's participation under this Agreement:

(a) Occurrences: Participation of any member or Associate of the ICRMT shall terminate upon any of the following occurrences:

(1) failure to pay premiums, contributions, assessments or other debts that are due and payable within thirty days after the date notice specifying such delinquency is proved to the Participant;

(2) failure to carry out the recommendations of the Executive Board concerning any loss control or safety practices or programs or to follow generally accepted financial and loss control prevention standards within thirty days after the date notice specifying such failure is provided to the Participant;

(3) failure to meet any other requirement for continued participation in the ICRMT which the Executive Board may determine from time to time necessary or advisable to preserve or increase the strength and stability of the ICRMT;

(4) after the initial one-year term of ICRMT participation, any Participant may terminate its participation in the ICRMT, effective as to each specific afforded to the Participant under

this Agreement on the next anniversary date of the ICRMT's excess insurance policy for each such coverage, by giving not less than thirty days' notice to the Executive Board or Trust Administrator.

(b) Effective Date: Pursuant to Subparagraphs 7(a)(i), (ii) and (iii), the participation of a Participant shall terminate thirty days after the date notice as above has been provided unless within such thirty-day period the delinquency or failure is cured. Pursuant to Subparagraph 7(a)(iv), the participation of a Participant shall, as to each specific coverage afforded to the participant under this Agreement, terminate on the next anniversary date of the ICRMT's excess insurance policy for each such coverage unless prior to that date the Participant's notice is withdrawn.

(c) Liability Cutoff: No liability shall accrue to the ICRMT or its Participants for any claim against or loss of an ex-Participant due to Occurrences (as defined in the ICRMT's excess insurance policy in effect from time to time for the specific coverage in question) which take place after the effective date of the termination of such ex-Participant's participation in the ICRMT and prior to the effective date of any reinstatement as provided below.

(d) Reinstatement: An ex-Participant (whether its participation was voluntarily or involuntarily terminated) may be reinstate to participation in the ICRMT only by filing an application and meeting all the requirements of a new Member or Associate as set forth herein, and by paying in full all such Participant's past due accounts, including costs of collection, if any.

8. **Coverage**: Coverage under the ICRMT is initially limited to the compensation and other benefits required of a Participant by the Illinois Workers' Compensation Act and Illinois Workers' Occupational Diseases Act, as they may be amended from time to time (both as applicable only to Illinois employees), plus employer's liability as defined in a standard Workers' Compensation insurance policy and the following additional coverages:

   (a) Longshoremen's and Harbor Workers' Liability;
   (b) Federal Employers Liability Act;
   (c) Jones Act;
   (d) Employers outside of Illinois on an incidental basis only; and
   (e) Voluntary compensation.

   This coverage afforded by this Agreement applies or is accorded only to claims against or losses of a Participant due to Occurrences (as defined in the ICRMT's excess insurance policy in effect from time to time for the specific coverage in question) which take place during said Participant's term of participation and which are otherwise covered under the terms and conditions of the ICRMT's excess insurance policy in effect from time to time for the specific coverage in question. Additional coverage may be authorized under this Agreement at any regular or special meeting of the Executive Board by an affirmative vote of at least two-thirds of all the members of the Executive Board.

9. **Defense and Payment of Claims**: The ICRMT shall defend any suit, proceeding, demand, loss or claim which may at any time be instituted against a Participant on account of perils, hazards

and liabilities covered under this Agreement and which are otherwise covered under the terms and conditions of the ICRMT's excess insurance policy in effect from time to time for the specific coverage in question, even though such suit, allegations, demands or losses may be or are wholly groundless, false or fraudulent, and pay any settlement agreed to or judgment levied against a Participant investigation, negotiation or defense.

10. **Limits of Liability**: The liability of the ICRMT is specifically limited as follows:

    (a) Workers' Compensation and Occupational Diseases Acts: To the payment of obligations imposed on Participants under the Illinois Workers' Compensation Act and the Illinois Workers' Occupational Diseases Act;

    (b) Employers' Liability: With respect to employers' liability coverage, to the limits of liability established from time to time by the Executive Board;

    (c) Other Coverage: With respect to coverages other than workers' compensation, workers' occupational diseases and employers' liability, to the limits of liability established from time to time by the Executive Board;

    (d) Excess Insurance Limit: Notwithstanding anything to the contrary herein, to no more than the excess insurance or reinsurance limits purchased by the ICRMT with respect to each specific coverage afforded under this Agreement.

11. **Participants' Costs**: The annual contribution cost of the coverages provided under this Agreement from time to time shall be determined and apportioned among the participants by the Executive Board in its sole discretion. Contribution rates and discounts, if any, shall take into account such factors as the Executive Board, in its sole discretion, deems appropriate, including, but not limited to, the following: the claims experience, investment income, costs and expenses of the ICRMT as a whole and each Participant's own claims experience.

12. **Annual Contribution Payment**: Each Participant shall pay 25% of its annual contribution, as described above, within thirty days of the effective date of its coverage. The remaining balance shall be payable in equal installments over the next six months. The Executive Board is without authority to extend credit to any Participant and failure to pay any amount when due shall subject a Participant to termination from the ICRMT as provided in Paragraph 7 hereof.

13. **Special Assessments**: Whenever the Executive Board determines, in its sole discretion, by means of audit, annual certified financial statements, actuarial opinion, or otherwise that the assets of the ICRMT are insufficient to meet the ICRMT's liabilities, then the Executive Board shall assess each Participant and each terminated or ex-Participant what was a Participant during the Fiscal Year (as hereinafter defined) in which the events or occurrences giving rise to such assessment occurred, the amount necessary (in the aggregate) to correct the deficiency. Participants and ex-Participants shall be assessed pro rata based upon their most recent gross annual contributions, provided that, in no event shall the annual total of any Participant's or ex-Participant's assessment exceed 10% of such Participant's or ex-Participant's most recent gross annual contribution to the ICRMT. In the event of the inability of one or more Participants or

ex-Participants, by reason of insolvency or otherwise, to pay such assessments, the Executive Board shall asses the other Participant's and ex-Participant's for such unpaid amounts. Notwithstanding the foregoing, a Participants' or ex-Participant's liability under this paragraph for assessments shall be limited to the term of such Participant's participation in the ICRMT and the three year period commencing with the close of the Fiscal Year during which a Participant's or ex-Participant's participation was terminated.

14. **Dividends**: The following provisions shall apply to the declaration and payment of dividends under this Agreement:

    (a) Declaration: If at any time the combined assets of the ICRMT are determined by the Executive Board to have a value in excess of the actuarially required reserves of the ICRMT, the Executive Board may, in its sole discretion, declare a dividend of any part of all of such excess amount payable or credited to the account of Participants and/or ex-Participants.

    (b) Eligibility: Dividends, if any, shall be declared to Participants in good standing as of the stated effective date of the dividend and, in the Executive Board's sole discretion, to ex-Participants which have voluntarily terminated their participation, provided that there shall be no payment or credit allowed to an ex-Participant until after the later of (i) sixty days after payment or other final disposition of all pending claims against that ex-Participant, or (ii) sixty days after expiration of the statute of limitations with regard to any and all claims or potential claims against such ex-Participant. Ex-Participants which have had their participation involuntarily terminated shall not be eligible to receive dividends.

    (c) Allocation: When considering the amount, if any, of a declared dividend to be paid or credited to the account of any particular Participant or ex-Participant, the Executive Board may, in its sole discretion, take into account, among other things, the following:

        (1) The length of participation of a Participant or ex-Participant in the ICRMT;

        (2) The total contributions paid by the Participant or ex-Participant over its participation term; and

        (3) The total incurred losses suffered by the Participant or ex-Participant over its participation term; and

        (4) The length of time since an ex-Participant's voluntary termination of participation in the ICRMT.

15. **Executive Board Duties**: It shall be the responsibility and duty of the Executive Board:

    (a) Trust Administrator: To employ and set rates of compensation for an independent Trust Administrator who shall, as set forth herein, be responsible for the ICRMT's safety engineering, loss control and general administration;

(b) Third-Party Administrator: To employ and set rates of compensation for an independent Third-Party Administrator who shall, as set forth herein, be responsible for the ICRMT's claims administration and risk data reporting;

(c) Trust Accountant: To employ and set rates of compensation for an independent Trust Accountant who, at the direction of the Executive Board and its Treasurer, shall be responsible for the ICRMT's financial matters, including the collection of Participants' current and delinquent accounts, premiums, contributions, assessments and penalties, along with the ICRMT's financial records, books of account, statements and reports;

(d) Sales Agents: To set rates of compensation as a percentage of premium contributions to be paid to sales agents representing Participants;

(e) Collections: To direct the Trust Administrator and the Trust Accountant in the collection of delinquent accounts resulting from any unpaid premiums, assessments or penalties;

(f) Insurance: With the advise, assistance and direction of the Trust Administrator, to obtain excess liability insurance coverage and reinsurance, both specific and aggregate, for the coverages provided under this agreement from time to time, along with errors and omissions and director and officers liability coverage for the ICRMT and its Executive Board, Trustees (as hereinafter defined) and officers, with insurance companies acceptable to the Executive Board, in amounts, if any, considered adequate to cover the liabilities of the ICRMT and its Executive Board, Trustees and officers, and to keep and maintain such insurance coverage in full force and in effect at all times;

(g) Fidelity Bonds: To obtain, at the ICRMT's expense, fidelity bonds coverage for each Trustee who has any responsibility for finances of the ICRMT, in an amount, if any, considered sufficient to protect the ICRMT against the loss, misappropriation or misuse of any assets of the ICRMT.

(h) Audits: At least annually, to cause its books and accounts, including those of the Trust Administrator, Third-Party Administrator and Sponsor (as herein after defined) if any, as respects the ICRMT, to be audited by an independent accounting firm, to comply with the requirements of state and federal law with respect to such audits and to make the results of such audits available to each Participant;

(i) Accounts: To open and maintain such accounts, and to establish such controls, as the Executive Board deems necessary or advisable for the operation of the ICRMT in accordance with generally accepted financial, accounting and investment guidelines and principals; and

(j) Additional Duties: To take such other actions as it deems necessary or advisable to the accomplishment of the purposes of this Agreement.

16. **Executive Board Powers:** The Executive Board, as representatives of the Trustees, shall have all powers requisite to the accomplishment of the purposes of this Agreement, including, without being limited to, the following powers:

(a) Employment: To employ agents, employees and independent contractors as deemed necessary or advisable to carry out its duties as set forth in this Agreement;

(b) Lease of Purchase: To lease real property and to purchase or lease equipment, machinery or personal property as deemed necessary or advisable to accomplish the purposes of this Agreement.

(c) Contracts: To make and enter into contracts as deemed necessary or advisable to accomplish the purposes of this Agreement, including without being limited:

(1) Claims management and administration services including the defense of and settlement of claims;
(2) Data processing services for the accounting and claims reporting needs of the Participants;
(3) Independent audit by a public accounting firm;
(4) Independent actuary services;
(5) Investment consultation; and
(6) Additional services and activities as deemed necessary or advisable to accomplish the purpose of this Agreement.

17. **Participants' Obligations:** Each Participant agrees to abide by any rules and regulations which are promulgated by the Executive Board for the administration of the CIRMT, which shall include, but not be limited to, the following:

(a) Safety Program: Each Participant agrees to initiate and maintain a safety program reasonably calculated to prevent or reduce claims or losses within the scope of coverage of this Agreement, and to follow the general recommendations of the ICRMT, its Executive Board, the Trust Administrator and their duly authorized agents and representatives to promote the effectiveness of such safety program. Each Participant, however, shall remain solely responsible for all decisions concerning its safety program and practices and may not rely upon evaluations or recommendations made by the ICRMT, it's Executive Board, the Trust Administrator or their duly authorized agents and representatives in making the final decisions concerning such Participant's safety program and practices.

(b) Potential Claims: A Participant shall immediately report to the Third Party Administrator all incidents which could result in the ICRMT being required to consider a claim or a loss within the scope of coverage provided by this Agreement.

(c) Tender of Claims: If a claim is made or suit or other proceeding is brought against a Participant, the Participant shall immediately forward to the Third Party Administrator every demand, notice, summons or other process received.

(d) Cooperation: Each Participant shall cooperate with the Third Party Administrator and upon the request of the Executive Board, Trust Administrator, Third Party Administrator or their duly authorized agents or representatives, shall attend hearings and trials and shall assist in

effective settlements, securing and giving evidence, obtaining the attendance of witnesses and otherwise cooperate in the conduct of suits, hearings or proceedings.

(e) No Voluntary Payment: A Participant shall not, except at its own cost, which shall not be reimbursed by the ICRMT, voluntarily make any payment, assume any obligation or incur any expense other than for such immediate medical and other services at the time of the Occurrence as are required by law.

(f) Payment: Each Participant shall make prompt payment of all contributions, premiums and assessment as required under this Agreement. All late payments shall bear interest until paid at an annual rate equal to the lesser of 10% or the highest rate allowed by Illinois law.

(g) Subrogation: Each Participant agrees that in the event of the payment of any claims, losses, damages, settlement, defense costs or other amounts (collectively "Claims Expenses") by the ICRMT under this Agreement, the ICRMT shall be subrogated to the extent of such payment to all rights of the Participant against any first or third party insurer, person or other entity legally responsible for payment of said Claims Expenses, and in such event, the Participant hereby agrees to render all reasonable assistance, other than pecuniary assistance, to effect recovery. Participant further agrees to do nothing to prejudice the ICRMT's right to such subrogation.

(h) Payroll Audit: Each Participant with workers' compensation and related coverages under this Agreement shall furnish to the Trust Administrator the annual payroll figures for each job classification in each benefit period and pay any additional contribution assessed by the Trust Administrator in the event that either (i) the Participant's actual payrolls are greater than were project for purposes of determine its annual contribution, or (ii) any incorrect job classifications used for purposes of determining the Participant's annual contribution resulted in an under-assessment of that contribution amount.

(i) Inspections: The Executive Board, Trust Administrator and any of their duly authorized agents, employees and attorneys, shall be permitted at all reasonable times to inspect Participants' work places, plants, works, machinery and appliances covered by this Agreement, and shall be permitted at all reasonable times and within three years following termination of participation to examine the Participant's books, vouchers, contracts, documents and records of any and every kind which show or tend to show or verify contributions which are payable or were paid to the ICRMT.

18. **Trust Administrator**: The following services shall be provided by the Trust Administrator, its agents or employees:

(a) Safety Engineering and Loss Control

(1) Provision of general loss control education and safety management training.
(2) Assistance of Participants in the development of appropriate loss control programs.

(b) General Administration

(1) Establishment of a rating structure to determine the amount and timing of Participant contributions.
(2) Procurement of excess insurance coverage, both specific and aggregate, and scheduling of the ICRMT's retention.
(3) Billing, collection and auditing of current and delinquent premium contributions, assessments and penalties.
(4) Employment of outside legal and financial counsel for an on behalf of the ICRMT.
(5) Payment of sales commission, determined by the Executive Board from time to time, to sales agents representing Participants.
(6) Attendance at the annual meeting of Trustees and at all regular and special meetings of the Executive Board and the Trustees.
(7) Such other duties and responsibilities as the Executive Board may from time to time delegate to the Trust Administrator.

19. **Third Party Administrator**: The following services shall be provided by the Third Party Administrator, its agents or employees:

(a) Claims Administration

(1) Evaluation and establishment of reserve for claims.
(2) Investigation and adjustment of claims covered under this Agreement.
(3) Supervision of medical treatment of injured claimants.
(4) Negotiation of settlements with claimants.
(5) Participants in the selection and assistance in the supervision of attorneys retained to defend formal claims.
(6) Audit of medical, hospital and miscellaneous expenses prior to making payments.
(7) Subject to Paragraph 20(d) hereof, payment of any final award, judgment or settlement of a claim or loss together with all expenses incurred for investigation, negotiation or defense.
(8) Monitoring of claims for subrogation.
(9) Preparation of regular reports required by excess insurers.
(10) Preparation and filing of reports required by applicable governmental agencies.

(b) Risk Data Reporting

(1) Monitoring the frequency and severity performance of Participants.
(2) Preparation of computerized accident trending and analysis profile.

(c) General Administrator

(1) Such other duties and responsibilities as the Executive Board may from time to time delegate to the Third Party Administrator.

20. **Authority of Third Party Administrator**: Each Participant authorizes the Third Party Administrator, including its agents and employees, to act as attorney-in-fact on behalf of the

Participant with respect to any claim or loss covered under this Agreement, including, without being limited to, the following powers:

(a) Investigation To investigate any and all claims or losses properly reported to the Third Party Administrator;

(b) Settlement To negotiate the settlement of any such claims or losses;

(c) Defense To employ attorneys for defense of any such claim or loss whenever contest is required or deemed advisable; and

(d) Payment To pay on behalf of the Participant or ICRMT any final award, judgment or settlement of a claim or loss together with all expenses incurred for investigation, negotiation or defense; provided that any payment over $10,000 shall be made only upon approval, via co-signature of the check, or the Treasurer of the ICRMT.

21. **Sponsorship:** The United Counties Council of Illinois shall act as Sponsor to provide certain services, facilities and staff deemed necessary or advisable to the accomplishment of the purposes of this Agreement, all as determined from time to time by the Executive Board.

22. **Trustees**: The following provisions shall apply to Trustees under this Agreement:

(a) Appointment: Each Member, by the Chairman of the Member's County Board, shall appoint from time to time a representative ("Trustee") of the Member to the ICRMT. In addition, the then acting Sponsor, if any, shall appoint from time to time a Trustee as the Sponsor's representative to the ICRMT.

(b) Annual Meetings: The annual meeting of the Trustees shall be held each year at such time and place as the Executive Board may designate for the purpose of electing Executive Board members and for such other business as may properly be brought before the meeting.

(c) Election of Executive Board: At their annual meeting the Trustees shall elect from among themselves an Executive Board consisting of the number of Trustees specified in Paragraph 23(b) hereof, provided that if the ICRMT has a then acting Sponsor, the Trustees shall elect one less Executive Board member and the final Executive Board member shall be the Sponsor's Trustee.

(d) Special Meetings: Special meetings of the Trustees may be called by either the Chairman of the Executive Board, the Executive Board or not less than 40% of the Trustees.

(e) Notice of Meetings: Notice stating the place, date and hour of the meeting and, in the case of a special meeting, the purpose or purposes for which the meeting is called, shall be delivered not less than ten nor more than 60 days before the date of the meeting, either personally or by mail, by or at the direction of the person or persons calling the meeting, to each Trustee of record entitled to vote at such meeting. If mailed, such notice shall be deemed to be delivered when deposited in the Untied States mail addressed to the Trustee at his or her

address as it appears on the records of the ICRMT, with postage thereon prepaid. The attendance of a Trustee at any meeting shall constitute a waiver of notice of such meeting, except where a Trustee attends a meeting for the express purpose of objecting to the transaction of any business because the meeting is not lawfully called or convened. When a meeting is adjourned to another time or place, notice of the adjourned meeting need not be given if the time and place thereof are announced at the meting at which the adjournment is taken.

(f) Fixing Record Date: For the purpose of determining the Trustees entitled to notice of or to vote at any meeting of Trustees, the date on which notice of the meeting is mailed shall be the record date for such determination of Trustees. A determination of Trustees shall apply to any adjournment of the meeting.

(g) Quorum: A majority of the Trustees entitled to vote on a matter, represented in person or by proxy, shall constitute a quorum for consideration of such matter at any meeting of Trustees. Withdrawal of Trustees from any meeting shall not cause failure of a duly constituted quorum at that meeting. If less than a majority of the Trustees are represented at said meeting, a majority of the Trustees so represented may adjourn the meeting at any time without further notice.

(h) Manner of Acting: The affirmative vote of the majority of the Trustees represented at a meeting at which a quorum is present shall be the act of the Trustees, unless the vote of a greater number is required by this Agreement or law. At any adjourned meeting at which a quorum shall be present, any business may be transacted at the original meeting.

(i) Proxies: Each Trustee may appoint to vote or otherwise act for him or her by signing an appointment form and delivering it to the person or appointed, but no such proxy shall be valid after three months from the date of its expiration, unless otherwise provided in the proxy.

(j) Voting: Each Trustee shall be entitled to one vote in each matter submitted to vote at a meeting of Trustees. Each Trustee may vote either in person or by proxy as provided herein.

(k) Vacancies: To the position of Trustee shall be filled by an appointment from the effected Member's County Board Chairman or the Sponsor, as the case may be.

(l) Informal Action: Any action required to be or which may be taken at a meeting of the Trustees may be taken without a meeting and without a vote, if a consent in writing setting forth the action so taken shall be signed (i) if five days' prior notice of the proposed action is given to all the Trustees entitled to vote with respect to the subject matter thereof, by not less than the minimum number of Trustees that would be necessary to authorize or take such action at a meeting at which all Trustees entitled to vote thereon were present and voting, or (ii) by all the Trustees entitled to vote with respect to the subject matter thereof. Prompt notice of the taking of the information action without a meeting by less than unanimous written consent shall be given to those Trustees who have not consented in writing.

(m) Voting by Ballot: Voting on any question or in any election may be by voice unless the presiding officer shall order or any Trustee shall demand that voting be by ballot.

(n) Presiding Officers: Meetings of the Trustees shall be presided over by the Chairman of the Executive Board or his designee. The Secretary of the Executive Board shall act as secretary of the meeting.

(o) Compensation and Expense: The Trustees shall serve without compensation, but, by resolution of the Executive Board, the Trustees may be paid their expenses, if any, of attendance at each meeting of the Trustees to the extent permitted by law.

(p) Presumption of Asset: A Trustee who is present at a meeting of the Trustees at which action on any ICRMT matter is taken shall be conclusively presumed to have assented to the action taken unless his or her dissent shall be entered in the minutes of the meeting or unless he or she shall file his or her written dissent to such action with the person acting as the secretary of the meeting before the adjournment thereof or shall forward such dissent by registered or certified mail to the secretary of the ICRMT immediately after the adjournment of the meeting. Such right to dissent shall not apply to a Trustee who voted in favor of such action.

23. **Executive Board:** The following provisions shall apply to Executive Board members under this Agreement:

(a) General Powers: The business of the ICRMT shall be managed by or under the direction of its Executive Board.

(b) Number/Tenure/Qualifications: The number of Executive Board members shall be seven. Each Executive Board member (other than the Sponsor's Trustee, if any, whose term of office is not subject to election) shall hold office until the third annual meeting of Trustees following his most recent election, or until his successor shall have been elected and qualified, whichever is longer, provided that the Executive Board members' terms shall be staggered so that approximately one-third of the Executive Board members may be increased or decreased from time to time by the amendment of this Agreement, but no decrease shall have the effect of shortening the term of any incumbent Executive Board member.

(c) Regular Meetings: The first regular quarterly meeting of the Executive Board shall be held each year at such time and place as the Executive Board may designate. The Executive Board may provide, by resolution, the time and place for holding of any additional regular quarterly meetings without other notice than such resolution.

(d) Special Meetings: Special meetings of the Executive Board may be called by either the Chairman of the Executive Board, the Executive Board or not less than 40% of the Executive Board members.

(e) Notice of Special Meetings: Notice stating the place, date and hour of any special meeting shall be delivered not less than ten nor more than 60 days before the date of the meeting, either personally or by mail, by or at the direction of the person or persons calling the

meeting, to each Executive Board member. If mailed, such notice shall be deemed to be delivered when deposited in the United States mail addressed to the Executive Board member at his or her address as it appears on the records of the ICRMT, with postage thereon prepaid. The attendance of an Executive Board member at any meeting shall constitute a waiver of notice of such meeting, except where an Executive Board member attends a meeting for the express purpose of objecting to the transaction of any business because the meeting is not lawfully called or convened. When a meeting is adjourned to another time or place thereof are announced at the meeting at which the adjournment taken. Neither the business to be transacted at, not the purpose of, any regular or special meeting of the Executive Board need to be specified in the notice or waiver of notice of such meeting.

(f) Quorum: A majority of the Executive Board members fixed by this Agreement, represented in person or by proxy, shall constitute a quorum for transaction of business at any meeting of the Executive Board. Withdrawal of Executive Board members from any meeting shall not cause failure of a duly constituted quorum at that meeting. If less than a majority of such number of Executive Board members are represented at said meeting, a majority of the Executive Board members so represented may adjourn the meeting at any time without further notice.

(g) Manner of Acting: The affirmative vote of the majority of the Executive Board members present at a meeting at which a quorum is present shall be the act of the Executive Board, unless the vote of a greater number is required by this Agreement or law. At any adjourned meeting at which a quorum shall be present, any business may be transacted which might have been transacted at the original meeting.

(h) Proxies: Each Executive Board member may appoint a proxy to vote or otherwise act for him or her by signing an appointment form and delivering it to the person so appointed, but no such proxy shall be valid after three months from the date of its execution, unless otherwise provided in the proxy.

(i) Voting: Each Executive Board member shall be entitled to one vote in each matter submitted to vote at a meeting of the Executive Board. Each Executive Board member may vote either in person or by proxy as provided herein.

(j) Vacancies: Any vacancy on the Executive Board (other than the Sponsor's Executive Board member, if any) shall be filled by election to the remaining term at the next annual or special meeting of Trustees. A majority of the remaining Executive Board members shall elect a Trustee to fill any such vacancy prior to such annual or special meeting of Trustees.

(k) Resignation and Removal: Any Executive Board member may resign at any time upon notice to the Executive Board. An Executive Board member may be removed, with or without cause, by a majority of Trustees if the notice of the meeting named the Executive Board member or Executive Board members to be removed at said meeting.

(l) Informal Action: Any action required to be or which may be taken at a meeting of the Executive Board may be taken without a meeting and without a vote, if a consent in writing

setting forth the action so taken shall be signed (i) if five days' prior notice of the proposed action is given to all of the Executive Board members entitled to vote with respect to the subject matter thereof, by not less than the minimum number of Executive Board members that would be necessary to authorize or take such action at a meeting at which all Executive Board members entitled to vote thereon were present and voting, or (ii) by all of the Executive Board members entitled to vote with respect to the subject matter thereof. Prompt notice of the taking of the informal action without a meeting by less than unanimous written consent shall be given to those Executive Board members who have not consented in writing.

(m) Voting by Ballot: Voting on any question or in any election may be by voice unless the presiding officer shall order or any Executive Board member shall demand that voting be by ballot.

(n) Compensation and Expenses: The Executive Board shall serve without compensation, but, by resolution of the Executive Board, the Executive Board members may be paid their expenses, if any, of attendance at each meeting of the Executive Board or Trustees to the extent permitted by law.

(o) Presumption of Assent: An Executive Board member who is present at a meeting of the Executive Board at which action on any ICRMT matter is taken shall be conclusively presumed to have assented to the action taken unless his or her dissent shall be entered in the minutes of the meeting or unless he or she shall file his or her written dissent to such action with the person acting as the secretary of the meeting before the adjournment thereof or shall forward such dissent by registered or certified mail to the secretary of the ICRMT immediately after the adjournment of the meeting. Such right to dissent shall not apply to an Executive Board member who voted in favor of such action.

(p) Committees: The Executive Board may create one or more committees of two or more Executive Board members to exercise appropriate authority of the Executive Board. Any such committee may meet and transact business in the same manner as the Executive Board.

24. **Officers:** The following shall apply to officers of the ICRMT under this Agreement:

(a) Officers: The officers of the CIRMT shall be Chairman, Vice Chairman, Treasurer and Secretary (each of whom must be Executive Board members) and such other officers (each of whom must be Trustees) as may be elected or appointed by the Executive Board. Any two or more officers may be held by the same person.

(b) Election and Term of Office: The officers of the ICRMT shall be elected annually by the Executive Board at the first meeting of the Executive Board held after each annual meeting of Trustees. If the election of officers shall not be held at such meeting, such election shall be held as soon thereafter as conveniently may be. Vacancies may be filled or new offices created and filled at any meeting of the Executive Board. Each officer shall hold office until his successor shall have been elected and qualified.

(c) Resignation and Removal: Any officer may resign at any time upon notice to the Executive Board. Any officer may be removed by the Executive Board whenever in its judgment the best interests of the ICRMT would be served thereby.

(d) Chairman: The Chairman shall preside at all meetings of the Executive Board and Trustees and perform the usual duties of the Chairman. The Chairman, alone or together with such other officer or officers as the Executive Board may designate by resolution, may sign any contract or other instrument which the Executive Board has authorized to be executed; and, in general, the Chairman shall perform all duties incident to the office of Chairman and such other duties as may be prescribed by the Executive Board from time to time.

(e) Vice Chairman: In the absence of the Chairman, or in the event of his or her inability or refusal to act, the Vice Chairman shall perform the duties of the Chairman. Whenever and so long as the ICRMT has an acting Sponsor, this office shall not be elected, but shall be filled by the Sponsor's Trustee.

(f) Treasurer: The Treasurer shall: (i) be responsible for all funds and securities of the ICRMT; (ii) see that accurate records are kept of all receipts and disbursements; (iii) verify that all deposits are made in the name of the ICRMT and that all securities and other valuable assets are in the name of the ICRMT insuch depositories as designated by the Executive Board; (iv) oversee the disbursement of claim funds, expenses of operating the ICRMT and other disbursements as ordered by the Executive Board, making sure proper vouchers have been issued; and (v) render to the Executive Board, at each regular meeting and whenever requested by it, an account of the financial condition of the ICRMT.

(g) Secretary: The Secretary shall: (i) attend all meetings of the Executive Board and Trustees; (ii) give all notices required by this Agreement, resolution of the Executive Board or law; and (iii) perform such other duties as may be delegated to him or her by the Executive Board.

(h) Other Officers: Other officers elected or appointed by the Executive Board shall perform such duties as may be prescribed by the Executive Board from time to time.

25. **Limitation of Participant Liability:** Except to the extent of the limited contributions to be paid to the ICRMT in accordance with the terms hereof, no Participant shall be responsible for any defense or losses of, or claims against, any other Participant. This Agreement establishes a joint self-insurance trust which limits liability of its Participants to those claims and losses which are within the scope of the coverages provided herein and does not create as between Participants any relationship of surety, indemnification or responsibility for the debts of or claims against any Participant.

26. **Exculpation:** The Trustees and Executive Board shall use ordinary care and reasonable diligence in the exercise of their authority and in the performance of their duties under this Agreement. They shall not be liable for any mistake of judgment or other action made, taken or omitted by them in good faith; nor for any action made, taken or omitted by any agent, employee or independent contractor selected with reasonable care; nor for loss incurred through reasonably prudent investment of ICRMT funds. No Trustee or Executive Board member shall be liable for

any action taken or omitted by any other Trustee or Executive Board member. No Trustee or Executive Board member shall be required to give a bond or other security to guarantee the faithful performance of his or her duties hereunder except as required by this Agreement or by law. The ICRMT shall defend, indemnify and hold harmless any Trustee or Executive Board member for actions taken by the Trustee or Executive Board member within the scope of his or her authority.

27. **Fiscal Year:** The Fiscal Year of the ICRMT shall begin on the 1st day of December and shall end on the 30th day of November of the following year.

28. **Notice:** Any notice required by this Agreement shall be in writing and shall be sufficient if delivered personally or by depositing the same in the United States mail, addressed to the person to be notified at his or her address as it appears on the records of the ICRMT, with postage thereon prepaid; provided that any notice pursuant to Paragraph 7 hereof that is mailed shall be sent by certified or registered mail, return receipt requested. If mailed notice shall be deemed to have been given on the date of mailing.

29. **Amendment:** This Agreement may be amended, altered, changed, added to or repealed at any regular or special meeting of the Executive Board by an affirmative vote of at least two-thirds of all the members of the Executive Board. Any proposed alteration, change, addition, amendment or repeal of this Agreement shall be mailed to each Executive Board member not less than ten days before such meeting; provided that an Executive Board member's vote or written consent in favor of any such alteration, change, addition, amendment or repeal shall constitute a waiver of notice of such proposed action. Each Trustee and Associate's representative shall be furnished with a copy of any changes made to this Agreement.

30. **No assignment:** No Participant may assign any right, claim or interest it may have under this Agreement, and no creditor, assignee or third party beneficiary of any Participant shall have any right, claim or title to any part, share, interest, funds, premiums or assets of the ICRMT.

31. **Severability:** Should any portion, term, condition or provision of this Agreement be determined by a court of competent jurisdiction to be invalid under any law of the State of Illinois or be otherwise rendered unenforceable or ineffectual, the validity of the remaining portions, terms, conditions and provisions shall not be affected thereby.

32. **Complete Agreement**: The foregoing constitutes the full and complete Agreement of the parties hereto. There are no oral understandings or agreements not set forth in writing herein.

33. **Termination**: This agreement may be terminated at any annual or special meeting of the Trustees by an affirmative vote of at least two-thirds of all of the Trustees. Remaining assets after the payment of all claims and expenses and establishment of necessary reserves shall be distributed as a divided in accordance with the terms hereof.

34. **Governing Law**: This Agreement shall be interpreted in accordance with and be enforceable pursuant to the laws of the State of Illinois.

35. **Headings**: The paragraph headings contained herein are for the convenience of the parties only and are not intended to define or limit the contents of said paragraph.

36. **Pronouns**: All pronouns used in this Agreement shall be deemed to include masculine, feminine and neuter and the plurals shall be deemed to include the singular and the singular the plural whenever necessary or appropriate to effect the intent of this Agreement.

37. **Counterparts**: This Agreement may be executed in two or more counterparts, each of which shall be deemed to be an original and all of which when taken together shall constitute a single instrument.

38. **Binding Effect**: The terms and conditions of this Agreement shall be binding upon and shall inure to the benefit of the proper assigns and successors of the parties, including, without limitation, the successors to the signatory officials of the Participant named below.

39. **Rights and Remedies Upon Termination**: The termination of this Agreement for any reason shall not affect any right or remedy existing hereunder prior to the effective date of termination hereof."

In all other respects, the Executive Board, on behalf of the Participants, confirms the Illinois Counties Risk Management Trust, as previously amended, reserving to itself the right further to amend or revoke the same and any amendment thereto.

Signed as of the 23rd day of September, 1996, by the duly authorized representatives of the Illinois Counties Risk Management Trust Executive Board

ILLINOIS COUNTIES RISK
MANAGEMENT TRUST

ATTEST:

By: **ORIGINAL SIGNATURES ON FILE**
Dick Erickson, ICRMT Secretary

By: **ORIGINAL SIGNATURES ON FILE**
Paul P. Hamrock, Executive Board Chairman

FOURTH AMENDMENT TO THE
ILLINOIS COUNTIES RISK MANAGEMENT TRUST

On or about January 1, 1983, certain Illinois counties entered into an Agreement for Membership - Illinois Counties Risk Management Trust ("Agreement").

On November 15, 1993, the Agreement was amended and restated in its entirety.

On October 24, 1994, the Agreement was further amended.

On September 23, 1996, the Agreement was further amended and restated in its entirety.

The Executive Board, on behalf of the Participants, and upon resolutions duly adopted, hereby further amends the Agreement, as amended and restated, as follows:

1. Paragraph 13 entitled "Special Assessments" is hereby amended by adding the following thereto:

> "Notwithstanding the foregoing, the Executive Board shall make no special assessments pursuant to the provisions of this paragraph for any Fiscal Year of the ICRMT beginning after November 30, 1999."

In all other respects the Executive Board, on behalf of the Participants, confirms the Illinois Counties Risk Management Trust, as amended and restated on September 23, 1996, reserving to itself the right further to amend or revoke the same and any amendment thereto.

Signed as of the 28th day of June, 1999, by the duly authorized representatives of the Illinois Counties Risk Management Trust Executive Board.

ATTEST:

SIGNATURE ON FILE
Eva Lynn, Secretary

ILLINOIS COUNTIES RISK
MANAGEMENT TRUST

SIGNATURE ON FILE
Dick Erickson, Executive Board Chairman

FIFTH AMENDMENT TO THE
ILLINOIS COUNTIES RISK MANAGEMENT TRUST

On or about January 1, 1983, certain Illinois counties entered into an Agreement for Membership - Illinois Counties Risk Management Trust ("Agreement").

On November 15, 1993, the Agreement was amended and restated in its entirety.

On October 24, 1994, the Agreement was further amended.

On September 23, 1996, the Agreement was further amended and restated in its entirety.

On June 28, 1999, the Agreement was further amended.

The Executive Board, on behalf of the Participants, and upon resolutions duly adopted, hereby further amends the Agreement, as amended and restated, as follows:

1. Paragraph 22(c) entitled "Election of Executive Board" is hereby amended by adding the following thereto:

> "A Trustee must be the appointed representative of a Member who is a current participant in both the ICRMT's Property and Casualty Insurance Program and the ICRMT's Workers Compensation Program to be eligible to serve on the Executive Board."

In all other respects the Executive Board, on behalf of the Participants, confirms the Illinois Counties Risk Management Trust, as amended and restated on September 23, 1996 and amended on June 28, 1999, reserving to itself the right further to amend or revoke the same and any amendment thereto.

Signed as of the22nd day of January, 2001, by the duly authorized representatives of the Illinois Counties Risk Management Trust Executive Board.

ATTEST:

ILLINOIS COUNTIES RISK MANAGEMENT TRUST

SIGNATURE ON FILE
Eva Lynn, Secretary

SIGNATURE ON FILE
Dick Erickson, Executive Board Chairman

SIXTH AMENDMENT TO THE
ILLINOIS COUNTIES RISK MANAGEMENT TRUST

On or about January 1, 1983, certain Illinois counties entered into an Agreement for Membership - Illinois Counties Risk Management Trust ("Agreement").

On November 15, 1993, the Agreement was amended and restated in its entirety.

On October 24, 1994, the Agreement was further amended.

On September 23, 1996, the Agreement was further amended and restated in its entirety.

On June 28, 1999, the Agreement was further amended.

On January 22, 2001, the Agreement was further amended.

The Executive Board, on behalf of the Participants, and upon resolutions duly adopted, hereby further amends the Agreement, as amended and restated, as follows:

1. Paragraph 12 entitled "Annual Contribution Payment" is hereby amended by deleting it in its entirety and inserting the following language in lieu thereof:

> "12. Annual Contribution Payment. The annual contribution of each Participant, as determined above, shall be paid within thirty days after the effective date of its coverage. The Executive Board, however, has authority on behalf of the ICRMT, either directly or through a third party, to extend credit to a Participant on such terms and conditions as the Executive Board deems reasonable within its sole discretion. The failure of a Participant to pay any amount when due shall subject a Participant to termination from the ICRMT as provided in Paragraph 7 hereof".

2. Paragraph 17(f) entitled "Payment" is hereby amended by deleting it in its entirety and inserting the following language in lieu thereof:

> "17. (f) Payment. Each Participant shall make prompt payment of all contributions, premiums and assessments as required under this Agreement, except to the extent that credit is extended to such Participant pursuant to Paragraph 12 here. All late payments shall bear interest until paid at an annual rate equal to the lesser of 10% or the highest rate allowed by Illinois law."

In all other respects the Executive Board, on behalf of the Participants, confirms the Illinois Counties Risk Management Trust, as amended, reserving to itself the right further to amend or revoke the same and any amendment thereto.

Signed as of the 29th day of July, 2003, by the duly authorized representatives of the Illinois Counties Risk Management Trust Executive Board.

	ILLINOIS COUNTIES RISK
ATTEST:	MANAGEMENT TRUST
SIGNATURE ON FILE	SIGNATURE ON FILE
Eva Lynn, Secretary	Dick Erickson, Executive Board Chairman

SEVENTH AMENDMENT TO THE
ILLINOIS COUNTIES RISK MANAGEMENT TRUST

On or about January 1, 1983, certain Illinois counties entered into an Agreement for Membership - Illinois Counties Risk Management Trust ("Agreement").

On November 15, 1993, the Agreement was amended and restated in its entirety.

On October 24, 1994, the Agreement was further amended.

On September 23, 1996, the Agreement was further amended and restated in its entirety.

On June 28, 1999, the Agreement was further amended.

On January 22, 2001, the Agreement was further amended.

On July 29, 2003, the Agreement was further amended.

The Executive Board, on behalf of the Participants, and upon resolutions duly adopted, hereby further amends the Agreement, as amended and restated, as follows:

1. Paragraph 14 entitled "Dividends" is hereby amended by deleting in its entirety and inserting the following language in lieu thereof:

"14. Dividends. The following provision shall apply to the declaration, limitation on amount, eligibility, allocation, and issuance of dividends under this Agreement:

(a) Declaration: The ICRMT Executive Board may, in its sole discretion, declare a dividend for any 12 month period ending November 30 (each, a "Dividend Period") provided that each of the following conditions has been met:

(i) As of the date of declaration of the dividend, the combined assets of the ICRMT, as determined by the Independent Trust Accountant pursuant to the most recent annual audited financial statement of the ICRMT, have a value in excess of the greater of (a) the ICRMT's total liabilities, including actuarially required reserves, or (b) the minimum levels established by the ICRMT Funding Policy or other similar financial guidelines, if any, then in effect applicable to declaration of dividends.

(ii) The Executive Board determines based on the advice of the Trust Administrator or Third Party Administrator that (a) all open claims applicable to the Dividend Period have been thoroughly reviewed and properly reserved for, in accordance with generally accepted reserving practices and the known facts of each such claim, and (b) a reasonable

factor for IBNR (incurred but not reported) claims has been applied against the losses for the Dividend Period.

(iii) The Dividend Period has resulted in a 'profit" to the ICRMT, as determined by the Trust Administrator in consultation with the Independent Trust Accountant. For purposes of this provision, a "profit" occurs when for such Dividend Period the total amount of all ICRMT revenues exceeds the sum of (a) the total amount of all ICRMT expense, plus (b) the total amount of all losses incurred by the ICRMT (including but no limited to: losses from investments, claims and claims Expense payments, loss reserves and the application of any applicable loss development factor) net of any insurance available to the ICRMT for such losses.

(iv) There has been an increase to the ICRMT Policyholder Surplus pursuant to the most recent annual audited financial statement for the ICRMT; provided, however, that in the event of a 10% or less reduction to the ICRMT Policyholder Surplus pursuant to the most recent annual audited financial statement for the ICRMT, the Executive Board can declare a dividend notwithstanding, but only if (a) the Trust Administrator recommends that declaration of a dividend is still appropriate based on the overall financial condition of the ICRMT, and (b) each of the other conditions set out in this Section for declaration of a dividend has been met.

(v) No dividend or any part thereof shall be declared for any Dividend Period if either (a) less than 36 months, or (b) more than 72 months have elapsed subsequent to the end of such Dividend Period, except in the event that a divided cannot be declared for that Dividend Period prior to 72 months solely as the result of the ICRMT's failure to meet condition (a)(iv) above.

(b) Limitation on Amount: Declaration and issuance of dividends shall be limited as follows:

(i) The maximum amount of a declared dividend shall be limited to the amount by which the combined assets of the ICRMT exceed the greater of (a) the ICRMT's total liabilities, including actuarially required reserves [pursuant to the most recent annual audited financial statement for the ICRMT, or (b) the minimum levels established by the ICRMT Fund Policy or other similar financial guideless, if any, then in effect applicable to declaration of dividends.

(ii) In the event that the Executive Board declared a dividend for any Dividend Period less than 60 months subsequent to the expiration of such Dividend Period, such dividend shall be issued as follows:

(aa) For any dividend declared at least 36 months but less than 48 months subsequent to the expiration of the Dividend Period, a partial dividend shall be issued for such Dividend Period, which shall not exceed 25% of the amount determined to be otherwise available for such dividend. Thereafter, the remainder of such dividend may be paid subject to any recalculation based on criteria set forth in this Paragraph 14 for declaration, limitation on amount, eligibility, allocation, and issuance of dividends, as follows: (1) at least 48 months but less than 60 months subsequent to the expiration of the Dividend Period, a further partial dividend may be issued for such Dividend Period which, combined with any partial dividend which may have been previously issued for the Dividend Period, shall not exceed 62.5% of the amount then determined to be otherwise available for such dividend, and (2) at least 60 months subsequent to the expiration of the Dividend Period, the full remainder of the amount then determined to be otherwise available for such dividend may be issued.

(bb) For any dividend declared at least 48 months but less than 60 months subsequent to the expiration of the Dividend Period, a partial dividend shall be issued for such Dividend Period which shall not exceed 62.5% of the amount determined to be otherwise available for such dividend. Thereafter, the remainder of such dividend may be paid subject to any recalculation based on criteria set forth in this Paragraph 14 for declaration, limitation on amount, eligibility, allocation, and issuance of dividends as follows: at least 60 months subsequent to the expiration of the Dividend Period, the full remainder of the amount then determined to be otherwise available for such dividend may be issued.

(c) Eligibility: In order to qualify for a declared dividend, a Participant must meet each of the follows qualifications:

(i) The Participant must have been and remain a Participant in good standing in the ICRMT during the entire time from the first day of the Dividend Period through and including the date that the applicable dividend or partial dividend for such Dividend Period is issued, without interruption.

(ii) The Participant's total premium contributions to the ICRMT for the Dividend Period must exceed for such period the sum of (a) Participant's total share of ICRMT expenses plus (b) Participant's total incurred losses (including reserves for claims and claims expense and the application of any loss development factor), each as determined by the Trust Administrator.

(d) Allocation: Declared dividends shall be allocated and issued to each Participant which meets all of the Eligibility Requirements set forth in © above, calculated on a pro rata basis taking into account each Participant's (a) premium contributions, (b) share of the ICRMT expenses, (c) total incurred losses (including reserves for claims and claims expenses and the application of any loss development factor) and (d) self insured retentions or deductibles, in each case attributable to the Dividend Period, as determined by the Trust Administrator.

(e) Issuance: Dividends shall be issued to eligible Participants on the date determined by the Executive Board; provided, however, that no dividend shall be issued to any Participant which has, as of the date of issuance, an overdue balance of any kind, including but no limited to amounts due the ICRMT for premium, audits, deductibles or self0insured retentions, but not including amounts subject to an authorized ICRMT payment or finance plan, which are not in default. Notwithstanding, at its discretion, the ICRMT shall have the right to offset any balance of any kind due from a Participant against any dividend or part thereof which is to be issued to such Participant".

In all other respects the Executive Board, on behalf of the Participants, confirms the Illinois Counties Risk Management Trust, as amended, reserving to itself the right further to amend or revoke the same and any amendment thereto.

Signed as of the 25th day of October, 2007, by the duly authorized representatives of the Illinois Counties Risk Management Trust Executive Board.

ATTEST:

ILLINOIS COUNTIES RISK MANAGEMENT TRUST

ORIGINAL SIGNATURE ON FILE
Eva Lynn, Secretary

ORIGINAL SIGNATURE ON FILE
Dick Erickson, Executive Board Chairman

EIGHTH AMENDMENT TO THE
ILLINOIS COUNTIES RISK MANAGEMENT TRUST

On or about January 1, 1983, certain Illinois counties entered into an Agreement for Membership - Illinois Counties Risk Management Trust ("Agreement").

On November 15, 1993, the Agreement was amended and restated in its entirety.

On October 24, 1994, the Agreement was further amended.

On September 23, 1996, the Agreement was further amended and restated in its entirety.

On June 28, 1999, the Agreement was further amended.

On January 22, 2001, the Agreement was further amended.

On July 29, 2003, the Agreement was further amended.

On October 25, 2007, the Agreement was further amended.

The Executive Board, on behalf of the Participants, and upon resolutions duly adopted, hereby further amends the Agreement, as amended and restated, as follows:

1. Paragraph 5(b) entitled "Associate Status" is hereby amended by deleting it in its entirety and inserting the following language in lieu thereof:

> (b) Associate Status. To be an Associate, be an Illinois Local Public Entity (other than an Illinois county). For purposes of this Agreement, "Illinois Local Public Entity" shall include a county, township, municipality, municipal corporation, school district, school board, educational service region, regional board of school trustees, trustees of schools of townships, treasurers of schools of townships, community college district, community college board, forest preserve district, park district, fire protection district, sanitary district, museum district, emergency telephone system board, and all other local governmental bodies of the State of Illinois.

In all other respects the Executive Board, on behalf of the Participants, confirms the Illinois Counties Risk Management Trust, as amended, reserving to itself the right further to amend or revoke the same and any amendment thereto.

Signed as of the 3rd day of August, 2010, by the duly authorized representatives of the Illinois Counties Risk Management Trust Executive Board.

ATTEST:

ILLINOIS COUNTIES RISK MANAGEMENT TRUST

_____
Eva Lynn, Secretary

By_____
James Griffin, Executive Board Chairman

NINTH AMENDMENT TO THE
ILLINOIS COUNTIES RISK MANAGEMENT TRUST

On or about January 1, 1983, certain Illinois counties entered into an Agreement for Membership – Illinois Counties Risk Management Trust ("Agreement").

On November 15, 1993, the Agreement was amended and restated in its entirety.

On October 24, 1994, the Agreement was further amended.

On September 23, 1996, the Agreement was further amended and restated in its entirety.

On June 28, 1999, the Agreement was further amended.

On January 22, 2001, the Agreement was further amended.

On July 29, 2003, the Agreement was further amended.

On October 27, 2007, the Agreement was further amended.

On August 3, 2010, the Agreement was further amended.

The Executive Board, on behalf of the Participants, and upon resolutions duly adopted, hereby further amends the Agreement, as amended and restated, as follows:

1. Subparagraph (a)(iv) of Paragraph 7 entitled "Termination of Member/Associate's Participation" is hereby amended by deleting it in its entirety and inserting the following language in lieu thereof:

   (iv) after the initial one-year term of ICRMT participation, any Participant may terminate its participation in the ICRMT, effective as to each specific coverage afforded to the Participant under this Agreement by providing written notice of termination of participation not less than ninety (90) days prior to the effective expiration date of such coverage to the Trust Administrator at its principal office with a copy to the Executive Board. Notice required by this provision shall be deemed to have been given when deposited in a United States Post Office and sent by registered or certified mail, postage prepaid, return receipt requested.

2. Subparagraph 7(b) entitled "Effective Date" is hereby amended by deleting it in its entirety and inserting the following language in lieu thereof:

(b) Effective Date. Pursuant to Subparagraphs 7(a)(i), (ii) and (iii), the participation of a Participant shall terminate thirty (30) days after the date notice as above has been provided unless within such thirty-day period the delinquency or failure is cured. Pursuant to Subparagraph 7(a)(iv), the participation of a Participant shall, as to each specific coverage afforded to Participant under this Agreement pursuant to which proper notice has been provided, terminate as to the effective expiration date of such coverage, unless prior to that date the Participant's notice is withdrawn.

In all other respects the Executive Board, on behalf of the Participants, confirms the Illinois Counties Risk Management Trust, as amended, reserving to itself the right further to amend or revoke the same and any amendment thereto.

Signed as of the 23rd day of September, 2019, by the duly authorized representatives of the Illinois Counties Risk Management Trust Executive Board.

ATTEST:

Marc Kiehna, ICRMT Secretary

ILLINOIS COUNTIES RISK MANAGEMENT TRUST

Dave McCabe, Executive Board Chairman

Village of Oak Brook Insurance Program
Preliminary Program Differences

Illinois Counties Risk Management Trust (ICRMT)

- 600+ Members
- Total Annual Contributions over $160M+
- Non-Assessable Insurance Program (members are not charged for other members poor loss experience)

- **Lower cost program**

- **Higher 21 million of liability coverage**
- ICRMT allows their insurance policy to dictate coverage

- Village has **more control on how claims are handled and managed.** Collaborative litigation management (Collaboration between Village of Oak Brook on settlement and defense)
- **Loss Control Services onsite training provided**
- **Plan Customization**-ability to customize retentions based on coverage type
- 97 Million **Blanket Property Coverage**-Free Property Appraisal
- Access independent Risk Advisor- Alliant Public Sector Team
- No restrictive Reserve Policy

Intergovernmental Risk Management Agency (IRMA)

- 70+ Members
- Total Annual Contributions $40M+
- Assessable pool, Village of Oak Brook would be responsible to make payments in addition to its annual obligation to pay premiums if assessed.
- Higher cost program

- **Lower 15 million of liability coverage**
- IRMA has **restrictive pooling agreement** that allows Executive Director authority to deny claims or only pay partial claim
- Claim Handling handled by smaller inhouse claim team

- Loss Control Services, on sight training?
- No Plan Customization- same deductible all lines required

- No Blanket Coverage, **restrictive margin clause**
- No Independent Risk Advisor
- **Restrictive Reserve Policy**-Over 10 years before IRMA will release Village funds

Confidential: This data shall not be disclosed, duplicated, nor used, in whole or in part, for any purpose other than to evaluate this proposal.

Village of Oak Brook Loss Stratification Exhibit- Losses between $25K-$100K					
Policy Year	**General Liability**	**Law Enforcement Liability**	**Public Officials/ Employment Practices**	**Auto Liability**	
11/1/24-11/1/25	$0	$0	$0	$35,000	
11/1/23-11/1/24	$0	$13,750	$150,000	$0	
11/1/22-11/1/23	$0	$0	$0	$0	
11/1/21-11/1/22	$0	$0	$102,424	$0	
11/1/20-11/1/21	$10,990	$0	$0	$0	
11/1/19-11/1/20	$0	$0	$0	$0	
11/1/18-11/1/19	$0	$0	$0	$0	
11/1/17-11/1/18	$0	$0	$0	$0	
11/1/16-11/1/17	$0	$0	$0	$0	
11/1/15-11/1/16	$0	$0	$0	$0	
11/1/14-11/1/15	$0	$0	$0	$0	
Total all Years	**$10,990**	**$13,750**	**$252,424**	**$35,000**	**$312,164**
11 Year Average 11/1/2014-11/1/2025	**$999**	**$1,250**	**$22,948**	**$3,182**	**$28,379**
					Total
* Based on IRMA loss runs valued 03/30/26					

ITEM 8.A.2.
BOARD OF TRUSTEES MEETING
SAMUEL E. DEAN BOARD ROOM
BUTLER GOVERNMENT CENTER
1200 OAK BROOK ROAD
OAK BROOK, ILLINOIS
630-368-5000

AGENDA ITEM

Board of Trustees Special Meeting
of
June 16, 2026

SUBJECT: A Resolution Approving and Authorizing the Award of Contract for a New Aerial Ladder Truck

FROM: Kevin Fleege, Fire Chief

BUDGET SOURCE/BUDGET IMPACT: Vehicle Replacement Fund – 342-90200

RECOMMENDED MOTION: I move that the Village Board approve Resolution R-2364, A Resolution Approving and Authorizing the Award of Contract Pierce Manufacturing, Inc., of Appleton, WI for the Purchase of (1) Pierce Enforcer PUC 107' ASL Tandem Ladder Truck directing staff to issue a purchase order to Pierce Manufacturing, Inc., Appleton, WI in the amount of $2,026,999.00, following the RFP process conducted in April of 2026 and with delivery expected in 47 – 50 months.

Background/History:

With the purchase of the fire department's 2014 105' Pierce ladder truck, the department began to downsize the heavy fleet and combine apparatus functionality to be able to deliver more efficient, cost-effective, and consistent fire and EMS services on a daily basis for the community. Prior to 2014, the department operated four fire engines (two front-line and two reserve), one ladder truck (95' tower ladder), and one heavy rescue squad. Despite staffing levels being slightly higher at the time, there were not enough personnel on duty each day to operate each of the vehicles. Instead, the department operated "jump companies" and depending on what type of call came in, a decision was made on what vehicle personnel took to the incident. This not only led to response time delays and operational inefficiencies, since personnel had to move themselves and their personal protective equipment between vehicles each time a call was dispatched, but also the appropriate apparatus and equipment may have been left behind in the station depending on what was actually found upon indent arrival or what call happened next as compared to the previous incident type. Furthermore, there were increased maintenance, operational, and replacement costs due to the fleet size and cost inefficiencies due to apparatus downtime. Lastly, in the case of the squad and the ladder truck, they were unique pieces of apparatus, carrying specialized rescue equipment, ladders, and each satisfying specific tactical and operational needs, but when they were out of service for maintenance, there were no similar vehicles available in our fleet to meet the needs of the community and therefor the level of service able to be provided to the community declined.

Beginning in 2014, the Village Board approved the replacement of the 95' tower ladder and the department began the process of fleet consolidation. The intent of fleet consolidation was to combine functionality of apparatus and reduce the number of vehicles in the heavy fleet. By purchasing a quint-style ladder truck, the vehicle was specified with a 105' main aerial ladder, a stabilizer spread to fit into our high-life hazard areas such as the Oak Brook Club, a 500-gallon water tank, an extensive hose compliment, and ground ladders to meet the needs of the community. This quint style apparatus was designed with the idea of replacing the existing 95' tower ladder as well as one of the reserve fire engines at the time. Specifically, Oak Brook is unique in that we have houses that in some cases are set back far off the nearest roadway, walk-out style basements, multi-family dwellings with rear balconies not reachable by the main aerial device, and a residential building code that allows the highest elevation of a habitable space to be 32' above grade. These unique community characteristics require a ground ladder complement that includes a 45' ground ladder capable of reaching the 32' above grade opening, set to a proper climbing/rescue angle. Still true today as it was at the time of purchase, this ladder complement is not available through our nearest automatic and mutual aid partners, and outside of Chicago, Oak Brook continues to be one of the few fire departments that carries and operates a ground ladder greater than 35'.

Fleet consolidation continued in 2018 with the purchase of a Pierce rescue style engine. The intent of this apparatus, was to design a piece of equipment that was capable of not only carrying specialized rescue equipment such as vehicle extrication, hazardous materials, and some immediate dive and technical rescue needs, but also carry enough water (1,000 gallons) and hose to address all fire needs including those set back several hundred feet from the nearest fire hydrant or in our limited hydrant roadway areas such as IL-83 and the tollways.

After 2018, our fleet had been reduced to four heavy vehicles, 1 ladder truck, 1 rescue engine, and two fire engines. At that time, although the fleet had been reduced, if the front-line piece of apparatus was out of service for maintenance, the level of service to the community was reduced, and the department risked not being able to meet tactical needs since the reserve apparatus capabilities differed significantly from that of the front-line apparatus (aerial ladder, ground ladders, specialized rescue equipment, etc.). In 2021, the fire department administration at the time intended to correct this issue and received approval from the Village Board to purchase two leased vehicles from Pierce to replace the aging reserve fire engines. With this leased purchase, the new equipment was to be an identical rescue style engine to the 2018 version and a single-axle medium duty tower ladder. At the time, the department administrator felt it was imperative to have a rescue basket-style aerial device and place the 2014 straight stick aerial ladder device into reserve; however, that recommendation was short-sighted. The newer, basket-style aerial ladder is not only incapable of carrying the 45' ground ladder needed in our community as discussed earlier, but it also has a wider overall stabilizer spread (18' v. 14') or (5' v. 3') on each side. Tactically, this can be concerning considering areas of limited access, such as the Oak Brook Club, various commercial properties in town, and the width of some residential driveways.

In addition, the purchase of the apparatus in 2021 compressed our vehicle ages to between three and seven years apart and upset a well-spaced vehicle replacement plan that considers vehicle life expectancy and budgeting spikes due to equipment replacement costs.

In January 2026, the Village Board approved the fire department to go to RFP for this budgeted purchase in FY2026. To my knowledge, this is the first time the Village has gone out to RFP or bid for

purchases related to the department's heavy fleet. These purchases have typically been handled via group purchasing contracts such as HGA or the Northwest Municipal Conference.

Prior to requesting approval for this RFP, the fire department was asked to develop a vehicle replacement plan (attached) that took into consideration vehicle life expectancy, including but not limited to operational costs, part availability, wear and tear, and downtime, lease vs. own benefits, and corrected the spacing between the ages of the apparatus as well as the spacing between "heavy" vehicle purchases due to cost. Moreover, there continues to be a large gap between the date of equipment order vs. the date of equipment delivery. For heavy fleet apparatus, such as ladder trucks, manufacturers currently project delivery four years from the date of order.

With the request to seek approval to go to RFP, the fire department had the following goals:

- Correct vehicle replacement scheduling
- Specify a vehicle that meets the community needs (ground ladder capacity, quint-style apparatus, stabilizer spread considerations, etc.)
- To seek competitive bids from various manufacturers capable of producing the specified vehicle
- To purchase the ladder truck and retain the new vehicles moving forward on a 15-year replacement cycle
    - Due to the increase in interest rates along with the desire to keep the vehicle for 15 years, purchasing appears to be the more cost-effective option
- Upon delivery of the new ladder truck, sell the newer, 2021 Pierce Ascendent Tower Ladder since it does not meet community needs and will likely be valued at a price more advantageous to the Village

The RFP process for the fire department was successful and resulted in proposals from four different manufacturers, with the request reaching at least nine different fire truck manufacturers. Respondents included Emergency One Equipment, KME, Pierce Manufacturing, and Rosenbauer.

MANUFACTURER	PRICE	PRICE WITH SIMILAR OPTIONS	MEETS RFP	REASONS RFP NOT MET
Pierce	$2,026,999.00	n/a	Yes	n/a
Rosenbauer	$1,900,175.00	$1,973,390	No	No local service and overall storage space, due to no PUC.
E-One	$1,840,000.00	$1,895,000	No	Inability to carry 45' ground ladder, cab size, and responsiveness.
KME	$1,790,000	n/a	No	Inability to

	carry 45' ground ladder, no independent suspension, cab size, and responsiveness.

Based on the results of the RFP, Pierce Manufacturing was the only respondent that met the criteria as outlined in the RFP. There is a slightly higher cost between Pierce and the next closest respondent, Rosenbauer, at a difference of $53,609; however, Rosenbauer does not have a local service or warranty dealer. For major repairs or warranty items, the vehicle would need to go to St. Louis, MO. Other smaller repairs are handled by a field technician, but the Village does not have the facilities capable of handling the vehicles in house while repairs are taking place. The difference in cost between Pierce and the lowest proposal is $236,999; however, KME is unable to provide a vehicle that can carry our 45' ground ladder, offers no independent front suspension, allowing for greater turning radius and handling during evasive maneuvers, and has limited overall storage capacity.

Since 2014, Oak Brook has had positive experiences with Pierce and servicing vehicles at the local dealer, MacQueen emergency equipment. Despite the occasional shortcoming, Pierce has stood by their product and the Fire Department, along with our Public Works department, has improved on and developed a positive working relationship with MacQueen. MacQueen has also stood by their service in the case of two transmission issues and improved their vehicle turn around times when a unit is out for service or repair. Purchasing a new Pierce aerial ladder, allows for continued standardization across the department's heavy fleet, allowing for operational and repair uniformity for FD and PW personnel.

As a result, staff is recommending the purchase of a new Pierce 107' heavy duty aerial ladder with expected delivery in 47-50 months. Like the Village of Oak Brook, Pierce is also a Sourcewell member, ID #60964. Despite the offer of prepay discounts, due to the manufacturing lead times and in consultation with the Finance Director, the recommendation is to pay upon delivery and allow the money to continue to make gains in the Village's portfolio. $2,500,000 was budgeted in FY2026 for the purchase of this vehicle and the vehicle is coming in $473,001 under budget.

Recommendation:

Staff recommends that the Village Board approve Resolution R-2364 authorizing the purchase of one (1) Pierce Enforcer PUC 107' ASL Tandem Ladder Truck with delivery expected within 47-50 months.

Attachments:

1. R-2364
2. [MacQueen Equipment, LLC] Response Document Report
3. [Sentinel Emergency Solutions] Response Document Report
4. [Fire Service, Inc.] Response Document Report
5. 15yr Replacement Plan - OBFD

THE VILLAGE OF OAK BROOK
COOK AND DUPAGE COUNTIES, ILLINOIS

RESOLUTION
NUMBER 2026-FD-CNTRCT-R-2364

A RESOLUTION APPROVING AND AUTHORIZING THE AWARD OF CONTRACT PIERCE MANUFACTURING, INC., OF APPLETON, WI FOR THE PURCHASE OF (1) PIERCE ENFORCER PUC 107' ASL TANDEM LADDER TRUCK

LAURENCE E. HERMAN, Village President
NETASHA SCARPINITI, Village Clerk

JOHN ANOS
NAVEEN JAIN
MICHAEL MANZO
MELISSA MARTIN
A. SURESH REDDY
EDWARD TIESENGA

Village Board

Published in pamphlet form by authority of the
President and the Board of Trustees of the Village of Oak Brook
on the 16th day of June 2026

RESOLUTION NO. 2026-FD-CNTRCT-R-2364

A RESOLUTION
APPROVING AND AUTHORIZING THE AWARD OF CONTRACT PIERCE MANUFACTURING, INC., OF APPLETON, WI FOR THE PURCHASE OF (1) PIERCE ENFORCER PUC 107' ASL TANDEM LADDER TRUCK

WHEREAS, the Village of Oak Brook is a municipal corporation with authority provided for and granted pursuant to the Illinois Municipal Code to exercise certain powers and perform certain functions pertaining to its local government and affairs;

WHEREAS, the Village of Oak Brook (hereinafter referred to as "Village") upon approval of the Village President and Board of Trustees (collectively, the "Corporate Authorities") may enter into an Agreement with another party pursuant to Illinois Statute;

WHEREAS, In January of 2026, the Village Board approved the fire department to request proposals for a new ladder truck;

WHEREAS, The RFP process for the fire department was successful and resulted in proposals from four different manufacturers, with the request reaching at least nine different fire truck manufacturers;

WHEREAS, After review of the four proposals received, Staff has determined that the proposal submitted by Pierce Manufacturing provides the best overall value to the Village, as it was the only submittal that met the criteria outlined in the Village's request package;

WHEREAS, Staff now recommends the Corporate Authorities to approve the purchase of a new Pierce 107' heavy duty aerial ladder truck from Pierce Manufacturing, Inc. ("Company") in the amount of $2,026,999.00 with an expected delivery in 47-50 months, subject to and as otherwise set forth in the purchase agreement ("Contract"), attached hereto and incorporated herein as Exhibit A;

WHEREAS, the Village of Oak Brook Corporate Authorities are of the opinion that it is in the best interests of the Village of Oak Brook to award the Contract to the Company for the purposes referenced herein.

NOW, THEREFORE, BE IT RESOLVED, in open meeting assembled, by the Village President and Board of Trustees of the Village of Oak Brook, DuPage and Cook Counties, Illinois as follows:

Section One – Recitals

The Corporate Authorities hereby find that all of the recitals hereinbefore stated as contained in the preamble to this Resolution are full, true, and correct and do hereby, by reference, incorporate and make them part of this Resolution as legislative findings.

Section Two – Approval of Purchase

The Village hereby approves the award of the Contract substantially in the form attached hereto and made a part hereof collectively as Exhibit A.

Section Three – Authorization and Direction

The Village Manager is hereby authorized to execute the Contract, substantially in the form attached hereto as Exhibit A.

Section Four - Other Actions Authorized

The officers, employees and/or agents of the Village shall take all actions necessary or reasonably required to carry out and give effect to the intent of this resolution and otherwise to consummate the transactions contemplated herein, and shall take all actions necessary in conformity therewith including, without limitation, the execution and delivery of all documents required to be delivered in connection with the transaction contemplated herein.

Section Five - Authorization of Expenditures

The Corporate Authorities hereby authorize and direct the expenditure of all costs related to the execution of the Contract, additionally, the Village is authorized and directed to allocate and spend all necessary funds to fulfill the requirements of the Contract and of this Resolution.

Section Six – Waiver of Bidding Process

To the extent that any requirement of bidding would be applicable to the transactions contemplated hereunder, the same is hereby waived.

Section Seven - Acts of Village Officials

That all past, present and future acts and doings of the officials of the Village that are in conformity with the purpose and intent of this resolution are hereby, in all respects, ratified, approved, authorized and confirmed.

Section Eight – Effective Date

This resolution shall be in full force and effect from and after its passage, approval and publication as provided by law.

Section Nine - Publication

This resolution shall be published in book or pamphlet form as provided by the Illinois Municipal Code.

Section Ten – Conflict Clause

All resolutions, parts of resolutions or board actions in conflict herewith are hereby repealed to the extent of such conflict.

Section Eleven – Saving Clause

If any section, paragraph, clause or provision of this resolution is declared by a court of law to be invalid or unconstitutional, the invalidity or unconstitutionality thereof shall not affect the validity of any other provisions of this resolution, which are hereby declared to be separable.

Section Twelve – Recording

This resolution shall be entered into the minutes and upon the journals of the Board of Trustees of the Village of Oak Brook.

PASSED THIS 16th day of June 2026.

Ayes: _____

Nays: _____

Absent: _____

APPROVED THIS 16th day of June 2026.

_____
LAURENCE E. HERMAN,
Village President

ATTEST:

_____
NETASHA SCARPINITI,
Village Clerk

EXHIBIT A

[Contract]

Village of Oak Brook
Procurement
Rania Serences, Purchasing & Budgeting Coordinator
1200 Oak Brook Road, Oak Brook, IL 60523

[MACQUEEN EQUIPMENT, LLC] RESPONSE DOCUMENT REPORT

GEN No. TBD

Aerial Ladder Truck

RESPONSE DEADLINE: April 16, 2026 at 10:00 am

Report Generated: Thursday, April 16, 2026

MacQueen Equipment, LLC Response

CONTACT INFORMATION

Company:
MacQueen Equipment, LLC

Email:
cleger@macqueengroup.com

Contact:
Charlene Leger

Address:
1125 7th Street E
St Paul, MN 55106

Phone:
N/A

Website:
www.macqueengroup.com

Submission Date:
Apr 9, 2026 4:01 PM (Central Time)

ADDENDA CONFIRMATION

No addenda issued

QUESTIONNAIRE

1. Respondent Submittals (without Cost)*

Please Upload your COMPLETE response, including any and all required forms listed in the solicitation and the corresponding attachments.

(Do not upload cost information in here)

MQ_COI-VILLAGE_OF_OAK_BROOK_23197765.pdf
Attachments_A-B-C_Signed_Notarized.pdf
Attachment_B6-Contracts_on_Hand_IL_Ladders.pdf
Attachment_B9-Contracts_Compltd_Ladders.pdf
OakBrook_Bid_Filled_in_Sale_Price.pdf
1433_Proposal_Letter_04092026.pdf
1433_Short_Option_List_04092026.pdf
1433_Long_Option_List_04092026.pdf

2. I certify that I have read, understood and agree to the terms in this solicitation, and that I am authorized to submit this response on behalf of my company.*

Confirmed

PRICE TABLES

Pricing information has not been unsealed yet

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 11/1/2026 — 3/24/2026

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
Lockton Companies, LLC
DBA Lockton Insurance Brokers, LLC in CA
CA license #0F15767
5500 Wayzata Blvd., Ste. 510
Minneapolis MN 55416
(763) 512-8600 kcasu@lockton.com

CONTACT NAME:
PHONE (A/C, No, Ext): **FAX (A/C, No):**
E-MAIL ADDRESS:

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : The Travelers Indemnity Company of America	25666
INSURER B : Travelers Property Casualty Company of America	25674
INSURER C : The Phoenix Insurance Company	25623
INSURER D : Farmington Casualty Company	41483
INSURER E : Westfield Specialty Insurance Company	16992
INSURER F :	

INSURED
1355447
MACQUEEN EQUIPMENT, LLC
1125 7th St E
St. Paul MN 55106

COVERAGES **CERTIFICATE NUMBER:** 23197765 **REVISION NUMBER:** XXXXXXX

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: POLICY X PRO-JECT X LOC X OTHER: TOTAL AGG: $8,000,000	Y	Y	630-867K8328	11/1/2025	11/1/2026	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 1,000,000 $ 1,000,000 $ 5,000 $ 1,000,000 $ 2,000,000 $ 2,000,000
C	AUTOMOBILE LIABILITY X ANY AUTO OWNED AUTOS ONLY / SCHEDULED AUTOS HIRED AUTOS ONLY / NON-OWNED AUTOS ONLY X GKLL-Com/Collision	Y	Y	810-7N364433	11/1/2025	11/1/2026	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 1,000,000 $ XXXXXXX $ XXXXXXX $ XXXXXXX $ XXXXXXX
B	X UMBRELLA LIAB X OCCUR EXCESS LIAB CLAIMS-MADE DED X RETENTION $ 10,000	Y	Y	CUP-0K231444	11/1/2025	11/1/2026	EACH OCCURRENCE AGGREGATE	$ 10,000,000 $ 10,000,000 $ XXXXXXX
D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y/N: N / N/A (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		Y	UB-0L654504	11/1/2025	11/1/2026	X PER STATUTE / OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ 1,000,000 $ 1,000,000 $ 1,000,000
C	HIRED CAR PHYSICAL DAMAGE	N	N	810-7N364433	11/1/2025	11/1/2026	ACTUAL CASH VALUE	
E	EXCESS LIABILITY			XSL-449931T-01	11/1/2025	11/1/2026	$5M EA OCC/$5M AGG (EXCESS OF TRAVELERS)	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
RE: VILLAGE OF OAK BROOK IS ADDITIONAL INSURED ON GENERAL LIABILITY, AUTO LIABILITY AND UMBRELLA/EXCESS LIABILITY, ON A PRIMARY, NON-CONTRIBUTORY BASIS, IF REQUIRED BY WRITTEN CONTRACT. WAIVER OF SUBROGATION IN FAVOR OF THE ADDITIONAL INSURED APPLIES ON GENERAL LIABILITY, AUTO LIABILITY, UMBRELLA/EXCESS LIABILITY, AND WORKERS COMPENSATION/EMPLOYER'S LIABILITY, IF REQUIRED BY WRITTEN CONTRACT AND WHERE ALLOWED BY LAW. COVERAGE IS SUBJECT TO THE TERMS AND CONDITIONS OF THE POLICY. FOR CANCELLATION FOR ANY REASON OTHER THAN NONPAYMENT OF PREMIUM, THE INSURER(S) WILL SEND 30 DAYS NOTICE OF CANCELLATION TO THE CERTIFICATE HOLDER.

CERTIFICATE HOLDER

23197765
VILLAGE OF OAK BROOK
1200 OAK BROOK ROAD
OAK BROOK IL 60523

CANCELLATION See Attachments

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE
Joseph M Agnello

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COMMERCIAL GENERAL
LIABILITY
Policy Number: 630-867K8328

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

BLANKET ADDITIONAL INSURED

(Includes Products-Completed Operations If Required By Contract)

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART PROVISIONS

The following i s added to SECTION II - WHO IS AN INSURED:

including:Any person or organization that you agree in a services, written contract or agreement to include a s an additional insured on this Coverage Part is an insured, but only:

a. With respect to liability for "bodily injury" or "property damage" that occurs, or for "personal injury" caused by an offense that is committed, subsequent to the signing of that contract or agreement and while that part of the contract or agreement is in effect; and

b. If, and only to the extent that, such injury or caused by acts or omissions of you or your subcontractor in the performance of "your work" to which the written contract or agreement applies. Such person or organization does not qualify as an additional insured with respect to the independent acts or omissions of such person or organization.

The insurance provided to such additional insured is

subject to the following provisions:

a. If the Limits of Insurance of this Coverage Part following duties:

shown in the Declarations exceed the minimum limits required by the written contractor agreement, the insurance provided to the additional insured will be limited to such

minimum required limits. For the purposes of notice should include: determining whether this limitation applies, the

minimum limits required by the written contract or place;

agreement will be considered to

1. Any "bodily injury", "property damage" or "personal injury" arising out of the providing, or failure to provide, any professional

architectural , engineering o r surveying

a. The preparing, approving, or failing to prepare or approve, maps, shop drawings, opinions, reports, surveys, field orders or change orders, or the preparing, approving, or failing to prepare or approve, drawings and specifications; and

(b)Supervisory, inspection, architectural or engineering activities. damage is

2. Any "bodily injury" or "property damage" caused by "your work" and included in the "products-completed operations hazard" unless the written contract o r agreement specifically requires you to provide such coverage for that additional insured during the policy period.

c. The additional insured must comply with the

(1) Giv e us wri t ten notice as soon as practicable of an "occurrence" o r an offense which may result i n a claim. To the extent possible, such

(a) How, when and where the "occurrence" or offense took

a. The names and addresses of any injured persons and witnesses; and

a. The nature and location of any injury or damage arising out of the "occurrence" or offense.

(4) Tender the defense and indemnity of any claim or "suit" to any provider of other insurance which would cover such addit insured

for a loss we cover. However,

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include the minimum limits of any Umbrella o r Excess
liability coverage required for the additional insured by that written contract or agreement. This provision will not
increase the limits of
insurance described in Section III Limits Of Insurance.

b. The insurance provided to such additional

(2) If a claim is made or "suit" is brought against insured does not apply to:

a. Immediately record the specifics of the claim or "suit" and the date received; and

b. Notify us as soon as practicable and see
ional
to it that we receive written notice of the this
claim or "suit " as soon as practicable .

(3) Immediately send us copies of all legal papers received in connection with the claim or "suit", cooperate with us in the investigation or settlement of the claim or defense against the "suit", and otherwise comply with all policy conditions

condition does not affect whether the insurance provided to such additional insured i s primary to other insurance

available to such additional insured which covers that person or organization as a named insured as described in Paragraph 4., Other Insurance, of Section IV - Commercial
General Liability Conditions

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THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

XTEND ENDORSEMENT FOR SERVICE INDUSTRIES

This endorsement modifies insurance provided under the following:
COMMERCIAL GENERAL LIABILITY COVERAGE PART

GENERAL DESCRIPTION OF COVERAGE - This endorsement broadens coverage. However, coverage for any injury, damage or medical expenses described in any of the provisions of this endorsement may be excluded or limited by another endorsement to this Coverage Part, and these coverage broadening provisions do not apply to the extent that coverage is excluded or limited by such an endorsement. The following listing is a general coverage description only. Read all the provisions of this endorsement and the rest of your policy carefully to determine rights, duties,and what is and is not covered.

A. Who Is An Insured - Unnamed Subsidiaries

B. Who Is An Insured - Employees And Volunteer Workers - Bodily Injury To Co-Employees And Co-Volunteer Workers

C. Who Is An Insured - Newly Acquired Or Formed Limited Liability Companies

A. Blanket Additional Insured - Broad Form Vendors

E. Blanket Additional Insured - Controlling Interest

A. Blanket Additional Insured - Mortgagees, Assignees, Successors Or Receivers

A. Blanket Additional Insured - Governmental Entities - Permits Or Authorizations Relating To Premises

B. Blanket Additional Insured - Governmental Entities - Permits Or Authorizations Relating To Operations

C. Blanket Additional Insured - Grantors Of Franchises

D. Incidental Medical Malpractice

E. Blanket Waiver Of Subrogation

PROVISIONS

A. WHO IS AN INSURED - UNNAMED SUBSIDIARIES

The following is added to SECTION II-WHO IS AN INSURED:

Any of your subsidiaries, other than a partnership or joint venture, that is not shown as a Named Insured in the Declarations is a Named Insured

a. or if: You are the sole owner of, or maintain an as indicated in its name or the documents that ownership interest of more than 50% in, such subsidiary on the first day of the policy

b. After the date, if any, during the policy period

that you no longer maintain an ownership interest of more than 50% in such subsidiary. For purposes of Paragraph 1. of Section II - Who Is An Insured, each such subsidiary will be deemed to be designated in the Declarations as: a. A limited liability company;

a. An organization other than a partnership, joint venture or limited liability company;

c. A trust

govern its structure.

B. WHO IS AN INSURED - EMPLOYEES AND VOLUNTEER WORKERS - **BODILY INJURY TO CO-EMPLOYEES AND CO-VOLUNTEER**

Such subsidiary is not an insured under

similar other insurance

No such subsidiary is an insured for "bodily INSURED: injury" or "property damage" that occurred, or

"personal and advertising injury" caused by an offense committed while

a. Before you maintained an ownership interest of more than 50% in such subsidiary; or

your other "volunteer workers" while performing duties related to the conduct of your business.

C. WHO IS AN INSURED - NEWLY ACQUIRED OR FORMED LIMITED LIABILITY COMPANIES

The following replaces Paragraph 3. of SECTION II - WHO IS AN INSURED:

3. Any organization you newly acquire or form, other than a partnership or joint venture, and of which you are the sole owner or in which you maintain an ownership interest of more than 50%, will qualify as a Named Insured if there is no other similar insurance available to that organization.

However:

a. Coverage under this provision is afforded only:

1. Until the 180th day after you acquire or form the organization or the end

of the policy period, whichever is earlier, if you do not report such organization in writing to us within 180 days after you acquire or form it; or

2. Until the end of the policy period,

when that date is later than 180 da ys after you acquire or form such organization, if you report such organization in writing to us within 180 days after you acquire or form it;

b. Coverage A does not apply to "bodily injury" or "property damage" that occurred before you acquired or formed the organization; and

c. Coverage B does not apply to "personal and advertising injury" arising out of an offense committed before you acquired or formed the organization.

For the purposes of Paragraph 1 . of Section II —Who Is An Insured, each such organization will be deemed to be designated i n the Declarations as: a.

partnership, joint venture or limited

WORKERS

The following is added to Paragraph 2.a.(1) of SECTION **II - WHO** IS AN

Paragraphs (1)(a) , (b) and (c) above do not apply to "bodily injury" to a co-'employee

in the course of the co-"employee's" employment by you or performing duties related to the conduct of your business, or to "bodily injury"

D. BLANKET ADDITIONAL INSURED - BROAD FORM VENDORS

The following is added to SECTION II - WHO IS AN INSURED:

Any person or organization that is a vendor and that you have agreed in a written contract or

agreement to include as an additional insured on this Coverage Part is an insured, but only with respect to liability for "bodily injury" or "property damage" that:

a. Occurs subsequent to the signing of that contract or agreement; and

b. Arises out of "your products" that are distributed or sold in the regular course of such vendor's business.

The insurance provided to such vendor is subject to the following provisions:

a. The limits of insurance provided to such vendor will be the minimum limits that you agreed to provide in the written contract or agreement, or the limits shown in the Declarations, whichever are less.

b. The insurance provided to such vendor does not apply to:

1. Any express warranty not authorized by you or any distributio n or sale for a purpose not authorized by you;

2. Any change in "your products" made by such vendor;

1. Repackaging, unless unpacked solely for the purpose of inspection,

demonstration, testing, or the substitution of parts under instructions from the manufacturer, and then repackaged in the original container;

1. Any failure to make such inspections, adjustments, tests or servicing as vendors agree to perform or normally undertake to perform in the regular

a. as indic ated in its name or the documents that govern its structure. liability company; or

(6) "Your products" that, after distribution or sale by you, have been labeled or relabeled or used as a container, part or ingredient of any other thing or substance by or on behalf of such vendor.

Coverage under thi s provision does not apply to:

a. Any person or organization from whom you have acquired "your products", or any ingredient, part or container entering into, accompanying or containing such products; or
b. Any vendor for which coverage as an additional insured specifically is scheduled E. BLANKET ADDITIONAL INSURED CONTROLLING INTEREST

mortgagee, assignee, successor or receiver will be

the written contract or agreement,

1. The following is added to SECTION II WHO IS AN INSURED:

Any person or organization that has financial control of you is an insured with respect to to: liability for "bodily injury", "property damage" or "personal and advertising injury" that arises out of:

a. Such financial control; or
b. Such person's or

effect; or

ownership, maintenance or use of premises leased to or occupied by you. The insurance provided to such person or organization does not apply to structural alterations, new construction or demolition operations performed by or on behalf of such person or organization.

2. The following is added to Paragraph 4. of SECTION II - WHO IS AN INSURED:

This paragraph does not apply to any premises owner, manager or lessor that has

IS

financial control of you.

F. BLANKET ADDITIONAL INSURED —permit MORTGAGEES, ASSIGNEES, SUCCESSORS OR RECEIVERS

A limited liability company; course of business, in connection with the distribution or sale of "your An organization, other than a products";

repair operations, except such A trust; operations performed at such vendor's

premises in connection with the sale of "your products"; or

2. Demonstration, installation, servicing or

a. Is "bodily injury" or "property damage" that occurs, or is "personal and advertising injury" caused by an offense that is committed, subsequent to the signing of that contract or agreement; and

b. Arises out of the ownership, maintenance or use of the premises for which that mortgagee, assignee, successor or receiver is required under that contract or agreement to be included as an additional insured on this Coverage Part. The insurance provided to such mortgagee, assignee, successor or receiver is subject to the following provisions: by endorsement. a. The limits of insurance provided to such minimum limits that you agreed to provide in the

or the limits shown in the Declarations, whichever are less.

b. The insurance provided to such person or organization does not apply

1. Any "bodily injury" or "property damage" that occurs, or any "personal and advertising injury" caused by an offense that is committed, after such contract or organization's agreement is no longer in

1. Any "bodily injury", "property damage" or "personal and advertising injury" arising out of any structural alterations, new construction or demolition operations performed by or on behalf of such mortgagee, assignee, successor or receiver.

G. BLANKET ADDITIONAL INSURED - GOVERNMENTAL ENTITIES - PERMITS OR AUTHORIZATIONS RELATING TO

The following is added to SECTION II - WHO AN INSURED:

The following is added to SECTION II - WHO IS
AN INSURED:
to
Any person or organization that is a mortgagee,
assignee, successor or receiver and that you Coverage Part is an insured, but only with agreed in a written contract or agreement to include as an additional insured on ent Coverage Part is an insured, but only this with

arising out of the existence, ownership, use, respect to its liability as mortgagee, assignee, successor or receiver for "bodily injury", "property damage" or "personal and advertising injury" that:
canopies, cellar entrances, coal holes, driveways, manholes, marquees, hoist away openings, sidewalk vaults, elevators, street banners or decorations.

COMMERCIAL GENERAL LIABILITY

H. BLANKET ADDITIONAL INSURED GOVERNMENTAL ENTITIES - PERMITS OR AUTHORIZATIONS RELATING TO OPERATIONS

The following is added to SECTION II - WHO IS AN INSURED:

Any governmental entity that has issued a permit or authorization with respect to operations performed by you or on your behalf and that you are required by any ordinance, law, building code
or written contract or agreement to include as an additional insured on this Coverage Part is an insured, but only with respect to liability for "bodily injury", "property damage" or "personal
and advertising injury" arising out of such
The insurance provided to such
operation assistant, therapist or entity does not apply to:

a. Any "bodily injury", "property damage" "personal and advertising injury" arising out of operations performed for the
governmental entity; or
included in the "products-completed operations hazard".

b. Any "bodily injury" or "property damage"

CG D4 67 02 19

I. BLANKET ADDITIONAL INSURED - GRANTORS OF FRANCHISES

Any governmental entity that has issued a

or authorization with respect to premises owned or occupied by, or rented or loaned to, you and that you are required by any ordinance, law, building code or written contract or agreement

include as an additional insured on this respect to liability for "bodily injury", "property have damage" or "personal and advertising injury" maintenance, repair, construction, erection or removal of any of the following for which that governmental entity has issued such permit or authorization: advertising signs, awnings medical services", first aid or "Good
Samaritan services" to a person, unless
you are in the business or occupation of providing professional health care

2. The following replaces the last paragraph of Paragraph 2.a.(1) of SECTION II WHO AN INSURED:

Unless you are in the business or occupation of providing professional health care services, Paragraphs (1)(a) , (b) , cc) and (d)
above do not apply to "bodily injury" arising out of providing or failing to provide:

(a) "Incidental medical services" by any of your "employees" who is a nurse, nurse assistant, emergency medical
technician, paramedic, athletic trainer, audiologist, dietician, nutritionist, occupational therapist or occupational speech-language pathologist; therapy
physical

(b) First aid or "Good Samaritan services" by any of your "employees" or "volunteer workers", other than an employed or
or volunteer doctor. Any such "employees" or "volunteer workers" providing or failing
to provide first aid or "Good Samaritan

will be deemed to be acting within the services"

during their work hours for you

of your business.

1. The following replaces the last sentence of Paragraph S. of SECTION III - LIMITS OF INSURANCE:
For the purposes of determining the

The following is added to SECTION II - WHO IS AN INSURED:

Any person or organization that grants a franchise to you is an insured, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" arising out of your operations in the franchise

scope of their employment by you or performing duties related

If a written contract or agreement exists between you and such additional insured, the limits of insurance provided to such insured will be the minimum limits that you agreed to provide in the written contract or agreement, or the limits shown in the Declarations, whichever are less

J. INCIDENTAL MEDICAL MALPRACTICE

1. The following replaces Paragraph b. of the definition of "occurrence" in the DEFINITIONS Section:

b. An act or omission committed in knowledge or consent of, the insured.

providing or failing to provide "incidental

S. The following is added to the DEFINITIONS Section:

"Incidental medical services" means:

a. Medical, surgical, dental, laboratory, x- The furnishing of food or beverages; or advice or instruction, or the related ray or nursing service or treatment, Us,

b. The furnishing or dispensing of drugs or medical, dental, or surgical supplies or

appliances.

6. The following is added to Paragraph r 4.b., Excess Insurance, of SECTION IV - COMMERCIAL GENERAL LIABILITY CONDITIONS:

This insurance is excess over any valid and collectible other insurance, whether primary, excess, contingent or on any other basis,

that is.available to any of your "employees" committed;

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for "bodily injury" that arises out of providing or fai ing to provide "incidental medical

services" to any person to the extent no

applicable Each Occurrence Limit, all related acts or omissions committed in providing or failing to provide "incidental medical

services", first aid or "Good Samaritan

2. The following exclusion is added to Paragraph 2., Exclusions, Gof SECTION I

COVERAGES - COVERA E A - BODILY INJURY AND PROPERTY DAMAGE LIABILITY:

Sale Of Pharmaceuticals

"Bodily injury" or "property damage" arising out of the violation of a penal statute or ordinance relating to the sale of pharmaceuticals committed by, or with the

subject to Paragraph 2.a.(1) of Section II -Who Is An Insured.

K. BLANKET WAIVER OF SUBROGATION

following is added to Paragraph B. , Transfer LIABILITY CONDITIONS: of SECTION IV - COMMERCIAL GENERAL Of Rights Of Recovery Against Others To If the insured has agreed in a contract or

agreement to waive that insured's right of recovery against any person or organization, we

waive s our right of recovery against such

or organization, but only for payments we make because of:

a. "Bodily injury" or "property damage" that occurs; or

b. "Personal and advertising injury" caused by an offense that is

subsequent to the execution of the contract or agreement.

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COMMERCIAL AUTO
Policy Number: 810-7N364433

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

BUSINESS AUTO EXTENSION ENDORSEMENT

This endorsement modifies insurance provided under the following:

BUSINESS AUTO COVERAGE FORM

GENERAL DESCRIPTION OF COVERAGE - This endorsement broadens coverage. However, coverage for any injury, damage or medical expenses described in any of the provisions of this endorsement may be excluded or limited by another endorsement to the Coverage Part, and these coverage broadening provisions do not apply to the extent that coverage is excluded or limited by such an endorsement. The following listing is a general coverage description only. Limitations and exclusions may apply to these coverages. Read all the provisions of this endorsement and the rest of your policy carefully to determine rights, duties, and what is and is not covered.

A. BROAD FORM NAMED INSURED

B. BLANKET ADDITIONAL INSURED

C. EMPLOYEE HIRED AUTO

D. EMPLOYEES AS INSURED

A. SUPPLEMENTARY PAYMENTS - INCREASED LIMITS

B. HIRED AUTO - LIMITED WORLDWIDE COVERAGE - INDEMNITY BASIS

C. WAIVER OF DEDUCTIBLE - GLASS

H. HIRED AUTO PHYSICAL DAMAGE - LOSS OF USE - INCREASED LIMIT

I. PHYSICAL DAMAGE - TRANSPORTATION EXPENSES - INCREASED LIMIT

J. PERSONAL PROPERTY

K. AIRBAGS

L. NOTICE AND KNOWLEDGE OF ACCIDENT OR LOSS

M. BLANKET WAIVER OF SUBROGATION

N. UNINTENTIONAL ERRORS OR OMISSIONS

PROVISIONS

A. BROAD FORM NAMED INSURED

The following is added to Paragraph A.1., Who Is An Insured, of SECTION II - COVERED AUTOS LIABILITY COVERAGE:

Any organization you newly acquire or form during the policy period over which you maintain 50% or more ownership interest and that is not separately insured for Business Auto Coverage. Coverage under this provision is afforded only until the 180th day after you acquire or form the organization or the end of the policy period, whichever is earlier.

B. BLANKET ADDITIONAL INSURED

The following is added to Paragraph c. in A.1., Who Is An Insured, of SECTION II - COVERED AUTOS LIABILITY COVERAGE:

Any person or organization who is required under a written contract or agreement between you and that person or organization, that is signed and executed by you before the "bodily injury" or "property damage" occurs and that is in effect during the policy period, to be named as an additional insured is an "insured" for Covered Autos Liability Coverage, but only for damages to which

permission, while performing duties

related to the conduct of your business.

However, any "auto" that is leased,

hired, rented or borrowed with a driver

is not a covered "auto".

this insurance applies and only to the extent that person or organization qualifies as an "insured" under the Who Is An Insured provision contained in Section

II.

C. EMPLOYEE HIRED AUTO

1. The following is added to Paragraph A.1., Who Is An Insured, of SECTION II - COVERED AUTOS LIABILITY COVERAGE:

An "employee" of yours is an "insured" while operating an "auto" hired or rented under a contract or agreement in an "employee's" name, with your permission, while performing duties

related to the conduct of your business.

2. The following replaces Paragraph b. in B.5., Other Insurance, of SECTION IV - BUSINESS AUTO CONDITIONS:

b. For Hired Auto Physical Damage Coverage, the following are deemed to be covered "autos" you own:

1. Any covered "auto" you lease, hire, rent or borrow; and

2. Any covered "auto" hired or rented by your "employee" under a contract in an "employee's" name, with your

(a) With respect to any claim made or "suit" brought outside the United States of America, the territories and possessions of the United States of America, Puerto Rico and Canada:

i. You must arrange to defend the "insured" against, and investigate or settle any such claim or "suit" and keep us advised of all

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D. EMPLOYEES AS INSURED

The following is added to Paragraph A.1., Who Is An Insured, of SECTION II - COVERED AUTOS LIABILITY COVERAGE:

Any "employee" of yours is an "insured" while using a covered "auto" you don't own, hire or borrow in your business or your personal affairs.

E. SUPPLEMENTARY PAYMENTS - INCREASED LIMITS

1. The following replaces Paragraph A.2.a.(2), of SECTION II - COVERED AUTOS LIABILITY COVERAGE:

(2) Up to $3,000 for cost of bail bonds (including bonds for related traffic law violations) required because of an "accident" we cover. We do not have to furnish these bonds.

2. The following replaces Paragraph A.2.a.(4), of SECTION II - COVERED AUTOS LIABILITY COVERAGE:

(4) All reasonable expenses incurred by the "insured" at our request, including actual loss of earnings up to $500 a day because of time off from work.

F. HIRED AUTO - LIMITED WORLDWIDE COVERAGE - INDEMNITY BASIS

The following replaces Subparagraph (5) in Paragraph B.7., Policy Period, Coverage Territory, of SECTION IV - BUSINESS AUTO CONDITIONS:

(5) Anywhere in the world, except any country or jurisdiction while any trade sanction, embargo, or similar regulation imposed by the United States of America applies to and prohibits the transaction of business with or within such country or jurisdiction, for Covered Autos Liability Coverage for any covered "auto" that you lease, hire, rent or borrow without a driver for a period of 30 days or less and that is not an "auto" you lease, hire, rent or borrow from any of your "employees", partners (if you are a partnership), members (if you are a limited liability company) or members of their households.

You agree to maintain all required or compulsory insurance in any such country up to the minimum limits required by local law. Your failure to comply with compulsory insurance requirements will not invalidate the coverage afforded by this policy, but we will only be liable to the same extent we would have been liable had you complied with the compulsory insurance requirements.

(d) It is understood that we are not an admitted or authorized insurer outside the United States of America, its territories and possessions, Puerto Rico and Canada. We assume no responsibility for the furnishing of certificates of insurance, or for compliance in any way with the laws of other countries relating to insurance.

G. WAIVER OF DEDUCTIBLE - GLASS

The following is added to Paragraph D., Deductible, of proceedings and actions.

ii. Neither you nor any other involved "insured" will make any settlement without our consent.

iii. We may, at our discretion, participate in defending the "insured" against, or in the settlement of, any claim or "suit".

(iv)We will reimburse the "insured" for sums that the "insured" legally must pay as damages because of "bodily injury" or "property damage" to which this insurance applies, that the "insured" pays with our consent, but only up to the limit described in Paragraph C., Limits Of Insurance, of SECTION II - COVERED AUTOS LIABILITY COVERAGE.

(v) We will reimburse the "insured" for the reasonable expenses incurred with our consent for your investigation of such claims and your defense of the "insured" against any such "suit", but only up to and included within the limit described in Paragraph C., Limits Of Insurance, of SECTION II COVERED AUTOS LIABILITY COVERAGE, and not in addition to such limit. Our duty to make such payments ends when we have used up the applicable limit of insurance in payments for damages, settlements or defense expenses.

(b) This insurance is excess over any valid and collectible other insurance available to the "insured" whether primary, excess, contingent or on any other basis.

(c) This insurance is not a substitute for required or compulsory insurance in

(2) In or on your covered "auto".

This coverage applies only in the event of a total theft of your covered "auto".

No deductibles apply to this Personal Property coverage.

K. AIRBAGS

The following is added to Paragraph B.3., Exclusions, of SECTION III - PHYSICAL DAMAGE COVERAGE:

Exclusion 3.a. does not apply to "loss" to one or more airbags in a covered "auto" you own that inflate due to a cause other than a cause of "loss" set forth in Paragraphs A.1.b. and A.1.c., but only:

a. If that "auto" is a covered "auto" for Comprehensive Coverage under this policy;

b. The airbags are not covered under any warranty; and

c. The airbags were not intentionally inflated. We will pay up to a maximum of $1,000 for any one "loss".

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SECTION III - PHYSICAL DAMAGE COVERAGE:

No deductible for a covered "auto" will apply to glass damage if the glass is repaired rather than replaced.

H. HIRED AUTO PHYSICAL DAMAGE - LOSS OF USE - INCREASED LIMIT

The following replaces the last sentence of Paragraph A.4.b., Loss Of Use Expenses, of SECTION III - PHYSICAL DAMAGE COVERAGE:

However, the most we will pay for any expenses for loss of use is $65 per day, to a maximum of $750 for any one "accident".

I. PHYSICAL DAMAGE - TRANSPORTATION EXPENSES - INCREASED LIMIT

The following replaces the first sentence in Paragraph A.4.a., Transportation Expenses, of SECTION III - PHYSICAL DAMAGE COVERAGE: We will pay up to $50 per day to a maximum of $1,500 for temporary transportation expense incurred by you because of the total theft of a covered "auto" of the private passenger type.

3. PERSONAL PROPERTY

The following is added to Paragraph A.4., Coverage Extensions, of SECTION III - PHYSICAL DAMAGE COVERAGE:

Personal Property

We will pay up to $400 for "loss" to wearing apparel and other personal property which is:

(1) Owned by an "insured"; and

such contract. The waiver applies only to the person or organization designated in such contract.

N. UNINTENTIONAL ERRORS OR OMISSIONS The following is added to Paragraph B.2., Concealment, Misrepresentation, Or Fraud, of SECTION IV - BUSINESS AUTO CONDITIONS:

L. NOTICE AND KNOWLEDGE OF ACCIDENT OR LOSS

The following is added to Paragraph A.2.a., of SECTION IV - BUSINESS AUTO CONDITIONS:

Your duty to give us or our authorized representative prompt notice of the "accident" or "loss" applies only when the "accident" or "loss" is known to:

a. You (if you are an individual);

b. A partner (if you are a partnership);

c. A member (if you are a limited liability company);

d. An executive officer, director or insurance manager (if you are a corporation or other organization); or

e. Any "employee" authorized by you to give notice of the "accident" or "loss".

M. BLANKET WAIVER OF SUBROGATION

The following replaces Paragraph A.5., Transfer Of Rights Of Recovery Against Others To Us, of SECTION IV - BUSINESS AUTO CONDITIONS : 5. Transfer Of Rights Of Recovery Against

Others To Us

We waive any right of recovery we may have against any person or organization to the extent required of you by a written contract signed and executed prior to any "accident" or "loss", provided that the "accident" or "loss" arises out

of operations contemplated by

The unintentional omission of, or unintentional error in, any information given by you shall not prejudice your rights under this insurance. However this provision does not affect our right to collect additional premium or exercise our right of cancellation or non-renewal.

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COMMERCIAL AUTO
POLICY NO. **810-7N364433**
POLICY TERM: **11/1/2025 - 11/1/2026**

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

BLANKET ADDITIONAL INSURED – PRIMARY AND NON-CONTRIBUTORY WITH OTHER INSURANCE

This endorsement modifies insurance provided under the following:
BUSINESS AUTO COVERAGE FORM

PROVISIONS

1. The following is added to Paragraph **A.1.c.**, **Who Is An Insured**, of **SECTION II – COVERED AUTOS LIABILITY COVERAGE**:

This includes any person or organization who you are required under a written contract or agreement between you and that person or organization, that is signed by you before the "bodily injury" or "property damage" occurs and that is in effect during the policy period, to name as an additional insured for Covered Autos Liability Coverage, but only for damages to which this insurance applies and only to the extent of that person's or organization's liability for the conduct of another "insured".

2. The following is added to Paragraph **B.5.**, **Other Insurance** of **SECTION IV – BUSINESS AUTO CONDITIONS**:

Regardless of the provisions of paragraph a. and paragraph **d.** of this part **5. Other Insurance,** this insurance is primary to and non-contributory with applicable other insurance under which an additional insured person or organization is the first named insured when the written contract or agreement between you and that person or organization, that is signed by you before the "bodily injury" or "property damage" occurs and that is in effect during the policy period, requires this insurance to be primary and non-contributory.

TRAVELERS
ONE TOWER SQUARE
HARTFORD, CT 06183

WORKERS COMPENSATION AND EMPLOYERS LIABILITY POLICY

ENDORSEMENT WC 00 03 13 (00) - 001

POLICY NUMBER: **UB-0L654504**
POLICY TERM: **11/1/2025 - 11/1/2026**

WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT

We have the right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule. (This agreement applies only to the extent that you perform work under a written contract that requires you to obtain this agreement from us.)

This agreement shall not operate directly or indirectly to benefit any one not named in the Schedule.

SCHEDULE

DESIGNATED PERSON:

DESIGNATED ORGANIZATION:

ANY PERSON OR ORGANIZATION FOR WHICH THE INSURED HAS AGREED BY WRITTEN CONTRACT EXECUTED PRIOR TO LOSS TO FURNISH THIS WAIVER.

Any person or organization for which the employer has agreed by written contract, executed prior to loss, may execute a waiver of subrogation. However, for purposes of work performed by the employer in Missouri, this waiver of subrogation does not apply to any construction group of classifications as designated by the waiver of right to recover from others (subrogation) rule in our manual.

Attachment A - Proposer Questionnaire

FIRM NAME MacQueen Equipment LLC DBA MacQueen

CONTACT PERSON John Kenna

ADDRESS 1401 N Farnsworth Ave, Aurora, IL 60505

Headquarters: 1125 7th Street E, St Paul, MN 55106

PHONE NUMBER 630-303-8773

EMAIL ADDRESS john.kenna@macqueengroup.com

WHEN ORGANIZED 1961

WHERE ORGANIZED St Paul MN

LICENSED IN ILLINOIS? Yes - DL5382

NUMBER OF YEARS IN PRACTICE? 65 years

HAS THE FIRM EVER REFUSED TO ENTER INTO AN CONTRACT?
If yes, please submit details No

HAS THE FIRM EVER DEFAULTED ON AN CONTRACT?
If yes, please submit details No

WHERE IS YOUR NEAREST OFFICE TO OAK BROOK? Aurora, IL

HOW MANY PEOPLE ARE EMPLOYED IN THE NEAREST OFFICE TO OAK BROOK? Estimated 30

Attachment B – Statement of Proposer's Qualifications

All questions must be answered, and the data given must be clear and comprehensive. This statement must be notarized. If necessary, questions may be answered on separate attached sheets. The Proposer may submit any additional information he or she desires.

1. Name of Proposer: MacQueen Equipment LLC DBA MacQueen

2. Permanent main office address: Headquarters: 1125 7th Street E, St Paul, MN 55106

3. When organized: 1961

4. If a corporation, where incorporated: _____

5. How many years have you been engaged in the contracting business under your present firm or trade name: 65 years

6. Contracts on hand: (Schedule these, showing amount of each contract and the appropriate anticipated dates of completion) _____

7. General character of work performed by your company: Fire Apparatus Sales & Service

8. Have you ever defaulted on a contract: No

9. List, on an attached sheet, the more important projects recently completed by your company, stating the approximate cost for each, and the month and year completed. Include a contact person and phone # for each.

10. List your major equipment ***available for this contract***: _____

11. Experience in work similar in importance to this project: 25+ Years

12. Background and experience of the principal members of your organization, including the officers.
    Michael Purdy CEO 18 years sales, sales development
    Jeff Osterhues CSMO 39 years marketing, sales, business development
    Ryan St Arnold CFO 17 years financial analysis & planning

13. Credit available: We do not provide this information

14. Bank reference: Old National Bank, 1570 Concordia Ave, St Paul MN 55104 Account #105264399
    Banker = Jeffrey Svien phone 763-347-8455

15. Will you, upon request, fill out a detailed financial statement and furnish any other information that may be required by the Village of Oak Brook: Yes, upon request.

16. The undersigned hereby authorizes and requests any person, firm, or corporation to furnish any information requested by the Village of Oak Brook in verification of the recitals comprising this Statement of Proposer's Qualifications.

DATED at Aurora, Illinois this 7 day of April, 2026.

By: John Kenna, Sales Representative
Title

STATE OF ILLINOIS)
) SS.
COUNTY OF)

John Kenna being duly sworn deposes and says that he is the Sales Rep of MacQueen and that the answers to the foregoing questions and all statements therein contained are true and correct.

SUBSCRIBED and sworn to before me this 7 day of April, 2026.

ANGELA M DVORAK
Official Seal
Notary Public - State of Illinois
My Commission Expires Jul 11, 2026

Notary Public

Attachment C – Proposer's Certification

The undersigned, being first duly sworn an oath, deposes and states that he has the authority to make this certification on behalf of the Proposer for the construction, product, commodity, or service briefly described as follows:

"Aerial Ladder Truck Purchase"

(A) The undersigned certifies that, pursuant to Chapter 720, Section 5/33E of the Illinois Compiled Statutes, 1993, the Proposer is not barred from submitting a proposal on this contract as a result of a conviction for the violation of State of Illinois laws prohibiting bid-rigging or bid-rotating.

(B) The undersigned states under oath that, pursuant to Chapter 65, Section 5/11-42.1-1 of the Illinois Compiled Statutes, 1993, the Proposer is not delinquent in the payment of any tax administered by the Illinois Department of Revenue.

(C) The undersigned certifies that, pursuant to Chapter 775, Section 5/2-105. of the Illinois Compiled Statutes, 1993, the Proposer has a written sexual harassment policy in place including the following information:

1. An acknowledgment of the illegality of sexual harassment.
2. The definition of sexual harassment under State law.
3. A description of sexual harassment, utilizing examples.
4. The contractor's internal complaint process including penalties.
5. The legal recourse, investigative and complaint process available through the Illinois Department of Human Rights and the Human Rights Commission.
6. Directions on how to contact the Department or the Commission.

(D) The undersigned states and certifies it will provide a drug free workplace by complying with Section 3 of the Illinois Drug Free Workplace Act, being 30 ILCS 580/3.

This business firm is: (check one)

_____ Corporation X Partnership _____ Individual

Firm Name: MacQueen Equipment LLC DBA MacQueen

Address: 1125 7th Street E

City, State, ZIP: St Paul, MN 55106

Signature: _____

Name Printed: John Kenna

Title: Sales Representative

Telephone: 630-303-8776 Date: 4/7/26

ATTEST:

ANGELA M DVORAK
Official Seal
Notary Public - State of Illinois
My Commission Expires Jul 11, 2026

-SEAL-

SUBSCRIBED AND SWORN TO
before me this 7 day
of April, 2026.

Notary Public

ATTACHMENT B - 6 - CONTRACTS ON HAND

Truck	Order Date	EST RFP	Contract Amount	Customer	ST	Chassis	Aerial Type
39884-01	10/29/2022	3/18/2026	$1,538,900.00	Tri-State Fire Protection District	IL	Enforcer	HD Ladder 107' ASL Single, PUC, Quint
40165-01	11/15/2022	6/11/2026	$1,658,738.00	Tinley Park Fire Department, Village of	IL	Enforcer	HD Ladder 100' HAL, No Pump
41718-01	9/20/2023	2/18/2027	$1,629,000.00	Mundelein Fire Department, Village of	IL	Enforcer	HD Ladder 107' ASL Single, Quint
41799-01	9/29/2023	6/30/2026	$1,604,674.00	Springfield FD, City of	IL	Enforcer	HD Ladder 107' ASL Tandem, No Pump
42464-01	1/31/2024	8/27/2027	$2,113,000.00	Rolling Meadows Fire Department, City of	IL	Velocity	HD Ladder 107' ASL Tandem
42857-01	4/30/2024	10/21/2027	$2,097,000.00	Rockford Fire Department, City of	IL	Velocity	HD Ladder 105', PUC
42857-02	4/30/2024	10/28/2027	$2,097,000.00	Rockford Fire Department, City of	IL	Velocity	HD Ladder 105', PUC
42857-03	4/30/2024	11/3/2027	$2,097,000.00	Rockford Fire Department, City of	IL	Velocity	HD Ladder 105', PUC
42853-01	4/30/2024	6/25/2027	$1,718,000.00	Elgin Fire Department, City of	IL	Enforcer	HD Ladder 107' ASL Single, PUC, Quint
42855-01	4/30/2024	9/21/2027	$2,500,000.00	Peoria Fire Department, City of	IL	Impel	HD Ladder 75', Quint, No Pump
44107-01	1/21/2025	2/4/2029	$2,225,000.00	Rockford Fire Department, City of	IL	Velocity	HD Ladder 105', PUC
44125-01	1/23/2025	2/7/2029	$2,033,000.00	Darien-Woodridge Fire Protection District	IL	Velocity	HD Ladder 105'
44312-01	3/10/2025	3/25/2029	$2,275,500.00	Orland Fire Protection Dist	IL	Enforcer	HD Ladder 107' ASL Tandem
44904-01	6/30/2025	8/14/2029	$1,785,000.00	Pekin Fire Department, City of	IL	Enforcer	HD Ladder, 75' HAL, Quint
45602-01	12/5/2025	1/5/2030	$1,997,000.00	Plainfield Fire Protection District	IL	Velocity	HD Ladder 107' ASL Single, Quint
45627-01	12/15/2025	12/9/2026	$1,906,000.00	Wauconda Fire Protection District	IL	Enforcer	HD Ladder 107' ASL Single, PUC, Quint

ATTACHMENT B - 9 - RECENTLY COMPLETED

Truck	Order Date	Contract Amt	Customer	ST	Chassis	Aerial Type	Contact Name	Contact Phone
39876	3/10/2026	$1,919,000.00	VILLAGE OF MOUNT PROSPECT	IL	Enforcer	100AAT	Chief Thomas Wang	847-818-5334
39648	10/16/2025	$1,774,000.00	VILLAGE OF ARLINGTON HEIGHTS	IL	Velocity	Platform 100', PUC	Chief Lance Harris	847-368-5450
39599	9/4/2025	$1,467,000.00	PLEASANTVIEW FPD	IL	Impel	HD Ladder 107' ASL, PUC, Quint	Chief Kark Argast	708-352-9229
43841	7/8/2025	$1,894,000.00	GRAYSLAKE FPD	IL	Enforcer	HD Ladder 107' ASL, PUC, Quint	Deputy Chief David Torkilsen	847-223-8960
40759	6/3/2025	$1,934,000.00	VILLAGE OF SCHAUMBURG	IL	Velocity	Platform 100' RMAP, No Pump	Fabio Pucccini, DC of Ops	847-885-6300
42516	5/15/2025	$2,346,000.00	CITY OF EVANSTON	IL	Enforcer	100AAT, No Pump	Sean Ciolek, Div Mgr Facilities	847-448-8181
39256	5/8/2025	$1,572,000.00	CITY OF PEORIA	IL	Velocity	Platform 100', No Pump	Fire Chief Shawn Sollberger	309-494-8730
40779	4/14/2025	$1,520,000.00	WOODSTOCK FIRE RESCUE DIST	IL	Enforcer	HD Ladder 107' ASL Tandem	Fire Chief Brendan Parker	815-338-2621

VILLAGE OF OAK BROOK
Purchasing Division
1200 Oak Brook Road
Oak Brook, IL 60523

(630) 368-5164

REQUEST FOR PROPOSALS

AERIAL LADDER TRUCK PURCHASE

MARCH 2026

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Section 1. Request for Proposals

A. Notice

Posted on OpenGov Procurement Module October 29, 2025

The Village of Oak Brook is soliciting proposals from qualified vendors for the Fire Department Aerial Ladder Truck Purchase

Qualified vendors interested in submitting a proposal must obtain the detailed Request for Proposals (RFP) package from the Village's ePprocurement Portal at https://procurement.opengov.com/portal/oak-brook.

Firms intending to respond to this opportunity must create a FREE account with OpenGov by signing up at https://procurement.opengov.com/signup. This step is necessary to establish a communication link with the Village.

The closing date and time for receipt of proposals is **Thursday, April 16, 2026 at 10:00 A.M. prevailing time**, after which time, additional submittals will not be accepted.

The Village reserves the right to reject any or all Proposals, to waive technical or legal deficiencies, to proceed or not to proceed with any subsequent proposal process, or to negotiate, without further process, and to make an award that, in its judgment, is the best and most favorable to the interests of the Village and the public.

All inquiries regarding this RFP must be submitted via the Village's eProcurement Portal at https://procurement.opengov.com/portal/oak-brook.

B. General Information

The Village of Oak Brook is a suburban community located in the western suburbs of Illinois, approximately 15 miles west of Chicago. Oak Brook is a premier community known for its beautiful neighborhoods, vibrant business district, and exceptional public amenities—including world-class shopping, fine dining, and abundant green space. The Oak Brook Fire Department protects a wide variety of hazards including a large commercial and mercantile district made up of high-rises, big box stores, warehouses, light industrial, multi-family dwellings, hotels, and large residential structures. In addition, the fire department protects several miles of high-speed roadways which include IL Route 83, Interstate 88, and Interstate 294.

In 2025, the Oak Brook Fire Department continued to see a year after year call volume increase, answering 3,322 calls for service, delineated by a nature of 65% emergency medical service and 35% fire service-related calls.

The Village of Oak Brook is seeking responsible vendors to submit proposals to build our next aerial ladder truck. The Village of Oak Brook is looking to award the next aerial ladder build to a vendor who can build a high-quality vehicle, exceeding our minimum custom-build requirements, that services the citizens of the Village of Oak Brook for at least the next fifteen years. The Oak Brook Fire Department is looking for a reliable aerial fire apparatus that consistently remains in-service, but when maintenance is needed, can be taken to a local dealer for efficient, cost effective, and dependable repair. Apparatus build time and a vehicle that meets or exceeds the fire department's vehicle requirements will be key when selecting the next vendor.

Some key components the Oak Brook Fire Department is seeking in our next aerial ladder build, but not limited to:

- minimum 95' aerial ladder length (however more vertical/horizontal/below grade reach better i.e. 100', 105', 110', 135', etc.)
- the ability to short-jack the aerial set-up in confined spaces

- minimum 500 on board water storage
- minimum 1500 GPM fire pump
- the ability to carry a full ground ladder compliment, including a 28', 35', and 45' (Bangor) ladders
- total compartment space (cubic foot of storage) is an important consideration
    - Identify total cubic foot of available storage given specific design components (on board water, hose, ladder, etc.)

C. Anticipated Timeline

The Village plans to adhere to the following schedule regarding this RFP:

Distribute Request for Proposals	March 19, 2026
Deadline for vendor questions or clarifications via OpenGov	April 7, 2026 @ 12:00 pm
Village's response to questions via OpenGov	As answered
RFP Due Date	April 16, 2026 @ 10:00 am
Evaluation Period	Apri 16, 2026 – May 4, 2026
Recommendation to Village Board/Final Award	May 12, 2026
Contract Effective Date	May 12, 2026

Section 2. Specifications

The Village of Oak Brook, IL, is seeking proposals from qualified vendors for the purchase of a new aerial ladder truck for the Oak Brook Fire Department. The aerial ladder truck will be used for firefighting, rescue operations, and other emergency services. The selected vendor will be responsible for providing a fully equipped and operational aerial ladder truck that meets the specifications outlined below:

Detailed Specifications
The aerial ladder truck must meet or exceed the latest NFPA standards as well as the following specifications and standards:

Chassis and Engine

1. Custom fire apparatus chassis with a minimum of 500 horsepower diesel engine.
2. Automatic, heavy-duty transmission (Allison 4000 or similar) and an auxiliary cooler.
3. Heavy-duty suspension system suitable for emergency response operations.
4. Minimum 50-gallon fuel tank capacity.
5. Anti-lock braking system (ABS).
6. Power steering and tilt/telescoping steering wheel.
7. Auto-lube system.
8. Crossfire rear-dual air monitoring system (or similar).
9. Jacobs compression brake (or similar).
10. Exhaust system modified for Plymovent.

Cab and Body

1. Four-door cab with seating for a minimum of four firefighters.
2. Air conditioning and heating system.
3. Ergonomically designed seating with seat belts and SCBA brackets.
4. Seatbelt warning system, SRS, backup and blind-spot cameras.
5. Aluminum or stainless-steel body construction for durability and corrosion resistance.
6. Ample custom compartment space for equipment storage with weather-resistant roll-up doors and custom shelves/trays/pull outs/etc. with line-x where applicable. (Identify total available cubic foot of storage available given specifications listed).
7. LED lighting for interior and exterior illumination.
8. Underbody corrosion protection.
9. Extended steel front bumper (with front 1.75" hose storage and storage for extrication equipment such as spreaders/cutters).
10. Heated remote mirrors.
11. Bumper mirror.
12. Remote windows (with multiple control points).
13. Sigtronics headset system (or similar).
14. Mounting provisions and power for mobile radios, portable chargers, hand-lights, mobile-data computer, thermal imaging camera, etc.
15. Custom paint (including aerial) with warranty (specify) and decals.

Aerial Ladder

1. Minimum 95-foot aerial ladder with a rated load capacity of at least 500 pounds. (Identify options/cost for longer reach)
2. Hydraulic or electric-powered ladder operation with automatic leveling system.
3. Ability to short-jack aerial set-up.
4. Waterway system capable of delivering a minimum of 1,000 gallons per minute (GPM) and providing a remote standpipe.
5. Integrated ladder controls at both the base and tip of the ladder.
6. Heat-resistant and slip-resistant ladder rungs.

7. Emergency lighting and communication system integrated into the ladder.

Pump and Water Tank

1. Minimum 1,500 GPM fire pump.
2. Onboard water tank with a minimum capacity of 500 gallons.
3. Minimum two large-diameter intakes near pump panels (electronically controlled if remote), plus a rear intake.
4. Pre-connected hose lines (2 cross-body mid-ship and 1 front bumper) for rapid deployment.
5. Minimum hose bed capacity of 1000' of 5" LDH and 800' of 2.5".
6. Pressure relief valve and pump panel controls.

Electrical and Lighting

1. 12-volt and 120-volt electrical systems with circuit protection, shoreline powered.
2. LED emergency warning lights and sirens compliant with NFPA 1901 standards. 360-degree lighting package needs to exceed minimum standards and allow for ample warning, including during tollway/interstate operations.
3. LED scene lighting/floodlights for nighttime operations (minimum front and both sides).
4. LED cab and compartment lighting.
5. Battery charging system with shoreline connection and a minimum of four heavy-duty batteries.

Additional Equipment

1. Ground ladders including a minimum of one 45-foot 3-section Bangor ladder, one 35-foot two-section extension ladder, one 28-foot two-section extension ladder, one 18-foot roof ladder, one 16-foot roof ladder, one Little-Giant combination ladder, and one 10-foot folding ladder.
2. Storage and mounting provisions for 12', 10', 8', 6' New York hooks including rear, aerial, and mid-ship cross-body storage.
3. Storage and mounting provisions for hydraulic e-rescue tools, including spreaders, cutters, and rams.
4. Storage and mounting provisions for portable lighting and ventilation equipment.
5. Storage and mounting provisions medical equipment (in-cab).
6. Fire extinguishers and hand tools.
7. Spare SCBA bottle storage.
8. Storage and mounting provisions for misc. rescue equipment (small hand/power tools).

9. Storage and mounting provisions for misc. firefighting equipment including high-rise hose packs, standpipe kits, assorted appliances, etc.

Build Requirements
The selected vendor must:

1. Specify time for build and delivery.

2. Specify a list of authorized service centers and maximum travel distance.

3. Provide for build/design, in-progress, and final inspections.

Service Requirements
The selected vendor must provide the following services:

1. Comprehensive training for Oak Brook Fire Department personnel on the operation and maintenance of the aerial ladder truck.

2. Detailed maintenance and service manuals, both in print and digital formats.

3. Warranty coverage for a minimum of one year on all components, with extended warranty options available.

4. Access to technical support and service representatives for troubleshooting and repairs.

5. Availability of replacement parts and consumables for a minimum of 10 years from the date of delivery.

Delivery Requirements
The aerial ladder truck must be delivered to the Oak Brook Fire Department at the following address:

Oak Brook Fire Department
Village of Oak Brook
1200 Oak Brook Road
Oak Brook, IL 60523

The delivery must include the following:

1. Complete inspection and testing of the aerial ladder truck to ensure it meets all specifications and is fully operational.

2. Documentation of all inspections, tests, and certifications.

3. On-site training for Oak Brook Fire Department and on-site maintenance personnel.

4. All necessary registration and titling paperwork completed and submitted to the appropriate authorities.

Section 3. Proposal Cost

In compliance with this Request for Proposals, and subject to all conditions thereof, the undersigned offers and agrees, if this proposal is accepted, to furnish the Aerial Ladder Truck as outlined herein for the Village of Oak Brook at the amount indicated, subject to modification through negotiations. The not-to-exceed cost proposed shall include all anticipated expenses.

AERIAL LADDER TRUCK PURCHASE

Total Project Cost **$** 2,026,999.00

In Words Two Million Twenty-Six Thousand Nine Hundredy Ninety-Nine Dollars and no cents

The Village of Oak Brook reserves the right to reject any or all proposals and to waive any informalities and to accept the proposal deemed most advantageous to it.

Section 4. Submittal Procedures

A. RFP Submittals

The closing date and time for receipt of the Request for Proposals is **Thursday, April 16, 2026, at 10:00 A.M. prevailing time**, after which time, additional submittals will not be accepted. All proposals must be delivered via the Village's eProcurement Portal at https://procurement.opengov.com/portal/oak-brook.

The Village reserves the right to reject any or all Proposals, to waive technical or legal deficiencies, to proceed or not to proceed with any subsequent proposal process, or to negotiate without further process any Contract as may be in the best interest of the Village.

B. Questions and Clarifications

All inquiries regarding this RFP must be submitted in writing through the Village's eProcurement Portal in the Questions/Answer tab. Questions will be accepted until **12:00 p.m. CST on Tuesday, April 7, 2026. To ensure that questions asked are responded to correctly, please include the section title for each question.**

All questions submitted and responses provided will be electronically distributed to the Firms following this solicitation on the Village's eProcurement Portal. You must click the **"Following"** button on the top right-hand side of the main project page in the Village's OpenGov eProcurement portal.

Section 5. Review Process

A. Evaluation of Proposals and Selection

The proposals received will be evaluated by the Village on the basis of professional qualifications, previous experience on similar projects, satisfaction of previous clients on work performed for them, current billing

rates of the firm, and the proposal that best meets the needs of the Village. Vendors will be contacted during the evaluation if further information is needed. The Village may choose to interview one or more firms before final selection is made.

This Request for Proposal does not commit the Village to award a contract, to pay any costs incurred in the preparation of a proposal based on this request, or to procure or contract for services. All proposals submitted in response to this Request for Proposal become the property of the Village. The Village reserves the right to accept or reject any or all proposals received as a result of this request, to negotiate with qualified proposers, or to cancel in part or in its entirety the Request for Proposal, if it is in the best interest of the Village to do so. The Village may require the proposer selected to participate in negotiations concerning Contract price or the nature and extent of services to be provided. The results of such negotiations shall be incorporated into the final Contract between the Village and its proposer.

B. Basis of Award

The Village uses the Request for Proposals (RFP) process. A short list of firms will be drawn up and interviews with those firms may take place. The Village will then attempt to negotiate a satisfactory Contract with the firms deemed most qualified.

The Village of Oak Brook reserves the right to waive any informality or technical error and to accept the firm deemed by the Village to be in its best interests. In reviewing Proposals, the Village will consider the following factors:

1. The ability, capacity, and skill of the firm to provide the required commodity.

2. The character, integrity, reputation, judgment, experience, and efficiency of the firm.

3. The quality of the performance on previous Contracts.

4. The previous and existing compliance by the vendor with laws and ordinances relating to the vendor's services.

5. The sufficiency of the financial resources and ability of the firm to perform the Contract or provide the commodity.

6. Proposed Cost

7. The ability of the vendor to provide future service for the use of the subject of the Contract.

8. The number and scope of conditions attached to the Proposal submitted.

Additional criteria to be considered in reviewing Proposals:

1. The Proposers' experience.

2. Understanding of the Village's current and future needs.

3. Oral interview (at Village option).

4. Demonstrated experience.

The Village will then select the top preferred Proposer, with whom the Contract, on a form to be provided by the Village, will be negotiated. The Village Board of Trustees has the ultimate authority to approve

any proposal and to authorize execution of the negotiated Contract.

The Village reserves the right to make clarifications, corrections, or changes in this RFP at any time prior to the deadline for the submission of proposals.

Section 6. Terms and Conditions

1. Any contract resulting from the acceptance of this Request for Proposals by the Village shall be on forms supplied by the Village.

2. If, through any cause, the firm fails to fulfill any of the obligations agreed to in a timely and proper manner, the Village shall have the right to terminate the Contract by notifying the firm in writing of such termination at least 30 calendar days in advance of such termination.

3. The Village reserves the right to request clarification of information submitted and request additional information as needed.

4. Proposers may attach separate sheets to the proposal for the purpose of explanation, exception, alternate proposal and to cover unit prices, if needed.

5. Proposers may withdraw their proposal either personally or by written request at any time before the time set for the proposal opening and may resubmit it. No proposal may be withdrawn or modified after the receipt of proposals except where the award of Contract has been delayed for a period of more than **ninety (90) days**.

6. In submitting this proposal, the proposer further declares that the only person or party interested in the proposal as principals are those named herein, and that the proposal is made without collusion with any other person, firm or corporation.

7. The proposer further understands and agrees that if their proposal is accepted, the individual/company is to furnish and provide all necessary materials and/or equipment and other means to do all of the work and to furnish all of the materials specified in the Contract, except such materials as are to be furnished by the Village, in the manner and at the time therein prescribed, and in accordance with the requirements therein set forth.

8. The proposer further agrees to execute all documents within this Proposal Package, obtain a Certificate of Insurance for this work and present all of these documents to the Village within fifteen (15) days after the receipt of the Notice of Award and the Contract by the company.

9. The proposer further agrees to begin work not later than fifteen (15) days after receipt of the Notice to Proceed, unless otherwise provided, and to execute the work in such a manner and with sufficient materials, equipment and labor.

10. By submitting a proposal, the proposer understands and agrees that, if the proposal is accepted, and the proposer fails to enter into a Contract forthwith, the company shall be liable to the Village for any damages the Village may thereby suffer.

11. The Village is exempt from Federal excise tax and the Illinois Retailer's Occupation Tax. This proposal cannot include any amounts of money for these taxes.

12. The Village authorizes the payment of invoices on the second and fourth Tuesday of the month. For consideration on one of these dates, payment request must be received no later than fourteen (14) days prior to the second or fourth Tuesday of the month.

13. **Indemnification** – The Proposer shall protect, indemnify, save, defend and hold forever harmless the Village and/or its officers, officials, employees, volunteers and agents from and against all liabilities, obligations, claims, damages, penalties, causes of action, costs and expenses, including without limitation court costs, insurance deductibles and attorney's fees and expenses, which the Village and/or its officers, officials, employees, volunteers and agents may incur, suffer or sustain, or for which the Village and/or its officers, employees and agents may become obligated by reason for any accident, injury to or death of persons or loss of or damage to property, or civil and/or constitutional infringement of rights (specifically including violations of the Federal Civil Right Statutes), arising indirectly or directly in connection with or under, or as a result of, this or any Contract by virtue of any act or omission of any of the Proposer's officers, employees, subcontractors, and/or agents, provided that the Proposer shall not be liable for claims, obligations, damages, penalties, causes of action, costs and expenses arising solely from any act or omission of the Village's officers, officials, employees, volunteers and/or agents.

    The proposer shall hold the Village harmless for any and all claims for labor, material, apparatus, equipment, fixtures or machinery furnished to the proposer for the purpose of performing the work under the Contract; and the payment of all direct and indirect damages to any person, firm, company or corporation suffered or sustained on account of the performance of such work during the time the Contract is in force.

14. **Insurance** – Certificates of Insurance and Additional Insured Endorsement shall be presented to the Village within fifteen (15) days after the receipt by the proposer of the Notice of Award and the unexecuted Contract, it being understood and agreed that the Village will not approve and execute the Contract or will the bid guarantee be returned until acceptable insurance certificates are received and approved by the Village.

    Each proposer performing any work pursuant to an Contract with the Village and each permittee working under a permit as required pursuant to the provisions of Title 1, Chapter 8 of the Code of Ordinances of the Village (hereinafter referred to as "Insured") shall be required to carry such insurance as specified herein. Such proposer and permittee shall procure and maintain for the duration of the Contract or permit insurance against claims for injuries to persons or damages to property, which may arise from or in connection with the performance of the work under the Contract or permit, by either the proposer, permittee, or their agents, representatives, employees or subcontractors.

    A contractor or permittee shall maintain insurance with limits no less than:

    a) General Liability - $1,000,000 combined single limit per occurrence for bodily injury, personal injury and property damage, provided that when the estimated cost of the work in question does not exceed $5,000 the required limit shall be $500,000;

    b) Automobile Liability (if applicable) - $1,000,000 combined single limit per accident for bodily injury and property damage;

    c) Worker's Compensation and Employer's Liability - Worker's Compensation limits as required by the Labor Code of the State of Illinois and Employer's Liability limits of $1,000,000 per accident.

    Any deductibles or self-insured retention must be declared to and approved by the Village. At the option of the Village, either the insurer shall reduce or eliminate such deductible or self-insured retention as respects the Village, its officers, officials, employees and volunteers; or the Insured shall procure a bond

guaranteeing payment of losses and related investigations, claim administration and defense expenses to the extent of such deductible or self-insured retention.

The policies shall contain, or be endorsed to contain, the following provisions:

d) General Liability and Automobile Liability Coverage -

I. The Village, its officers, officials, employees and volunteers are to be covered as additional insureds as respects: liability arising out of activities performed by or on behalf of the Insured; premises owned, occupied or used by the Insured. The coverage shall contain no special limitations on the scope of protection afforded to the Village, its officers, officials, employee's volunteers or agents.

II. The Insured's insurance coverage shall be primary insurance as respects the Village, its officers, officials, employees, volunteers and agents. Any insurance or self-insurance maintained by the Village, its officers, officials, employees, volunteers or agents shall be in excess of the Insured's insurance and shall not contribute with it.

III. Any failure to comply with reporting provisions of the policies shall not affect coverage provided to the Village, its officers, officials, employees, volunteers or agents.

IV. The Insured's insurance shall apply separately to each covered party against whom claim is made or suit is brought except with respect to the limits of the insurer's liability.

e) Worker's Compensation and Employer's Liability Coverage

The policy shall waive all rights of subrogation against the Village, its officers, officials, employees, volunteers and agents for losses arising from work performed by the insured for the Village.

Each insurance policy shall be endorsed to state that coverage shall not be suspended, voided, canceled by either party, reduced in coverage or in limits except after thirty (30) days prior written notice by certified mail has been given to the Village. Each insurance policy shall name the Village, its officers, officials and employees, volunteers and agents as additional Insureds. Insurance is to be placed with insurers with a Best's rating of no less than A: VII.

Each Insured shall furnish the Village with certificates of insurance and with original endorsements affecting coverage required by this provision. The certificate and endorsements for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. The certificates and endorsements are to be on forms approved by the Village and shall be subject to approval by the Village Attorney before work commences. The Village reserves the right to require complete, certified copies of all required insurance policies, at any time.

Each insured shall include all subcontractors as insureds under its policies or shall furnish separate certificates and endorsements for each subcontractor. All coverages for subcontractors shall be subject to all of the requirements stated herein.

15. **Equal Opportunity** – The Proposer will not discriminate against any employee or applicant for employment because of race, color, religion, sex, ancestry, national origin, place of birth, age or handicap unrelated to bona fide occupational qualifications.

16. **Execution of Documents** – The Proposer, in signing his Proposal on the whole or on any portion of the work, shall conform to the following requirements:

    Proposals signed by an individual other than the individual represented in the Proposal documents shall have attached thereto a power of attorney, evidencing authority to sign the Proposal in the name of the person for whom it is signed.
    Proposals that are signed for a partnership shall be signed by all of the partners or by an attorney-in-fact. If signed by an attorney-in-fact, there shall be attached to the Proposal a power of attorney evidencing authority to sign the proposal, executed by the partners.

    Proposals that are signed for a corporation shall have the correct corporate name thereof and the signature of the President or other authorized officer of the corporation manually written below the corporate name.

    If an official other than the President of the Corporation manually signs such Proposal, a certified copy of a resolution of the board of directors evidencing the authority of such official to sign the Proposal shall be attached to it. Such Proposal shall also bear the attesting signature of the Secretary of the corporation and the impression of the corporate seal.

    The Contract shall be deemed as have been awarded when formal notice of award shall have been duly served upon the intended awardee.

17. **Non-Discriminating** – The Proposer, its employees and subcontractors, agrees not to commit unlawful discrimination and agrees to comply with applicable provisions of the Illinois Human Rights Act, the U.S. Civil Rights Act and Section 504 of the Federal Rehabilitation Act, and rules applicable to each.

18. **Negotiations** – The Village reserves the right to negotiate specifications, terms, and conditions that may be necessary or appropriate to the accomplishment of the purpose of the RFP. The Village may require the entire proposal be made an integral part of the resulting Contract. This implies that all responses, supplemental information, and other submissions provided by the proposer during discussions or negotiations will be held by the Village as contractually binding on the successful proposer.

19. **Incurred Costs** – The Village will not be liable in any way for any costs incurred by respondents in replying to this RFP. Proposer agrees to comply with all laws, ordinances, and rules of the Village and the State of Illinois.

20. **Proposer Responsibilities** – The selected Proposer will be required to assume responsibility for all services offered in this proposal. The Village will consider the selected Proposer to be the sole point of contact with regard to contractual matters, including payment of any and all charges resulting from the Contract.

21. **Default** – The Contract may be canceled or annulled by the Village in whole or in part by written notice of default to the Proposer upon nonperformance or violation of Contract terms. An award may be given to another proposer with services similar to those so terminated. Failure of the Proposer to deliver services within the time stipulated on his offer, unless extended in writing by the Village, shall constitute Contract default.

22. **Independent Contractor** – There is no employee/employer relationship between the Proposer and the Village. Proposer is an independent contractor and not the Village's employee for all purposes, including, but not limited to, the application of the Fair Labors Standards Act minimum wage and overtime payments, Federal Insurance Contribution Act, the Social Security Act, the Federal Unemployment Tax Act, the Worker's Compensation Act (820 ILCS 305/1, et *seq.*). The VILLAGE will not (i) provide any form of insurance coverage, including but not limited to health, worker's

compensation, professional liability insurance, or other employee benefits, or (ii) deduct any taxes or related items from the monies paid to Proposer. The performance of the services described herein shall not be construed as creating any joint employment relationship between the Proposer and the Village, and the Village is not and will not be liable for any obligations incurred by the Proposer, including but not limited to unpaid minimum wages and/or overtime premiums, nor does there exist an agency relationship or partnership between the Village and the Proposer.

23. **Governing Law** – The laws of the State of Illinois as to interpretation, performance and enforcement shall govern this Contract. The forum for resolving any disputes concerning the parties' respective performance or failure to perform under this Contract shall be the Circuit Court for the Eighteenth Judicial Circuit, DuPage County, Illinois.

24. **Substitutions:**

A. Certain materials and equipment are specified by a manufacturer or trade name to establish standards of quality and performance and not for the purpose of limiting competition. Proposers are invited to submit proposals not only on named items but also on items which they propose for substitution of named items. Products of other manufacturers may be substituted, if, in the opinion of the Village, they are equal to those specified in quality, performance, design and suitability for intended use. Where two or more items are specified, the selection among those specified is the Proposer's option, or he may submit his proposal on all such items.

B. Proposals shall be based on materials included in the specifications. Substitutions for the purpose of evaluating proposals will be considered only if proposed substitutions are set forth in the sealed proposal and will only be accepted prior to the award of the contract. The offer of substitutions shall be an integral part of the proposal, appearing immediately after all requested proposals and before the signature of the Proposer.

C. Substitutions of materials other than those specified will not be considered in the base proposal price. However, other substitutions may be listed in the specified place in the Proposal Form, with the indication of the change in the base proposal price for the total cost.

D. In addition to the requirements heretofore mentioned, in order for substitutions to qualify for consideration, the following shall accompany each proposal:

1. Each proposed substitution shall be itemized showing manufacturer name, catalog number, quantity, unit cost and total cost. The Proposer shall prepare the necessary forms to list his substitutions in the manner outlined.

2. Each proposal offering substitutions shall be accompanied by descriptive literature, catalog data, complete technical specifications and reports of all pertinent tests concerning the Proposer's proposed substitutions

25. **Guarantee** – Successful Proposer will guarantee his own work for a period of one (1) year against faulty material and/or workmanship. If any defects(s) appear(s) within the one (1) year guarantee period, the contractor will repair any such defect(s) solely at his cost and at no cost to the Village of Oak Brook. The Contractor will also forward copies of all applicable manufacture's warranties for all equipment/commodities supplied by the Contractor as a part of the Contract.

26. **Warranty** – Successful Proposer will also forward copies of all applicable manufacturer's warranties for all equipment/commodities supplied as part of a Contract.

27. **Assignment** – Neither the Village nor the successful proposer shall assign or transfer any rights or obligations under this Contract without the prior written consent of the other party, which consent shall not be unreasonably withheld.

28. **Governing Law** – This Contract shall be governed by the laws of the State of Illinois as to interpretation, performance and enforcement. The forum for resolving any disputes concerning the parties' respective performance or failure to perform under this Contract shall be the Circuit Court for the Eighteenth Judicial Circuit, DuPage County, Illinois.

29. **Inspection/Testing/Rejection** – The Village shall have the right to inspect all or any part of the Work and to reject all or any part of the Work that is, in the Village's judgment, defective or damaged or that in any way fails to confirm strictly to the requirements of this proposal, without limiting its other rights or remedies, may require correction or replacement at Proposer's cost, perform or have performed all Work necessary to complete or correct all or any part of the Work that is defective, damaged, or nonconforming and charge Proposer with any excess cost incurred thereby, or cancel all or any part of any order or this proposal/contract. Work so rejected may be returned or held at Proposer's expense and risk.

30. **Performance Clause** – In the event the quality of service becomes unacceptable, the Village reserves the right to cancel the contract after giving seven (7) days written notice.

31. **Safety** – The successful proposer and any subcontractors shall comply with all provisions of the Federal Occupational Safety and Health Act of 1970 (84 Stat. 1590), as amended.

32. **Force Majeure** – A force majeure occurrence is an event or effect that cannot be reasonably anticipated or controlled and is not due to the negligence or willful misconduct of the affected party.

    Unless otherwise agreed in the Contract between the parties expressly or impliedly, where a party to a Contract fails to perform one or more of its contractual duties, the consequences set out in this clause will follow if and to the extent that the party proves: (a) that its failure to perform was caused by an impediment beyond its reasonable control; (b) that it could not reasonably have been expected to have taken the occurrence of the impediment into account at the time of the signing of the contract; and (c) that it could not reasonably have avoided or overcome the effects of the impediment.

    A party invoking this clause **shall** be presumed to have established the conditions described in the preceding paragraph in the case of the occurrence including, but not limited to, one or more of the following impediments or other similar causes beyond the control of the Contractor or the Village in the performance of the Contract where non-performance, by exercise of reasonable diligence, cannot be prevented:

    - acts of God or natural disaster such as but not limited to violent storm, cyclone, typhoon, hurricane, tornado, blizzard, earthquake, volcanic activity, landslide, tidal wave, tsunami, flood, damage or destruction by lightning, drought;

    - acts of war (whether declared or not), armed conflict or the serious threat of the same (including but not limited to hostile attack, blockade, military embargo), hostilities, invasion, act of a foreign enemy, extensive military mobilization;

- civil war, riot, rebellion, revolution, military or usurped power, insurrection, civil commotion or disorder, mob violence, act of civil disobedience;

- acts of public enemies, acts of terrorism, sabotage or piracy;

- **plague, epidemic, pandemic, outbreaks of infectious disease or any other public health crisis, including quarantine or other employee restrictions;**

- act of authority whether lawful or unlawful, compliance with any law or governmental order, rule, regulation or direction, curfew restriction, expropriation, compulsory acquisition, seizure of works, requisition, nationalization;

- explosion, fire, destruction of machines, equipment, factories and of any kind of installation, prolonged break down of transport, telecommunication or electric current;

- general labor disturbance such as but not limited to boycott, strike and lock-out, go-slow, occupation of factories and premises;

- shortage or inability to obtain critical material or supplies to the extent not subject to the reasonable control of the subject Party.

The affected party **shall** provide the other party with written notice of any force majeure occurrence as soon as the delay is known and provide the other party with a written contingency plan to address the force majeure occurrence. Furthermore, the affected party **shall** use its commercially reasonable efforts to resume proper performance within an appropriate period of time. Notwithstanding the foregoing, if the force majeure condition continues beyond 30 days, the parties to the Contract **shall** jointly decide on an appropriate course of action that will permit fulfillment of the parties' objectives under the contract.

Contractor **shall not** be entitled to an adjustment in Contract price or other non-price related items caused by or within the control of Contractor. Delay, disruption, and interference attributable to and within the control of a subcontractor or supplier shall be deemed to be within the control of Contractor.

Section 7. Attachments

Attachment A – Proposer Questionnaire

Attachment B – Statement of Proposer's Qualifications

Attachment C – Proposal Certification

Attachment D – Contract

Attachment E – Performance and Payment Bonds

Attachment A - Proposer Questionnaire

FIRM NAME MacQueen Equipment LLC DBA MacQueen

CONTACT PERSON John Kenna

ADDRESS 1401 N Farnsworth Ave, Aurora, IL 60505

Headquarters: 1125 7th Street E, St Paul, MN 55106

PHONE NUMBER 630-303-8773

EMAIL ADDRESS john.kenna@macqueengroup.com

WHEN ORGANIZED 1961

WHERE ORGANIZED St Paul MN

LICENSED IN ILLINOIS? Yes - DL5382

NUMBER OF YEARS IN PRACTICE? 65 years

HAS THE FIRM EVER REFUSED TO ENTER INTO AN CONTRACT?
If yes, please submit details No

HAS THE FIRM EVER DEFAULTED ON AN CONTRACT?
If yes, please submit details No

WHERE IS YOUR NEAREST OFFICE TO OAK BROOK? Aurora, IL

HOW MANY PEOPLE ARE EMPLOYED IN THE NEAREST OFFICE TO OAK BROOK? Estimated 30

Attachment B – Statement of Proposer's Qualifications

All questions must be answered, and the data given must be clear and comprehensive. This statement must be notarized. If necessary, questions may be answered on separate attached sheets. The Proposer may submit any additional information he or she desires.

1. Name of Proposer: MacQueen Equipment LLC DBA MacQueen

2. Permanent main office address: Headquarters: 1125 7th Street E, St Paul, MN 55106

3. When organized: 1961

4. If a corporation, where incorporated: _____

5. How many years have you been engaged in the contracting business under your present firm or trade name: 65 years

6. Contracts on hand: (Schedule these, showing amount of each contract and the appropriate anticipated dates of completion) _____

7. General character of work performed by your company: Fire Apparatus Sales & Service

8. Have you ever defaulted on a contract: No

9. List, on an attached sheet, the more important projects recently completed by your company, stating the approximate cost for each, and the month and year completed. Include a contact person and phone # for each.

10. List your major equipment ***available for this contract***: _____

11. Experience in work similar in importance to this project: 25+ Years

12. Background and experience of the principal members of your organization, including the officers.
    Michael Purdy CEO 18 years sales, sales development
    Jeff Osterhues CSMO 39 years marketing, sales, business development
    Ryan St Arnold CFO 17 years financial analysis & planning

13. Credit available: We do not provide this information

14. Bank reference: Old National Bank, 1570 Concordia Ave, St Paul MN 55104 Account #105264399
    Banker = Jeffrey Svien phone 763-347-8455

15. Will you, upon request, fill out a detailed financial statement and furnish any other information that may be required by the Village of Oak Brook: Yes, upon request.

16. The undersigned hereby authorizes and requests any person, firm, or corporation to furnish any information requested by the Village of Oak Brook in verification of the recitals comprising this Statement of Proposer's Qualifications.

DATED at Aurora, Illinois this 7 day of April, 2026.

By: John Kenna, Sales Representative
Title

STATE OF ILLINOIS)
) SS.
COUNTY OF)

John Kenna being duly sworn deposes and says that he is the Sales Rep of MacQueen and that the answers to the foregoing questions and all statements therein contained are true and correct.

SUBSCRIBED and sworn to before me this 7 day of April, 2026.

ANGELA M DVORAK
Official Seal
Notary Public - State of Illinois
My Commission Expires Jul 11, 2026

Notary Public

Attachment C – Proposer's Certification

The undersigned, being first duly sworn an oath, deposes and states that he has the authority to make this certification on behalf of the Proposer for the construction, product, commodity, or service briefly described as follows:

"Aerial Ladder Truck Purchase"

(A) The undersigned certifies that, pursuant to Chapter 720, Section 5/33E of the Illinois Compiled Statutes, 1993, the Proposer is not barred from submitting a proposal on this contract as a result of a conviction for the violation of State of Illinois laws prohibiting bid-rigging or bid-rotating.

(B) The undersigned states under oath that, pursuant to Chapter 65, Section 5/11-42.1-1 of the Illinois Compiled Statutes, 1993, the Proposer is not delinquent in the payment of any tax administered by the Illinois Department of Revenue.

(C) The undersigned certifies that, pursuant to Chapter 775, Section 5/2-105. of the Illinois Compiled Statutes, 1993, the Proposer has a written sexual harassment policy in place including the following information:

1. An acknowledgment of the illegality of sexual harassment.
2. The definition of sexual harassment under State law.
3. A description of sexual harassment, utilizing examples.
4. The contractor's internal complaint process including penalties.
5. The legal recourse, investigative and complaint process available through the Illinois Department of Human Rights and the Human Rights Commission.
6. Directions on how to contact the Department or the Commission.

(D) The undersigned states and certifies it will provide a drug free workplace by complying with Section 3 of the Illinois Drug Free Workplace Act, being 30 ILCS 580/3.

This business firm is: (check one)

_____ Corporation X Partnership _____ Individual

Firm Name: MacQueen Equipment LLC DBA MacQueen

Address: 1125 7th Street E

City, State, ZIP: St Paul, MN 55106

Signature: _____

Name Printed: John Kenna

Title: Sales Representative

Telephone: 630-303-8776 Date: 4/7/26

ATTEST:

ANGELA M DVORAK
Official Seal
Notary Public - State of Illinois
My Commission Expires Jul 11, 2026

-SEAL-

SUBSCRIBED AND SWORN TO
before me this 7 day
of April, 2026.

Notary Public

Attachment D – Contract

Aerial Ladder Truck Purchase

1. THIS CONTRACT, made and concluded this _____ day of _____, 2026, between the Village of Oak Brook, a municipal corporation, acting by and through its President and Board of Trustees, known as VILLAGE, and _____
his executors, administrators, successors or assigns, known as CONTRACTOR.

2. WITNESSETH: That for and in consideration of the payments and Contracts mentioned in the Proposal hereto attached, to be made and performed by the VILLAGE, and according to the terms expressed in the Bond (if applicable) referring to these presents, the CONTRACTOR agrees, at their own proper cost and expense, to do all work, furnish all materials and all labor necessary to complete the work in accordance with the plans and specifications hereinafter described, and in full compliance with all of the terms of this Contract.

3. PERIOD OF CONTRACT: This Contract will be in full force for the current calendar year, beginning on the date of the Contract. This Contract is subject to the right of the VILLAGE to cancel and terminate the same at any time, with or without cause, by giving not less than ten (10) day notice to the CONTRACTOR. In the event of such cancellation, the CONTRACTOR shall be entitled to receive payment for services and work performed and materials and equipment furnished under the terms of the Contract prior to the effective date of such cancellation but shall not be entitled to receive any damages on account of such cancellation or any further payment whatsoever.

4. And it is also understood and agreed that the entire Proposal Package hereto attached, approved by the VILLAGE this _____ day of _____, 2026, are all essential documents of this contract and are a part hereof.

5. IN WITNESS WHEREOF, the said parties have executed these presents on the above mentioned date.

ATTEST: VILLAGE OF OAK BROOK

_____ By_____
Village Clerk Village Manager

ATTEST: CORPORATE NAME:

_____ _____

_____ By_____ Secretary
Contractor

Partners doing Business under
the firm name of

_____
Party of the Second Part

(If a Co-Partnership)

_____

_____

_____

(If an Individual)

_____
Party of the Second Part

Attachment E – Performance and Payment Bonds

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS: that ***[FULL NAME, ADDRESS AND ORGANIZATION OF CONTRACTOR]***, as Principal, hereinafter called Contractor, and ***[FULL NAME AND ADDRESS OF SURETY]***, as Surety, a corporation organized and existing under the laws of the State of ***[INCORPORATION]***, hereinafter called Surety, are held and firmly bound unto the Village of Oak Brook, as Obligee, hereinafter called Owner, in the full and just sum of ***[CONTRACT PRICE]*** Dollars, for the payment of which sum of money well and truly to be made, Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents, said amount to include payment of actual costs and damages and for attorneys' fees, architectural fees, design fees, engineering fees, accounting fees, testing fees, consulting fees, administrative costs, court costs, interest and any other fees and expenses resulting from or incurred by reason of Contractor's failure to promptly and faithfully perform its contract with Owner, said contract being more fully described below, and to include attorneys' fees, court costs and administrative and other expenses necessarily paid or incurred in successfully enforcing performance of the obligation of Surety under this bond.

WHEREAS, Contractor has entered into a written Contract dated ***[DATE OF CONTRACT AGREEMENT]***, with Owner entitled "Contract Agreement Between Village of Oak Brook and ***[CONTRACTOR'S NAME]*** for the "Oak Brook Aerial Ladder Purchase" (the "Contract"), the terms and conditions of which are by this reference incorporated herein as though fully set forth herein.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH THAT if Contractor shall well, truly, and promptly perform all the undertakings, covenants, terms, conditions, and Contracts of said otherwise, under the Contract, including, but not limited to, Contractor's obligations under the Contract: (1) to provide, perform and complete at the Work Site and in the manner specified in the Contract all necessary work, labor, services, transportation, equipment, materials, apparatus, machinery, tools, fuels, gas, electric, water, waste disposal, information, data, and other means and items necessary for the design, if any, construction, and delivery of the **Oak Brook Aerial Ladder Purchase,** together with related attachments, equipment, and appurtenances thereto; (2) to procure and furnish all permits, licenses, and other governmental approvals and authorizations necessary in connection therewith except as otherwise expressly provided in the Special Conditions of Contract; (3) to procure and furnish all bonds and certificates and policies of insurance specified in the Contract; (4) to pay all applicable federal, state, and local taxes; (5) to do all other things required of Contractor by the Contract; and (6) to provide, perform, and complete all of the foregoing in a proper and workmanlike manner and in full compliance with, and as required by and pursuant to, the Contract; all of which is herein referred to as the "Work," whether or not any of said Work enter into and become component parts of the improvement contemplated, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

Surety, for value received, hereby stipulates and agrees that no changes, modifications, alterations, omissions, deletions, additions, extensions of time, or forbearances on the part of either Owner or Contractor to the other in or to the terms of said Contract; in or to the schedules, plans, drawings, or specifications; in or to the method or manner of performance of the Work; in or to Owner-furnished facilities, equipment, materials, services, or sites; or in or to the mode or manner of payment therefor, shall in any way release Contractor and Surety or either or any of them, or any of their heirs, executors, administrators, successors, or assigns, or affect the obligations of Surety on this bond, all notice of any and all of the foregoing changes, modifications, alterations, omissions, deletions, additions, extensions of time, or forbearances, and

notice of any and all defaults by Contractor or of Owner's termination of Contractor being hereby waived by Surety.

Notwithstanding anything to the contrary in the foregoing paragraph, in no event shall the obligations of Surety under this bond in the event of Contractor's default be greater than the obligations of Contractor under the Contract in the absence of such Contractor default.

In the event of a default or defaults by Contractor, Owner shall have the right to take over and complete the Contract upon 30 calendar days' written notice to Surety, in which event Surety shall pay Owner all costs incurred by Owner in taking over and completing the Contract.

At its option, Owner may instead request that Surety take over and complete the Contract, in which event Surety shall take reasonable steps to proceed promptly with completion no later than 30 calendar days from the date on which Owner notifies Surety that Owner wants Surety to take over and complete the Contract.

Owner shall have no obligation to actually incur any expense or correct any deficient performance of Contractor in order to be entitled to receive the proceeds of this bond.

No right of action shall accrue on this bond to or for the use of any person or corporation other than Owner or the heirs, executors, administrators, or successors of Owner.

Signed and sealed this ___ day of _____, 2026.

Attest/Witness:	PRINCIPAL: ***[NAME OF CONTRACTOR]***
By: _____	By: _____ ***[NAME OF CONTRACTOR'S EXECUTING OFFICER]***
Title: _____	Title: ***[TITLE OF CONTRACTOR'S EXECUTING OFFICER]***
Attest/Witness:	SURETY: ***[NAME OF SURETY]***
By: _____	By: _____
Title: _____	Title: _____
	Telephone: _____

LABOR AND MATERIAL PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS: that ***[FULL NAME, ADDRESS AND ORGANIZATION OF CONTRACTOR]***, as Principal, hereinafter called Contractor, and ***[FULL NAME AND ADDRESS OF SURETY]***, as Surety, a corporation organized and existing under the laws of the State of ***[INCORPORATION]***, hereinafter called Surety, are held and firmly bound unto the Village of Oak Brook, as Obligee, hereinafter called Owner, for the use and benefit of itself and of claimants as hereinafter defined, in the full and just sum of ***[CONTRACT PRICE]*** Dollars ***[CONTRACT PRICE]***, to be paid to it or the said claimants or its or their assigns, to which payment well and truly to be made Contractor and Surety bind themselves, their heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents, said amount to include attorney's fees, court costs, and administrative and other expenses necessarily paid or incurred in successfully enforcing performance of the obligation of Surety under this bond.

WHEREAS, Contractor has entered into a written Contract dated ***[DATE OF CONTRACT AGREEMENT]***, with Owner entitled "Contract Agreement Between Village of Oak Brook and ***[CONTRACTOR'S NAME]*** for the "Oak Brook Aerial Ladder Purchase" (the "Contract"), the terms and conditions of which are by this reference incorporated herein as though fully set forth herein.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH THAT if Contractor shall promptly pay or cause to be paid all sums of money that may be due to any claimant with respect to Contractor's obligations under the Contract: (1) to provide, perform, and complete at the Work Site and in the manner specified in the Contract all necessary work, labor, services, transportation, equipment, materials, apparatus, machinery, tools, fuels, gas, electric, water, waste disposal, information, data, and other means and items necessary for design, if any, construction, and delivery of Oak Brook Aerial Ladder Purchase and together with related attachments, equipment, and appurtenances thereto; (2) to procure and furnish all permits, licenses, and other governmental approvals and authorizations necessary in connection therewith except as otherwise expressly provided in the Special Conditions of Contract; (3) to procure and furnish all bonds and certificates and policies of insurance specified in the Contract; (4) to pay all applicable federal, state, and local taxes; (5) to do all other things required of Contractor by the Contract; and (6) to provide, perform, and complete all of the foregoing in a proper and workmanlike manner and in full compliance with, and as required by and pursuant to, the Contract; all of which is herein referred to as the "Work," whether or not any of said Work enter into and become component parts of the improvement contemplated, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

For purpose of this bond, a claimant is defined as one having a direct contract with Contractor or with a subcontractor of Contractor to provide, perform or complete any part of the Work.

Contractor and Surety hereby jointly and severally agree that every claimant who has not had all just claims for the furnishing of any part of the Work paid in full, including, without limitation, all claims for amounts due for materials, lubricants, oil, gasoline, rentals of, or service or repairs on, machinery, equipment, and tools consumed or used in connection with the furnishing of any part of the Work, may sue on this bond for the use of such claimant, may prosecute the suit to final judgment for such sum or sums as may be justly due such claimant, and may have execution therein; provided, however, that Owner shall not be liable for the payment of any costs or expenses of any such suit. The provisions of 30 ILCS 550/1 and 30 ILCS 550/2 shall be deemed inserted herein, including the time limits within which notices of claim must be filed and actions brought under this bond.

Contractor and Surety hereby jointly agree that Owner may sue on this bond if Owner is held liable to, or voluntarily agrees to pay, any claimant directly, but nothing in this bond shall create any duty on the part of Owner to pay any claimant.

Surety, for value received, hereby stipulates and agrees that no changes, modifications, alterations, omissions, deletions, additions, extensions of time, or forbearances on the part of Owner or

Contractor to the other in or to the terms of said Contract; in or to the schedules, plans, drawings, or specifications; in or to the method or manner of performance of the Work; in or to Owner-furnished facilities, equipment, materials, services, or sites; or in or to the mode or manner of payment therefor shall in any way release Contractor and Surety or either or any of them, or any of their heirs, executors, administrators, successors, or assigns, or affect the obligations of said Surety on this bond, all notice of any and all of the foregoing changes, modifications, alterations, omissions, deletions, additions, extensions of time, or forbearances and notice of any and all defaults by Contractor or of Owner's termination of Contractor being hereby waived by Surety.

Signed and sealed this ___ day of _____, 2026.

Attest/Witness: PRINCIPAL: ***[NAME OF CONTRACTOR]***

By: _____ By: _____
[NAME OF CONTRACTOR'S EXECUTING OFFICER]

Title: _____ Title: ***[TITLE OF CONTRACTOR'S EXECUTING OFFICER]***

Attest/Witness: SURETY: ***[NAME OF SURETY]***

By: _____ By: _____

Title: _____ Title: _____

Telephone: _____

State of Illinois)
) SS.
County of _____)

I, _____, a Notary Public in and for said county, do hereby certify that _____ (names of individuals signing on behalf of Principal and Surety) who are each personally known to me to be the same persons whose names are subscribed to the foregoing instrument on behalf of PRINCIPAL and SURETY, appeared before me this day in person and acknowledged respectively, that they signed and delivered said instrument as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this ____ day of _____, 2026.

_____
Notary Public

My commission expires:

_____

April 9, 2026

Battalion Chief Kevin Fleege
Village of Oak Brook
1200 Oak Brook Road
Oak Brook, IL 60523

Subject: **Proposal for one (1) Pierce Enforcer PUC 107' ASL Tandem Ladder**
Proposal / Bid 1433

Dear Battalion Chief Fleege,

With regard to the above subject, please find attached our completed proposal. Pricing, is as follows, including 100% prepay option.

Pricing Summary:

Sale Price – **$2,026,999.00***
**Sourcewell Consortium Pricing, Member ID 60964.*

100% Performance Bond:

Included in the above sale price.

100% Prepayment Option:

Should the Village of Oak Brook elect to make a 100% prepayment at contract signing, a discount of ($189,407.00) can be subtracted from the above "Sale Price" resulting in a revised contract price of **$1,837,592.00**.

Terms and Conditions:

Taxes – Not Applicable

Freight – F.O.B. – Appleton, WI / Shipping to Oak Brook, IL

Terms – Net due prior to vehicle(s) release at the Pierce Manufacturing Plant (Appleton, WI). Net due at Contract signing for **Prepay discount** to be applicable.

Delivery* – 47 - 50 months from receipt and acceptance of contract.

**Due to global supply chain constraints, any delivery date contained herein is a good faith estimate as of the date of this order/contract, and merely an approximation based on current information. Delivery updates will be made available, and a final firm delivery date will be provided as soon as possible.*

Said apparatus and equipment are to be built and shipped in accordance with the specifications hereto attached, delays due to strikes, war, or international conflicts, or other causes beyond our control not preventing, could alter the delivery schedule.

The specifications herein contained, shall form a part of the final contract, and are subject to changes as desired by the purchaser, provided such changes are acknowledged and agreed to in writing by the purchaser.

Various state or federal regulation agencies (e.g., NFPA, DOT, EPA) may require changes to the Specifications and/or the Product and in any such event any resulting cost increases incurred to comply therewith will be added to the Purchase Price to be paid by the Customer. Any future drive train upgrades (engine, transmission, axles, etc.) or any other specification changes have not been calculated into our annual increases and will be provided at additional cost. The Company reserves the right to update pricing in response to manufacturer-imposed increases as a result of PPI inflation. The Company will document and itemize any such price increase for the Customer's review and approval before proceeding. Should the customer choose not to accept the pricing update, the customer has the ability to cancel without penalty.

This proposal for fire apparatus conforms with all Federal Department of Transportation (DOT) rules and regulations in effect at the time of bid, and with all National Fire Protection Association (NFPA) Guidelines for Automotive Fire Apparatus as published at the time of bid, except as modified by customer specifications.

The attached proposal is valid for sixty (60) days.

We trust the above and the enclosed to be full and complete at this time; however, should you have any questions or require additional information, please do not hesitate to contact me at 630-303-8776 or john.kenna@macqueengroup.com .

We wish to thank the Village of Oak Brook for the opportunity to submit our proposal.

Respectfully,

John Kenna

John Kenna
Apparatus Sales
MacQueen Equipment LLC
DBA MacQueen

Option List

4/9/2026

Customer:	Oak Brook Fire Department, Village of	**Bid Number:**	1433
Representative	Kenna, John	**Job Number:**	
Organization:	MacQueen Emergency Group	**Number of Units:**	1
Requirements Manager:		**Bid Date:**	04/30/2026
Description:	Oak Brook PUC	**Stock Number:**	
Body:	Aerial, HD Ladder 107' ASL Tandem, PUC, Alum Body	**Price Level:**	54 (Current: 54)
Chassis:	Enforcer Chassis, Aerials, Tandem Axle, Ascendant/LSL, PUC-NG	**Lane:**	Lane 1

Line	Option	Type	Option Description	Qty
1	0010012		No Boiler Plates requested	1
2	0018180		Single Source Compliance, Aerials	1
3	0584456		Manufacture Location, Appleton, Wisconsin	1
4	0584452		RFP Location: Appleton, Wisconsin	1
5	0588609		Vehicle Destination, US	1
6	0816491		Comply NFPA 1900 Changes Effective Jan 1, 2024, With Exceptions	1
7	0533351		Quint Fire Apparatus	1
8	0588612		Vehicle Certification, Aerial w/Pump	1
9	0681278		Agency, Apparatus Certification, Aerial w/Pump, U.L.	1
10	0816495		Certification, Vehicle Inspection Program, NFPA 1900	1
11	0766110		Consortium, Sourcewell	1
12	0537375		Unit of Measure, US Gallons	1
13	0030006		Bid Bond Not Requested	1
14	0816573		Performance Bond, 100% with 25% Warranty Bond, 3 Yrs, and Payment Bond,PPI Terms	1
15	0000007		Approval Drawing	1
16	0002928		Electrical Diagrams	1
17	0889374		Enforcer Chassis, Aerials, Tandem Axle, Ascendant/LSL, PUC-NG	1
18	0000110		Wheelbase Wheelbase - TBD	1
19	0000070		GVW Rating GVW rating - TBD	1
20	0729280		Frame Rails, 13.38 x 3.50 x .375, Enforcer	1
21	0889469		Frame Liner, "C/Inv L" 12.50" x 3.00" x .25", AXT/Vel/Imp/Enf, 56" QVal	1
22	0629940		Axle, Front, Oshkosh TAK-4, Non Drive, 22,800 lb, Enforcer	1
23	0010427		Suspension, Front TAK-4, 22,800 lb, Qtm/AXT/Imp/Vel/Enf/SFR	1
24	0087572		Shock Absorbers, KONI, TAK-4, Qtm/AXT/Imp/Vel/Enf	1
25	0000322		Oil Seals, Front Axle	1
26	0899438		Tires, Front, Goodyear, Armor MAX MSA, 425/65R22.50, 20 ply	1
27	0019611		Wheels, Front, Alcoa, 22.50" x 12.25", Aluminum, Hub Pilot	1
28	0728358		Axle, Rear, Meritor RT52-185, 54,000 lb, Enforcer	1
29	0544244		Top Speed of Vehicle, 60 MPH/96 KPH	1
30	0555354		Suspen, Rear, Hendrickson FMX 542 EX, Air Ride, 54,000 lb	1
31	0000485		Oil Seals, Rear Axle	1
32	0782551		Tires, Rear, Goodyear, Endurance RSA, 12R22.50, LRH, Tandem	1
33	0019639		Wheels, Rear, Alcoa, 22.50" x 8.25", Aluminum, Hub Pilot, Tandem	1
34	0568081		Tire Balancing, Counteract Beads	1
35	0620569		Tire Pressure Monitoring, RealWheels, AirSecure, Valve Cap, Tandem Axle Qty, Tire Pressure Ind - 10	1
36	0801909		Lug Nut, Covers, Chrome	1
37	0003245		Axle Hub Covers w/center hole, S/S, Front Axle	1
38	0013241		Axle Hub Covers, Rear, S/S High Hat (Tandem)	1
39	0002045		Mud Flap, Front and Rear, Pierce Logo	1
40	0021931		Tire, "Crossfire" Air Pressure Equalization (tandem)	1
41	0601010		Chocks, Wheel, SAC-44-E, Folding, Aerials Qty, Pair - 01	1
42	0601009		Mounting Brackets, Chocks, SAC-44-E, Folding, Horizontal, Aerials Qty, Pair - 01 Location, Wheel Chocks - Left Side Rear Tire, Forward	1
43	0593759		ESC/ABS/ATC Wabco Brake System, Tandem Rear Axle	1

Line	Option	Type	Option Description	Qty
44	0030185		Brakes, Knorr/Bendix 17", Disc, Front, TAK-4	1
45	0000730		Brakes, Meritor, Cam, Rear, 16.50 x 7.00"	1
46	0735527		Air Compressor, Brake, Wabco 26.8 CI, Paccar	1
47	0637583		Brake Reservoirs, 6,408 Cubic Inch Minimum Capacity, Saber FR/Enforcer	1
			Paint Color, Air Tanks - Black #98	
48	0617092		Air Dryer, Wabco System Saver 1200, With Wet Tank, Heated,Saber FR/Enforcer	1
49	0000790		Brake Lines, Nylon	1
50	0000854		Air Inlet, w/Disconnect Coupling	1
			Location, Air Coupling(s) - DS Step Well, Forward	
			Qty, Air Coupling (s) - 1	
51	0646276		Box, Recessed, Smooth Alum, for Air Fitting	1
			Location - DS step	
			Qty, Air Coupling (s) - 1	
52	0070810		All Wheel Lockup (Aerial/Tanker Chassis)	1
53	0014130		Air Tank, Additional for Extra Air Horn Capacity	1
			Paint Color, Air Tanks - Frame color	
54	0808515		Engine, Paccar MX, 510HP, 1850 lb-ftW/OBD, EPA 2027, Saber FR/Enforcer	1
55	0811409		Not Required, Engine Contingency Adjustment	1
56	0001244		High Idle w/Electronic Engine, Custom	1
57	0735687		Engine Brake, Fully Integrated, Paccar MX13 Engine	1
			Switch, Engine Brake - Paccar	
58	0644227		Clutch, Fan, Air Actuated, Saber FR/Enforcer	1
59	0644573		Air Intake, Water & Ember Screen, Saber FR/Enforcer	1
60	0814375		Exhaust System, Horizontal, Right Side	1
			Exhaust, Diffuser - Aluminized Steel (Standard)	
			Exhaust, Material/Finish - Aluminized Steel (Standard)	
			Location, Diffuser Termination - 2.00" Past Rub Rail (Standard)	
			Tip, Exhaust - Straight Tip (Standard)	
61	0788765		Radiator, Saber FR/Enforcer	1
62	0001090		Cooling Hoses, Rubber	1
63	0803687		Fuel Tank, 65 Gallon, Left Side Fill, Rear Air Suspension	1
64	0001129		Lines, Fuel	1
65	0889521		DEF Tank, 7.3 Gallon, LS Fill, Under Cab, Paccar, Lift Up Fill Dr, Spring, ENF	1
			Door, Material & Finish, DEF Tank - Polished Stainless	
66	0552793		Not Required, Fuel Priming Pump	1
67	0552712		Not Required, Shutoff Valve, Fuel Line	1
68	0699437		Cooler, Chassis Fuel, Not Req'd.	1
69	0690880		No Selection Required From This Category	1
70	0801890		Trans, Allison 6th Gen, 4500 EVS P, w/Prognostics, Imp/Vel/Enf	1
71	0512762		Transmission, Shifter, 6-Spd, Push Button, 4500, Imp/Vel/Qtm/Enf	1
			Trans, ratio - 4500 EVS, 6Spd	
72	0517604		Transmission Programming, Park to Neutral, PUC	1
73	0684459		Transmission Oil Cooler, Modine, External	1
74	0550313		Label @ Transmission Fill Point, "Synthetic Fluid Only"	1
75	0801876		Fluid, 4000 Series Trans, Allison Approved TES-668 Synthetic, IPOS, Custom	1
76	0001375		Driveline, Spicer 1810	1
77	0734211		Steering, Sheppard M110 w/Tilt, TAK-4, Paccar Pump, w/Cooler, Paccar	1
78	0802950		Steering Wheel, 4 Spoke w/Wiper Control, Saber FR/Enforcer	1
79	0690274		Logo/Emblem, on Dash	1
			Text, Row (1) One - Oak Brook	
			Text, Row (2) Two - Fire	
			Text, Row (3) Three - Department	
80	0816786		Lube System, Vogel Auto Lube System, Tandem Rear Axle	1
			Location, Vogel Lube Pump/Reservoir - Pumphouse	
81	0783756		Bumper, 26" Ext, Underslung, Fab, .25" Steel, Paint Feat, SFR/Enf	1
			Paint, Color - red 90	
82	0802624		Tray, Tool, Center, 26" Bumper w/Outside Air Horns, 15" Dp	1
			Grating, Bumper extension - Grating, Rubber	
83	0614646		No Lift & Tow Package, Imp/Vel, AXT, SFR/Enf	1
84	0002270		Tow Hooks, Chrome, Below Deck	1
85	0611532		Tray, Full Width, 26" Bumper, Under Slung,10" H Bumper, E-Tools,AXT/SFR/Enf	1
			Grating, Bumper extension - Grating, Rubber	

Line	Option	Type	Option Description	Qty
85			Brand, Model, Age of Tool - Genesis S54-SL3 spreader / Genesis C236-SL3 cutter / Remaining area on PS of tray to be used for 1.75" hose and outlet	
86	0828601		Cover, Alum Treadplate, Flush, Underslung	1
			Type of Fastener - (2) "D" handle latch	
			Stay arm, Tray Cover - c)Pneumatic Stay Arm, Dual	
87	0803221		Coating, Top and Bottom Flange, Front Bumper, UL-LX Coating, Black	1
88	0608054		Coating, Protective UL-LX, Hose Tray Cover(s), Black	1
			Qty, Hose Tray Covers - 1	
89	0787314		Cab, Enforcer, 8410 w/Notch, PUC	1
90	0747442		Engine Tunnel, X12, MX13, Spray Insulation, Enforcer	1
91	0887601		Cab Insulation, Enforcer/Saber FR	1
92	0610508		Rear Wall, Interior, Adjustable Seating, Not Available	1
93	0632103		Rear Wall, Exterior, Cab, Saber FR/Enforcer	1
			Material, Exterior Rear Wall - Aluminum Treadplate	
94	0644201		Cab Lift, Elec/Hyd, Saber FR/Enforcer	1
95	0751131		Grille, Bright Finished, Painted Mesh Screen, Front of Cab, Enforcer	1
			Paint Color, Grille Mesh - Black #101	
96	0002224		Scuffplates, S/S At Cab Door Jambs, 4-Door Cab	1
			Material Trim/Scuffplate - c) S/S, Polished	
97	0647932		Not Required, Trim, S/S Band, Across Cab Face, AXT/Saber/Enforcer	1
98	0087357		Molding, Chrome on Side of Cab	1
99	0521669		Mirrors, Retrac, West Coast Style, Htd/Rmt, w/Htd/Rmt Convex	1
100	0072189		Mirror, 8.00" Convex, Cab Front, Front Cross View	1
101	0648170		Door, Half-Height, Saber FR/Enforcer 4-Door Cab, Raised Roof	1
			Key Model, Cab Doors - 751	
			Cab, Exterior Door Handle, Finish - 4-Door, Chrome/Black	
102	0655543		Door Panel, Brushed Stainless Steel, Saber/Enforcer 4-Door Cab	1
103	0528958		Not Required, Controls, Electric Window, AXT, Saber, Enforcer	1
104	0528251		Electric Door Locks, Cab Doors, AXT, Sab, Enf	1
105	0620344		Steps, 4-Door Cab, Dual, Saber FR/Enforcer	1
			Light, Step, Additional - P25 LED	
			Step Well Material - Aluminum Treadplate	
106	0770194		Handrail, Exterior, Knurled, Alum, 4-Door Cab	1
107	0892638		Lights, Cab & Crw Cab Acs Stps, P25, LED w/Bezel, 6lts	1
			Color, Trim - Chrome Housing	
108	0583698		Fenders, S/S on cab, Extra Wide, Saber/Enf	1
109	0621815		No Windows, Side of Crew Cab, 84" Enforcer	1
110	0779033		Not Required, Windows Rear of Crew Cab, Saber FR/Enforcer	1
111	0722796		Dash, Poly, Saber FR/Enforcer	1
112	0658077		Mounting Provisions, 3/16" Alum, Engine Tunnel, Size Feature	1
			Location - top of dog house	
			Size - Full	
			Mounting Provision Spacing - .75"	
			Material Finish, Cab Interior - Painted	
113	0750824		Cab Interior, Vinyl Headliner, Saber FR/Enforcer, CARE	1
			Color, Cab Interior Vinyl/Fabric - Endure Vinyl - Silver/Gray	
			Engine Tunnel Cover - Gray/Black Imperial 1200	
			Cab Interior Rear Wall Material - Painted Aluminum	
114	0753903		Cab Interior, Paint Color, Saber FR/Enforcer	1
			Color, Cab Interior Paint - d) red	
115	0888673		Floor, Rubber Padded, Cab & Crew Cab, Blister, Enforcer PUC-NG	1
116	0817805		HVAC, Heavy-Duty, Enforcer, Paccar, CARE	1
			Paint Color, A/C Condenser - Painted to Match Cab Roof	
			HVAC System, Filter Access - Removable Panel	
			Auxiliary Cab Heater - Both	
			HVAC System, Control Loc. - Panel Position #12	
			Plenum Cover Material - Formed Plastic	
117	0639675		Sun Visor, Smoked Lexan, AXT, Imp/Vel, SFR/Enf	1
			Sun Visor Retention - No Retention	
118	0634328		Grab Handles, Driver and Officer Door Posts, SFR/Enf	1
119	0693439		Lights, Engine Compt, Custom, Auto Sw, w/Fld Chk Dr Wln 3SC0CDCR, 3" LED Trim	1
			Qty, - 01	

Line	Option	Type	Option Description	Qty
120	0631830		Fluid Check Access, Saber FR/Enforcer, Arrow XT	1
			Latch, Door, Storage - Lift and Turn Latch, Flush	
121	0828042		Side Roll and Frontal Impact Protection, SRS	1
122	0622619		Seating Capacity, 4 Belted Seats	1
123	0636955		Seat, Driver, Pierce PSV, Air Ride, High Back, Safety, PRIMARY, SFR/Enf	1
124	0636942		Seat, Officer, Pierce PSV, Fixed, SCBA, Safety, PRIMARY, SFR/Enf	1
125	0620420		Radio Compartment, Below Non-Air Ride Seat, Saber FR/Enforcer	1
			Latch, Door, Storage - Lift and Turn Latch	
126	0757990		Cabinet, Rear Facing, LS, 23 W x 40.25 H x 26.75 D, Roll, Ext Acc, SFR/Enf	1
			Light, Short Cabinet - Pierce, Exterior, Right Side	
			Scuffplate, Material/Finish - S/S, Polished	
			Material Finish, Shelf - Painted - Cab Interior	
			Shelf/Tray, Cabinet - (1) Shelf, Adjustable, 0.75" Up-Turned Lip	
			Door, Cab Exterior Cabinet - Double Pan, Non-Locking	
			Door, Exterior Stop - Bumper	
			Door, Cab Interior Cabinet - Rollup, Amdor, Anodized, Non-Locking	
			Louvers, Cabinet - 0-No Louvers	
127	0102783		Not Required, Seat, Rr Facing C/C, Center	1
128	0635969		Seat, Rr Fcng C/C, RS Otbrd, Pierce PSV, SCBA, Safety, PRIMARY, SFR/Enf	1
129	0632946		Seat, Fwd Fcng C/C, LS Otbrd, Pierce PSV, SCBA, Foldup, Safety,SECONDARY,SFR/Enf	1
130	0783470		Cabinet, Fwd Fcng, Ctr, 42 W x 40 H x 24.75 D, Roll, SFR/Enf	1
			Light, Short Cabinet - Pierce, Interior, Right Side and Pierce, Interior, Left Side	
			Material Finish, Shelf - Painted - Cab Interior	
			Shelf/Tray, Cabinet - (2) Shelves, Adjustable, 0.75" Flange Down	
			Door, Cab Interior Cabinet - Rollup, Amdor, Anodized, Non-Locking	
			Louvers, Cabinet - 0-No Louvers	
131	0623844		Seat, Fwd Fcng C/C, RS Otbrd, Pierce PSV, Hi-Back, Safety, SECONDARY, SFR/Enf	1
132	0566653		Upholstery, Seats In Cab, Turnout Tuff	1
			Color, Cab Interior Vinyl/Fabric - c) Black	
133	0543991		Bracket, Air Bottle, Hands-Free II, Cab Seats	4
			Qty, - 04	
134	0603866		Seat Belt, Dual Retractor, ReadyReach, Saber FR/Enforcer	1
			Seat Belt Color - Red	
135	0817557		Helmet Storage, Provided by Fire Department, NFPA/ULC 2024	1
136	0647644		Lights, Dome, FRP Dual LED 6 Lts	1
			Color, Dome Lt - Red & White	
			Color, Dome Lt Bzl - Black	
			Control, Dome Lt White - Door Switches	
			Control, Dome Lt Color - Lens Switch	
137	0896451		Enhanced Software for Cab and Crew Cab Dome Lts	1
138	0816997		Portable Hand Light, Provided by Fire Dept, NFPA/ULC 2024	1
139	0622803		Cab Instruments, Black Gauges, Black Bezels, Enforcer MUX	1
			Emergency Switching - Individual Switches	
140	0509511		Air Restriction Indicator, Imp/Vel, AXT, Enf MUX	1
141	0032602		Speedometer, Class 1 w/LED, Officer Overhead	1
142	0543751		Light, Do Not Move Apparatus	1
			Alarm, Do Not Move Truck - Pulsing Alarm	
143	0509042		Messages, Open Dr/DNMT, Color Dsply,	1
144	0611683		Switching, Cab Instrument Lower Console & Overhead, Membrane, Enforcer WiFi MUX	1
145	0802946		Wiper Control, 2-Speed w/Intermittent, Steering Wheel, Left Pod, SFR/Enf	1
146	0731813		Hour Meter, Aerial, Included in Information Centers, ASL, AAT, ASP	1
147	0002615		Switch, Aerial 12V Master	1
148	0002617		PTO switch, w/light - aerial	1
149	0834416		USB, Cab, 4, 12V DC, Dual USB Termination, NFPA1900/ULC	1
			USB, Type - USB Combo A & C	
150	0820894		Wiring, Spare, 15 A 12V DC, Batt Dir, 1st NFPA1900/ULC	1
			Location, Wiring - Behind Officer Seat	
			12vdc power from - Battery direct	
			Wire termination - 10-Place Bus Bar w/Cover	

Line	Option	Type	Option Description	Qty
151	0820904		Wiring, Spare, 15 A 12V DC 1st NFPA1900/ULC	4
			Qty, - 04 12vdc power from - Battery switched Wire termination - Stud Location, Spare Wiring - TBD	
152	0820898		Wiring, Spare, 15 A 12V DC, Batt Dir, 3rd NFPA1900/ULC	1
			Location, Wiring - tbd 12vdc power from - Battery direct Wire termination - Butt Splice	
153	0820897		Wiring, Spare, 15 A 12V DC, Batt Dir, 2nd NFPA1900/ULC	1
			Location, Wiring - tbd 12vdc power from - Battery direct Wire termination - Stud	
154	0819994		Radio, Jensen, AM/FM/WB, Bluetooth	1
			Speakers, AM/FM Radio - Two (2) pairs of speakers, Cab/Crew Antenna, AM/FM Radio - c) Roof-mounted rubber antenna Location, AM/FM Radio - b) within reach of the officer	
155	0814201		Vehicle Information Center, 7" Color Display, Touchscreen, MUX, CL714	1
			System Of Measurement - US Customary	
156	0816633		Collision Mitigation, HAAS Alert (R2V), HA7	1
			Subscription, HAAS R2V - R2V - 5 Year Data Plan Subscription	
157	0606249		Vehicle Data Recorder w/CZ and Overhead Display Seat Belt Monitor	1
158	0594900		Intercom, Sigtronics US-45S, 5-Pos, 3-Radio, D,O,2C,P	1
			Location, Intercom, C Cab - 2) 2 forward facing seats	
159	0006288		Cable, Radio to Intercom Interface, Sigtronics, 1 Radio	1
			Radio, First Two-Way Model - First Two-Way Model - Motorola Starcom Astro 25 XTL 2500 P25 Modile Radio w/ Motorola O5 remote head. Part #PHCN4000A Radio, First Two-Way Make - Motorola High Power	
160	0568105		Headset, Sigtronics, SE-8 Under Helmet, Flex Mic, Standard	4
			Qty, - 04 Location - Over inside shoulder at driver, officer, pass rear facing and driver forward facing seat positions	
161	0835876		Install Customer Provided GPS Opticom System, High Priority	1
			Location - Route cable to center of instrument panel for the MDT mnount. Route the cable for second GPS antenna to the EMS cabinet. Precision to determine best location for the second antenna.	
162	0835728		Install Customer Provided Thermal Image Camera Charger(s)	1
			Location - Will be mounted on the the engine tunnel mounting plate with final location determined at construction review. Qty, Customer Supplied Battery Charger - 1	
163	0835790		Install Customer Provided MDT, Complete	1
			Location - In front of the officer, do not mount until construction review. 12vdc power from - Battery direct	
164	0835724		Install Customer Provided Handlight Charger(s)	1
			Location - Run wiring for two to the forward facing EMS cabinet and run wiring for two to the drivers side rear facing EMS cabinet. Customer will chose the exact location for the lights on the side of the EMS cabinets at construction review. Qty, Qty, Customer Supplied Battery Charger - 4	
165	0696439		Antenna Mount, Custom Chassis, Cable Routed to Instrument Panel Area	2
			Qty, - 02 Location, Antenna Mount - Left And Right Side	
166	0816158		Camera, Pierce, LS Mux, RS, LS, R, Cameras, AHD	1
			Color - 1) black Camera System Audio - Speaker Behind Driver Camera System	
167	0814861		Camera, Switcher, Pierce, 4 channel, AHD, CVBS	1
168	0890416		Pierce Command Zone, Advanced Electronics & Control System, Enforcer, WiFi CZT	1
			Color, Antenna - Black Antenna Module Housings - Black Housing with Power and Status Ind	
169	0896456		Prognostics, Electrical System	1
170	0624253		Electrical System, Enforcer MUX	1
171	0079166		Batteries, (4) Stryten/Exide Grp 31, 950 CCA ea, Threaded Stud	1

Line	Option	Type	Option Description	Qty
172	0008621		Battery System, Single Start, All Custom Chassis	1
173	0002698		Battery Compartment, Saber/Enforcer	1
174	0812586		Charger, Sngl Sys, Kussmaul, Chief 091-266-12-60, 60 Amp	1
175	0814869		Location, Cab, Charger, Behind Driver Seat	1
176	0811943		Panel, Remote Control, Kussmaul, Chief 091-266-RCP	1
177	0814939		Location, Cab, Ind/Remote, Driver's Seat Riser	1
178	0811952		Not Required, Indicator/Remote Status	1
179	0824337		Not Required, Location Ind/Remote	1
180	0016857		Shoreline, 20A 120V, Kussmaul Auto Eject, 091-55-20-120, Super	1
			Qty, - 01	
			Color, Kussmaul Cover - b) red	
			Shoreline Connection - Battery Charger	
181	0026800		Shoreline Location	1
			Location, Shoreline(s) - DS Cab Side	
182	0121711		Alternator, 320 amp, Leece-Neville 4962PA, Sgl Sys	1
183	0092582		Load Manager/Sequencer, MUX	1
			Enable/Disable Hi-Idle - e)High Idle enable	
184	0783153		Headlights, Rect LED, JW Spkr Evo 2, AXT/Enf/Imp/Sab/Vel	1
			Color, Headlight Bez - Chrome Bezel	
185	0840423		Light, Directional, Wln 600 Cmb, Cab Crn, Wrp Bzl Out Wrn Lts, Enf/Sab	1
			Color, Lens, LED's - Clear	
			Color, Trim - Chrome Trim	
186	0620054		Light, Directional/Marker, Intermediate, Weldon 9186-8580-29 LED 2lts	1
187	0735474		Lights, Clearance/Marker/ID, Front, P25 LED 7 Lts, Saber FR/Enforcer	1
			Light Guard - No Guards	
188	0625210		Lights, Directional, Cab Front Side, Truck-Lite 19036Y LED, AXT/Enf	1
189	0511569		Lights, Clearance/Marker/ID, Rear, P25 LED 7Lts	1
			Light Guard - Without Guard	
190	0602938		Light, Marker End Outline, Rubber Arm, LED Marker Lamp, Rear Body	1
			Qty, Lights, Pair - 1	
191	0804514		Lights, Tail, Wln M62BTT* Red Stop/Tail & M62T* Amber Dir Arw For Hsg	1
			Color, Lens, LED's - Clear	
			Flash Pattern, Directional Lts - Steady On (Arrow)	
192	0806466		Lights, Backup, Wln M62BU, LED, For Tail Lt Housing	1
193	0889577		Bracket, License Plate & Light, P25 LED, Stainless Brkt	1
			Color, Trim - Chrome Housing	
194	0589905		Alarm, Back-up Warning, PRECO 1040	1
195	0817254		Lights, Perimeter Cab, Amdor AY-LB-12HW0** LED 4Dr	1
196	0769572		Lights, Perimeter Pump House, Amdor AY-LB-12HW020 LED 2lts	1
197	0768765		Lights, Perimeter Body, Amdor AY-LB-12HW020 LED 2lts, Turntable Access	1
			Control, Perimeter Lts - Parking Brake Applied	
198	0896454		Enhanced Software for Perimeter Lts	1
199	0760447		Light, Roof Mt, HiViz, FT-B-72-*-*, Cnt Feature, Mux	1
			Control, Scene Lts - Cab Sw Panel DS and Cab Sw Panel PS	
			Color, Lt Housing HiViz - Black	
			Scene Light Optics - Flood/Spot	
200	0773109		Lights, HiViz FT-B-46-*-* LED, 3rd	1
			Location - LS of body L3L4	
			Qty, - 01	
			Control, Scene Lts - Cab Sw Panel DS and Cab Sw Panel PS	
			Color, Lt Housing HiViz - Black	
201	0773358		Lights, HiViz FT-B-46-*-* LED, 2nd	1
			Location - RS of body over R3,R4	
			Qty, - 01	
			Control, Scene Lts - Cab Sw Panel DS and Cab Sw Panel PS	
			Color, Lt Housing HiViz - Black	
202	0898617		Lights, Hose Bed, Sides, Dual Strips, 45 Ends	1
			Control, Hose Bed Lts - Cup Switch At Rear	
203	0835543		Lights, Rear Scene, HiViz, FT-GSM LED 2lts	1
			Location, Lights - Rear of body one each side	
			Control, Rear Scene Lts - Cab Switch Panel DS and Cup Switch at Rear	
			Color, Trim - Black Trim	
204	0709438		Lights, Walk Surf, FRP Flood, LED	1

Line	Option	Type	Option Description	Qty
205	0788426		Aerial, HD Ladder 107' ASL Tandem, PUC, Alum Body	1
206	0554269		Body Skirt Height, 18"	1
207	0618437		Tank, Water, 500 Gallon, Poly, Ascendant TA, PAL, 3" Notch, HB on Side, PUC	1
208	0003405		Overflow, 4.00" Water Tank, Poly	1
209	0028107		Not Required, Foam Cell Modification	1
210	0003429		Not Required, Direct Tank Fill	1
211	0751577		Hose Bed, Aluminum, Trough Style, 2G Aerial	1
			Location, driver's/passenger's/center - Right Side Door, Material & Finish, Access - Smooth Aluminum Latch, Door, Access - lift and turn latch	
212	0723547		Painted Hose Bed/Cargo Area	1
			Paint Color, Hose Bed Interior - Match Lower Body	
213	0003491		Hose Bed Capacity 1000' of 5.00", Ascendant, PAP, PAL	1
214	0591017		Hose Restraint, Hose Bed, Aerial, Front Velcro Strap, Top	1
215	0515525		Not Required, Running Boards, PUC	1
216	0735733		Turntable Steps-Morton Cass, Swing Down,LS/RS,Ascend TA,PAL,PAP,Handhld Cut Outs	1
			Step, Flip - No Flip Step	
217	0892656		Lights, Step (6), P25 LED, Each Side	1
			Control, Scene Lts - Ignition Sw, Park Brake Color, Trim - Chrome Housing	
218	0690023		Wall, Rear, Smooth Aluminum	1
219	0029503		Tow Eyes (2), Painted Lower Job Color, Aerial	1
220	0013641		Construction, Compt, Alum, Ascendant Tandem, PAL	1
221	0063695		Compt, LS F/H F/D, Roll Drs, w/o Chute, Ascendant Tandem, 105', 100 HAL	1
			Hinge Location - Rear of Body Door, Material & Finish, Stabilizer - Polished Stainless Steel Latch, Door, Access - lift and turn latch, flush	
222	0063727		Compt, LS Turntable, F/H F/D, Roll Dr & Lift Dr, Ascendant Tandem, 105'	1
223	0023672		Compt, IPO Stairs, Not Required, LS	1
224	0063733		Compt, RS F/H, Roll Drs, Ascendant Tandem, 105 HDL, 100 HAL	1
			Hinge Location - Rear of Body Door, Material & Finish, Stabilizer - Polished Stainless Steel Latch, Door, Access - lift and turn latch, flush	
225	0035382		Compt, RS Turntable, F/H, Roll Dr & Lift Dr, Ascendant Tandem, 105 HDL	1
226	0023673		Compt, IPO Stairs, Not Required, RS	1
227	0594012		Doors, Amdor, Rollup, Side Compartments	15
			Qty, Door Accessory - 15 Color, Roll-up Door - AMDOR Painted to Match Lower Body Latch, Roll-up Door - Non-Locking Liftbar	
228	0540787		Stabilizer Compartment, Modified for 18" Stabilizer Penetration	1
229	0552955		Blister, Compts in Front of Rear Axle, To Clear Firemaax Suspension	1
230	0018820		Bumper, Rear, 5" w/Treadplate Cover, Ascendant Tandem, PAP, PAL, RMAP	1
231	0603711		Guard, Drip Pan, S/S, Rollup Door, Aerial	7
			Qty, Door Accessory - 07 Location, Door Guard/Drip Pan - LS1, LS3 Over Wheel, LS4, RS1, RS3 Over Wheel, RS4 and B1	
232	0603083		Lights, Compt,Pierce LED,Dual Light Strips,Each Side Dr,Ascend TA,75'HAL,PAP,HDL	11
			Qty, - 11 Location, Compartment Lights - All Body Compts	
233	0689539		Lights, Compt, Pierce, LED Light Strip, 36", Additional	2
			Location, Lights - speed lay compartment Qty, - 02	
234	0889341		Lights, Compt, Pierce, LED Light Strip, 27", Additional PB	2
			Location, Lights - ladder storage Qty, - 02	
235	0603420		Shelf Tracks, Painted, Aerial	6
			Qty, Shelf Track - 06 Location, Shelf Track - LS1, LS3, LS4, RS1, RS3 and RS4	
236	0631810		Shelves, Fixed, 500 lb Capacity, Full Width/Depth, Brushed Aluminum	1
			Qty, Shelf - 01 Location, Shelf - Compt P5 to the right of the partition above the air bottle slot.	

Line	Option	Type	Option Description	Qty
237	0838144		Shelves, Adj, 500 lb Capacity, Full Width/Half Depth, Predefined Locations Qty, Shelf - 07 Location, Shelf - One P1 upper, One P2 upper, One P3, Two in P5 to right of partition/air bag rack, One in P7 to left of partition, One in D1 upper 228 0003982 Tray, 500 lb Slide-out, 2" Sides - Floor Mounted Location - same Material Finish, Shelf - DA Finish Location, Shelves/Trays, Predefined - * Locations To Be Determined At A Later Date	7
238	0709692		Tray, 215 lb, Tilt/Slide-Out, 30 Deg, Adj, Predefined Locations Qty, Tray (slide-out) - 03 Location, Shelves/Trays, Predefined - * Locations To Be Determined At A Later Date Material Finish, Tray - DA Finish	3
239	0603763		Tray, Floor Mounted, Slide-Out, 500lb, 2.00" Sides, 2G Aerial Qty, - 03 Location, Tray Slide-Out, Floor Mounted - RS2, LS4 and RS7 Material Finish, Tray - Painted - Spatter Gray	3
240	0540317		Toolboard, Swing-out, Alum, .188", Peg Board Qty - 2 Location, Pivot - Back Mounting, Toolboard - Adjustable Frt-back Hole Diameter, Pegboard/Toolboard - .281" diameter Finish, Pegboard/Toolboard - Dual Action Finish Location, Toolboard - LS3 - Full Height/Width and RS4 - Full Height/Width	2
241	0709346		Toolboard, Slide-out, Alum, .188", Peg Board, Predefined Locations Qty, - 02 Mounting, Toolboard - Adjustable side-side Hole Diameter, Pegboard/Toolboard - .281" diameter Finish, Pegboard/Toolboard - Dual Action Finish Location, Partition/Toolboard, Predefined - RS5 - Centered and RS7-14.00" From Forward Door Frame	2
242	0726446		Partition, Pegboard, Vertical Compt, Each Qty, Partition - 02 Location - One in compt P5 17.5" from the left side wall and from the horizontal partition up. One in compt P7 15" from the left side wall. Hole Diameter, Pegboard/Toolboard - .281" diameter Material Finish, Partition - DA Finish	2
243	0726403		Partition, Vertical Compt, Special Height Qty, Partition - 02 Fill in Blank - Two in compt P5, one full width 10" off floor, one upper to right of partition, refer to compt layout sketch located in the job E folder for locations too difficult to explain in the space allowed here. Location - Two in compt P5, one full width 10" off floor, one upper to right of partition, refer to compt layout sketch located in the job E folder for locations too difficult to explain in the space allowed here. Material Finish, Partition - DA Finish	2
244	0651339		Webbing, Retention 1.00" Nylon Strap, Top/Bottom Fastened Fixed, 2" Box Pattern Location - Strap, Top/Bottom Fastened Fixed, 2" Box Pattern 1 Location - In compt D1 from the floor to ceiling. Qty, - 01 Type of Fastener - 1" cam buckle Restraint Location - Top (towards roof of truck)	1
245	0755526		Pegboard, Back Wall Mounted, 3/16" Alum, Special Qty, Comp. Accessory - 01 Configuration - One in compt P5 above the air bottle storage, refer to compt layout sketch located in the job E folder for Hole Diameter, Pegboard/Toolboard - .281" diameter Finish, Pegboard/Toolboard - Dual Action Finish Location, Compartment, Predefined - RS5	1
246	0004016		Rub Rail, Aluminum Extruded, Side of Body	1
247	0802978		Fender Crowns, Rear, S/S, w/Removable Fender Liner, Aerial, 2G, Two Pair Material Finish, Fender Liner - Painted Aluminum Lower Body	1
248	0519849		Not Required, Hose, Hard Suction	1

Line	Option	Type	Option Description	Qty
249	0527021		Handrails Located @ Front Body	1
250	0802986		Compt, Air Bottle, Between Tandems, Four (4) Bottles, w/ Straps, Bolt-In, Aerial	2
			Qty, Air Bottle Comp - 2	
			Door Finish, Fender Compt - Polished	
			Location, Fender Compt - LS and RS	
			Latch, Air Bottle Compt - Southco C2 Chrome Raised, Pair	
			Insert, Air Bottle Compt - Rubber Matting	
			Door Type - drop down with support cable	
251	0806865		Compt, Air Bottle, Two Bottles, Fender Corner, Bolt-In, Tandem Aerials	3
			Qty, Air Bottle Comp - 3	
			Door Finish, Fender Compt - Polished	
			Location, Fender Compt - Double - LS Fwd, Double - RS Fwd and Double - RS Rear	
			Latch, Air Bottle Compt - Southco C2 Chrome Raised	
			Insert, Air Bottle Compt - Rubber Matting	
			Door Type - vertically hinged	
252	0049220		Ladder, 45' Duo-Safety 1525A 3-Sect w/Poles	1
			Qty, - 01	
253	0014221		Ladder, 35', Duo-Safety 1200A 2-Section	1
254	0010406		Ladder, 28' Duo-Safety 1200A 2-Section	1
			Qty, - 1	
			Location, Extension Ladder - torque box	
255	0024232		Ladder, 16' Duo-Safety 875A Roof	1
			Qty, - 1	
256	0014233		Ladder, 18' Duo-Safety 875A Roof	1
			Qty, - 1	
257	0024233		Not Required, Attic Extension Ladder	1
258	0044243		Ladder, 10' Alco-Lite Folding, FL-10	1
			Qty, - 01	
			Location, Folding Ladder Aerial - torque box	
259	0042207		Ladders Stored in Torque Box, Gortite Roll, Ascendant TA, PAL, PAP	1
			Color, Roll-up Door, Gortite - Satin finish	
			Latch, Roll-up Door, Gortite - Non-Locking, Rear	
260	0602100		Lights, Torque Box Ladder Storage, Pierce LED Strip Lights, 2 Lts	1
261	0775907		Pike Pole, 12' DUO Safety, Fiberglass	2
			Qty, - 02	
262	0820490		Not Required, 8' Pike Pole, Fire Department Omits, NFPA/ULC 2024	1
263	0789566		Pike Pole, 6' DUO Safety, Fiberglass, Aerial	2
			Qty, - 02	
264	0789586		Pike Pole, 3' DUO Safety, Fiberglass, w/D Handle	2
			Qty, - 02	
265	0024892		Pike Pole, 6' Fire Hooks Unlimited, New York Roof Hook, Steel, Pry End, RH-6	2
			Qty, - 02	
			location, pike pole - in the rear	
266	0770578		Pike Pole Tubes, in Torque Box/Ladder Storage, ABS	6
			Qty, - 06	
267	0675159		Holder, Flag, Pipe and Pin	1
			Qty, - 01	
			Fill in Blank - driver's side on the rear of body up high	
268	0024388		No Steps Required, Front Of Body	1
269	0724154		Step, Folding - Extra, Body Only, Trident	2
			Qty, Folding Step - 02	
			Location, Additional Step - "On the passenger side rear of the body to access the top or the body."	
			Coating, Step - black	
270	0010500		Step, Rung, Camper Style, Pull-out & Drop Down, 20.00" Wide	1
			Location, Additional Step - pass side rear below the tailboard	
			Qty, Pullout Step - 01	
271	0553873		Pump Operators Panel & Module, Aluminum, Control Zone, Ascendant/PAL/PAP PUC	1
272	0520016		Not Required, Pumphouse Structure, PUC	1
273	0889385		Pump, Pierce, 1500 GPM, Single Stage, PUC-NG	1
274	0515822		Seal, Mechanical, Silicon Carbide, PUC Pump	1
275	0889382		Gear Case, Integrated Pump Transmission, PUC-NG, Paccar	1

Line	Option	Type	Option Description	Qty
276	0721196		Pumping Mode, Pump and Roll/Stationary, Basic, MUX, PUC	1
277	0515829		Pump Shift, Sure-Shift	1
278	0515833		Transmission Lock-up, Not Req'd, Park to Neutral, Pump, PUC	1
279	0515835		Auxiliary Cooling System, PUC	1
280	0014486		Not Required, Transfer Valve, Single Stage Pump	1
281	0746501		Valve, Relief Intake, Elkhart	1
			Qty - 1 Pressure Setting - 125 psig Intake Relief Valve Control - Behind Right Side Pump Panel	
282	0724463		Controller, Pressure, Pierce LCD , PUC	1
			Pressure Governor Throttle Control - Clockwise Pressure Governor Default Mode - No Mode/Default Press Setting	
283	0072153		Primer, Trident, Air Prime, Air Operated	1
284	0780359		Manuals, Pump, (2) Total, Electronic Copies, Pierce PUC Pump	1
285	0602496		Plumbing, Stainless Steel and Hose, Single Stage Pump, PUC	1
286	0089437		Plumbing Without Foam System	1
287	0517852		Inlets, 6.00" - 1250-2000 GPM, Pierce PUC Pump	1
288	0014650		Pump Suction Tube(s), Short, All	1
289	0840110		Not Required, Main Inlet Valve, PUC	1
290	0004646		Cap, Main Pump Inlet, Long Handle, NST, VLH	1
291	0084610		Valves, Akron 8000 series- All	1
292	0520002		Valve, Inlet(s) Recessed, Side Cntrl, PUC	1
			Qty, Inlets - 1	
293	0004700		Control, Inlet, at Valve	1
294	0004660		Inlet (1), Left Side, 2.50"	1
295	0029147		Not Required, Inlet, Right Side	1
296	0521137		Anode, Zinc, Pair, Pump Inlets, PUC	1
297	0092569		No Rear Inlet (Large Dia) Requested	1
298	0064116		No Rear Inlet Actuation Required	1
299	0092696		Not Required, Cap, Rear Inlet	1
300	0009648		No Rear Intake Relief Valve Required on Rear Inlet	1
301	0092568		No Rear Auxiliary Inlet Requested	1
302	0723049		Valve, .75" Bleeder, Aux. Side Inlet, "T" Swing Handle	1
303	0687424		Tank to Pump, (1) 3.00" Valve, 4.00" Plumbing, 3.00" Tank Outlet, Aerial PUC	1
304	0595508		Outlet, Tank Fill, 1.50", PUC	1
305	0837421		Control, Outlets, Swing Handle, Elec Right Outlets Akron 9345 w/Press Disp, PUC	1
306	0516755		Outlet, Left Side, 2.50" (2), PUC	1
307	0055095		Not Required, Elbow, Left Side Outlets, 2.50"	1
308	0092570		Not Required, Outlets, Left Side Additional	1
309	0035094		Not Required, Elbow, Left Side Outlets, Additional	1
310	0837375		Outlet, Right Side, 3", (1), Electric Akron 9345 Controller, PUC	1
311	0021134		Not Required, Elbow, Right Side Outlets, 2.50"	1
312	0092571		Not Required, Outlets, Right Side Additional	1
313	0089584		Not Required, Elbow, Right Side Outlets, Additional	1
314	0818640		Outlet, Large Diameter, Right Side, Akron Valve, PUC	1
			Outlet, Large Diameter, Plumbing - 4.00" Outlet, Large Diameter, NST Adapter - 4.00" MNST Outlet, Large Diameter, Valve Actuation - PUC Akron 9345 w/PSI	
315	0527969		Cap, Large Dia Outlet, 4.00", IPO Elbow	1
316	0607659		Outlet, Front, 1.50" w/2" Plumbing, Under Slung Bumper	1
			Fitting, Outlet - 1.50" NST with 90 degree swivel Drain, Front Outlet - Automatic Location, Front, Single - in center bumper tray	
317	0092575		Not Required, Outlet, Rear	1
318	0045099		Not Required, Elbow, Rear Outlets	1
319	0092574		Not Required, Outlet, Rear, Additional	1
320	0085695		Not Required, Elbow, Rear Outlets, Large, Additional	1
321	0092573		Not Required, Outlet, Hose Bed/Running Board Tray	1
322	0752097		Caps/Plugs for 1.00" to 3.00" Discharges/Inlets, Chain	1
323	0723042		Valve, 0.75" Bleeder, Discharges, "T" Swing Handle	1
324	0029106		Not Required, Deluge Outlet	1

Line	Option	Type	Option Description	Qty
325	0029302		No Monitor Requested	1
326	0029304		No Nozzle Req'd	1
327	0029107		No Deluge Mount	1
328	0826319		Waterway Outlet & Control, Akron Valve, PUC	1
			Outlet, Waterway (Aerial), Valve Actuation - Pierce large handwheel	
329	0739945		Crosslay Module, Full Width, Boom Compartment, Roll Up Doors, Aerial, PUC	1
330	0750897		Doors, Crosslay, Roll-up Amdor, Each End, Full Height, PUC	1
			Color, Roll-up Door - AMDOR Painted to Match Lower Body	
			Latch, Roll-up Door - Non-Locking Liftbar	
			Drip Pan - Drip Pan (Standard)	
331	0750916		Crosslays, (2) 1.50", W/Poly Trays, PUC	1
			Crosslay/Deadlay/Speedlay Capacity 1 - 250 1.5	
332	0750900		Crosslay, (1) 2.50", W/Poly Trays, PUC	1
			Crosslay/Deadlay/Speedlay Capacity 1 - Please provide one tray 11.5" clear for 250' of 2".	
333	0044333		Not Required, Foam System	1
334	0012126		Not Required, CAF Compressor	1
335	0552517		Not Required, Refill, Foam Tank	1
336	0042573		Not Required, Foam System Demonstration	1
337	0045465		Not Required, Foam Tanks	1
338	0091110		Not Required, Foam Tank Drain	1
339	0091079		Not Required, Foam Tank #2	1
340	0091112		Not Required, Foam Tank #2 Drain	1
341	0738072		Approval Dwg, Pump Panel(s), Not Required	1
342	0032479		Pump Panel Configuration, Control Zone	1
343	0579545		Step, Slide-Out/Fold-Out, Pump Operator Platform, Aerial PUC	1
344	0667186		Light, Slide-Out Pump Operator Step, OSS Access LED, Short Step	1
345	0831515		Material/Finish, Pump Panels, PUC	1
			Material/Finish, Pump Panels, Operator Panels, PUC - Brushed Stainless Steel	
			Material/Finish, Pump Panels, Side Panels, PUC - Brushed Stainless Steel	
346	0516978		Pump and Plumbing Access, Simple Tilt Service, PUC	1
347	0618458		Light, Pump Compt, Wln 3SC0CDCR LED White, PUC	1
			Qty, - 01	
348	0516983		Gauges, Engine, Included With Pressure Controller, PUC	1
349	0005601		Throttle, Engine, Incl'd w/Press Controller	1
350	0739224		Indicator Light @ Pump Panel, Throttle Ready, Incl w/Pressure Gov/Throttle,Green	1
351	0549333		Indicators, Engine, Included with Pressure Controller	1
352	0511078		Gauges, 4.00" Master, Class 1, 30"-0-600psi	1
353	0511100		Gauge, 2.00" Pressure, Class 1, 30"-0-400psi	1
354	0816870		Gauge, Water Lev, Pierce,In pressure Control,No Mini,PUC,Lt Driver,Non-NFPA 2024	1
355	0750438		Water Level Gauge, Wln PSTANK2, LED 1-Light, 4-Level	2
			Qty, - 02	
			Activation, Water Level G - pg) pump in gear	
			Location, Water Level Gauge, Multi-Select - Cab, Behind Left Cab Door and Cab, Behind Right Cab Door	
			Color, Trim - Chrome Trim	
356	0006774		Not Required, Foam Level Gauge	1
357	0653081		Light, Pump Operator & Panel, Side Ctrl, PUC, 60354C LED Cab & LED OH Chr Cvr	1
358	0837257		Air Horns, (2) Grover, Rectangular Bell Stuttertone, Below Bumper	1
			Finish, Air Horns - Grover, Chrome	
359	0606835		Location, Air Horns, Bumper, Each Side, Outside Frame, (Pos #1 & #7)	1
360	0757092		Control, Air Horn, Multi Select	1
361	0757076		Control, Air Horn, Lanyard, RS	1
			Lanyard - Nylon Rope	
362	0757084		Control, Air Horn, Horn Ring	1
363	0525667		Siren, Wln 295SLSA1, 100 or 200 Watt	1
364	0510206		Location, Elect Siren, Recessed Overhead In Console	1
			Location, Elec Siren - Overhead, DS Center Sw Pnl	
365	0076156		Control, Elec Siren, Head Only	1

Line	Option	Type	Option Description	Qty
366	0601306		Speaker, (1) Wln, SA315P, w/Pierce Polished Stainless Steel Grille, 100 watt	1
			Connection, Speaker - siren head	
367	0601565		Location, Speaker, Frt Bumper, Recessed, Center (Pos 4)	1
368	0895310		Siren, Federal Q2B	1
			Finish, Q2B Siren - Chrome	
369	0614368		Siren, Mechanical, Mounted Above Deckplate, Under Slung Bumper	1
			Location, Siren, Mech - a) Left	
370	0748305		Control, Mech Siren, Multi Select	1
371	0748280		Control Mech Siren, Horn Ring	1
372	0748281		Control Mech Siren, Ft Sw RS	1
373	0740391		Sw, Siren Brake, Momentary Chrome Push Button, RS	1
374	0746353		Not Required, Warning Lights Intensity	1
375	0605610		Lightbar, Wln, Freedom IV-Q, 2-21.5", RRRRR RRRRR, 30 Deg	1
			Filter, Whl Freedom Ltbrs - No Filters	
376	0809551		Light, GTT, 794* Opticom Emitter, Remote Mtd on Cab Roof, Hardwired	1
			Location - TBD	
			Opticom Priority - b) High	
			Opticom Activation - E-Master	
			Momentary Opticom Activation - no activation	
377	0016380		No Additional Lights Req'd, Side Zone Upper	1
378	0761731		Lights, Front Zone, Wln M6** M6** M6** M6**, 4lts Q Bezel, Clr Fet	1
			Color, Lens, LED's - c)clear	
			Color, Lt DS Frnt Outside - DS Front Outside Red	
			Color, Lt PS Frnt Outside - PS Front Outside Red	
			Color, Lt DS Front Inside - g) DS Front Inside Green	
			Color, Lt PS Front Inside - g) PS Front Inside Green	
			Color, Q Bezel and Trim - Polished Chrome	
379	0653937		Flasher, Headlight Alternating	1
			Headlt flash deactivation - a)w/high beam	
380	0829068		Light, Mars TB8-L1-P/** LED, S/S Wedge Brkt Centered Under Windshield	1
			Color, Lights, Warning - Red	
			Color, Lens, LED Mars Lt - Clear	
381	0898593		Lights, Side Zone Lower, Wln M6**, M6V2**, M6V2**, 6Lts	1
			Location, Lights Front Side - b)each side bumper	
			Color, Lens, LED's - Clear	
			Control, Scene Lts - Cab Sw Panel DS, Park Brake, Cab Sw Panel PS and Directional Light with 5 Sec Delay	
			Location, Lights Mid Side - Rearward of Crew Cab Doors	
			Location, Lights Rear Side - Over Rear Wheels	
			Color, Trim - Chrome Trim	
			Color, Lt Side Front, DS - Left Red	
			Color, Lt Side Front, PS - Right Red	
			Color, Lt Side Mid DS - Left Blue	
			Color, Lt Side Mid PS - Right Red	
			Color, Lt Side Rear PS - Right Red	
			Color, Lt Side Rear DS - Left Red	
382	0895709		Lights, Door Interior Flash, 4 Dr Cab, Wln 0S*00FCR	1
			Control, Door Int Flash - Ignition Switch	
			Location, Light, Door Int Flash - Door Pan	
			Color, Lt Cab Left - Red Flashing	
			Color, Lt Cab Right - Red Flashing	
			Color, Lt Crew Cab Left - Red Flashing	
			Color, Lt Crew Cab Right - Red Flashing	
383	0815847		Connectors, Door Interior Flash, All Cabs, Weatherproof	1
384	0836565		Lights, Rear Zn Lwr, Wln M6*, 2Lts	1
			Color, Lens, LED's - Clear	
			Color, Lt DS Rear - Left Red	
			Color, Lt PS Rear - Right Red	
			Color, Trim - Chrome Trim	
385	0621947		Light, Rear Zone Up, Wln Rota-Beam R316*F LED Beacon, Color Lens	1
			Color, Lts, Rear Zone Upper - r)red	
386	0006551		Not Required, Lights, Rear Upper Zone Blocking	1
387	0791501		Light, Traffic Directing, Wln TAL65, 36" Long LED, Aerials	1
			Activation, Traffic Dir L - Not Connected	

Line	Option	Type	Option Description	Qty
388	0530074		Location, TDL, On Top of Body Below Turntable w/Treadplate Box	1
389	0530282		Location, Traf Dir Lt Controller, Overhead Switch Panel DS Right End	1
390	0779722		Receptacle, 15/20A 120V 3-Pr 3-Wr, NEMA 5-20R SB Dup, 1st, Interior Body	3
			Qty, - 03 Location 1 - "two in the forward facing EMS compartment one high one low in the center, and one P5 right side wall about mid way up and back near the tank wall." AC Power Source - Shoreline Cover, Receptacle - Interior SS Wall plate	
391	0519934		Not Required, Brand, Hydraulic Tool System	1
392	0649753		Not Required, PTO Driven Hydraulic Tool System	1
393	0755095		Aerial, 107' ASL Tandem, 750/500 Tip, 50 MPH	1
394	0000042		Boom Support, Rear of the Chassis Cab	1
395	0601990		Light, Boom Support, Peterson 393C, Incandescent	1
396	0799573		Boom Support Compt Included w/PUC Xlay Module Picked Separately, PUC	1
397	0680821		Boom Panel, Pair	1
			Paint Color, Predefined - #10 white	
398	0526890		Not Required, Indicator, Extension	1
399	0723719		Steps, Folding, Four, Aerial Device, Trident	1
			Coating, Step - black Light, Aerial Device Folding Step - no integrated light Finish, Aerial Device Folding Step - bright finish	
400	0688232		Rung Covers, Aerial Device	1
			Rung Cover Color - Safety Yellow	
401	0784202		Brackets Only, Roof Ladder, Base Section, Inboard of Boom Panel, Ascendant	1
			Qty, - 01 Location, Aerial Device - right side Roof Ladder, Make/Model, Multi-Select - 16' Duo-Safety 875-DR	
402	0728980		Box, Stokes, w/Cover, Base Section, In Place of Boom Panel, w/Door Open Sw	1
			Qty, - 01 Finish - Painted, Aerial Device Color Latch, Door, Storage - Rubber Draw Latch, Pair Location, Aerial Device - left side Louvers - no louvers Size, Stokes Basket, Predefined - 88"L x 26.50"W x 9.25"H	
403	0623645		Aerial Stability Test, Maximum Tip Options	1
404	0601972		Lights, Turntable Walkway, P25, LED	1
405	0601949		Light, Turntable Console, TecNiq T-10, LED Strip Light	1
406	0682164		Cover, Around Aerial Rotation Bearing	1
			Material - treadplate	
407	0814217		Control Stations, ASL Tandem Axle, MUX, Color Display, CL714	1
408	0792976		Stabilizers, Ascendant Tandem, Rear Mount Steel, 16' Spread, 18" Pen, MUX	1
			Material, Stabilizer Pad - Composite	
409	0729051		Stabilizer Pan and Trim Material	1
			Stabilizer Panels - polished stainless steel Stabilizer Trim - polished stainless steel	
410	0809974		Door, Stabilizer Control Box, MUX Aerials	1
			Latch, Door, Storage - Southco C2 Chrome Raised Hinge Location - Outboard Door, Material & Finish, Stabilizer - Smooth aluminum	
411	0793039		Hydraulic System, Ascendant Tandem Axle	1
412	0793037		Swivels, D-Series w/Encoder, ASL-Tandem/Tiller, MUX (28 Collector Rings)	1
413	0805186		Electrical System, ASL Tandem Axle, MUX, 10/8 Cable	1
414	0804781		Aerial Scene Lts Separated into Aerial Tip Category and Aerial Tracking Category	1
415	0803462		Lights, Tip, Wln MP** LED, 2lts	1
			Color, Wln Lt Housing - Black Paint Scene Lt Optics LH Fly - Spot Left Scene Lt Optics RH Fly - Spot Right Mount, Wln II - Universal Bail MP**	
416	0802753		Lights, Tracking, Wln MP** LED, 2lts	1
			Location, Sw, Arl DC Lts - 3 locations & Aerial Master, DS Color, Wln Lt Housing - Black Paint Scene Lt Optics LH Base - Left Spot	

Line	Option	Type	Option Description	Qty
416			Scene Lt Optics RH Base - Right Spot Mount, Wln II - Universal Bail MP**	
417	0653677		Lighting, Rung, LED, TecNiq, 4 Section, Base, Lower/Upper Mid, Fly	1
			Control, Aerial Rung Lighting - Turntable Sw w/Aerial Mstr and Turntable Sw w/Master Batt Sw Color, Lt Aerial Fly Sect - Green Color, Lt Aerial Base Sect - Green Color, Lt Aerial Lower Mid Sect - Green Color, Lt Aerial Upper Mid Sect - Green	
418	0540743		Lights, Stabilizer Warn (2) Sets, Wln M6*C LED, Clear Lens	1
			Color, Lt Rr Stabilzr Pan - r) Pan Light Red Color, Lt Fr Stabilzr Pan - r) Pan Light Red	
419	0068703		Lights, Grote Supernova LED, Stabilizer Beam, (1) Set	1
420	0601977		Lights, Stabilizer Scene, (2) sets, Truck-Lite 40227C, Incandescent	1
421	0783034		DC Power To Aerial Tip, 13.92 Amps @ 12 Volt DC, ASL	1
422	0737181		Intercom, 2-Way Fire Research ICA910 Hands Free	1
423	0540895		Not Required, Breathing Air to Tip, Aerial Ladder	1
424	0024742		Not Required, Mask, Breathing Air To Tip	1
425	0126600		Raised Pedestal, 3.00", Rear Mount Aerials, Velocity, Impel, Enf	1
426	0604457		Lifting Eye Assembly, Rope Rescue Attachment, ASL, LSL	1
427	0530826		Turntable Access, ManSaver Bars, Yellow	1
428	0624672		Waterway, High Flow, 1500 GPM, ASL	1
429	0632855		Monitor, Akron 3480 StreamMaster II Electric w/Extended Vertical Travel	1
			Nozzle, Monitor 1 PAL - Akron 5178 Electric 1500 gpm	
430	0010758		Flow Meter, Waterway, PAL, 110' Ascendant, MUX	1
431	0004836		Inlet, 5.00" at Rear w/ Pump, Ascendant Tandem, PAP, PAL	1
432	0673128		Quick-Lock Waterway Locking System, 100' HDL, 105' HDL, ASL	1
433	0047897		Tools, Aerial	1
434	0559494		Manuals and Training, 3 Consecutive Days, Ascendant Ladder, PAL, English	1
435	0007150		Bag of Nuts and Bolts	1
			Qty, Bag Nuts and Bolts - 1	
436	0816502		NFPA Required Loose Equipment, Quint, NFPA/ULC 2024, Provided by Fire Dept	1
437	0067022		Hose, 6.00" Soft Suction - 15 Ft. Long	1
438	0027023		No Strainer Required	1
439	0816939		Extinguisher, Dry Chemical, NFPA 2024, Provided by Fire Department	1
440	0816937		Extinguisher, 2.5 Gal. Pressurized Water, NFPA/ULC 2024, Provided by Fire Dept	1
441	0007482		Not Required, Crowbars	1
442	0007484		Not Required, Claw Tools	1
443	0816998		Axe, Flathead, Provided by Fire Department	1
444	0817000		Axe, Pickhead, Provided by Fire Department	1
445	0007494		Not Required, Sledgehammers	1
446	0741569		Paint Process / Environmental Requirements, Appleton	1
447	0709566		Paint, Two-Tone Color, Enforcer	1
			Paint Color, Upper Area, Predefined - #101 Black Shield, Cab - Standard Shield Paint Color, Lower Area, Predefined - #90 Red Paint Break, Cab - Standard Two-Tone Cab Break	
448	0709845		Paint, Single Color, Body	1
			Paint, Body - Match Lower Cab	
449	0636524		Coating, Chassis Frame Assy, With Liner, Hot Dip Galvanized	1
			Paint Color, Frame Assembly, Predefined - Gloss Black	
450	0693797		No Paint Required, Aluminum Front Wheels	1
451	0693792		No Paint Required, Aluminum Rear Wheels	1
452	0733739		Paint, Axle Hubs	1
			Paint, Axle Hub - Black #101	
453	0673716	SP	Coating, UL-LX, Compt Shelves/Trays, Black	15
			Location - one shelf D1. one tilt tray one floor tray D4, one shelf P1, one shelf one floor tray P2. one in shelf P3, two shelves one horiz partition one perm shelf one tilt tray P5. one floor tray one shelf one tilt tray P7. Qty, - 15	
454	0524451		Coating, UL-LX, Compt Floor, Black	7
			Location - D1,D2,D3,P1,P3,P4,P5 Qty, - 07	

Line	Option	Type	Option Description	Qty
455	0748862		Coating, Safe-Stride, Aerial Device Access Step at Turntable, Top Only	1
			Color, Safe-Stride - Black	
456	0007230		Compartment, Painted, Spatter Gray	1
457	0782203		Aerial Ladder Paint, ASL-Tandem, LSL, E-Coat	1
			Paint Color, Aerial Device - White 10	
			Paint Color, Egress - #416 Bright Green with Lumicoat	
			Paint Color, Turntable - Black 101	
			Paint Color, Boom Support - gloss black primer	
			Paint Color, Cylinders - black 101	
			Paint Color, Aerial Control Console - black 101	
458	0544129		Reflective Band, 1"-6"-1"	1
			Color, Reflect Band - A - e) black	
			Color, Reflect Band - B - p) black	
			Color, Reflect Band - C - za) black	
459	0007356		Reflective across Cab Face	1
460	0583454		Stripe, Chevron, Rear, Diamond Grade, Aerial	1
			Color, Rear Chevron DG - fluorescent yellow green	
461	0598754		Stripe, Reflective/Diamond Grade, 4.00" on Stabilizers	1
			Color, Reflect Band - A - p) fluorescent yellow green diamond grade	
462	0065687		Stripe, Reflective, Cab Doors Interior	1
			Color, Reflective - a) white	
463	0027372		Lettering Specifications, (GOLD STAR Process)	1
464	0686349		Lettering, Gold Leaf, 10.00", (41-60)	1
			Outline, Lettering - Outline and Shade	
465	0686200		Lettering, Gold Leaf, 10.00", (21-40)	1
			Outline, Lettering - Outline and Shade	
466	0772003		Manual, Fire Apparatus Parts, USB Flash Drive, Custom	1
			Qty, - 01	
467	0772037		Manual, Chassis Service, USB Flash Drive, Custom	1
			Qty, - 01	
468	0773381		Manual, Chassis Operation, (1) USB Flash Drive, Custom, English	1
469	0030008		Warranty, Basic, 1 Year, Apparatus, WA0008	1
470	0735523		Warranty, Engine, Paccar MX13, 5 Year, WA0386	1
471	0684953		Warranty, Steering Gear, Sheppard M110, 3 Year WA0201	1
472	0596017		Warranty, Frame, 50 Year, Custom Chassis, WA0013	1
473	0595698		Warranty, Axle, 3 Year, TAK-4, WA0050	1
474	0733305		Warranty, Tandem Axle, 5 Year, Meritor, General Service, WA0384	1
475	0652758		Warranty, ABS Brake System, 3 Year, Meritor Wabco, WA0232	1
476	0019914		Warranty, Structure, 10 Year, Custom Cab, WA0012	1
477	0744240		Warranty, Paint, 10 Year, Cab, Pro-Rate, WA0055	1
478	0524627		Warranty, Electronics, 5 Year, MUX, WA0014	1
479	0695416		Warranty, Pierce Camera System, WA0188	1
480	0647720		Warranty, Pierce LED Strip Lights, WA0203	1
481	0046369		Warranty, 5-year EVS Transmission, Standard Custom, WA0187	1
482	0685945		Warranty, Transmission Cooler, WA0216	1
483	0688798		Warranty, Water Tank, Lifetime, UPF, Poly Tank, WA0195	1
484	0596025		Warranty, Structure, 10 Year, Body, WA0009	1
485	0834475		Warranty, Gortite, Roll-up Door, 6 Year and ROM, Roll-up Door, 7 Year	1
486	0889364		Warranty, Pump, Pierce, PUC-NG, 7 Year Parts, 1 Year Labor, WA0390	1
487	0648675		Warranty, 10 Year S/S Pumbing, WA0035	1
488	0641372		Warranty, Foam System, Not Available	1
489	0006999		Warranty, Structure, 20 Year, Aerial Device, WA0052	1
490	0687388		Warranty, Swivels, 5 Year, Aerial Device, WA0197	1
491	0685727		Warranty, Hydraulic System and Components, 3 Year/5 Year, WA0200	1
492	0687327		Warranty, Waterway, 10 Year, Aerial Device, WA0198	1
493	0595860		Warranty, Paint, 4 Year, Aerial Device, Pro-Rated, WA0047	1
494	0595820		Warranty, Paint, 10 Year, Body, Pro-Rate, WA0057	1
495	0595421		Warranty, Goldstar, 3 Year, Apparatus, WA0018	1
496	0819254		Certification, Vehicle Stability, CD0196	1
497	0808565		Certification, Engine Installation, Enf, Paccar MX, 2027	1
498	0686786		Certification, Power Steering, CD0098	1
499	0892691		Certification, Cab Integrity, Saber FR/Enforcer, CD0189	1

Line	Option	Type	Option Description	Qty
500	0631973		Certification, Cab Door Durability, Saber FR/Enforcer, CD0137	1
501	0631978		Certification, Windshield Wiper Durability, Saber FR/Enforcer, CD0132	1
502	0556828		Certification, Electric Window, Not Available	1
503	0631977		Certification, Seat Belt Anchors and Mounting, Saber FR/Enforcer, CD0134	1
504	0735949		Certification, Cab HVAC System Performance, SFR/Enf, CD0165/CD0167/CD0174/CD0175	1
505	0545073		Amp Draw Report, NFPA Current Edition	1
506	0002758		Amp Draw, NFPA/ULC Radio Allowance	1
507	0799248		Appleton/Florida BTO	1
508	0000049		Ascendant BODY	1
509	0000012		PIERCE CHASSIS	1
510	0735525		PACCAR MX13 ENGINE	1
511	0046396		EVS 4000 Series TRANSMISSION	1
512	0520324		PIERCE PUMP, PUC	1
513	0020009		POLY TANK	1
514	0028047		NO FOAM SYSTEM	1
515	0020006		SIDE CONTROL	1
516	0020007		AKRON VALVES	1
517	0020015		ABS SYSTEM	1
518	0755453		AERIAL BASE	1

Proposal for **Oak Brook Fire Department, Village of**

Prepared by **John Kenna, Sales Representative MacQueen Emergency Group**

04/09/2026

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SINGLE SOURCE MANUFACTURER

Pierce Manufacturing, Inc. provides an integrated approach to the design and manufacture of our products that delivers superior apparatus and a dedicated support team. From our facilities, the chassis, cab weldment, cab, pump house (including the sheet metal enclosure, valve controls, piping and operators panel) body and aerial device will be entirely designed, tested, and hand assembled to the customer's exact specifications. The electrical system either hardwired or multiplexed, will be both designed and integrated by Pierce Manufacturing. The warranties relative to these major components (excluding component warranties such as engine, transmission, axles, pump, etc.) will be provided by Pierce as a single source manufacturer. Pierce's single source solution adds value by providing a fully engineered product that offers durability, reliability, maintainability, performance, and a high level of quality.

Your apparatus will be manufactured in Appleton, Wisconsin.

NFPA 2024 STANDARDS

This unit will comply with the NFPA standards effective January 1, 2024, except for fire department directed exceptions. These exceptions will be set forth in the Statement of Exceptions.

Certification of slip resistance of all stepping, standing and walking surfaces will be supplied with delivery of the apparatus.

All horizontal surfaces designated as a standing or walking surface that are greater than 48.00" above the ground must be defined by a 1.00" wide line along its outside perimeter. Perimeter markings and designated access paths to destination points will be identified on the customer approval print and are shown as approximate. Actual location(s) will be determined based on materials used and actual conditions at final build. Access paths may pass through hose storage areas and opening or removal of covers or restraints may be required. Access paths may require the operation of devices and equipment such as the aerial device or ladder rack.

A plate that is highly visible to the driver while seated will be provided. This plate will show the overall height, length, and gross vehicle weight rating.

The manufacturer will have programs in place for training, proficiency testing and performance for any staff involved with certifications.

An official of the company will designate, in writing, who is qualified to witness and certify test results.

NFPA COMPLIANCY

Apparatus proposed by the bidder will meet the applicable requirements of the National Fire Protection Association (NFPA) as stated in current edition at time of contract execution. Fire department's specifications that differ from NFPA specifications will be indicated in the proposal as "non-NFPA".

INSPECTION CERTIFICATE

A third party inspection certificate for the aerial device will be furnished upon delivery of the aerial device. The certificate will be Underwriters Laboratories Inc. Type 1 and will indicate that the aerial device has been inspected on the production line and after final assembly.

Visual structural inspections will be performed on all welds on both aluminum and steel ladders.

On critical weld areas, or on any suspected defective area, the following tests will be conducted:

- Magnetic particle inspection will be conducted on steel aerials to assure the integrity of the weldments and to detect any flaws or weaknesses. Magnets will be placed on each side of the weld while iron powder is placed on the weld itself. The powder will detect any crack that may exist. This test will conform to ASTM E709 and be performed prior to assembly of the aerial device.
- A liquid penetrant test will be conducted on aluminum aerials to assure the integrity of the weldments and to detect any flaws or weaknesses. This test will conform to ASTM E165 and be performed prior to assembly of the aerial device.
- Ultrasonic inspection will be conducted on all aerials to detect any flaws in pins, bolts and other critical mounting components.

In addition to the tests above, functional tests, load tests, and stability tests will be performed on all aerials. These tests will determine any unusual deflection, noise, vibration, or instability characteristics of the unit.

PUMP TEST

The pump will be tested, approved and certified by Underwriter's Laboratory at the manufacturer's expense. The test results and the pump manufacturer's certification of hydrostatic test; the engine manufacturer's certified brake horsepower curve; and the manufacturer's record of pump construction details will be forwarded to the Fire Department.

GENERATOR TEST

If the unit has a generator, the generator will be tested, approved, and certified by Underwriters Laboratories at the manufacturer's expense. The test results will be provided to the Fire Department at the time of delivery.

BREATHING AIR TEST

If the unit has breathing air, Pierce Manufacturing will draw an air sample from the air system and certify that the air quality meets the requirements of NFPA 1989, *Standard on Breathing Air Quality for Fire and Emergency Services Respiratory Protection.*

VEHICLE INSPECTION PROGRAM CERTIFICATION

To assure the vehicle is built to current NFPA 1900 standards, the apparatus, in its entirety, will be third-party, independent, audit-certified through Underwriters Laboratory (UL) that it is built and complies to all applicable standards in the current edition. The certification includes: all design, production, operational, and performance testing of not only the apparatus, but those components that are installed on the apparatus.

A placard will be affixed in the driver's side area stating the third party agency, the date, the standard and the certificate number of the whole vehicle audit.

BID BOND NOT REQUESTED

A bid bond will not be included. If requested, the following will apply:

All bidders will provide a bid bond as security for the bid in the form of a 5 percent bid bond to accompany their bid. This bid bond will be issued by a Surety Company who is listed on the U.S. Treasury Departments list of acceptable sureties as published in Department Circular 570. The bid bond will be issued by an authorized representative of the Surety Company and will be accompanied by a certified power of attorney dated on or before the date of bid. The bid bond will include language, which assures that the bidder/principal will give a bond or bonds as may be specified in the bidding or contract documents, with good and sufficient surety for the faithful performance of the contract, including the Basic One (1) Year Limited Warranty, and for the prompt payment of labor and material furnished in the prosecution of the contract.

Notwithstanding any document or assertion to the contrary, any surety bond related to the sale of a vehicle will apply only to the Basic One (1) Year Limited Warranty for such vehicle. Any surety bond related to the sale of a vehicle will not apply to any other warranties that are included within this bid (OEM or otherwise) or to the warranties (if any) of any third party of any part, component, attachment or accessory that is incorporated into or attached to the vehicle. In the event of any contradiction or inconsistency between this provision and any other document or assertion, this provision will prevail.

PERFORMANCE BOND, 3 YEARS

The successful bidder will furnish a Performance and Payment bond (Bond) equal to 100 percent of the total contract amount within 30 days of the notice of award. Such Bond will be in a form acceptable to the Owner and issued by a surety company included within the Department of Treasury's Listing of Approved Sureties (Department Circular 570) with a minimum A.M. Best Financial Strength Rating of A and Size Category of XV. In the event of a bond issued by a surety of a lesser Size Category, a minimum Financial Strength rating of A+ is required.

Bidder and Bidder's surety agree that the Bond issued hereunder, whether expressly stated or not, also includes the surety's guarantee of the vehicle manufacturer's Bumper to Bumper warranty period included within this proposal. Owner agrees that the penal amount of this bond will be simultaneously amended to 25 percent of the total contract amount upon satisfactory acceptance and delivery of the vehicle(s) included herein. Notwithstanding anything contained within this contract to the contrary, the surety's liability for any warranties of any type will not exceed three (3) years from the date of such satisfactory acceptance and delivery, or the actual Bumper to Bumper warranty period, whichever is shorter.

Due to global supply chain constraints, any delivery date contained herein is a good faith estimate as of the date of this order/contract, and merely an approximation based on current information. Delivery updates will be made available, and a final firm delivery date will be provided as soon as possible.

If the Producer Price Index of Components for Manufacturing [www.bls.gov Series ID: WPUID6112] ("PPI") has increased at a compounded annual growth rate of 5.0% or more between the month Pierce accepts the order ("Order Month") and a month 14 months prior to the then predicted Ready For Pickup date ("Evaluation Month"), then pricing may be updated in an amount equal to the increase in PPI over 5.0% for each year or fractional year between the Order Month and the Evaluation Month.
The seller will document any such updated price for the customer's approval before proceeding and provide an option to cancel the order.

APPROVAL DRAWING

A drawing of the proposed apparatus will be prepared and provided to the purchaser for approval before construction begins. The Pierce sales representative will also be provided with a copy of the same drawing. The finalized and approved drawing will become part of the contract documents. This drawing will indicate the chassis make and model, location of the lights, siren, horns, compartments, major components, etc.

A "revised" approval drawing of the apparatus will be prepared and submitted by Pierce to the purchaser showing any changes made to the approval drawing.

ELECTRICAL WIRING DIAGRAMS

Two (2) electrical wiring diagrams, prepared for the model of chassis and body, will be provided.

ENFORCER CHASSIS

The Pierce Enforcer™ is the custom chassis developed exclusively for the fire service. Chassis provided will be a new, tilt-type custom fire apparatus. The chassis will be manufactured in the apparatus body builder's facility eliminating any split responsibility. The chassis will be designed and manufactured for heavy-duty service, with adequate strength, capacity for the intended load to be sustained, and the type of service required. The chassis will be the manufacturer's first line tilt cab.

WHEELBASE

The wheelbase of the vehicle will be TBD.

GVW RATING

The gross vehicle weight rating will be TBD.

FRAME

The chassis frame will be built with two (2) steel channels bolted to five (5) cross members or more, depending on other options of the apparatus. The side rails will have a 13.38" tall web over the front and mid sections of the chassis, with a continuous smooth taper to 10.75" over the rear axle. Each rail will have a section modulus of 25.992 cubic inches and a resisting bending moment (rbm) of 3,119,040 in-lb over the critical regions of the frame assembly, with a section modulus of 18.96 cubic inches with an rbm of 2,275,200 in-lb over the rear axle. The frame rails will be constructed of 120,000 psi yield strength heat-treated 0.38" thick steel with 3.50" wide flanges.

FRAME REINFORCEMENT

In addition, a mainframe internal liner will be provided. The liner will be an internal "C" design that steps to an internal "L" design over the rear axle. It will be heat-treated steel measuring 12.50" x 3.00" x 0.25" through the front portion of the liner, stepping to 9.38" x 3.00" x 0.25" through the rear portion of the liner. Each liner will have a section modulus of 13.58 cubic inches, yield strength of 110,000 psi, and rbm of 1,494,042 in-lb. Total rbm at wheelbase center will be 4,391,869 in-lb.

The frame liner will be mounted inside of the chassis frame rail and extend the full length of the frame.

FRONT NON DRIVE AXLE

The Oshkosh TAK-4® front axle will be of the independent suspension design with a ground rating of 22,800 lb.

Upper and lower control arms will be used on each side of the axle. Upper control arm castings will be made of 100,000-psi yield strength 8630 steel and the lower control arm casting will be made of 55,000-psi yield ductile iron.

The center cross members and side plates will be constructed out of 80,000-psi yield strength steel.

Each control arm will be mounted to the center section using elastomer bushings. These rubber bushings will rotate on low friction plain bearings and be lubricated for life. Each bushing will also have a flange end to absorb longitudinal impact loads, reducing noise and vibrations.

There will be nine (9) grease fittings supplied, one (1) on each control arm pivot and one (1) on the steering gear extension.

The upper control arm will be shorter than the lower arm so that wheel end geometry provides positive camber when deflected below rated load and negative camber above rated load.

Camber at load will be zero degrees for optimum tire life.

The ball joint bearing will be of low friction design and be maintenance free.

Toe links that are adjustable for alignment of the wheel to the center of the chassis will be provided.

The wheel ends will have little to no bump steer when the chassis encounters a hole or obstacle.

The steering linkage will provide proper steering angles for the inside and outside wheel, based on the vehicle wheelbase.

The axle will have a turning angle of up to 45 degrees.

FRONT SUSPENSION

Front Oshkosh TAK-4™ independent suspension will be provided with a minimum ground rating of 22,800 lb.

The independent suspension system will be designed to provide maximum ride comfort. The design will allow the vehicle to travel at highway speeds over improved road surfaces and at moderate speeds over rough terrain with minimal transfer of road shock and vibration to the vehicle's crew compartment.

Each wheel will have torsion bar type spring. In addition, each front wheel end will also have energy absorbing jounce bumpers to prevent bottoming of the suspension.

The suspension design will be such that there is at least 10.00" of total wheel travel and a minimum of 3.75" before suspension bottoms.

The torsion bar anchor lock system allows for simple lean adjustments, without the use of shims. One can adjust for a lean within 15 minutes per side. Anchor adjustment design is such that it allows for ride height adjustment on each side.

The independent suspension was put through a durability test that simulated 140,000 miles of inner city driving.

FRONT SHOCK ABSORBERS
KONI heavy-duty telescoping shock absorbers will be provided on the front suspension.

FRONT OIL SEALS
Oil seals with viewing window will be provided on the front axle.

FRONT TIRES
Front tires will be Goodyear 425/65R22.50 radials, 20 ply Armor Max MSA, rated for 22,800 lb maximum axle load and 68 mph maximum speed.

The tires will be mounted on Alcoa 22.50" x 12.25" polished aluminum disc type wheels with a ten (10) stud, 11.25" bolt circle.

REAR AXLE
The rear axle will be a Meritor™, Model RT-52-185, tandem axle assembly with a capacity of 54,000 lb.

An inter-axle differential, which divides torque evenly between axles, will be provided on the rear axle with an indicator light mounted on the cab instrument panel. The inter-axle lock will be controlled by a pneumatic switch located in the cab within the reach of the driver.

TOP SPEED OF VEHICLE
A rear axle ratio will be furnished to allow the vehicle to reach a top speed of 60 mph/96KPH.

REAR SUSPENSION
Rear suspension will be a Hendrickson Model FMX 542 EX, air ride with a ground rating of 54,000 lb. The suspension will have the following features:

- Outboard vertical mounted heavy-duty shock absorbers
- Utilizes track bars and torque rods to restrict lateral axle movement and maintain constant pinion angles
- Super heavy-duty transverse beam to help reduce axle stress while increasing roll stability or resistance to lean
- Low spring rate air springs for excellent ride quality
- Dual height control valves to maintain level vehicle from side to side

REAR OIL SEALS
Oil seals will be provided on the rear axle(s).

REAR TIRES
Rear tires will be eight (8) Goodyear 12R22.50 radials, load range H, Endurance RSA, highway tread, rated for 54,240 lb maximum axle load and 75 mph maximum speed.

The tires will be mounted on Alcoa® 22.50" x 8.25" polished aluminum disc wheels with a ten (10) stud 11.25" bolt circle.

TIRE BALANCE
All tires will be balanced with Counteract balancing beads. The beads will be inserted into the tire and eliminate the need for wheel weights.

TIRE PRESSURE MANAGEMENT

There will be a RealWheels LED AirSecure™ tire alert pressure management system provided, that will monitor each tire's pressure. A sensor will be provided on the valve stem of each tire for a total of 10 tires.

The sensor will calibrate to the tire pressure when installed on the valve stem for pressures between 10 and 200 psi. The sensor will activate an integral battery operated LED when the pressure of that tire drops 5 to 8 psi.

Removing the cap from the sensor will indicate the functionality of the sensor and battery. If the sensor and battery are in working condition, the LED will immediately start to flash.

CHROME LUG NUT COVERS

Chrome plastic lug nut covers will be supplied on front and rear wheels.

FRONT HUB COVERS

Stainless steel hub covers will be provided on the front axle. An oil level viewing window will be provided.

REAR HUB COVERS

Stainless steel, high hat, hub covers will be provided on the rear axle hubs.

MUD FLAPS

Mud flaps with a Pierce logo will be installed behind the front and rear wheels.

TIRE, AIR PRESSURE EQUALIZATION

A Crossfire air pressure equalization system will be provided on the rear dual wheels. This system will equalize the tire air pressure in the rear duals.

WHEEL CHOCKS

There will be one (1) pair of folding Ziamatic, Model SAC-44-E, aluminum alloy, Quick-Choc wheel blocks, with easy-grip handle provided.

Wheel Chock Brackets

There will be one (1) pair of Zico, Model SQCH-44-H, horizontal mounting wheel chock brackets provided for the Ziamatic, Model SAC-44-E, folding wheel chocks. The brackets will be made of aluminum and consist of a quick release spring loaded rod to hold the wheel chocks in place. The brackets will be mounted forward of the left side rear tire.

ELECTRONIC STABILITY CONTROL

A vehicle control system will be provided as an integral part of the ABS brake system from Meritor Wabco.

The system will monitor and update the lateral acceleration of the vehicle and compare it to a critical threshold where a side roll event may occur. If the critical threshold is met, the vehicle control system will automatically reduce engine RPM, engage the engine retarder (if equipped), and selectively apply brakes to the individual wheel ends of the front and rear axles to reduce the possibility of a side roll event.

The system will monitor directional stability through a lateral accelerometer, steer angle sensor and yaw rate sensor. If spinout or drift out is detected, the vehicle control system will selectively apply brakes to the individual wheel ends of the front and rear axles to bring the vehicle back to its intended direction.

ANTI-LOCK BRAKE SYSTEM

The vehicle will be equipped with a Wabco 6S6M, anti-lock braking system. The ABS will provide a six (6) channel anti-lock braking control on both the front and rear wheels. A digitally controlled system that utilizes microprocessor technology will control the anti-lock braking system. Each wheel will be monitored by the system. When any wheel begins to lockup, a signal will be sent to the control unit. This control unit will then reduce the braking of that wheel for a fraction of a second and then reapply the brake. This anti-lock brake system will eliminate the lockup of any wheel thus helping to prevent the apparatus from skidding out of control.

AUTOMATIC TRACTION CONTROL

An anti-slip feature will be included with the ABS. The Automatic Traction Control will be used for traction in poor road and weather conditions. The Automatic Traction Control will act as an electronic differential lock that will not allow a driving wheel to spin, thereby supplying traction at all times. The ABS electronic control unit (ECU) will work with the engine ECU, sharing information concerning wheel slip. Engine ECU will use information to control engine speed, allowing only as much throttle application as required for the available traction, regardless of how much the driver is asking for. An "off road traction" switch will be provided on the instrument panel. Activation of the switch will allow additional tire slip to let the truck climb out and get on top of deep snow or mud.

BRAKES

The service brake system will be full air type.

The front brakes will be Knorr/Bendix disc type with a 17.00" ventilated rotor for improved stopping distance.

The brake system will be certified, third party inspected, for improved stopping distance.

The rear brakes will be Meritor™ 16.50" x 7.00" cam operated with automatic slack adjusters. Dust shields will be provided.

AIR COMPRESSOR, BRAKE SYSTEM

The air compressor will be a Wabco single piston compressor with a 26.8 CI displacement.

BRAKE SYSTEM

The brake system will include:

- Brake treadle valve
- Heated automatic moisture ejector on air dryer
- Total air system capacity of 6,408 cubic inches
- Two (2) air pressure gauges with a red warning light and an audible alarm, that activates when air pressure falls below 60 psi
- Spring set parking brake system
- Parking brake operated by a push-pull style control valve

- A parking "brake on" indicator light on instrument panel
- Park brake relay/inversion and anti-compounding valve, in conjunction with a double check valve system, will be provided with an automatic spring brake application at 40 psi
- A pressure protection valve to prevent all air operated accessories from drawing air from the air system when the system pressure drops below 80 psi (550 kPa)
- 1/4 turn drain valves on each air tank

The air tank will be primed and painted to meet a minimum 750 hour salt spray test.

The air tanks will be painted black #98.

To reduce the effects of corrosion, the air tank will be mounted with stainless steel brackets.

BRAKE SYSTEM AIR DRYER

The air dryer will be a WABCO System Saver 1200 with spin-on coalescing filter cartridge and 100 watt heater.

BRAKE LINES

Color-coded nylon brake lines will be provided. The lines will be wrapped in a heat protective loom in the chassis areas that are subject to excessive heat.

AIR INLET

One (1) air inlet with 3D series male coupling will be provided. It will allow station air to be supplied to the apparatus brake system through a shoreline hose. The inlet will be located forward in the driver side lower step well of cab. A check valve will be provided to prevent reverse flow of air. The inlet will discharge into the "wet" tank of the brake system. A mating female fitting will also be provided with the loose equipment.

RECESSED BOX FOR AIR FITTING

One (1) air inlet will have an smooth aluminum recessed box provided. The box(es) will allow the air fitting to be recessed inside the stepwell to prevent damage. DS step.

ALL WHEEL LOCK-UP

An additional all wheel lock-up system will be installed which applies air to the front brakes only. The standard spring brake control valve system will be used for the rear.

ADDITIONAL AIR TANK FOR AIR HORN

An additional air tank with 1,454 cubic inch displacement will be provided to increase the capacity of the air system. This tank will be dedicated for air horn use.

The air tank will be primed and painted to meet a minimum 750 hour salt spray test. To reduce the effects of corrosion, the air tank will be mounted with stainless steel brackets.

The air tank(s) will be painted same as frame color.

The output flow of the engine air compressor varies with engine rpm. Full compressor output is only achieved at governed engine speed. Engine speed may be limited by generators, pumps and other PTO driven options.

ENGINE

The chassis will be powered by an electronically controlled engine as described below:

Make:	Paccar
Model:	MX
Power:	510 hp at 1600rpm
Torque:	1850 lb-ft at 1000rpm
Governed Speed:	1900 rpm
Emissions Certification:	EPA 2027
Fuel:	Diesel
Cylinders:	Six (6)
Displacement:	13.7L
Starter:	DP60
Fuel Filters:	Dual cartridge style with check valve, water separator, and water in fuel sensor

The engine will include On-board diagnostics (OBD), which provides self diagnostic and reporting. The system will give the owner or repair technician access to state of health information for various vehicle sub systems. The system will monitor vehicle systems, engine and after treatment. The system will illuminate a malfunction indicator light on the dash console if a problem is detected.

HIGH IDLE

A high idle switch will be provided, inside the cab, on the instrument panel, that will automatically maintain a preset engine rpm. A switch will be installed, at the cab instrument panel, for activation/deactivation.

The high idle will be operational only when the parking brake is on and the truck transmission is in neutral. A green indicator light will be provided, adjacent to the switch. The light will illuminate when the above conditions are met. The light will be labeled "OK to Engage High Idle."

ENGINE BRAKE

The compression release brake option is a fully integrated MX engine braking system. It utilizes the turbocharger and back pressure valve, but adds in a hydraulically operated compression brake to increase overall retarding power.

To maximize the effectiveness of the compression brake the MX engine brake system works in conjunction with the turbocharger and back pressure valve.

The driver will be able to turn the engine brake system on/off and have a high, medium and low setting.

CLUTCH FAN

A fan clutch will be provided. The fan clutch will be automatic when the pump transmission is in "Road" position, and constantly engaged when in "Pump" position.

ENGINE AIR INTAKE

The engine air intake will be located above the engine cooling package. It will draw fresh air from the front of the apparatus through the radiator grille.

The ember separator is designed to prevent road dirt and recirculating hot air from entering the engine.

The ember separator will be easily accessible by tilting the cab.

EXHAUST SYSTEM

The exhaust system will be stainless steel from the turbo to the engine's aftertreatment device. The exhaust system will include an aftertreatment device to meet current EPA standards. An insulation wrap will be provided on all exhaust pipe between the turbo and the aftertreatment device to minimize the transfer of heat to the cab.

The exhaust will terminate horizontally ahead of the right side rear wheels and will extend 2.00" past the body rub rail. The exhaust pipes will be aluminized steel.

There will be an aluminized steel exhaust diffuser with a standard straight tip on the end provided to reduce the temperature of the exhaust as it exits. Heat deflector shields will be provided to isolate chassis and body components from the heat of the tailpipe diffuser.

RADIATOR

The radiator and the complete cooling system will meet or exceed the current edition of applicable NFPA and engine manufacturer cooling system standards.

For maximum corrosion resistance and cooling performance, the entire radiator core will be constructed using long life aluminum alloy. The radiator core will consist of aluminum fins, having a serpentine design, brazed to aluminum tubes.

The radiator core will have a minimum front area of 1060 square inches.

Supply tank will be made of heavy duty glass-reinforced nylon and the return tank will be made of aluminum. Both tanks will be crimped onto the core assembly using header tabs and a compression gasket to complete the radiator core assembly. There will be a full steel frame around the inserts to enhance cooling system durability and reliability.

The radiator will be compatible with commercial antifreeze solutions.

The radiator assembly will be isolated from the chassis frame rails with rubber isolators to prevent the development of leaks caused by twisting or straining when the apparatus operates over uneven terrain.

The radiator will include a de-aeration/expansion tank. For visual coolant level inspection, the radiator will have a built-in sight glass. The radiator will be equipped with a 15 psi pressure relief cap.

A drain port will be located at the lowest point of the cooling system and/or the bottom of the radiator to permit complete flushing of the coolant from the system.

Shields or baffles will be provided to prevent recirculation of hot air to the inlet side of the radiator.

COOLANT LINES

Gates, or Goodyear, rubber hose will be used for all engine coolant lines installed by Pierce Manufacturing.

Hose clamps will be stainless steel constant torque type to prevent coolant leakage. They will expand and contract according to coolant system temperature thereby keeping a constant clamping pressure on the hose.

FUEL TANK

A 65 gallon fuel tank will be provided and mounted at the rear of the chassis. The tank will be constructed of 12-gauge, hot rolled steel. It will be equipped with swash partitions and a vent. To reduce the effects of corrosion, the fuel tank will be mounted with stainless steel straps.

A 0.75" drain plug will be provided in a low point of the tank for drainage.

A fill inlet will be located on the left hand side of the body and be covered with a hinged, spring loaded, stainless steel door that is marked "Ultra Low Sulfur - Diesel Fuel Only".

A 0.50" diameter vent will be provided running from top of tank to just below fuel fill inlet.

The tank will meet all FHWA 393.67 requirements, including a fill capacity of 95 percent of tank volume.

All fuel lines will be provided as recommended by the engine manufacturer.

DIESEL EXHAUST FLUID TANK

A 7.3 gallon diesel exhaust fluid (DEF) tank will be provided and mounted under the cab on the driver's side.

A fill inlet will be provided on the driver's side of the cab. The lift up door will be spring loaded and be polished stainless steel.

TRANSMISSION

An Allison 6th generation, Model EVS 4500P, electronic, torque converting, automatic transmission will be provided.

The transmission will be equipped with prognostics to monitor oil life, filter life, and transmission health. A wrench icon on the shift selector's digital display will indicate when service is due.

Two (2) PTO openings will be located on left side and top of converter housing (positions 8 o'clock and 1 o'clock).

A transmission temperature gauge with amber light and buzzer will be installed on the cab instrument panel.

TRANSMISSION SHIFTER

A six (6)-speed push button shift module will be mounted to right of driver on console. Shift position indicator will be indirectly lit for after dark operation.

The transmission ratio will be: 1st - 4.70 to 1.00, 2nd - 2.21 to 1.00, 3rd - 1.53 to 1.00, 4th - 1.00 to 1.00, 5th - 0.76 to 1.00, 6th - 0.67 to 1.00, R - 5.55 to 1.00.

TRANSMISSION PROGRAMMING

The transmission will be programmed to automatically shift the transmission to neutral when the parking brake is set to simplify operation and increase operational safety.

TRANSMISSION COOLER

A Modine plate and fin transmission oil cooler will be provided using engine coolant to control the transmission oil temperature.

SYNTHETIC FLUID ONLY TAG

A tag will be located at the transmission fill point labeled "Synthetic Fluid Only".

TRANSMISSION FLUID

The transmission will be provided with TranSynd, or other Allison approved TES-668 heavy duty synthetic transmission fluid.

DRIVELINE

Drivelines will be a heavy-duty metal tube and be equipped with Spicer® 1810 universal joints.

The shafts will be dynamically balanced before installation.

A splined slip joint will be provided in each driveshaft where the driveline design requires it. The slip joint will be coated with Glidecoat® or equivalent.

STEERING

Dual Sheppard, Model M110, steering gears, with integral heavy-duty power steering, will be provided. For reduced system temperatures, the power steering will incorporate an air to oil cooler and Paccar hydraulic pump with integral pressure and flow control. All power steering lines will have wire braded lines with crimped fittings.

A tilt and telescopic steering column will be provided to improve fit for a broader range of driver configurations.

STEERING WHEEL

The steering wheel will be 18.00" in diameter, have tilting and telescoping capabilities, and a four (4)-spoke design.

There will be a switch pod provided on the left side of the steering wheel between the spokes. The switch pods will be an integral part of the steering wheel.

The following switches will be provided:

- Windshield wash
- Wiper intermittent speed increase
- Wiper intermittent speed decrease
- Hi/Lo wiper speed

- Wiper off

LOGO AND CUSTOMER DESIGNATION ON DASH

The dash panel will have an emblem containing the Pierce logo and customer name. The emblem will have three (3) rows of text for the customer's department name. There will be a maximum of eight (8) characters in the first row, 11 characters in the second row and 11 characters in the third row.

The first row of text will be: Oak Brook

The second row of text will be: Fire

The third row of text will be: Department

AUTOMATIC CHASSIS LUBRICATION

A Vogel automatic lubrication system will be provided. The system will supply grease while the parking brake is off and will be paused while the parking brake is on. The system will include an electronic control unit that allows for adjustable timing intervals and monitors the system for faults and low-level indications.

The lubrication system reservoir will be mounted in the pumphouse on the apparatus unless otherwise necessitated by the vehicle configuration.

All serviceable grease points on the front and rear axles of the chassis will be connected to the lubrication system:

- King pins, tie rods, and drag links on vehicles equipped with a straight front axle
- S-cams and slack adjusters on vehicles equipped with cam brakes
- Spring pins and spring shackles on vehicles equipped with leaf springs that have serviceable grease points

BUMPER

A one (1)-piece bumper manufactured from .25" formed steel with a .38" bend radius will be provided. The bumper will be a minimum of 10.00" high with a 1.50" top and bottom flange, will be attached to a bolted modular extension frame. The bumper will be have 45 degree corners and side plates. The bumper will be metal finished and painted red 90 .

The bumper will be extended 26.00" from front face of cab.

The bumper extension frame will be fabricated using .38" gussets welded to 2.00" x 5.00" steel tubing running front to back with .50" front and rear plates mounted to the chassis frame. Fabricated "U" shaped channel supports the weight of the bumper and provides the main strength in frontal crash. .25" steel is formed into "C" shaped backing plates for mounting of the bumper and providing protection to the cab.

The bumper extension's cross section is considered expendable, and a crush zone. The bumper is not intended for pushing other vehicles or objects.

Tow hooks/eyes located under the bumper extension are for straight pull only.

TOOL TRAY
A tool tray, constructed of aluminum, will be placed in the center of the bumper extension. The tray will measure 29.00" wide x 21.50" front to back x 15.00" deep.

Black rubber grating will be provided at the bottom of the tray. Drain holes are also provided.

GRAVEL PAN
A gravel pan, constructed of bright aluminum treadplate, will be furnished between the bumper and cab face.

The gravel pan will be properly supported from the underside to prevent flexing and vibration of the aluminum treadplate.

TOW HOOKS
Two (2) chromed steel tow hooks will be installed under the bumper and attached to the front frame members. The tow hooks will be designed and positioned to allow up to a 6,000 lb straight horizontal pull in line with the centerline of the vehicle. The tow hooks will not be used for lifting of the apparatus.

BUMPER TRAY
A full width bumper tray, constructed of smooth aluminum, will be located in the under slung bumper extension.

The tray will be a bolted modular design, 8.00" deep.The tray will be utilized for storage of rescue tools. Genesis S54-SL3 spreader / Genesis C236- SL3 cutter / Remaining area on PS of tray to be used for 1.75" hose and outlet will be stored.

Black rubber grating will be provided at the bottom of the tray. Drain holes are also provided.

GRAVEL PAN
A gravel pan, constructed of bright aluminum treadplate, will be furnished between the bumper and cab face.

The gravel pan will be properly supported from the underside to prevent flexing and vibration of the aluminum treadplate.

TRAY COVER
A bright aluminum treadplate cover will be provided over the underslung bumper tray. The cover will be flush with the gravel pan.

The cover will extend over the entire tray.

The cover will be attached with a stainless steel hinge.

There will be two (2) stainless steel grab handles on the front of the cover to assist in opening the cover.

The cover will be secured with two (2) D-handle latches in the closed position and pneumatic stay arm on each side will hold the cover in the open position.

UL-LX COATING - FRONT BUMPER

Protective black UL-LX® coating will be provided on the outside exterior of the top and bottom front bumper flanges. It will not be applied on the inside of the flanges.

The lining will be properly installed by an authorized UL-LX dealer.

PROTECTIVE COATING ON TRAY COVER(S)

A protective UL-LX® spray-on polyurethane/polyurea coating will be applied to top surface of the bumper tray cover(s).

The coating will be black in color.

The coating will be properly installed by an authorized UL-LX dealer.

There will be one (1) hose tray cover(s) coated.

CAB

The Enforcer cab will be designed specifically for the fire service and manufactured by the chassis builder.

The cab will be built by the apparatus manufacturer in a facility located on the manufacturer's premises.

For reasons of structural integrity and enhanced occupant protection, the cab will be a heavy duty design, constructed to the following minimal standards.

The cab will have 12 main vertical structural members located in the A-pillar (front cab corner posts), B-pillar (side center posts), C-pillar (rear corner posts), and rear wall areas. The A-pillar will be constructed of solid A356-T5 aluminum castings. The B-pillar and C-pillar will be constructed from 0.13" wall extrusions. The rear wall will be constructed of two (2) 2.00" x 2.00" outer aluminum extrusions and two (2) 2.00" x 1.00" inner aluminum extrusions. All main vertical structural members will run from the floor to 4.625" x 3.864" x 0.090" thick roof extrusions to provide a cage-like structure with the A-pillar and roof extrusions being welded into a 0.25" thick corner casting at each of the front corners of the roof assembly.

The front of the cab will be constructed of a 0.13" firewall plate, covered with a minimum 0.090" front skin thickness, and reinforced with a full width x 0.50" thick cross-cab support located just below the windshield and fully welded to the engine tunnel. The cross-cab support will run the full width of the cab and weld to each A-pillar, the 0.13" firewall plate, and the front skin.

The cab floors will be constructed of 0.125" thick aluminum plate and reinforced at the firewall with an additional 0.375" thick cross-floor support providing a total thickness of 0.50" of structural material at the front floor area. The front floor area will also be supported with two (2) triangular 0.30" wall extrusions that also provides the mounting point for the cab lift. This tubing will run from the floor wireway of the cab to the engine tunnel side plates, creating the structure to support the forces created when lifting the cab.

The cab will be 96.00" wide (outside door skin to outside door skin) to maintain maximum maneuverability.

The centerline of front axle to the rear of the cab will be 84.00" long.

The forward cab section will have an overall height (from the cab roof to the ground) of approximately 99.00". The crew cab section will have a 10.00" raised roof, with an overall cab height of approximately 109.00". The overall height listed will be calculated based on a truck configuration with the lowest suspension weight rating, the smallest diameter tires for the suspension, no water weight, no loose equipment weight, and no personnel weight. Larger tires, wheels, and suspension will increase the overall height listed.

The raised roof section of the crew cab will have a 58.00" wide x 10.00" high square notch in the center section of the roof. This will allow the aerial device to be bedded in the same location as a non-raised roof.

The floor to ceiling height inside the crew cab will be 44.50" in the forward facing center position and 63.50" in the forward facing outboard positions.

The crew cab floor will measure 60.00" from the rear wall to the back side of the rear facing seat risers.

The medium block engine tunnel, at the rearward highest point (knee level), will measure 76.00" to the rear wall. The big block engine tunnel will measure 66.00" to the rear wall.

The crew cab will be a totally enclosed design with the interior area completely open to improve visibility and verbal communication between the occupants.

The cab will be a full tilt cab style.

A 3-point cab mount system with rubber isolators will improve ride quality by isolating chassis vibrations from the cab.

CAB ROOF DRIP RAIL

For enhanced protection from inclement weather, a drip rail will be furnished on the sides of the cab. The drip rail will be painted to match the cab roof, and bonded to the sides of the cab. The drip rail will extend the full length of the cab roof.

CAB PUMP ENCLOSURE

The rear of the cab will be made to house the fire pump below the forward facing crew cab seats. The cab side panels will be notched to accommodate the pump panel.

FENDER LINERS

Full circular inner fender liners in the wheel wells will be provided.

PANORAMIC WINDSHIELD

A one (1)-piece safety glass windshield will be provided with over 2,775 square inches of clear viewing area. The windshield will be full width and will provide the occupants with a panoramic view. The windshield will consist of three (3) layers: outer light, middle safety laminate, and inner light. The outer

light layer will provide superior chip resistance. The middle safety laminate layer will prevent the windshield glass pieces from detaching in the event of breakage. The inner light will provide yet another chip resistant layer. The cab windshield will be bonded to the aluminum windshield frame using a urethane adhesive. A custom frit pattern will be applied on the outside perimeter of the windshield for a finished automotive appearance.

WINDSHIELD WIPERS

Three (3) electric windshield wipers with washer will be provided that meet FMVSS and SAE requirements.

The washer reservoir will be able to be filled without raising the cab.

ENGINE TUNNEL

Engine hood side walls will be constructed of 0.375" aluminum. The top will be constructed of 0.125" aluminum and will be tapered at the top to allow for more driver and passenger elbow room.

The engine hood will be insulated for protection from heat and sound. The noise insulation keeps the dBA level within the limits stated in the current edition of applicable NFPA standards.

The engine tunnel will be no higher than 17.00" off the crew cab floor.

INTERIOR CAB INSULATION

The cab will include 1.00" insulation in the ceiling, 1.50" insulation in the side walls, a minimum of 1.00" insulation in the crew cab floor, and 2.00" insulation in the rear wall to maximize acoustic absorption and thermal insulation.

CAB REAR WALL EXTERIOR COVERING

The exterior surface of the rear wall of the cab will be overlaid with bright aluminum treadplate except for areas that are not typically visible when the cab is lowered.

CAB LIFT

A hydraulic cab lift system will be provided consisting of an electric powered hydraulic pump, dual lift cylinders, and necessary hoses and valves.

Lift controls will be located on the right side pump panel or front area of the body in a convenient location.

The cab will be capable of tilting 43 degrees to accommodate engine maintenance and removal.

The cab will be locked down by a 2-point normally closed spring loaded hook type latch that fully engages after the cab has been lowered. The system will be hydraulically actuated to release the normally closed locks when the cab lift control is in the raised position and cab lift system is under pressure. When the cab is completely lowered and system pressure has been relieved, the spring loaded latch mechanisms will return to the normally closed and locked position.

The hydraulic cylinders will be equipped with a velocity fuse that protects the cab from accidentally descending when the control is located in the tilt position.

For increased safety, a redundant mechanical stay arm will be provided that must be manually put in place on the left side between the chassis and cab frame when the cab is in the raised position. This device will be manually stowed to its original position before the cab can be lowered.

Cab Lift Interlock
The cab lift system will be interlocked to the parking brake. The cab tilt mechanism will be active only when the parking brake is set and the ignition switch is in the on position. If the parking brake is released, the cab tilt mechanism will be disabled.

GRILLE
An aluminum mesh grille screen, inserted behind a bright finished grille surround, will be provided on the front center of the cab. The mesh screen will be painted black #101.

DOOR JAMB SCUFFPLATES
All cab door jambs will be furnished with a 1.00" polished stainless steel scuffplate, mounted on the striker side of the jamb.

SIDE OF CAB MOLDING
Chrome molding will be provided on both sides of cab.

MIRRORS
A Retrac, Model 613423, dual vision, motorized, west coast style mirror, with chrome finish, will be mounted on each side of the front cab door with spring loaded retractable arms. The flat glass and convex glass will be heated and adjustable with remote control within reach of the driver.

FRONT CROSS VIEW MIRROR
An 8.00" diameter convex mirror will be provided over the officer's side front corner of the cab. The mirror will provide the driver with a view of the front bumper and the area several feet in front of the truck.

The mirror housing, tubing, clamps, and hardware will be constructed of corrosion resistant stainless steel.

DOORS
To enhance entry and egress to the cab, the forward cab door openings will be a minimum of 37.50" wide x 63.37" high. The crew cab doors will be located on the sides of the cab and will be constructed in the same manner as the forward cab doors. The crew cab door openings will be a minimum of 34.30" wide x 73.25" high.

The forward cab and crew cab doors will be constructed of extruded aluminum with a nominal material thickness of 0.093". The exterior door skins will be constructed from 0.090" aluminum.

A customized, vertical, pull-down type door handle will be provided on the exterior of each cab door. The finish of the door handle will be chrome/black. The exterior handle will be designed specifically for the fire service to prevent accidental activation, and will provide 4.00" wide x 2.00" deep hand clearance for ease of use with heavy gloved hands.

Each door will also be provided with an interior flush, open style paddle handle that will be readily operable from fore and aft positions, and be designed to prevent accidental activation. The interior handles will provide 4.00" wide x 1.25" deep hand clearance for ease of use with heavy gloved hands.

The cab doors will be provided with both interior (rotary knob) and exterior (keyed) locks exceeding FMVSS standards. The keys will be Model 751. The locks will be capable of activating when the doors are open or closed. The doors will remain locked if locks are activated when the doors are opened, then closed.

A full length, heavy duty, stainless steel, piano-type hinge with a 0.38" pin and 11 gauge leaf will be provided on all cab doors. There will be double automotive-type rubber seals around the perimeter of the door framing and door edges to ensure a weather-tight fit.

A chrome grab handle will be provided on the inside of each cab door for ease of entry.

A red webbed grab handle will be installed on the crew cab door stop strap. The grab handles will be securely mounted.

The bottom cab step at each cab door location will be located below the cab doors and will be exposed to the exterior of the cab.

Door Panels

The inner cab door panels will be constructed out of brushed stainless steel.

MANUAL CAB DOOR WINDOWS

All cab entry doors will contain a conventional roll down window.

ELECTRIC CAB DOOR LOCKS

The front driver and officer doors will have a door lock master switch that will control all front and rear crew cab door locks. Each rear crew cab door will have its own lock control.

There will be one (1) concealed switch located in an easily accessible chassis specific location that will unlock all the doors.

CAB STEPS

A dual step will be provided below each cab and crew cab door. The steps will be designed with a grip pattern punched into bright aluminum treadplate material providing support, slip resistance, and drainage. The steps will be a bolt-in design to minimize repair costs should they need to be replaced. The forward cab steps will be a minimum 25.00" wide, and the crew cab steps will be 21.50" wide with a 7.00" minimum depth. The step design raises the middle step higher and closer to the cab floor, resulting in a 12.50" distance from the step to cab floor in the cab and a 10.25" distance from the step to cab floor in the crew cab. Stepping distances from the ground to first step will be approximately 14.00" and from first step to middle step will be approximately 12.00".

The vertical surface of the upper step well will be aluminum treadplate.

The first step will be lit by a white 12 volt DC LED light provided on the step.

CAB EXTERIOR HANDRAILS
A 1.25" diameter slip-resistant, knurled aluminum handrail will be provided adjacent to each cab and crew cab door opening to assist during cab ingress and egress.

STEP LIGHTS
There will be six (6) white LED step lights with chrome housing installed for cab and crew cab access steps.

- One (1) light for the left side cab access steps.
- Two (2) lights for the left side crew cab access steps.
- Two (2) lights for the right side crew cab access steps.
- One (1) light for the right side cab access step.

In order to ensure exceptional illumination, each light will provide a minimum of 25 foot-candles (fc) covering an entire 15" x 15" square placed ten (10) inches below the light and a minimum of 1.5 fc covering an entire 30" x 30" square at the same ten (10) inch distance below the light.

The lights will be activated when the battery switch is on and the adjacent door is opened.

FENDER CROWNS
Stainless steel fender crowns will be installed at the cab wheel openings.

CAB DASH
The driver side dash, switch panel located to the right of the driver, and center console will be an easily removable high impact resistant polymer cover.

The instrument gauge cluster will be surrounded with a high impact ABS plastic contoured to the same shape of the instrument gauge cluster.

The officer side dash will be a flat top design with an upper beveled edge to provide easy maintenance and will be constructed out of aluminum and painted to match the cab interior.

MOUNTING PLATE ON ENGINE TUNNEL
Equipment installation provisions will be installed on the engine tunnel.

A .188" aluminum plate will be bolted to the top the engine tunnel top of dog house. The plate will be spaced off the engine tunnel .75" to allow for wire routing below the plate. The size of the plate will be approximately Full. The mounting surface will be painted to match the cab interior.

CAB INTERIOR
The cab interior will be constructed of primarily metal (painted aluminum) to withstand the severe duty cycles of the fire service.

The engine tunnel will be padded and covered, on the top and sides, with gray woven with black Imperial 1200 vinyl coated polyester.

For durability and ease of maintenance, the cab interior side walls will be painted aluminum. The rear wall will be painted aluminum.

The headliner will be installed in both forward and rear cab sections. Headliner material will be vinyl. A sound barrier will be part of its composition. Material will be installed on an aluminum sheet and securely fastened to interior cab ceiling.

The forward portion of the cab headliner will permit easy access for service of electrical wiring or other maintenance needs.

All wiring will be placed in metal raceways.

CAB INTERIOR UPHOLSTERY

The cab interior upholstery will be 36 oz dark silver gray vinyl.

CAB INTERIOR PAINT

The cab interior metal surfaces, excluding the rear heater panels, will be painted red, vinyl texture paint.

The rear heater panels will be painted black, vinyl textured paint.

CAB FLOOR

A small blister will be provided at the rear of the engine tunnel for chassis components.

The cab and crew cab floor areas will be covered with Polydamp™ acoustical floor mat consisting of a black pyramid rubber facing and closed cell foam decoupler.

The top surface of the material has a series of raised pyramid shapes evenly spaced, which offer a superior grip surface. Additionally, the material has a 0.25" thick closed cell foam (no water absorption) which offers a sound dampening material for reducing sound levels.

DEFROST/AIR CONDITIONING SYSTEM

A ceiling mounted combination heater, defroster and air conditioning system will be installed in the cab above the engine tunnel area.

Cab Defroster

A 54,000 BTU heater-defroster unit with 690 SCFM of air flow will be provided inside the cab. The heater-defrost will be installed in the forward portion of the cab ceiling. Air outlets will be strategically located in the cab header extrusion per the following:

- One (1) adjustable will be directed towards the left side cab window
- One (1) adjustable will be directed towards the right side cab window
- Six (6) fixed outlets will be directed at the windshield

The defroster will be capable of clearing 98 percent of the windshield and side glass when tested under conditions where the cab has been cold soaked at 0 degrees Fahrenheit for 10 hours, and a 2 ounce per square inch layer of frost/ice has been able to build up on the exterior windshield. The defroster system will meet or exceed SAE J382 requirements.

Cab/Crew Auxiliary Heater

There will be one (1) 31,000 BTU auxiliary heater with 560 SCFM of air flow provided in each outboard rear facing seat riser with a dual scroll blower. An aluminum plenum incorporated into the cab structure to be used to transfer heat to the forward positions.

Air Conditioning

A 13.10 cubic inch compressor will be installed on the engine.

A roof-mounted condenser with a 78,000 BTU output at 2,400 SCFM that meets and exceeds the performance specification will be installed on the cab roof. Mounting the condenser below the cab or body would reduce the performance of the system and will not be acceptable. The condenser cover to be painted to match the cab roof.

The air conditioning system will be capable of cooling the average cab temperature from 100 degrees Fahrenheit to 75 degrees Fahrenheit at 50 percent relative humidity within 30 minutes. The cooling performance test will be run only after the cab has been heat soaked at 100 degrees Fahrenheit for a minimum of 4 hours.

The evaporator unit will be installed in the rear portion of the cab ceiling over the engine tunnel. The evaporator will include one (1) high performance heating core, one (1) high performance cooling core with (1) plenum directed to the front and one (1) plenum directed to the rear of the cab. The rear plenum will be covered with a formed plastic cover.

The evaporator unit will have a 52,000 BTU at 690 SCFM rating that meets and exceeds the performance specifications.

Adjustable air outlets will be strategically located on the forward plenum cover per the following:

- Four (4) will be directed towards the seating position on the left side of the cab
- Four (4) will be directed towards the seating position on the right side of the cab

Adjustable air outlets will be strategically located on the rear plenum cover per the following:

- Minimum of five (5) will be directed towards crew cab area

A high efficiency particulate air (HEPA) filter will be included for the system. Access to the filter cover will be secured with four (4) screws.

The air conditioner refrigerant will be R-134A and will be installed by a certified technician.

Climate Control

An automotive style controller will be provided to control the heat and air conditioning system within the cab. The controller will have three (3) functional knobs for fan speed, temperature, and air flow distribution (front to rear) control.

The system will control the temperature of the cab and crew cab automatically by pushing the center of the fan speed control knob. Rotate the center temperature control knob to set the cab and crew cab temperature.

The AC system will be manually activated by pushing the center of the temperature control knob. Pushing the center of the air flow distribution knob will engage the AC for max defrost, setting the fan speeds to 100 percent and directing all air flow to the overhead forward position.

The system controller will be located within panel position #12.

Gravity Drain Tubes

Two (2) condensate drain tubes will be provided for the air conditioning evaporator. The drip pan will have two (2) drain tubes plumbed separately to allow for the condensate to exit the drip pan. No pumps will be provided.

SUN VISORS

Two (2) smoked Lexan™ sun visors will be provided. The sun visors will be located above the windshield with one (1) mounted on each side of the cab.

There will be no retention bracket provided to help secure each sun visor in the stowed position.

GRAB HANDLES

A black rubber covered grab handle will be mounted on the door post of the driver and officer's side cab door to assist in entering the cab. The grab handles will be securely mounted to the post area between the door and windshield.

ENGINE COMPARTMENT LIGHTS

There will be one (1) Whelen®, Model 3SC0CDCR, 12 volt DC, 3.00" white LED light(s) with Model 3FLANGEC, chrome flange kit(s) installed under the cab to be used as engine compartment illumination.

These light(s) will be activated automatically when the cab is raised or when the dip stick door is opened.

ACCESS TO ENGINE DIPSTICKS

For access to the engine oil and transmission fluid dipsticks, there will be a door on the engine tunnel, inside the crew cab. The door will be on the rear wall of the engine tunnel, on the vertical surface.

The engine oil dipstick will allow for checking only. The transmission dipstick will allow for both checking and filling.

The door will have a rubber seal for thermal and acoustic insulation. One (1) flush lift and turn latch will be provided on the access door.

CAB SAFETY SYSTEM

The cab will be provided with a safety system designed to protect occupants in the event of a side roll or frontal impact, and will include the following:

- A supplemental restraint system (SRS) sensor will be installed on a structural cab member behind the instrument panel. The SRS sensor will perform real time diagnostics of all critical subsystems and will record sensory inputs immediately before and during a side roll or frontal impact event.

- A fault-indicating light will be provided on the vehicle's instrument panel allowing the driver to monitor the operational status of the SRS system.
- A driver side front air bag will be mounted in the steering wheel and will be designed to protect the head and upper torso of the occupant, when used in combination with the 3-point seat belt.
- A passenger side knee bolster air bag will be mounted in the modesty panel below the dash panel and will be designed to protect the legs of the occupant, when used in combination with the 3-point seat belt.
- Air curtains will be provided in the outboard bolster of outboard seat backs to provide a cushion between occupant and the cab wall.
- Suspension seats will be provided with devices to retract them to the lowest travel position during a side roll or frontal impact event.
- Seat belts will be provided with pre-tensioners to remove slack from the seat belt during a side roll or frontal impact event (with the exception of command chairs located in the command cab).

Frontal Impact Protection

The SRS system will provide protection during a frontal or oblique impact event. The system will activate when the vehicle decelerates at a predetermined G force known to cause injury to the occupants. The cab and chassis will have been subjected, via third party test facility, to a crash impact during frontal and oblique impact testing. Testing included all major chassis and cab components such as mounting straps for fuel and air tanks, suspension mounts, front suspension components, rear suspensions components, frame rail cross members, engine and transmission and their mounts, pump house and mounts, frame extensions and body mounts. The testing provided configuration specific information used to optimize the timing for firing the safety restraint system. The sensor will activate the pyrotechnic devices when the correct crash algorithm, wave form, is detected.

The SRS system will deploy the following components in the event of a frontal or oblique impact event:

- Driver side front air bag
- Passenger side knee bolster air bag
- Air curtains mounted in the outboard bolster of outboard seat backs
- Suspension seats will be retracted to the lowest travel position
- Seat belts will be pre-tensioned to firmly hold the occupant in place

Side Roll Protection

The SRS system will provide protection during a fast or slow 90 degree roll to the side, in which the vehicle comes to rest on its side. The system will analyze the vehicle's angle and rate of roll to determine the optimal activation of the advanced occupant restraints.

The SRS system will deploy the following components in the event of a side roll:

- Air curtains mounted in the outboard bolster of outboard seat backs
- Suspension seats will be retracted to the lowest travel position
- Seat belts will be pre-tensioned to firmly hold the occupant in place

SEATING CAPACITY

The seating capacity of the vehicle (including tiller cab and belted seat positions in the rescue body) will be four (4).

DRIVER SEAT

A seat will be provided in the cab for the driver. The seat design will be a cam action type, with air suspension. For increased convenience, the seat will include a manual control to adjust the horizontal position (6.00" travel). The manual horizontal control will be a towel-bar style located below the forward part of the seat cushion. To provide flexibility for multiple driver configurations, the seat will have an adjustable reclining back. The seat back will be a high back style with side bolster pads for maximum support. For optimal comfort, the seat will be provided with 17.00" deep foam cushions designed with EVC (elastomeric vibration control).

The seat will include the following features incorporated into the side roll protection system:

- Side air curtain will be mounted integral to the outboard bolster of the seat back. The air curtain will be covered by a decorative panel when in the stowed position.
- A suspension seat safety system will be included. When activated in the event of a side roll, this system will pretension the seat belt and retract the seat to its lowest travel position.

The seat will be furnished with a 3-point, shoulder type seat belt.

OFFICER SEAT

A seat will be provided in the cab for the passenger. The seat will be a fixed type, with no suspension. For optimal comfort, the seat will be provided with 17.00" deep foam cushions designed with EVC (elastomeric vibration control).

The seat back will be an SCBA back style with 95 degree fixed recline angle. The SCBA cavity will be adjustable from front to rear in 1.00" increments, to accommodate different sized SCBA cylinders. Moving the SCBA cavity will be accomplished by unbolting, relocating, and re-bolting it in the desired location.

The seat will include the following features incorporated into the side roll protection system:

- Side air curtain will be mounted integral to the outboard bolster of the seat back. The air curtain will be covered by a decorative panel when in the stowed position.
- A seat safety system will be included. When activated, this system will pretension the seat belt.

The seat will be furnished with a 3-point, shoulder type seat belt.

RADIO COMPARTMENT

A radio compartment will be provided under the officer's seat.

The inside compartment dimensions will be 14.00" wide x 7.50" high x 15.00" deep, with the back of the compartment angled up to match the cab structure.

A drop-down door with one (1) lift and turn latch will be provided for access.

The compartment will be constructed of smooth aluminum and painted to match the cab interior.

REAR FACING LEFT SIDE CABINET

A rear facing cabinet will be provided in the crew cab at the left side outboard position.

The cabinet will be 23.00" wide x 40.25" high x 26.75" deep with one (1) Amdor rollup door with anodized finish, non-locking. The frame to frame opening will be 16.00" wide x 35.00" high. The minimum clear door opening of the cabinet will be 13.25" wide x 29.12" high.

The cabinet will also provide access from outside the cab with one (1) double pan door painted to match the cab exterior with a non-locking D-ring latch. A rubber bumper will be provided as a door stop. The door will be located on the side of the cab over the wheelwell. The clear door opening will be 17.00" wide x 34.00" high.

The cabinet will include one (1) infinitely adjustable shelf with a 0.75" up-turned lippainted to match the cab interior.

The cabinet will include no louvers.

The exterior access will be provided with a polished stainless steel scuffplate on the lower door frame.

The cabinet will be constructed of smooth aluminum and painted to match the cab interior.

Cabinet Light

There will be one (1) white LED strip light installed on the right side of the exterior cabinet door opening. The lights will be controlled by an automatic door switch.

REAR FACING PASSENGER SIDE OUTBOARD SEAT

There will be one (1) rear facing seat provided at the passenger side outboard position in the crew cab. For optimal comfort, the seat will be provided with 15.00" deep foam cushions designed with EVC (elastomeric vibration control).

The seat back will be an SCBA back style with 95 degree fixed recline angle. The SCBA cavity will be adjustable from front to rear in 1.00" increments, to accommodate different sized SCBA cylinders. Moving the SCBA cavity will be accomplished by unbolting, relocating, and re-bolting it in the desired location.

The seat will include the following features incorporated into the side roll protection system:

- Side air curtain will be mounted integral to the outboard bolster of the seat back. The air curtain will be covered by a decorative panel when in the stowed position.
- A seat safety system will be included. When activated, this system will pretension the seat belt.

The seat will be furnished with a 3-point, shoulder type seat belt.

FORWARD FACING DRIVER SIDE OUTBOARD SEAT

There will be one (1) forward facing, foldup seat provided at the driver side outboard position in the crew cab. For optimal comfort, the seat will be a minimum of 15.00" from the front of the cushion to the face of the seat back and designed with EVC (elastomeric vibration control).

The seat back will be an SCBA style with 90 degree back. The SCBA cavity will be adjustable from front to rear in 1.00" increments, to accommodate different sized SCBA cylinders. Moving the SCBA cavity will be accomplished by unbolting, relocating, and re-bolting it in the desired location.

The seat will include the following features incorporated into the side roll protection system:

- Side air curtain will be mounted integral to the outboard bolster of the seat back. The air curtain will be covered by a decorative panel when in the stowed position.
- A seat safety system will be included. When activated, this system will pretension the seat belt around the occupant to firmly hold them in place in the event of a side roll.

The seat will be furnished with a 3-point, shoulder type seat belt.

FORWARD FACING CENTER CABINET

A forward facing cabinet will be provided in the crew cab at the center position.

The cabinet will be 42.00" wide x 40.00" high x 24.75" deep with one (1) Amdor rollup door with anodized finish, non-locking. The frame to frame opening of the cabinet will be 39.50" wide x 34.75" high. The minimum clear door opening will be 36.75" wide x 28.87" high.

The cabinet will include two (2) infinitely adjustable shelves with a 0.75" flanged down lippainted to match the cab interior.

The cabinet will include no louvers.

The cabinet will be constructed of smooth aluminum, and painted to match the cab interior.

Cabinet Light

There will be one (1) white LED strip light installed on the right side of the interior cabinet door opening and one (1) white LED strip light installed on the left side of the interior cabinet door opening. The lighting will be controlled by an automatic door switch.

FORWARD FACING PASSENGER SIDE OUTBOARD SEAT

There will be one (1) forward facing seat provided at the passenger side outboard position in the crew cab. The seat back will be a high back style with 9 degree fixed recline angle. For optimal comfort, the seat will be provided with 15.00" deep foam cushions designed with EVC (elastomeric vibration control).

The seat will include the following feature incorporated into the side roll protection system:

- Side air curtain will be mounted integral to the outboard bolster of the seat back. The air curtain will be covered by a decorative panel when in the stowed position
- A seat safety system will be included. When activated, this system will pretension the seat belt.

The seat will be furnished with a 3-point, shoulder type seat belt.

SEAT UPHOLSTERY
All seat upholstery will be black Turnout Tuff material.

AIR BOTTLE HOLDERS
All SCBA type seats in the cab will have a "Hands-Free" auto clamp style bracket in its backrest. For efficiency and convenience, the bracket will include an automatic spring clamp that allows the occupant to store the SCBA bottle by simply pushing it into the seat back. For protection of all occupants in the cab, in the event of an accident, the inertial components within the clamp will constrain the SCBA bottle in the seat and will exceed the NFPA standard of 9G.

There will be a quantity of four (4) SCBA brackets.

SEAT BELTS
All cab and tiller cab (if applicable) seating positions will have red seat belts. To provide quick, easy use for occupants wearing bunker gear, the female buckle and seat belt webbing length will meet or exceed the current edition of applicable NFPA and CAN/ULC - S515 standards.

The 3-point shoulder type seat belts will include height adjustment. This adjustment will optimize the belts effectiveness and comfort for the seated firefighter. The 3-point shoulder type seat belts will be furnished with dual automatic retractors that will provide ease of operation in the normal seating position.

The 3-point shoulder type belts will also include the ReadyReach® D-loop assembly to the shoulder belt system. The ReadyReach feature adds an extender arm to the D-loop location placing the D-loop in a closer, easier to reach location.

Any flip up seats will include a 3-point shoulder type belts only.

To ensure safe operation, the seats will be equipped with seat belt sensors in the seat cushion and belt receptacle that will activate an alarm indicating a seat is occupied but not buckled.

HELMET STORAGE PROVIDED BY FIRE DEPARTMENT
NFPA 1900, 2024 edition, section 11.1.8.4.1 and CAN/ULC 515:2024 edition, section 5.2, requires a location for helmet storage be provided.

There is no helmet storage on the apparatus as manufactured. The fire department will provide a location for storage of helmets.

CAB DOME LIGHTS
There will be six (6) dual LED dome lights with black bezels provided. Two (2) lights will be mounted above the inside shoulder of the driver and officer and four (4) lights will be installed and located, two (2) on each side of the crew cab.

The color of the LED's will be red and white.

The white LED's will be controlled by the door switches.

The color LED's will be controlled by the lens switch.

All dome lights on the apparatus will be illuminated per the current edition of applicable NFPA standards per seating position.

ENHANCED SOFTWARE FOR CAB AND CREW CAB DOME LIGHTS

The cab and crew cab dome lights will remain on for 10 seconds for improved visibility after the doors are closed.

The dome lights will dim after 10 seconds or immediately if the vehicle's transmission is put into gear.

PORTABLE HAND LIGHTS PROVIDED BY FIRE DEPARTMENT

The hand lights are not on the apparatus as manufactured. The fire department will provide and mount these hand lights.

CAB INSTRUMENTATION

The cab instrument panel include gauges, an LCD display, telltale indicator lamps, control switches, alarms, and a diagnostic panel. The function of the instrument panel controls and switches will be identified by a label adjacent to each item. Actuation of the headlight switch will illuminate the labels in low light conditions. Telltale indicator lamps will not be illuminated unless necessary. The cab instruments and controls will be conveniently located within the forward cab section, forward of the driver. The gauge assembly and switch panels are designed to be removable for ease of service and low cost of ownership.

Gauges

The gauge panel will include the following ten (10) black faced gauges with black bezels to monitor vehicle performance:

- Voltmeter gauge (volts):
  - Low volts (11.8 VDC)
    - Amber caution indicator on the information center with intermittent alarm
    - Amber caution light on gauge assembly
  - High volts (15.5 VDC)
    - Amber caution indicator on the information center with intermittent alarm
    - Amber caution light on gauge assembly
  - Very low volts (11.3 VDC)
    - Red warning indicator on the information center with a steady alarm
    - Amber caution light on gauge assembly
  - Very high volts (16.0 VDC)
    - Red warning indicator on the information center with a steady alarm
    - Amber caution light on gauge assembly
- Engine Tachometer (RPM)
- Speedometer MPH (Major Scale), KM/H (Minor Scale)
- Fuel level gauge (Empty - Full in fractions):
  - Low fuel (1/8 full)
    - Amber caution indicator on the information center with intermittent alarm

        - Amber caution light on gauge assembly
    - Very low fuel (1/32 full)
        - Red caution indicator on the information center with steady alarm
        - Amber caution light on gauge assembly
- Engine Oil pressure Gauge (PSI):
    - Low oil pressure to activate engine warning lights and alarms
        - Red caution indicator on the information center with steady alarm
        - Amber caution light on gauge assembly
- Front Air Pressure Gauges (PSI):
    - Low air pressure to activate warning lights and alarm
        - Red warning indicator on the information center with a steady alarm
        - Amber caution light on gauge assembly
- Rear Air Pressure Gauges (PSI):
    - Low air pressure to activate warning lights and alarm
        - Red warning indicator on the information center with a steady alarm
        - Amber caution light on gauge assembly
- Transmission Oil Temperature Gauge (Fahrenheit):
    - High transmission oil temperature activates warning lights and alarm
        - Amber caution indicator on the information center with intermittent alarm
        - Amber caution light on gauge assembly
- Engine Coolant Temperature Gauge (Fahrenheit):
    - High engine temperature activates an engine warning light and alarms
        - Amber caution indicator on the information center with intermittent alarm
        - Amber caution light on gauge assembly
- Diesel Exhaust Fluid Level Gauge (Empty - Full in fractions):
    - Low fluid (1/8 full)
        - Amber indicator light in gauge dial

All gauges will perform prove out at initial power-up to ensure proper performance.

Indicator Lamps

To promote safety, the following telltale indicator lamps will be located on the instrument panel in clear view of the driver. The indicator lamps will be "dead-front" design that is only visible when active. The colored indicator lights will have descriptive text or symbols.

The following amber telltale lamps will be present:

- Low coolant
- Trac cntl (traction control) (where applicable)
- Check engine
- Check trans (check transmission
- Aux brake overheat (Auxiliary brake overheat
- Air rest (air restriction)
- Caution (triangle symbol)
- Water in fuel

- DPF (engine diesel particulate filter regeneration)
- Trailer ABS (where applicable)
- Wait to start (where applicable)
- HET (engine high exhaust temperature) (where applicable)
- ABS (antilock brake system)
- MIL (engine emissions system malfunction indicator lamp) (where applicable)
- Side roll fault (where applicable)
- Front air bag fault (where applicable)

The following red telltale lamps will be present:

- Warning (stop sign symbol)
- Seat belt
- Parking brake
- Stop engine
- Rack down

The following green telltale lamps will be provided:

- Left turn
- Right turn
- Battery on

The following blue telltale lamp will be provided:

- High beam

Alarms

Audible steady tone warning alarm: A steady audible tone alarm will be provided whenever a warning message is present.

Audible pulsing tone caution alarm: A pulsing audible tone alarm (chime/chirp) will be provided whenever a caution message is present without a warning message being present.

Alarm silence: Any active audible alarm will be able to be silenced by holding the ignition switch at the top position for three (3) to five (5) seconds. For improved safety, silenced audible alarms will intermittently chirp every 30 seconds until the alarm condition no longer exists. The intermittent chirp will act as a reminder to the operator that a caution or warning condition still exists. Any new warning or caution condition will enable the steady or pulsing tones respectively.

Indicator Lamp and Alarm Prove-Out

A system will be provided which automatically tests telltale indicator lights and alarms located on the cab instrument panel. Telltale indicators and alarms will perform prove-out at initial power-up to ensure proper performance.

Control Switches

For ease of use, the following controls will be provided immediately adjacent to the cab instrument panel within easy reach of the driver. All switches will have backlit labels for low light applications.

Headlight/Parking light switch: A three (3)-position maintained rocker switch will be provided. The first switch position will deactivate all parking and headlights. The second switch position will activate the parking lights. The third switch will activate the headlights.

Panel back lighting intensity control switch: A three (3)-position momentary rocker switch will be provided. Pressing the top half of the switch, "Panel Up" increases the panel back lighting intensity and pressing the bottom half of the switch, "Panel Down" decreases the panel back lighting intensity. Pressing the half or bottom half of the switch several times will allow back lighting intensity to be gradually varied from minimum to maximum intensity level for ease of use.

Ignition switch: A three (3)-position maintained/momentary rocker switch will be provided. The first switch position will turn off and deactivate vehicle ignition. The second switch position will activate vehicle ignition and will perform prove-out on the telltale indicators and alarms for 3 to 5 seconds after the switch is turned on. A green indicator lamp is activated with vehicle ignition. The third momentary position will temporarily silence all active cab alarms. An alarm "chirp" may continue as long as alarm condition exists. Switching ignition to off position will terminate the alarm silence feature and reset function of cab alarm system.

Engine start switch: A two (2)-position momentary rocker switch will be provided. The first switch position is the default switch position. The second switch position will activate the vehicle's engine. The switch actuator is designed to prevent accidental activation.

Hazard switch will be provided on the instrument panel or on the steering column.

Heater, defroster, and air conditioning control panel.

Turn signal arm: A self-canceling turn signal with high beam headlight controls will be provided.

Windshield wiper control will have high, low and intermittent modes.

Parking brake control: An air actuated push/pull park brake control valve will be provided.

Chassis horn control: Activation of the chassis horn control will be provided through the center of the steering wheel.

High idle engagement switch: A momentary rocker switch with integral indicator lamp will be provided. The switch will activate and deactivate the high idle function. The "OK To Engage High Idle" indicator lamp must be active for the high idle function to engage. A green indicator lamp integral to the high idle engagement switch will indicate when the high idle function is engaged.

"OK To Engage High Idle" indicator lamp: A green indicator light will be provided next to the high idle activation switch to indicate that the interlocks have been met to allow high idle engagement.

Emergency switching will be controlled by multiple individual warning light switches for various groups or areas of emergency warning lights. An Emergency Master switch provided on the instrument panel that enables or disables all individual warning light switches is included.

An additional "Emergency Master" button will be provided on the lower left hand corner of the gauge panel to allow convenient control of the "Emergency Master" system from inside the driver's door when standing on the ground.

Custom Switch Panels

The design of cab instrumentation will allow for emergency lighting and other switches to be placed within easy reach of the operator thus improving safety. There will be positions for up to four (4) switch panels in the lower instrument console and up to six (6) switch panels in the overhead visor console. All switches have backlit labels for low light conditions.

Diagnostic Panel

A diagnostic panel will be accessible while standing on the ground and located inside the driver's side door left of the steering column. The diagnostic panel will allow diagnostic tools such as computers to connect to various vehicle systems for improved troubleshooting providing a lower cost of ownership. Diagnostic switches will allow ABS systems to provide blink codes should a problem exist.

The diagnostic panel will include the following:

- Engine diagnostic port
- Transmission diagnostic port
- ABS diagnostic port
- Roll sensor diagnostic port
- Command Zone USB diagnostic port
- ABS diagnostic switch (blink codes flashed on ABS telltale indicator)
- Diesel particulate filter regeneration switch (where applicable)
- Diesel particulate filter regeneration inhibit switch (where applicable)

Cab LCD Display

A digital four (4)-row by 20-character dot matrix display will be integral to the gauge panel. The display will be capable of showing simple graphical images as well as text. The display will be split into three (3) sections. Each section will have a dedicated function. The upper left section will display the outside ambient temperature.

The upper right section will display the following, along with other configuration specific information:

- Odometer
- Trip mileage
- PTO hours
- Fuel consumption
- Engine hours

The bottom section will display INFO, CAUTION, and WARNING messages. Text messages will automatically activate to describe the cause of an audible caution or warning alarm. The LCD will be capable of displaying multiple text messages should more than one caution or warning condition exist.

AIR RESTRICTION INDICATOR

A high air restriction warning indicator light LCD message with amber warning indicator and audible alarm will be provided.

OVERHEAD SPEEDOMETER

A Class I digital display speedometer will be provided on the officer side overhead position.

"DO NOT MOVE APPARATUS" INDICATOR

A flashing red indicator light, located in the driving compartment, will be illuminated automatically per the current NFPA requirements. The light will be labeled "Do Not Move Apparatus If Light Is On."

The same circuit that activates the Do Not Move Apparatus indicator will activate a pulsing alarm when the parking brake is released.

DO NOT MOVE TRUCK MESSAGES

Messages will be displayed on the Command Zone™, color display located within sight of the driver whenever the Do Not Move Truck light is active. The messages will designate the item or items not in the stowed for vehicle travel position (parking brake disengaged).

The following messages will be displayed (where applicable):

- Do Not Move Truck
- DS Cab Door Open (Driver Side Cab Door Open)
- PS Cab Door Open (Passenger's Side Cab Door Open)
- DS Crew Cab Door Open (Driver Side Crew Cab Door Open)
- PS Crew Cab Door Open (Passenger's Side Crew Cab Door Open)
- DS Body Door Open (Driver Side Body Door Open)
- PS Body Door Open (Passenger's Side Body Door Open)
- Rear Body Door Open
- DS Ladder Rack Down (Driver Side Ladder Rack Down)
- PS Ladder Rack Down (Passenger Side Ladder Rack Down)
- Deck Gun Not Stowed
- Lt Tower Not Stowed (Light Tower Not Stowed)
- Fold Tank Not Stowed (Fold-A-Tank Not Stowed)
- Aerial Not Stowed (Aerial Device Not Stowed)
- Stabilizer Not Stowed
- Steps Not Stowed
- Handrail Not Stowed

Any other device that is opened, extended, or deployed that creates a hazard or is likely to cause major damage to the apparatus if the apparatus is moved will be displayed as a caution message after the parking brake is disengaged.

SWITCH PANELS

The emergency light switch panel will have a master switch for ease of use plus individual switches for selective control. Each switch panel will contain eight (8) membrane-type switches each rated for one million (1,000,000) cycles. Panels containing less than eight (8) switch assignments will include non-functioning black appliqués. The built-in switch panels will be located in the lower console or overhead console of the cab.

Additional switch panel(s) will be located in the overhead position(s) above the windshield or in designated locations on the lower instrument panel layout.

The switches will be membrane-type and also act as an integral indicator light. For quick, visual indication the entire surface of the switch will be illuminated white whenever back lighting is activated and illuminated green whenever the switch is active. An active illuminated switch will flash when interlock requirements are not met or device is actively being load managed. For ease of use, a two (2)-ply, scratch resistant laser engraved Gravoply label indicating the use of each switch will be placed in the center of the switch. The label will allow light to pass through the letters for ease of use in low light conditions.

WIPER CONTROL

Wiper control will consist of a two (2)-speed windshield wiper control with intermittent feature and windshield washer controls. The control will be located in the left hand pod of the steering wheel.

HOURMETER - AERIAL DEVICE

The following aerial hour meter messages will be included in the information centers:

- Aerial Hours, that keeps track of the time the aerial device is in motion.
- Aerial PTO Hours, that keeps track of the time the aerial master switch is on and the aerial PTO is engaged.

AERIAL MASTER

There will be a master switch for the aerial operating electrical system provided.

AERIAL PTO SWITCH

A PTO switch for the aerial with indicator light will be provided.

CAB USB

There will be four (4) USB terminations with a combination USB type A & C, wired to switched battery power, provided per the following:

- One (1) within reach of the driver
- One (1) within reach of the passenger
- Two (2) on the rear of the engine tunnel, one (1) each side.

This circuit may be load managed.

SPARE CIRCUIT
There will be one (1) pair of wires, including a positive and a negative, installed on the apparatus.

The wires will have the following features:

- The positive wire will be connected directly to the battery power
- The negative wire will be connected to ground
- Wires will be capable of carrying 15 amps
- Power and ground will terminate tbd
- Termination will be with heat shrinkable butt splicing
- Wires will be protected to meet the NFPA Automotive Fire Apparatus standard

Battery direct loads cannot be Load Managed

SPARE CIRCUIT
There will be one (1) pair of wires, including a positive and a negative, installed on the apparatus.

The wires will have the following features:

- The positive wire will be connected directly to the battery power
- The negative wire will be connected to ground
- Wires will be capable of carrying 15 amps
- Power and ground will terminate tbd
- Termination will be with 3/8" studs and plastic covers
- Wires will be protected to meet the NFPA Automotive Fire Apparatus standard

Battery direct loads cannot be Load Managed

SPARE CIRCUIT
There will be four (4) pair of wires, including a positive and a negative, installed on the apparatus.

The wires will have the following features:

- The positive wire will be connected directly to the battery switched power.
- The negative wire will be connected to ground.
- Wires will be capable of carrying 15 amps.
- Power and ground will terminate TBD.
- Termination will be with 3/8" studs and plastic covers.
- Wires will be protected to meet the NFPA Automotive Fire Apparatus standard.

The circuit(s) may be load managed when the parking brake is set.

SPARE CIRCUIT
There will be one (1) pair of wires, including a positive and a negative, installed on the apparatus.

The wires will have the following features:

- The positive wire will be connected directly to the battery power.

- The negative wire will be connected to ground.
- Wires will be capable of carrying 15 amps.
- Power and ground will terminate behind officer seat.
- Termination will be with a 10-place bus bar with screws and removable cover.
- Wires will be protected to meet the NFPA Automotive Fire Apparatus standard.

Battery direct loads cannot be Load Managed.

STEREO RADIO

There will be one heavy duty AM/FM / Weatherband / Bluetooth stereo radio. The radio will be installed within reach of the officer. There will be 5.25" speakers installed one (1) pair of 5.25" speakers in the cab and one (1) pair of 5.25" speakers in the crew cab. The antenna will be a roof-mounted rubber antenna located in an open space, on the cab roof.

The following Jensen features will be included:

- 180 watts max power (45W x 4); 100 watts RMS (25W x 4)
- Bluetooth® streaming audio (A2DP/AVRCP)
- Weatherband
- AM/FM tuner with 30 presets
- Audio settings (volume/bass/treble/balance/fade)
- Toggle switch between day and night display
- Daylight-readable, segmented LCD
- Two-wire power with non-volatile memory and clock support
- Low battery alert

INFORMATION CENTER

An information center employing a 7.00" diagonal touch screen color LCD display will be encased in an ABS plastic housing.

The information center will have the following specifications:

- Operate in temperatures from -40 to 158 degrees Fahrenheit
- LCD optically bonded to hardened AR glass lens
- Five weather resistant user interface switches
- Grey with black accents
- Sunlight Readable
- Linux operating system
- Minimum of 1000nits rated display
- Display can be changed to an available foreign language
- A LCD display integral to the cab gauge panel will be included as outlined in the cab instrumentation area.
- Programmed to read US Customary

General Screen Design

Where possible, background colors will be used to provide "At a Glance" vehicle information. If information provided on a screen is within acceptable limits, a green background will be used.

If a caution or warning situation arises the following will occur:

- An amber background/text color will indicate a caution condition
- A red background/text color will indicate a warning condition
- The information center will utilize an "Alert Center" to display text messages for audible alarm tones. The text messages will be written to identify the item(s) causing the audible alarm to sound. If more than one (1) text message occurs, the messages will cycle every second until the problem(s) have been resolved. The background color for the "Alert Center" will change to indicate the severity of the "warning" message. If a warning and a caution condition occur simultaneously, the red background color will be shown for all alert center messages.
- A label for each button will exist. The label will indicate the function for each active button for each screen. Buttons that are not utilized on specific screens will have a button label with no text or symbol.

Home/Transit Screen

This screen will display the following:

- Vehicle Mitigation (if equipped)
- Water Level (if the water level system includes compatible communications to the information center)
- Foam Level (if the foam level system includes compatible communications to the information center)
- Seat Belt Monitoring Screen
- Tire Pressure Monitoring (if equipped)
- Digital Speedometer
- Active Alarms

On Scene Screen

This screen will display the following and will be auto activated with pump engaged (if equipped):

- Battery Voltage
- Fuel
- Oil Pressure
- Coolant Temperature
- RPM
- Water Level (if equipped)
- Foam Level (if equipped)
- Foam Concentration (if equipped)
- Water Flow Rate (if equipped)
- Water Used (if equipped)
- Active Alarms

Virtual Buttons

There will be four (4) virtual switch panel screens that match the overhead and lower lighting and HVAC switch panels.

Page Screen

The page screen will display the following and allow the user to progress into other screens for further functionality:

- Diagnostics
  - Faults
    - Listed by order of occurrence
    - Allows to sort by system
  - Interlock
    - Throttle Interlocks
    - Pump Interlocks (if equipped)
    - Aerial Interlocks (if equipped)
    - PTO Interlocks (if equipped)
  - Load Manager
    - A list of items to be load managed will be provided. The list will provide a description of the load.
    - The lower the priority numbers the earlier the device will be shed should a low voltage condition occur.
    - The screen will indicate if a load has been shed (disabled) or not shed.
    - "At a glance" color features are utilized on this screen.
  - Systems
    - Command Zone
      - Module type and ID number
      - Module Version
      - Input or output number
      - Circuit number connected to that input or output
      - Status of the input or output
      - Power and Constant Current module diagnostic information
    - Foam (if equipped)
    - Pressure Controller (if equipped)
    - Generator Frequency (if equipped)
  - Live Data
    - General Truck Data
- Maintenance
  - Engine oil and filter
  - Transmission oil and filter
  - Pump oil (if equipped)
  - Foam (if equipped)
  - Aerial (if equipped)
- Setup

    - Clock Setup
    - Date & Time
        - 12 or 24 hour format
        - Set time and date
    - Backlight
        - Daytime
        - Night time
        - Sensitivity
    - Unit Selection
    - Home Screen
    - Virtual Button Setup
    - On Scene Screen Setup
    - Configure Video Mode
        - Set Video Contrast
        - Set Video Color
        - Set Video Tint
- Do Not Move
    - The screen will indicate the approximate location and type of item that is open or is not stowed for travel. The actual status of the following devices will be indicated
        - Driver Side Cab Door
        - Passenger's Side Cab Door
        - Driver Side Crew Cab Door
        - Passenger's Side Crew Cab Door
        - Driver Side Body Doors
        - Passenger's Side Body Doors
        - Rear Body Door(s)
        - Ladder Rack (if applicable)
        - Deck Gun (if applicable)
        - Light Tower (if applicable)
        - Hatch Door (if applicable)
        - Stabilizers (if applicable)
        - Steps (if applicable)
- Notifications
    - View Active Alarms
        - Shows a list of all active alarms including date and time of the occurrence is shown with each alarm
        - Silence Alarms - All alarms are silenced
- Timer Screen
- HVAC (if equipped)
- Tire Information (if equipped)
- Ascendant Set Up Confirmation (if equipped)

Button functions and button labels may change with each screen.

COLLISION MITIGATION

There will be a HAAS Alert®, Model HA7 Responder-to-Vehicle (R2V) collision avoidance system provided on the apparatus. The HA7 cellular transponder module will be installed behind the cab windshield, as high and near to the center as practical, to allow clear visibility to the sky. The module dimensions are 5.40" long x 2.70" wide x 1.30" high, and operating temperature range is -40 degrees Celsius to 85 degrees Celsius.

The transponder will be connected to the vehicle's emergency master circuit and battery direct power and ground.

While responding with emergency lights on, the HA7 transponder sends alert messages via cellular network to motorists in the vicinity of the responding truck that are equipped with the WAZE app.

While on scene with emergency lights on, the HA7 transponder sends road hazard alerts to motorists in the vicinity of the truck that are equipped with the WAZE app.

The HA7 Responder-to-Vehicle (R2V) collision avoidance system will include the transponder and a 5 year cellular plan subscription.

Activation of the HAAS Alert system requires a representative of the customer to accept the End User License Agreement (EULA) via an on-line portal.

VEHICLE DATA RECORDER

There will be a vehicle data recorder (VDR) capable of reading and storing vehicle information provided.

The information stored on the VDR can be downloaded through a USB port mounted in a convenient location determined by cab model. A USB cable can be used to connect the VDR to a laptop to retrieve required information. The program to download the information from the VDR will be available to download on-line.

The vehicle data recorder will be capable of recording the following data via hardwired and/or CAN inputs:

- Vehicle Speed - MPH
- Acceleration - MPH/sec
- Deceleration - MPH/sec
- Engine Speed - RPM
- Engine Throttle Position - % of Full Throttle
- ABS Event - On/Off
- Seat Occupied Status - Yes/No by Position
- Seat Belt Buckled Status - Yes/No by Position
- Master Optical Warning Device Switch - On/Off
- Internal clock syncs the time and date when a laptop is connected

Seat Belt Monitoring System

A seat belt monitoring system (SBMS) will be provided on the Command Zone™ color display and in the center overhead of the cab instrument panel. The SBMS will be capable of monitoring up to 10 seating positions indicating the status of each seat position per the following:

- Seat Occupied & Buckled = Green LED indicator illuminated
- Seat Occupied & Unbuckled = Red LED indicator with audible alarm
- No Occupant & Buckled = Red LED indicator with audible alarm
- No Occupant & Unbuckled = No indicator and no alarm
- FAULT = Blue LED indicator illuminated

The seat belt monitoring screen will become active on the Command Zone color display when:

- The home screen is active:
    - and there is any occupant seated but not buckled or any belt buckled with an occupant.
    - and there are no other Do Not Move Apparatus conditions present. As soon as all Do Not Move Apparatus conditions are cleared, the SBMS will be activated.

The SBMS will include an audible alarm that will warn that an unbuckled occupant condition exists and the parking brake is released, or the transmission is not in park.

INTERCOM SYSTEM

A five (5) position Sigtronics, Model US-45S, intercom system with single radio interface capability at the driver, officer, and pump operator's position will be provided. Two (2) crew cab, at both forward facing seats will have radio listen / intercom capability only.

System includes:

- One (1) US-45S single radio intercom
- Four (4) interior headset jacks, in blue boxes
- One (1) exterior headset jack, in blue box with splash guard
- Three (3) push to transmit buttons, in blue boxes
- All necessary cabling

RADIO / INTERCOM INTERFACE CABLE

The apparatus manufacturer will supply and install one (1) radio interface cable before delivery of the vehicle.

The radio equipment to be used by the customer will be:

- Motorola High Power , Model number First Two-Way Model - Motorola Starcom Astro 25 XTL 2500 P25 Modile Radio w/ Motorola O5 remote head. Part #PHCN4000A .

HEADSET, UNDER HELMET

There will be four (4) Sigtronics, Model SE-8, under helmet, standard headset(s) provided Over inside shoulder at driver, officer, pass rear facing and driver forward facing seat positions.

Each headset will feature:

- Coiled cord with single nickel coated plug
- Noise cancelling electret microphone with wind muff
- Flexible microphone boom rotates 180 degrees for left or right dress
- Gel filled earseals
- Volume control
- 24 dB noise reduction

COMPLETE MDT INSTALLATION

There will be a customer supplied Mobile Data Terminal (MDT), docking station, mounting bracket, power supply, antenna, GPS, modem, and all cabling sent to the apparatus manufacturers preferred installer to be installed In front of the officer, do not mount until construction review.. Power to the MDT will be directly to the battery power. Specific shipping requirements will be followed.

CUSTOMER SUPPLIED BATTERY CHARGER, HANDLIGHTS

There will be Four (4) Battery Chargers located Run wiring for two to the forward facing EMS cabinet and run wiring for two to the drivers side rear facing EMS cabinet. Customer will chose the exact location for the lights on the side of the EMS cabinets at construction review. Qty, .Specific shipping instructions will be followed.

CUSTOMER SUPPLIED BATTERY CHARGER, THERMAL IMAGE CAMERA

There will be One (1) Battery Charger located Will be mounted on the the engine tunnel mounting plate with final location determined at construction review. .Specific shipping instructions will be followed.

TRAFFIC LIGHT CONTROLLER INSTALLATION

There will be a customer provided GPS based Opticom system kit provided. This GPS preemption vehicle kit is set for high priority. The radio/GPS control unit will be mounted Route cable to center of instrument panel for the MDT mnount. Route the cable for second GPS antenna to the EMS cabinet. Precision to determine best location for the second antenna.. Antenna and control cables will be routed to the control unit. Please note length of cable compared to antenna and unit location.

The kit will include

- A GPS/Radio roof mounted antenna
- A GPS/Radio Control Unit
- Control and Antenna cables

RADIO ANTENNA MOUNT

There will be two (2) standard 1.125", 18 thread antenna-mounting base(s) installed one (1) on the left side and one (1) on the right side on the cab roof with high efficiency, low loss, coaxial cable(s) routed to the instrument panel area. A weatherproof cap will be installed on the mount.

VEHICLE CAMERA SYSTEM

There will be a color vehicle camera system provided with the following:

- One (1) Analog High Definition (AHD) camera located on the right side of the apparatus, pointing rearward, displayed automatically with the right side turn signal.
- One (1) AHD camera located on the left side of the apparatus, pointing rearward, displayed automatically with the left side turn signal.
- One (1) AHD, black camera located at the rear of the apparatus, pointing rearward, displayed automatically with the vehicle in reverse.

The camera images will be displayed on the left side vehicle information center display. Audio from the microphone on the rear camera will be emitted by an amplified speaker with volume control located behind the driver seat.

The following components will be included:

- One (1) 1080P Rear Camera
- Two (2) 1080P Side Cameras
- All necessary cables

Camera Switcher

There will be one (1), HMU318 HD Image Processor multiplexer, 4 channel camera video switcher with remote control provided to allow single, dual, triplex, quad, trefoil, Y split and PIP view display modes on the vehicle information center display provided. The switcher will have one (1) CVBS, Composite Video Blanking and Sync, standard Definition video output and one (1) AHD, Analog High Definition video output for High Definition cameras.

ELECTRICAL POWER CONTROL SYSTEM

The primary power distribution will be located forward of the officer's seating position and be easily accessible while standing on the ground for simplified maintenance and troubleshooting. Additional electrical distribution centers will be provided throughout the vehicle to house the vehicle's electrical power, circuit protection, and control components. The electrical distribution centers will be located strategically throughout the vehicle to minimize wire length. For ease of maintenance, all electrical distribution centers will be easily accessible. All distribution centers containing fuses, circuit breakers and/or relays will be easily accessible.

Distribution centers located throughout the vehicle will contain battery powered studs for supplying customer installed equipment thus providing a lower cost of ownership.

Circuit protection devices, which conform to SAE standards, will be utilized to protect electrical circuits. All circuit protection devices will be rated per NFPA requirements to prevent wire and component damage when subjected to extreme current overload. General protection circuit breakers will be Type-I automatic reset (continuously resetting). When required, automotive type fuses will be utilized to protect electronic equipment. Control relays and solenoid will have a direct current rating of 125 percent of the maximum current for which the circuit is protected per NFPA.

Solid-State Control System

A solid-state electronics based control system will be utilized to achieve advanced operation and control of the vehicle components. A fully computerized vehicle network will consist of electronic

modules, electronic control modules to include black housings, a power indicator and status indicator located near their point of use to reduce harness lengths and improve reliability. The control system will comply with SAE J1939-11 recommended practices.

The control system will operate as a master-slave system whereas the main control module instructs all other system components. The system will contain patented Mission Critical software that maintains critical vehicle operations in the unlikely event of a main controller error. The system will utilize a Real Time Operating System (RTOS) fully compliant with OSEK/VDX™ specifications providing a lower cost of ownership.

For increased reliability and simplified use the control system modules will include the following attributes:

- Green LED indicator light for module power
- Red LED indicator light for network communication stability status
- Control system self test at activation and continually throughout vehicle operation
- No moving parts due to transistor logic
- Software logic control for NFPA mandated safety interlocks and indicators
- Integrated electrical system load management without additional components
- Integrated electrical load sequencing system without additional components
- Customized control software to the vehicle's configuration
- Factory and field programmable to accommodate changes to the vehicle's operating parameters

To assure long life and operation in a broad range of environmental conditions, the solid-state control system modules will meet the following specifications:

- Module circuit board will meet SAE J771 specifications
- Operating temperature from -40 degrees Celsius to +70 degrees Celsius (-40 degrees Fahrenheit to +158 degrees Fahrenheit)
- Storage temperature from -40 degrees Celsius to +70 degrees Celsius (-40 degrees Fahrenheit to +158 degrees Fahrenheit)
- Vibration to 50g
- IP67 rated enclosure (Totally protected against dust and also protected against the effect of temporary immersion between 15 centimeters and one (1) meter)
- Operating voltage from eight (8) volts to 32 volts DC

The main controller will activate status indicators and audible alarms designed to provide warning of problems before they become critical.

Circuit Protection and Control Diagram

Copies of all job-specific, computer network input and output (I/O) connections will be provided with each chassis. The sheets will indicate the function of each module connection point, circuit protection information (where applicable), wire numbers, wire colors and load management information.

On-Board Electrical System Diagnostics

The on-board information center will include the following diagnostic information:

- Text description of active warning or caution alarms
- Simplified warning indicators
- Amber caution indication with intermittent alarm
- Red warning indication with steady tone alarm

Advanced diagnostic feature will be provided in this control system. From the Command Zone display or connected wireless device, these features allow the user to monitor the real-time status of every input or output on the vehicle. It also allows users logged in as an administrator to force on inputs or outputs to assist the troubleshooting process.

TCU Module with WiFi

An in cab module will provide WiFi wireless interface and data logging capability. The WiFi interface will comply with IEEE 802.11 b/g/n capabilities while communicating at 2.4 Gigahertz. The module will communicate through a black WiFi antenna allowing a line of site communication range of up to 300 feet with a roof mounted antenna.

The module will transmit a password protected web page to a WiFi enabled device (i.e. most smart phones, tablets or laptops) allowing two levels of user interaction. The firefighter level will allow vehicle monitoring of the vehicle and firefighting systems on the apparatus. The technician level will allow diagnostic access to inputs and outputs installed on the Command Zone™, control and information system.

The TCU capability will record faults from the engine, transmission, ABS and Command Zone™, control and information systems as they occur. No other data will be recorded at the time the fault occurs. The data TCU will provide up to 2 Gigabytes of data storage.

The TCU will provide a means to download the TCU information and update software in the device.

Indicator Light and Alarm Prove-Out System

A system will be provided which automatically tests basic indicator lights and alarms located on the cab instrument panel.

Voltage Monitor System

A voltage monitoring system will be provided to indicate the status of the battery system connected to the vehicle's electrical load. The system will provide visual and audible warning when the system voltage is below or above optimum levels.

The alarm will activate if the system falls below 11.8 volts DC for more than two (2) minutes.

Dedicated Radio Equipment Connection Points

There will be three (3) studs provided in the primary power distribution center located in front of the officer for two-way radio equipment. The studs will consist of the following:

- 12-volt 40-amp battery switched power
- 12-volt 60-amp ignition switched power
- 12-volt 60-amp direct battery power

There will also be a 12-volt 100-amp ground stud located in or adjacent to the power distribution center.

EMI/RFI Protection

To prevent erroneous signals from crosstalk contamination and interference, the electrical system will meet, at a minimum, SAE J551/2, thus reducing undesired electromagnetic and radio frequency emissions. An advanced electrical system will be used to ensure radiated and conducted electromagnetic interference (EMI) or radio frequency interference (RFI) emissions are suppressed at their source.

The apparatus will have the ability to operate in the electromagnetic environment typically found in fire ground operations to ensure clean operations. The electrical system will meet, without exceptions, electromagnetic susceptibility conforming to SAE J1113/25 Region 1, Class C EMR for 10KHz-1GHz to 100 Volts/Meter. The vehicle OEM, upon request, will provide EMC testing reports from testing conducted on an entire apparatus and will certify that the vehicle meets SAE J551/2 and SAE J1113/25 Region 1, Class C EMR for 10KHz-1GHz to 100 Volts/Meter requirements. Component and partial (incomplete) vehicle testing is not adequate as overall vehicle design can impact test results and thus is not acceptable by itself.

EMI/RFI susceptibility will be controlled by applying appropriate circuit designs and shielding. The electrical system will be designed for full compatibility with low-level control signals and high-powered two-way radio communication systems. Harness and cable routing will be given careful attention to minimize the potential for conducting and radiated EMI/RFI susceptibility.

ELECTRICAL SYSTEM PROGNOSTICS

There will be a software based vehicle tool provided to predict remaining life of the vehicles critical fluid and events.

The system will send automatic indications to the Command Zone™ information center and/or wireless enabled devices to proactively alert of upcoming service intervals.

Prognostics will include the following:

- Engine oil and filter
- Transmission oil and filter

ELECTRICAL

All 12-volt electrical equipment installed by the apparatus manufacturer will conform to modern automotive practices. All wiring will be high temperature crosslink type. Wiring will be run, in loom or conduit, where exposed and have grommets where wire passes through sheet metal. Automatic reset circuit breakers will be provided which conform to SAE Standards. Wiring will be color, function and number coded. Function and number codes will be continuously imprinted on all wiring harness conductors at 2.00" intervals. Exterior exposed wire connectors will be positive locking, and environmentally sealed to withstand elements such as temperature extremes, moisture and automotive fluids.

Electrical wiring and equipment will be installed utilizing the following guidelines:

1. All holes made in the roof will be caulked with silicon. Large fender washers, liberally caulked, will be used when fastening equipment to the underside of the cab roof.
2. Any electrical component that is installed in an exposed area will be mounted in a manner that will not allow moisture to accumulate in it. Exposed area will be defined as any location outside of the cab or body.
3. Electrical components designed to be removed for maintenance will not be fastened with nuts and bolts. Metal screws will be used in mounting these devices. Also a coil of wire will be provided behind the appliance to allow them to be pulled away from mounting area for inspection and service work.
4. Corrosion preventative compound will be applied to all terminal plugs located outside of the cab or body. All non-waterproof connections will require this compound in the plug to prevent corrosion and for easy separation (of the plug).
5. All lights that have their sockets in a weather exposed area will have corrosion preventative compound added to the socket terminal area.
6. All electrical terminals in exposed areas will have silicon applied completely over the metal portion of the terminal.

All lights and reflectors, required to comply with Federal Motor Vehicle Safety Standard #108, will be furnished. Rear identification lights will be recessed mounted for protection. Lights and wiring mounted in the rear bulkheads will be protected from damage by installing a false bulkhead inside the rear compartments.

An operational test will be conducted to ensure that any equipment that is permanently attached to the electrical system is properly connected and in working order.

The results of the tests will be recorded and provided to the purchaser at time of delivery.

BATTERY SYSTEM

There will be four (4) 12 volt Stryten/Exide®, Model 31S950X5W, batteries that include the following features will be provided:

- 950 CCA, cold cranking amps
- 190 amp reserve capacity
- High cycle
- Group 31
- Rating of 3800 CCA at 0 degrees Fahrenheit
- 760 minutes of reserve capacity
- Threaded stainless steel studs

Each battery case will be a black polypropylene material with a vertically ribbed container for increased vibration resistance. The cover will be manifold vented with a central venting location to allow a 45 degree tilt capacity.

The inside of each battery will consist of a "maintenance free" grid construction with poly wrapped separators and a flooded epoxy bottom anchoring for maximum vibration resistance.

BATTERY SYSTEM
There will be a single starting system with an ignition switch and starter button provided and located on the cab instrument panel.

MASTER BATTERY SWITCH
There will be a master battery switch provided within the cab within easy reach of the driver to activate the battery system.

An indicator light will be provided on the instrument panel to notify the driver of the status of the battery system.

BATTERY COMPARTMENTS
Batteries will be placed on non-corrosive mats and be stored in well ventilated compartments located under the cab and bolted directly to the chassis frame. The battery boxes will have reinforced sides. The battery compartments will be constructed of 0.188" steel plate and be designed to accommodate a maximum of three (3) group 31 batteries in each compartment. The battery hold-downs will be of a non-corrosive material. All bolts and nuts will be stainless steel.

Heavy-duty, 2/0 gauge, color coded battery cables will be provided. Battery terminal connections will be coated with anti-corrosion compound.

Battery solenoid terminal connections will be encapsulated with semi-permanent rubberized compound.

JUMPER STUDS
One (1) set of battery jumper studs with plastic color-coded covers will be included on the battery compartments.

BATTERY CHARGER
There will be a Kussmaul™, Chief Series Smart Charger 6012, product code 091-266-12-60, 60 amp battery charger with build-in touch screen display provided.

The battery charger will be wired to the AC shoreline inlet through a junction box located near the battery charger.

The battery charger will be located in the cab behind the driver seat.

REMOTE CONTROL PANEL - BATTERY CHARGER
There will be a Kussmaul™, Chief Series Smart Charger remote control panel, product code 091-266-RCP included.

The battery charger indicator will be located on the driver's seat riser.

AUTO EJECT FOR SHORELINE
There will be one (1) Kussmaul™, Model 091-55-20-120, 20 amp 120 volt AC shoreline inlet(s) provided to operate the dedicated 120 volt AC circuits on the apparatus.

The shoreline inlet(s) will include red weatherproof flip up cover(s).

There will be a release solenoid wired to the vehicle's starter to eject the AC connector when the engine is starting.

The shoreline(s) will be connected to the battery charger.

There will be a mating connector body supplied with the loose equipment.

There will be a label installed near the inlet(s) that state the following:

- Line Voltage
- Current Ratting (amps)
- Phase
- Frequency

The shoreline receptacle will be located on the driver side of cab, above wheel.

ALTERNATOR

A Leece-Neville, Model 4962PA, alternator will be provided. It will have a rated output current of 320 amps, as measured by SAE method J56. The alternator will feature an integral, self diagnostic regulator and rectifier. The alternator will be connected to the power and ground distribution system with heavy-duty cables sized to carry the full rated alternator output.

ELECTRONIC LOAD MANAGER

An electronic load management (ELM) system will be provided that monitors the vehicles 12-volt electrical system, automatically reducing the electrical load in the event of a low voltage condition, and automatically restoring the shed electrical loads when a low voltage condition expires. This ensures the integrity of the electrical system.

For improved reliability and ease of use, the load manager system will be an integral part of the vehicle's solid state control system requiring no additional components to perform load management tasks. Load management systems which require additional components will not be allowed.

The system will include the following features:

- System voltage monitoring.
- A shed load will remain inactive for a minimum of five minutes to prevent the load from cycling on and off.
- Sixteen available electronic load shedding levels.
- Priority levels can be set for individual outputs.
- High Idle to activate before any electric loads are shed and deactivate with the service brake.
    - If enabled:
        - "Load Man Hi-Idle On" will display on the information center.
        - Hi-Idle will not activate until 30 seconds after engine start up.
- Individual switch "on" indicator to flash when the particular load has been shed.
- The information center indicates system voltage.

The information center, where applicable, includes a "Load Manager" screen indicating the following:

- Load managed items list, with priority levels and item condition.
- Individual load managed item condition:
    - ON = not shed
    - SHED = shed

SEQUENCER

A sequencer will be provided that automatically activates and deactivates vehicle loads in a preset sequence thereby protecting the alternator from power surges. This sequencer operation will allow a gradual increase or decrease in alternator output, rather than loading or dumping the entire 12 volt load to prolong the life of the alternator.

For improved reliability and ease of use, the load sequencing system will be an integral part of the vehicle's solid state control system requiring no additional components to perform load sequencing tasks. Load sequencing systems which require additional components will not be allowed.

Emergency light sequencing will operate in conjunction with the emergency master light switch. When the emergency master switch is activated, the emergency lights will be activated one by one at half-second intervals. Sequenced emergency light switch indicators will flash while waiting for activation.

When the emergency master switch is deactivated, the sequencer will deactivate the warning light loads in the reverse order.

Sequencing of the following items will also occur, in conjunction with the ignition switch, at half-second intervals:

- Cab Heater and Air Conditioning
- Crew Cab Heater (if applicable)
- Crew Cab Air Conditioning (if applicable)
- Exhaust Fans (if applicable)
- Third Evaporator (if applicable)

HEADLIGHTS

There will be four (4) JW Speaker®, Model 8800, 4" x 6" rectangular LED lights mounted in the front quad style, chrome housing on each side of the cab grille:

- the outside light on each side will contain a part number 055***1 low beam module
- the inside light on each side will contain a part number 055***1 high beam module
- the headlights to include chrome bezels

The low beam lights will be activated when the headlight switch is on.

The high beam and low beam lights will be activated when the headlight switch and the high beam switch is activated.

DIRECTIONAL LIGHTS
There will be two (2) Whelen® 600 series, amber LED combination directional/marker lights provided. The lights will be located next to the warning lights in a triple light wrap around bezel, with chrome trim on the outside cab corners, one each side.

The lens color(s) to be clear.

INTERMEDIATE LIGHT
There will be two (2) Weldon, Model 9186-8580-29, amber LED turn signal marker lights furnished, one (1) each side, in the rear fender panel. The light will double as a turn signal and marker light.

CAB CLEARANCE/MARKER/ID LIGHTS
There will be seven (7) amber LED lights provided per the following:

- Three (3) amber LED identification lights will be installed in the center of the cab above the windshield.
- Two (2) amber LED clearance lights will be installed, one (1) on each outboard side of the cab above the windshield as close to the outside of the apparatus as practical.
- Two (2) amber LED clearance lights will be installed, one (1) on each side of the cab as high and far forward as practical.

The lights will be installed without guards.

FRONT CAB SIDE DIRECTIONAL LIGHTS
There will be two (2) Truck-Lite®, Model 19036Y, amber LED lights installed to the outside of the chrome wrap around bezel, one (1) on each side of the cab.

The lights will activate as additional directional lights with the corresponding directional circuit.

REAR CLEARANCE/MARKER/ID LIGHTING
There will be three (3) LED identification lights located at the rear installed per the following:

- As close as practical to the vertical centerline
- Centers spaced not less than 6.00" or more than 12.00" apart
- Red in color
- All at the same height

There will be two (2) LED lights installed at the rear of the apparatus used as clearance lights located at the rear of the apparatus per the following:

- To indicate the overall width of the vehicle
- One (1) each side of the vertical centerline
- As near the top as practical
- Red in color
- To be visible from the rear
- All at the same height

There will be two (2) LED lights installed on the side of the apparatus used as marker lights as close to the rear as practical per the following:

- To indicate the overall length of the vehicle
- One (1) each side of the vertical centerline
- As near the top as practical
- Red in color
- To be visible from the side
- All at the same height

The lights will be mounted with no guard.

There will be two (2) red reflectors located on the rear of the truck facing to the rear. One (1) each side, as far to the outside as practical, at a minimum of 15.00", but no more than 60.00", above the ground.

There will be two (2) red reflectors located on the side of the truck facing to the side. One (1) each side, as far to the rear as practical, at a minimum of 15.00", but no more than 60.00", above the ground.

Per FMVSS 108 and CMVSS 108 requirements.

MARKER LIGHTS

There will be one (1) pair of amber and red LED marker lights with rubber arm, located at the rear most lower corner of the body. The amber lens will face the front and the red lens will face the rear of the truck.

These lights will be activated with the running lights of the vehicle.

REAR FMVSS LIGHTING

The rear stop/tail and directional lighting included in the rear tail light housing will include the following:

- Two (2) Whelen®, Model M62BTT, 4.30" high x 6.70" wide x 1.40" deep brake/tail lights with red LEDs
- Two (2) Whelen, Model M62T, 4.30" high x 6.70" wide x 1.40" deep directional lights with amber LEDs. The directional lights will be set to Steady On (Arrow) flash pattern.
- The lens color(s) to be clear.

There will be two (2) Whelen Model M62BU, LED backup lights provided in the tail light housing.

LICENSE PLATE BRACKET

One (1) license plate bracket constructed of stainless steel will be provided at the rear of the apparatus.

One (1) white LED light with chrome housing will be provided to illuminate the license plate. A stainless steel light shield will be provided over the light that will direct illumination downward, preventing white light to the rear.

BACK-UP ALARM
A PRECO, Model 1040, solid-state electronic audible back-up alarm that actuates when the truck is shifted into reverse will be provided. The device will sound at 60 pulses per minute and automatically adjust its volume to maintain a minimum ten (10) dBA above surrounding environmental noise levels.

CAB PERIMETER SCENE LIGHTS
There will be four (4) Amdor, Model AY-LB-12HW0**, white LED strip lights provided, one (1) for each cab door that will meet NFPA ground lighting requirements.

These lights will be activated automatically when the battery switch is on and the exit doors are opened or by the same means as the body perimeter scene lights.

PUMP HOUSE PERIMETER LIGHTS
There will be two (2) Amdor, Model AY-LB-12HW020, 350 lumens each, 20.00" LED weatherproof strip lights with brackets provided under the pump panel running boards, one (1) each side.

If the combination of options in the vehicle does not permit clearance for a 20.00" light, a 12.00" version of the Amdor light will be installed.

The lights will be controlled by the same means as the body perimeter lights.

BODY PERIMETER SCENE LIGHTS
There will be two (2) Amdor, Model AY-LB-12HW020, 350 lumens, 20.00" long, with white LED's, 12 volt lights provided.

The lights will be mounted in the following locations:

- One (1) light under the driver's side turntable access steps
- One (1) light under the passenger's side turntable access steps

The perimeter scene lights will be activated when the battery switch is on and the parking brake is applied.

ENHANCED SOFTWARE FOR PERIMETER LIGHTS
All perimeter lights will be deactivated when the parking brake is released unless alternate control is selected.

The cab and crew cab perimeter lights will remain on for ten (10) seconds for improved visibility after the doors closed.

12 VOLT LIGHTING
There will be a HiViz Model FT-B-72-*-*, 2.56" high x 72.69" long x 3.31" deep 21,067 effective lumens 12 volt DC light with white LEDs configured with a combination of flood and spot optics mounted, as far forward on the cab roof as practical.

The painted parts of the light housing and brackets to be black.

The light will be activated by a switch at the driver's side switch panel and by a switch at the passenger's side switch panel.

The light may be load managed when the parking brake is applied.

12 VOLT LIGHTING

There will one (1) HiViz Model FT-B-46-*-*, 13,306 lumens 2.56" high x 46.00" long x 2.45" deep 12 volt DC light(s) with white LEDs and witha a combination of spot, and flood optics installed on the apparatus located, LS of body L3L4.

The painted parts of the light housing and brackets to be black.

The light(s) will be controlled by a switch at the driver's side switch panel and by a switch at the passenger's side switch panel.

The light(s) may be load managed when the parking brake is applied.

12 VOLT LIGHTING

There will one (1) HiViz Model FT-B-46-*-*, 13,306 lumens 2.56" high x 46.00" long x 2.45" deep 12 volt DC light(s) with white LEDs and with a combination of spot, and flood optics installed on the apparatus located, RS of body over R3,R4.

The painted parts of the light housing and brackets to be black.

The light(s) will be controlled by a switch at the driver's side switch panel and by a switch at the passenger's side switch panel.

The light(s) may be load managed when the parking brake is applied.

HOSE BED LIGHTS

There will be two (2) sets of 12 volt DC light strips with white LEDs provided to illuminate the hose bed and under the turntable per the following:

- One (1) set of lights installed on the left side of the hose bed.
- One (1) set of lights installed on the right side of the hose bed.

There will be a 16 gauge bright stainless steel overhead cover with 45 degreed ends provided over the lights to protect the lights from the hose and the hose from damaging snags.

The lights will be activated by a cup switch at the rear of the apparatus no more than 72.00" from the ground.

REAR SCENE LIGHTS

There will be two (2) HiViz Model FT-GSM, 9.00" high x 10.00" long x 2.00" deep, 6,500 effective lumens, scene lights with white LEDs and black trim installed at the rear of the apparatus, Rear of body one each side .

The lights will be controlled by a switch at the driver's side switch panel and by a cup switch located at the rear of the truck.

WALKING SURFACE LIGHT

There will be Model FRP, 4.00" round black 12 volt DC LED floodlight(s) with bolt mount provided to illuminate the entire designated walking surface on top of the body.

The light(s) will be activated when the body step lights are on.

WATER TANK

It will have a capacity of 500 gallons and will be constructed of polypropylene plastic in an L-shape with a notch for hose storage. The joints and seams will be nitrogen welded inside and out. The tank will be baffled in accordance with the current edition of applicable NFPA standards. The baffles will have vent openings at both the top and bottom of each baffle to permit movement of air and water between compartments. The longitudinal partitions will be constructed of .38" polypropylene plastic and extend from the bottom of the tank through the top cover to allow positive welding. The transverse partitions extend from 4" off the bottom to the underside of the top cover. All partitions interlock and will be welded to the tank bottom and sides. The tank top will be constructed of .50" polypropylene. It will be recessed .38" and will be welded to the tank sides and the longitudinal partitions. It will be supported to keep it rigid during fast filling conditions. Construction will include 2.00" polypropylene dowels spaced no more than 30.00" apart and welded to the transverse partitions. Two of the dowels will be drilled and tapped (.50" diameter, 13.00" deep) to accommodate lifting eyes. A sump will be provided at the bottom of the water tank. The sump will include a drain plug and the tank outlet. Tank will be installed in a fabricated "cradle" assembly constructed of structural steel. Sufficient crossmembers are provided to properly support bottom of tank. Crossmembers are constructed of steel bar channel or rectangular tubing. Tank "floats" in cradle to avoid torsional stress caused by chassis frame flexing. Rubber cushions, .50" thick x 3.00" wide, will be placed on all horizontal surfaces that the tank rests on. Stops are provided to prevent an empty tank from bouncing excessively while moving vehicle. Tank mounting system is approved by the manufacturer.

Fill tower will be constructed of 0.50" polypropylene and will be a minimum of 8.00" wide x 14.00" long.

Fill tower will be furnished with a 0.25" thick polypropylene screen and a hinged cover.

An overflow pipe, constructed of 4.00" schedule 40 polypropylene, will be installed approximately halfway down the fill tower and extend through the water tank and exit to the rear of the rear axle.

HOSE BED

The hose bed will be fabricated of 0.125" thick 5052-H32 aluminum with a tensile strength of 31,000.

The sides of the hose bed will not form any portion of the fender compartments.

The hose bed will be located ahead of the ladder turntable between the tank and side body compartments.

Hose removal will be at the rear of the body via "chutes" under the turntable on the right side. Each chute will be enclosed with a full height smooth aluminum door. There will be a lift and turn latch and a pneumatic cylinder at the top of the door (if applicable).

The hose bed flooring will consist of removable aluminum grating with a top surface that is corrugated to aid in hose aeration.

The grating slats will be 0.50" wide x 4.50" long with spacing between the slats for hose ventilation.

The hose bed/cargo area interior will be painted to match the lower body color.

Hose capacity will be a minimum of 1000' of 5.00" large diameter hose.

AERIAL HOSE BED HOSE RESTRAINT

The hose in the hose bed will be restrained by one (1) black nylon Velcro® strap at the top of the hose bed. The strap will be installed to the top of the hose bed side sheets.

RUNNING BOARDS

Design of the vehicle will be such that running boards will not be required to reach pre connects or other items on the side of the vehicle.

TURNTABLE STEPS

Steps to access the turntable from the left and right side will be provided just behind the compartmentation. No bottom flip step to be provided. The bottom step will have a step height not exceeding 24.00" from the ground to the top surface of the step at any time. All steps will have a height no greater than 14.00" from top surface to top surface.

The steps will be a swing-down design, with the stepping area made of Morton Tread-Grip® channel.

The stepwell will be lined with bright aluminum treadplate to act as scuffplates.

The steps will be connected to the "Do Not Move Truck" indicator.

A knurled aluminum handrail will be provided on each side of the access steps.

A hand hold will be provided in the left and right side of each set of access steps.

STEP LIGHTS

There will be three (3) white LED step lights with chrome housing provided for each set of aerial turntable access steps.

In order to ensure exceptional illumination, each light will provide a minimum of 25 foot-candles (fc) covering an entire 15" x 15" square placed ten (10) inches below the light and a minimum of 1.5 fc covering an entire 30" x 30" square at the same ten (10) inch distance below the light.

The step lights will be activated when the ignition switch is on and the parking brake is applied.

SMOOTH ALUMINUM REAR WALL

The rear wall will be smooth aluminum.

TOW EYES

Two (2) rear painted tow eyes will be located at the rear of the apparatus and will be mounted directly to the torque box. The inner and outer edges of the tow eyes will be radiused. Each tow eye will be rated for 9000lb and painted to match the lower job color.

COMPARTMENTATION

Compartmentation will be fabricated of 0.125" 5052 aluminum. The side compartments are an integral assembly with the rear fenders. Fully enclosed rear wheel housings will be provided to prevent rust pockets and for ease of maintenance. Due to the severe loading requirements of this aerial, a method of compartment body support suitable for the intended load will be provided.

The backbone of the support system will be the chassis frame rail, which is the strongest component of the chassis and is designed for sustaining maximum loads.

A support system will be used which will incorporate a floating substructure by using Neoprene Elastomer isolators to allow the body to remain rigid while the chassis goes through its natural flex. The isolators will have a broad range of proven viability in vehicular applications, be of a fail safe design, and allow for all necessary movement in three (3) transitional and rotational modes. This will result in a 500 lb equipment rating for each lower compartment of the body.

The compartmentation in front of the rear axle will include a 3.00" steel support assemblies which are bolted to the chassis frame rails. A steel framework will be mounted to the body above these support assemblies connected to the support assemblies with isolators. There will be one (1) support assembly mounted to each chassis frame rail.

The compartmentation behind the rear axle will include 3.00" steel support assemblies which are bolted to the chassis frame rails and extend underneath to the outside edge of the body. The support assembly will be coated to isolate the dissimilar metals before it is bolted to the body. There will be one (1) support assembly mounted to each chassis frame rail.

Compartment flooring will be of the sweep out design with the floor higher than the compartment door lip. The compartment door openings are framed by flanging the edges in 1.75" and bending out again 0.75" to form an angle. Drip protection is provided over all door openings by means of bright aluminum extrusion or formed bright aluminum treadplate. Side compartment tops will be covered with bright aluminum treadplate with a 1.00" rolled over edge on the front, rear and outward side. The covers are fabricated in one (1) piece and have the corners welded. A bright aluminum treadplate cover will be provided on the front wall of each side compartment. All screws and bolts which protrude into a compartment will have acorn nuts at the ends to prevent injury.

The body design has been fully tested. Proven engineering and test techniques such as finite element analysis, model analysis, stress coating and strain gauging have been performed with special attention given to fatigue life and structural integrity of the compartment body and substructure.

AGGRESSIVE WALKING SURFACE

All exterior surfaces designated as stepping, standing, and walking areas will comply with the required average slip resistance of the current NFPA standards.

LOUVERS

All body compartments will have a minimum of one (1) set of louvers stamped into a wall to provide the proper airflow inside the compartment and to prevent water from dripping into the compartment. These louvers will be formed into the metal and not added to the compartment as a separate plate.

LEFT SIDE COMPARTMENTATION

A full height roll-up door compartment ahead of the rear wheels will be 41.75" wide x 64.00" high x 24.25" deep inside with an clear door opening of 38.75" wide x 56.38" high.

One (1) roll-up door compartment above the fender compartments and over the rear axles will be provided. The compartment will be 72.13" wide x 33.25" high x 24.25" deep inside with a clear door opening of 63.75" wide x 25.50" high.

A compartment with a single pan polished stainless steel door will be located above the front stabilizer. The door will be hinged on the rear body side with a flush lift and turn latch. The compartment will be approximately 18.00" wide x 23.00" high x 24.25" deep with a door opening of approximately 12.00" wide x 15.75" high.

A full height roll-up door compartment behind the rear wheels will be 43.75" wide x 49.25" high x 21.25" deep. The clear door opening will be 40.75" wide x 41.62" high.

One (1) lift-up door compartment below the turntable will be provided. The compartment will be 39.38" wide x 18.38" high x 21.25" deep inside with a door opening of 35.00" wide x 14.88" high.

RIGHT SIDE COMPARTMENTATION

A full height roll-up door compartment ahead of the rear wheels will be 41.75" wide x 64.00" high x 24.25" deep inside the lower 29.75" and 12.00" deep inside the upper portion with a clear door opening of 38.75" wide x 55.38" high.

One (1) roll-up door compartment will be provided above the fender compartments and over the rear axles. The compartment will be 72.13" wide x 33.25" high x 12.00" deep inside with a clear door opening of 63.75" wide x 24.50" high.

A compartment with a single pan polished stainless steel door will be located above the front stabilizer. The door will be hinged on the rear body side with a flush lift and turn latch. The compartment will be 18.00" wide x 23.00" high x 12.00" deep with a door opening of 12.00" wide x 15.75" high.

A full height roll-up door compartment behind the rear wheels will be approximately 43.75" wide x 49.25" high x 21.25" deep inside the lower 29.75" and 12.00" deep in the upper portion. The clear door opening will be approximately 40.75" wide x 41.62" high.

One (1) compartment below the turntable with a lift-up door will be approximately 39.38" wide x 18.38" high x 12.00" deep inside with a door opening of approximately 35.00" wide x 14.88" high.

SIDE COMPARTMENT ROLL-UP DOORS

There will be 15 compartment doors installed on the side compartments, double faced, aluminum construction, painted one (1) color to match the lower portion of the body and manufactured by AMDOR™ brand roll-up doors.

Door(s) will be constructed using 1.00" extruded double wall aluminum slats which will feature a flat smooth interior surface to provide maximum protection against equipment hang-up. The slats will be connected with a structural driven ball and socket hinge designed to provide maximum curtain diaphragm strength. Mounting and adjusting the curtain will be done with a clip system that connects the curtain to the balancer drum allowing for easy tension adjustment without tools. The slats will be mounted in reusable slat shoes with positive snap-lock securement.

Each slat will incorporate weather tight recessed dual durometer seals. One (1) fin will be designed to locate the seal within the extrusion. The second will serve as a wiping seal which will also allow for compression to prevent water ingression.

The doors will be mounted in a one (1)-piece aluminum side frame with recessed side seals to minimize seal damage during equipment deployment. All seals including side frames, top gutters and bottom panel are to be manufactured utilizing non-marring materials.

Bottom panel flange of roll-up door will be equipped with two (2) cut-outs to allow for easier access with gloved hands.

A stainless steel lift bar to be provided for opening the door and located at the bottom of each door with latches on the outer extrusion of the door frame. A ledge to be supplied over lift bar for additional area to aid in closing the door. The lift bar will be located at the bottom of door with striker latches installed at the base of the side frames. Side frame mounted door strikers will include support beneath the stainless steel lift bar to prevent door curtain bounce, improve bottom seal life expectancy and to avoid false door ajar signals.

All injection molded roll-up door wear components will be constructed of Type 6 nylon.

Each roll-up door will have a 3.00 inch diameter balancer/tensioner drum to assist in lifting the door.

The header for the roll-up door assembly will not exceed 4.00".

A heavy-duty magnetic switch will be used for control of open compartment door warning lights.

BODY MODIFICATION FROM STANDARD

The compartment above the stabilizers (if applicable) will be decreased due to deeper stabilizer depth. The height of the compartment will decrease 4.00" and the compartment door will move up 4.00" higher. The stabilizer frame opening as well as the stabilizer pan will be increased in height by 6.00".

COMPARTMENT BLISTER

A blister in the compartment ahead of the rear wheels will be provided to clear the front bracket of the Firemaax suspension. This blister will take away some of the interior area of the compartment.

REAR BUMPER

A 5.00" rear bumper will be furnished. Bumper will be constructed of steel framework and will be covered with polished aluminum treadplate. The bumper will be 4.00" deep x 5.00" high and will be spaced away from the body approximately 1.00". It will extend the full width of the body.

DOOR GUARD

There will be seven (7) compartment doors that will include a guard/drip pan designed to protect the rollup door from damage when in the retracted position and contain any water spray. The guard will be fabricated from stainless steel and installed on the left side rearward compartment, left side forward over the wheel compartment, left side forward compartment, right side rearward compartment, right side forward over the wheel compartment, right side forward compartment and rear compartment.

COMPARTMENT LIGHTING

There will be eleven (11) compartment(s) with two (2) white 12 volt DC LED compartment light strips. The dual light strips will be centered vertically along each side of the door framing. There will be two (2) light strips per compartment. The dual light strips will be in all body compartment(s).

Any remaining compartments without light strips will have a 6.00" diameter Truck-Lite, Model: 79384 light. Each light will have a number 1076 one filament, two wire bulb.

Opening the compartment door will automatically turn the compartment lighting on.

COMPARTMENT LIGHTING, ADDITIONAL

There will be two (2) LED strip light(s) provided in the compartment(s) located ladder storage. Each light will be 27.00" in length.

The light(s) will be activated when the battery switch is on and the parking brake is applied.

COMPARTMENT LIGHTING, ADDITIONAL

There will be two (2) Pierce LED strip light(s) provided in the compartment(s) located speed lay compartment. Each light will be 36.00" in length.

Opening the compartment door(s) will automatically turn the compartment lighting on.

MOUNTING TRACKS

There will be six (6) sets of tracks for mounting shelf(s) in LS1, LS3, LS4, RS1, RS3 and RS4. These tracks will be installed vertically to support the adjustable shelf(s) and will be full height of the compartment. The tracks will be painted to match the compartment interior.

SHELVES

There will be one (1) shelf with a capacity of 500 lb provided. The shelf construction will consist of .188" aluminum with 2.00" sides. Each shelf will be fixed in its location in the compartment

The shelves will be held in place by .12" thick stamped plated brackets and bolts or angles bolted to the compartment as the engineer or shop floor see fit.

The location will be Compt P5 to the right of the partition above the air bottle slot..

ADJUSTABLE SHELVES

There will be seven (7) shelves with a capacity of 500 lb provided. The shelf will be full width but half depth of the compartment it is located in.

The shelf construction will consist of .188" aluminum with 2.00" sides and will be finished to match the interior of the compartment.

Each shelf will be infinitely adjustable by means of a threaded fastener, which slides in a track.

The shelves will be held in place by .12" thick stamped plated brackets and bolts.

The location(s) will be determined at a later date.

SLIDE-OUT/TILT-DOWN TRAY

There will be three (3) slide-out trays provided.

The bottom of each tray will be constructed of 0.188" thick aluminum with a dual action finish while special aluminum extrusions will be utilized for the tray sides, ends, and tracks. The corners will be welded to form a rigid unit.

A spring loaded lock will be provided on each side at the front of the tray. Releasing the locks will allow the tray to slide out approximately two-thirds (2/3) of its length from the stowed position and tip 30 degrees down from horizontal. The tray will be equipped with ball bearing rollers for smooth operation.

Rubber padded stops will be provided for the tray in the extended position.

The capacity rating of the tray will be a minimum of 215 lb in the extended position.

The vertical position of the tray within the compartment will be adjustable.

The location(s) will be determined at a later date.

SLIDE-OUT FLOOR MOUNTED TRAY

There will be three (3) floor mounted slide-out tray(s) provided.

Each tray will have 2.00" high sides and a minimum capacity rating of 500 lb in the extended position.

Each tray will be constructed of aluminum painted spatter gray.

There will be two undermount-roller bearing type slides rated at 250 lb each provided. The pair of slides will have a safety factor rating of 2.

To ensure years of dependable service, the slides will be coated with a finish that is tested to withstand a minimum of 1,000 hours of salt spray per ASTM B117.

To ensure years of easy operation, the slides will require no more than a 50 lb force for push-in or pull-out movement when fully loaded after having been subjected to a 40 hour vibration (shaker) test under full load. The vibration drive file will have been generated from accelerometer data collected from a heavy truck chassis driven over rough gravel roads in an unloaded condition. Proof of compliance will be provided upon request.

Automatic locks will be provided for both the "in" and "out" positions. The trip mechanism for the locks will be located at the front of the tray for ease of use with a gloved hand.

The location(s) will be RS2, LS4 and RS7.

SWING OUT TOOLBOARD

A swing out aluminum toolboard will be provided.

It will be a minimum of 0.188" thick with .281" diameter holes in a pegboard pattern with 1.00" centers between holes.

A 1.00" x 1.00" aluminum tube frame will be welded to the edge of the pegboard.

The board will be mounted on a pivoting device at the back of the compartment on the top and bottom to allow easy movement in and out of the compartment. The maximum tool load will be 400 lb.

The board will have positive lock in the stowed and extended position.

The board will have a D-ring handle to secure it in the stowed position.

The board will be mounted on adjustable tracks from front to back within the compartment.

Two (2) toolboard(s) will be provided. The toolboard(s) will be with a dual action finish and installed LS3 full height and width and RS4 full height and width.

SLIDE-OUT TOOLBOARD

There will be two (2) slide-out toolboard(s) provided.

The toolboard will be a minimum of 0.188" thick with .281" diameter holes in a pegboard pattern with 1.00" centers between holes.

A 1.00" x 1.00" aluminum tube frame will be welded to the edge of the pegboard. A handhold cutout will be provided on the outboard edge of the toolboard.

The board will be mounted on an under-mount roller bearing type slide rated at 250 lb with a factor of safety of 2.

To ensure years of dependable service the slides will be coated with a finish that is tested to withstand a minimum of 1,000 hours of salt spray per ASTM B117.

To ensure years of easy operation, the slides will require no more than a 50 lb force for push-in or pull-out movement when fully loaded after having been subjected to a 40 hour vibration (shaker) test under full load. The vibration drive file will have been generated from accelerometer data collected from a heavy truck chassis driven over rough gravel roads in an unloaded condition. Proof of compliance will be provided upon request.

The slide will be mounted on adjustable tracks side to side within the compartment.

The board will have positive lock in the stowed and extended position.

The toolboard(s) will be with a dual action finish and installed in RS5, centered from left to right in the door frame and in RS7, 14.00" from the forward door frame.

VERTICAL COMPARTMENT PARTITION

Two (2) partitions will be bolted in Two in compt P5, one full width 10" off floor, one upper to right of partition, refer to compt layout sketch located in the job E folder for locations too difficult to explain in the space allowed here.. Each partition will be Two in compt P5, one full width 10" off floor, one upper to right of partition, refer to compt layout sketch located in the job E folder for locations too difficult to explain in the space allowed here. vertical height of the compartment. Each partition will be with a dual action finish.

PEGBOARD

There will be Two (2) partitions provided. The partition(s) will be aluminum pegboard bolted in One in compt P5 17.5" from the left side wall and from the horizontal partition up. One in compt P7 15" from the left side wall..

The pegboard will be .188" thick with .281" diameter holes punched 1.00" on center in a pegboard pattern.

Each partition will be the full vertical height of the compartment.

The pegboard will be aluminum with a dual action finish.

RETENTION WEBBING

Webbing will be provided to retain compartment equipment from laying against the compartment door. The webbing will be located Strap, Top/Bottom Fastened Fixed, 2" Box Pattern 1 Location - In compt D1 from the floor to ceiling..

Each compartment door opening will be provided with a heavy black nylon webbing made of 1.00" nylon strap with a 2.00" box pattern. The nylon webbing will be permanently fastened at the top of the compartment and have 1.00" cam buckle fasteners on the opposite side to secure it.

A total of one (1) will be provided.

PEGBOARD

There will be 3/16" thick aluminum pegboard with a dual action finish installed on the back wall of one (1) compartments. It will be mounted using two (2) horizontal tracks. Retainers will be used to mount the pegboard to the tracks. The holes will be .281" diameter , punched 1.00" on center. The pegboard will be located in the RS5 and mounted One in compt P5 above the air bottle storage, refer to compt layout sketch located in the job E folder for.

RUB RAIL

Bottom edge of the side compartments will be trimmed with a bright aluminum extruded rub rail.

Trim will be 2.12" high with 1.38" flanges turned outward for rigidity.

The rub rails will not be an integral part of the body construction, which allows replacement in the event of damage.

BODY FENDER CROWNS

Polished stainless steel fender crowns will be provided around the rear wheel openings with a dielectric barrier will be provided between the fender crown fasteners (screws) and the fender sheet metal to prevent corrosion.

The fender crowns will be held in place with stainless steel screws that thread directly into a composite nut and not directly into the parent body sheet metal to eliminate dissimilar metals contact and greatly reduce the chance for corrosion. Rubber welting will be provided between the body and crown.

BODY FENDER LINER

An aluminum painted to match the lower body color fender liner will be provided. The liners will be removable to aid in the maintenance of rear suspension components.

HARD SUCTION HOSE

Hard suction hose will not be required.

HANDRAILS

The handrails will be 1.25" diameter knurled aluminum to provide a positive gripping surface.

Chrome plated end stanchions will support the handrail. Plastic gaskets will be used between end stanchions and any painted surfaces.

Drain holes will be provided in the bottom of all vertically mounted handrails.

Handrails will be located on the front of the body in positions needed to meet NFPA requirements.

CORNER FENDER PANEL DOUBLE AIR BOTTLE STORAGE

A total of three (3) air bottle compartments will be provided in the upper corner(s) of the fender located on the left side forward of the rear wheels, on the right side forward of the rear wheels and on the right side rearward of the rear wheels. The air bottle compartment(s) will be in the form of a round tube (7.75" diameter maximum) and of adequate depth (26.00" maximum) to accommodate different size air bottles. The tubes will be mounted separately in a diagonal fashion, one above the other.

A triangular shaped vertically hinged door and a Southco raised trigger C2 chrome lever latch will be provided for each compartment. The door will be polished stainless steel. A dielectric barrier will be provided between the door hinge, hinge fasteners and the body sheet metal.

Inside the compartment, black rubber matting and a drain hole will be provided.

FOUR AIR BOTTLE STORAGE COMPARTMENT

A total of two (2) air bottle compartments will be provided and located on the left side and the right side, centered between the tandem rear wheels. The air bottle compartment will consist of individual bins each designed to hold an air bottle with a maximum diameter of 7.63" and a maximum depth of 26.00".

Each compartment will hold a total of four (4) air bottles. The compartment will accommodate three (3) bottles across the top and one (1) centered below. The bottom air bottle will be accessible only when the top center bottle is removed and the hinged partition over the bottom bottle is lifted up. Each bottle will be separated by a partition.

A drop down door with support cables with pair of Southco raised trigger C2 chrome lever latches will be provided for each compartment. The door will be polished stainless steel. The door will be flanged on all non-hinged sides. A dielectric barrier will be provided between the door hinge, hinge fasteners and the body sheet metal.

Inside the compartment there will be a drain hole and black rubber matting.

Air Bottle Compartment Strap
Straps will be provided in the air bottle compartment(s) to help contain the top three (3) air bottles. The straps will wrap around the neck of each bottle and attach to the wall of the compartment.

EXTENSION LADDER
There will be one (1) 45', three (3) section aluminum Duo-Safety Series 1525-A extension ladder(s) provided. The ladder(s) will have poles.

ADDED EXTENSION LADDER
There will be a 35', two (2) section, aluminum, Duo-Safety Series 1200-A extension ladder provided.

AERIAL EXTENSION LADDERS
There will be one (1) 28' two (2) section aluminum Duo-Safety Series 1200-A extension ladder(s) provided and located in the aerial torque box.

ROOF LADDER
There will be one (1) 16' aluminum Duo-Safety Series 875-A roof ladder(s) provided.

ADDED ROOF LADDER
There will be one (1) 18' roof, aluminum, Series 875-A provided.

AERIAL FOLDING LADDER
There will be one (1) 10' aluminum Alco-Lite Series FL-10 folding ladder(s) provided and located in the aerial torque box.

GROUND LADDER STORAGE
The ground ladders are stored within the torque box and are removable from the rear.

Ladders will be enclosed to prevent road dirt and debris from fouling or damaging the ladders.

The ladders rest in full length stainless steel slides and are arranged in such a manner that any one ladder can be removed without having to move or remove any other ladder.

A Gortite rollup door will be provided at the rear, double faced, aluminum construction, and an anodized satin finish. A polished stainless steel lift bar to be provided for the rear roll-up door. The latching mechanism will consist of a full length lift bar lock with latches on the outer extrusion of the door frame.

A stainless plate with a 2-bend flange and a stainless steel hinge will be provided to secure the aerial ladder complement. The plate assembly will be mounted to the bottom of the entrance of the torque box ladder storage area.

When the plate is vertical, it will secure the ladders and prevent them from migrating to the rear of the apparatus. When the plate is down and not securing the ladders, the rollup door can not close, which will activate the "Open Door Indicator Light" within the cab. The rollup door together with hinge friction will secure the plate in place during driving operations.

A door guard will be provided to prevent tools inside the torque box from damaging the rollup door.

LADDER STORAGE LIGHTING

There will be 21.00" white 12 volt DC LED strip lights in the torque box ladder storage compartment. One (1) light will be provided on each side of the ladder storage area.

The lights will be activated when the ladder storage compartment door is opened.

PIKE POLES

There will be two (2) 12' Duo Safety pike pole(s) with fiberglass handles provided. The pike pole(s) will be stored in tubular holders located in the ground ladder storage compartment.

6' PIKE POLE

There will be two (2) 6' Duo Safety pike pole(s) with fiberglass handle provided. The pike pole(s) will be stored in tubular holders located in the ground ladder storage compartment.

3' PIKE POLE

There will be two (2) 3' Duo Safety pike pole(s) with fiberglass shaft and "D" handles shipped loose.

PIKE POLE

There will be two (2) Fire Hooks Unlimited, Model RH-6, 6' long New York Roof Hook with steel handle and pry end provided and located in the rear.

PIKE POLE STORAGE IN TORQUE BOX/LADDER STORAGE

There will be ABS tubing provided in the torque box/ladder storage area for a total of six (6) pike poles.

If the head of a pike pole can come into contact with a painted surface, a stainless steel scuffplate will be provided.

FLAG HOLDERS

There will be one (1) stainless steel tube(s), 4.00" long, for a 1.00" diameter flag pole, located driver's side on the rear of body up high.

The tube will have a pin going through it with cable attached to secure a flag in the tube. It will allow installing and removing of flags.

Two (2) additional folding steps will be located "On the passenger side rear of the body to access the top or the body.". The step(s) will be bright finished, non-skid, with a black tread coating on the stepping surface. The step(s) can be used as a hand hold with two openings wide enough for a gloved hand.

STEP, PULL-OUT/DROP DOWN

One (1) pull-out step will be provided. Each step will be 20" wide and will pull out and drop down to provide easy access.

The step will be located on the pass side rear below the tailboard.

PUC MODULE

The pump module will be separate from the hose body and compartments so that each may flex independently of the other. It will be a fabricated assembly of aluminum tubing, angles and channels which support both the plumbing and the side running boards.

The pump module will be mounted on the chassis frame rails with standard body angles in four places to allow for chassis frame twist.

Pump module, plumbing and gauge panels will be removable from the chassis in a single assembly.

PUMP CONTROL PANELS (LEFT SIDE CONTROL)

Pump controls and gauges will be located midship at the left side of the apparatus and properly identified.

The main pump operator's control panel will be completely enclosed and located in the forward section of the body compartment. There will be a roll up door to protect against road debris and weather elements. This roll-up door compartment will include a drip pan below the roll of the door. The pump operator's panels will be no more than 31.00" wide, and made in four (4) sections with the center section easily removable with simple hand tools. For the safety of the pump operator, there will be no discharge outlets or pump inlets located on the main pump operator's panel.

Layout of the pump control panel will be ergonomically efficient and systematically organized. The upper section will contain the master gauges. This section will be angled down for easy visibility. The center section will contain the pump controls aligned in two horizontal rows. The pressure control device, engine monitoring gauges, electrical switches, and foam controls (if applicable) will be located on or adjacent to the center panel, on the side walls for easy operation and visibility. The lower section will contain the outlet drains.

Manual controls will be easy moving 8" long lever style controls that operate in a vertical, up and down swing motion. These handles will have a 2.25" diameter knob and be able to lock in place to prevent valve creep under any pressure. Bright finish bezels will encompass the opening, be securely mounted to the pump operator's panel, and will incorporate the discharge gauge bezel. Bezels will be bolted to the panel for easy removal and gauge service. The driver's side discharges will be controlled directly at the valve. There will be no push-pull style control handles.

Identification tags for the discharge controls will be recessed within the same bezel. The discharge identification tags will be color coded, with each discharge having its own unique color.

All remaining identification tags will be mounted on the pump panel in chrome-plated bezels.

All discharge outlets will be color coded and labeled to correspond with the discharge identification tag.

The pump panels for the discharge and intake ports will be located ahead of the pump module with no side discharge or intake higher than the frame rail. The pump panels will be easily removable with simple hand tools.

A recessed cargo area will be provided at the front of the body, ahead of the water tank above the plumbing.

PASSENGER SIDE PUC MODULE COMPARTMENT

A full height compartment with a roll-up door ahead of the front stabilizer will be provided, as convenient large storage compartment for often used items for the crew. The interior dimensions of this compartment will be 30.25" wide x 52.00" high x 25.13" deep. The depth of the compartment will be calculated with the compartment door closed. The compartment interior will be fully open from the compartment ceiling to the compartment floor and designed so that no permanent dividers are required between the upper and lower sections. The clear door opening of this compartment will be 28.00" wide x 52.00 high.

Closing of the door will not require releasing, unlocking, or unlatching any mechanism and will easily be accomplished with one hand.

This roll-up door compartment will include a drip pan below the roll of the door.

PUMP

Pump will be a Pierce, low profile, 1500 gpm single stage midship mounted centrifugal type, mounted below the cab. The pump will have a 15 percent reserve capacity to allow for extended time between pump rebuild. To ensure efficient pump/vehicle design the capacity to weight ratio will not be less than 1.5:1.

The pump casing will consist of three (3) discharge outlets, one (1) to each side in line with the impeller and one (1) to the rear. The pump casing will incorporate two (2) water strippers to maintain radial balance.

Pump will be the Class A type.

Pump will be certified to deliver the percentage of rated discharge from draft at pressure indicated below:

- 100 percent of rated capacity at 150 psi net pump pressure
- 70 percent of rated capacity at 200 psi net pump pressure
- 50 percent of rated capacity at 250 psi net pump pressure

The pump will have the capacity to deliver the percentage of rated discharge from a pressurized source as indicated below:

- 135 percent of rated capacity at 100 psi net pump pressure from a 5 psi source

Pump body will be fine-grained gray iron. Pump will incorporate a heater/cooling jacket integral to the pump housing.

The impeller will be high strength vacuum cast bronze alloy accurately machine balanced and splined to a 10 spline stainless steel pump shaft for precision fit, exceptional durability, and efficiency. Double replaceable reverse flow labyrinth type bronze wear ring design will help to minimize end thrust. The impeller will be a twisted vane design to create higher lift.

The pump will include o-ring gaskets throughout the pump.

Deep groove radial type oversize ball bearings will be provided. The bearings will be protected at the openings from road dirt and water with an oil seal and a water slinger.

The pump will have a flat, patterned area on the top of the pump intake wye to allow standing for plumbing maintenance. The main inlet manifold will be 6.00" in diameter and will have a low profile design to facilitate low crosslays and high flows.

For ease of service, the pump housing, intake wye, impeller, mechanical seal, and gear case will be accessible from above the chassis frame by tilting the cab. Removal of the main inlet wyes will provide access to the impeller, mechanical seal, and wear ring.

The tank to pump line and the primary discharge line will be the only piping required to be removed for overhaul.

For ease of service and overhaul there will be no piping or manifolding located directly over the pump.

PUMP MOUNTING

Pump will be mounted to the chassis frame rails directly below the crew cab, to minimize wheelbase and facilitate service, using rubber isolators in a modified V pattern that include one (1) central mounted isolators located between the frame rails, and one (1) on each side outside the frame rails. The mounting will allow chassis frame rails to flex independently without damage to the fire pump. Each isolator will be 2.55" in total outside diameter and will be rated at 490 lb. The pump will be completely accessible by tilting the cab with no piping located directly above the pump.

MECHANICAL SEALS

Silicon carbide mechanical seals will be provided. The seals will be spring loaded and self-adjusting. The seals will have a minimum thermal conductivity of 126 W/m*K to run cooler. Seals will have a minimum hardness of 2800 kg/mm2 to be more resistant to wear, and have thermal expansion characteristics of no more than 4.0 X106mm/mm*K to be more resistant to thermal shock.

PUMP GEAR CASE

The integrated pump transmission gear case will use a pressure-lubricated system to cool, lubricate, and filter the oil. The gear case will be constructed of lightweight aluminum, and impregnated with resin in accordance to MIL Spec MIL-I-17563. A sight glass, accessible by tilting the cab, will be provided for easy fluid level checks.

The gear case will consist of three (3) gears to drive the pump.

CLUTCH

There will be a heavy-duty hydraulic clutch mounted directly to the integrated pump transmission to engage and disengage the pump without gear clash. The clutch will be a multiple disc design for maximum torque. The clutch will be fully self-adjusting to provide automatic wear compensation, and consistent torque throughout the life of the clutch. Positive engagement and disengagement will be provided through a high efficient and dependable hydraulic system to assure superior performance.

LOW PRESSURE/HIGH TEMPERATURE LIGHTS

Lights will be provided to indicate when a high temperature or low pressure situation occurs. Lights will be provided next to the master gauges at the pump panel as well as on the control panel in the cab. A pair of lights will be provided in each location. One light will be provided to indicate high temperature. The second light will be provided to indicate a low pressure. All lights will be labelled accordingly.

PUMPING MODE

Pump will provide for both pump and roll mode and stationary pumping mode.

Stationary pumping mode will be accomplished by stopping the vehicle, setting the parking brake and engaging the water pump switch on the cab switch panel. The transmission will shift to "Neutral" range automatically when the parking brake is set. The "OK to Stationary Pump" indicator will also illuminate when the parking brake is set.

If the vehicle is equipped with a suitable Husky foam system or Hercules CAFS system, these systems will be engaged from the cab switch panel as well.

Pump and roll mode will be accomplished by the use of the main pump and will not require the use of a secondary pump. pump and roll mode will use the same operation sequence as stationary pumping mode with a few additional steps. After the vehicle is setup for stationary pumping, the operator will leave the cab and setup the pump panel to discharge at the desired outlet(s). Upon returning to the cab, the operator will disengage the parking brake. An "OK to pump and roll" indicator will illuminate on the cab switch panel. First gear on the transmission gear selector will be selected by the operator for pump and roll operations. The operator as needed will apply the foot throttle. pump and roll mode will be maintained unless the transmission shifts out of first gear.

Stopping either stationary pumping mode or pump and roll mode will be accomplished by pressing the "Water Pump" switch down to disengage the pump.

A pump pressure reading will be displayed in view of the driver.

PUMP SHIFT

Pump will be engaged in not more than two steps, by simply setting the parking brake, which will automatically put the transmission into neutral, and activating a rocker switch in the cab. Switches in the cab will also allow for water, foam, or CAFS if equipped, and activate the appropriate system to preset parameters. The engagement will provide simple two-step operation, enhance reliability, and completely eliminate gear clash. The shift will include the indicator lights as mandated by NFPA. A direct override switch will be located behind a door in the pump operator's panel. The switch will automatically disengage when the door is closed.

As the parking brake is applied, the pump panel throttle will be activated and deactivate the chassis foot throttle for stationary operation.

TRANSMISSION LOCK UP

Transmission lock up is not required as transmission will automatically shift to neutral as soon as the parking brake is set.

AUXILIARY COOLING SYSTEM

A supplementary heat exchange cooling system will be provided to allow the use of water from the discharge side of the pump for cooling the engine water. A water-to-coolant heat exchanger will be used.

INTAKE RELIEF VALVE - PUMP

One (1) Elkhart Style 40 relief valve(s) will be installed on the suction side of the pump preset at 125 psig.

The relief valve(s) will have a working range of 75 psi to 250 psi.

The outlet will terminate below the frame rails with a 2.50" National Standard hose thread adapter and will have a "do not cap" warning tag.

The relief valve pressure control will be located behind the right side pump panel with a stainless steel access door.

PIERCE PRESSURE CONTROLLER

A Pierce electronic pressure controller will be provided.

A pressure transducer will be installed in the discharge side of the water pump. The transducer continuously monitors pump pressure sending a signal to the electronic pressure controller.

The pressure controller can be used in two (2) modes of operation, RPM mode and pressure modes. The controller will be programmed to turn on/default to No Mode/Default Press Setting mode.

In the RPM mode, the controller can be activated after vehicle parking brake has been set. When in this mode, the controller will maintain the set engine speed, regardless of engine load (within engine operation capabilities).

In the pressure mode, the controller can be activated after vehicle parking brake has been set. When in this mode, the controller will automatically maintain the discharge pressure set by the operator (within the discharge capabilities of the pump and water supply) regardless of flow.

A 2.00" diameter throttle control knob with no mechanical stops, a serrated grip, and a red idle push button in the center will be a integrated/part of the pressure controller. The throttle control knob will be programmed for Clockwise rotation to increase engine speed.

Individual LED indicators for ok to pump, throttle ready, pressure mode and rpm mode will be located on the pressure controller for easy viewing.

A pump cavitation protection feature will also be provided which will return the engine to idle should the pump cavitate. Cavitation is sensed by the combination of pump pressure below 30 psi and engine speed above 2000 rpm for more than five (5) seconds.

Other safety features include recognition of low water and no water conditions with an automatic programmed response and a push button to return the engine to idle.

The pressure controller LCD screen will be 4.20" in size with a minimum brightness of 750 nits. The LCD screen and LED intensity will automatically adjust for day and nighttime operation. The LCD screen intensity can also be manually adjusted if needed.

The following information will be provided/displayed on the LCD screen:

- Engine RPM
- Check engine and stop engine warning indicators
- Engine oil pressure
- Engine coolant temperature
- Water pump transmission temperature
- Fuel Level
- Water tank level
- Battery voltage
- Operating mode (RPM or pressure)
- Pressure or RPM setting

On screen messaging show diagnostic and warning messages as they occur. It will show apparatus information, stored data, and program options when selected by the operator. It will monitor inputs outputs and support audible and visual warning alarms for the following conditions:

- High battery voltage
- Low battery voltage/engine off
- Low battery voltage/engine running
- High water pump temperature
- Low fuel
- Low engine oil pressure
- High engine coolant temperature
- Water tank out of water (visual alarm only)
- No engine response (visual alarm only)

The pressure controller will store the accumulated operating hours for the pump and engine. These items are to be displayed within the pressure controller menu.

The pressure controller will include a USB port on the back of the controller for easy software upgrades if needed.

PRIMING PUMP

The priming pump will be a Trident Emergency Products compressed air powered, high efficiency, multistage venturi based AirPrime System, conforming to standards outlined in the current edition of applicable NFPA standards.

All wetted metallic parts of the priming system are to be of brass and stainless steel construction.

One (1) priming control will open the priming valve and start the pump primer.

PUMP MANUALS

There will be a total of two (2) pump manuals provided by the pump manufacturer and furnished with the apparatus. The manuals will be provided by the pump manufacturer in the form of two (2) electronic copies. Each manual will cover pump operation, maintenance, and parts.

PLUMBING, STAINLESS STEEL AND HOSE

All inlet and outlet lines will be plumbed with either stainless steel pipe, flexible polypropylene tubing or synthetic rubber hose reinforced with hi-tensile polyester braid. All hose's will be equipped with brass or stainless steel couplings. All stainless steel hard plumbing will be a minimum of a schedule 10 wall thickness.

Where vibration or chassis flexing may damage or loosen piping or where a coupling is required for servicing, the piping will be equipped with victaulic or rubber couplings.

Plumbing manifold bodies will be ductile cast iron or stainless steel.

All piping lines are to be drained through a master drain valve or will be equipped with individual drain valves. All drain lines will be extended with a hose to drain below the chassis frame.

All water carrying gauge lines will be of flexible polypropylene tubing.

All piping, hose and fittings will have a minimum of a 500 PSI hydrodynamic pressure rating.

MAIN PUMP INLETS

A 6.00" pump manifold inlet will be provided on each side of the vehicle. The suction inlets will include removable die cast zinc screens that are designed to provide cathodic protection for the pump, thus reducing corrosion in the pump.

Main pump inlets will not be located on the main operator's panel and will maintain a low connection height by terminating below the top of the chassis frame rail.

SHORT SUCTION TUBE(S)

The suction tube(s) on the water pump will have short suction tube(s) installed to allow for installation of adapters, elbows or intake valves without excessive overhang.

MAIN PUMP INLET CAP

The main pump inlets will have National Standard Threads with a long handle chrome cap.

The cap will be the Pierce VLH, which incorporates an exclusive thread design to automatically relieve stored pressure in the line when disconnected.

VALVES

All ball valves will be Akron® Brass. The Akron valves will be the 8000 series heavy-duty style with a stainless steel ball and a simple two-seat design. No lubrication or regular maintenance is required on the valve.

Valves will have a **ten (10) year** warranty.

The location of the valve for the one (1) inlet will be recessed behind the pump panel.

INLET CONTROL
The side auxiliary inlet(s) will incorporate a quarter-turn ball valve with the control located at the inlet valve. The valve operating mechanism will indicate the position of the valve.

LEFT SIDE INLET
There will be one (1) auxiliary inlet with a 2.50" valve at the left side pump panel, terminating with a 2.50" (F) National Standard hose thread adapter.

The auxiliary inlet will be provided with a strainer, chrome swivel and plug.

ANODE, INLET
A pair of sacrificial zinc anodes will be provided in the water pump inlets to protect the pump from corrosion.

INLET BLEEDER VALVE
A 0.75" bleeder valve will be provided for each side gated inlet.

The valves will be located behind the panel with a "T" swing style handle control extended to the outside of the panel.

The handles will be chrome plated and provide a visual indication of valve position. The swing handle will provide an ergonomic position for operating the valve without twisting the wrist and provides excellent leverage.

The water discharged by the bleeders will be routed below the chassis frame rails.

TANK TO PUMP
The booster tank will have a 3.00" outlet and be connected to the intake side of the pump with heavy duty 4.00" piping and a quarter turn 3.00" full flow line valve with the control located at the operator's panel. A rubber coupling will be included in this line to prevent damage from vibration or chassis flexing.

A check valve will be provided in the tank to pump supply line to prevent the possibility of "back filling" the water tank.

TANK REFILL
A 1.50" combination tank refill and pump re-circulation line will be provided, using a quarter-turn full flow ball valve controlled from the pump operator's panel.

DISCHARGE OUTLET CONTROLS
The right side discharges will incorporate a quarter-turn ball valve and be controlled by Akron 9345 electric valve controllers provided on the pump operator's panel. The electric controls must be of a true position feedback design, requiring no clutches in the motor or current limiting. The units must be completely sealed with momentary open, close as well and an optional one touch full open feature to operate their corresponding valve actuator. The controllers will provide position indication on a full color, backlit LCD display. They will have manual adjustment of the brightness as well as an auto dimming option. In addition to the valve controls, the electric valve controllers will include a pressure display

All other outlets will have manual swing handles that operate in a vertical up and down motion. These handles will be able to lock in place to prevent valve creep under pressure.

LEFT SIDE DISCHARGE OUTLETS

There will be two (2) discharges with a 2.50" valves on the left side of the apparatus, terminating with a 2.50" (M) National Standard hose thread adapter. Discharges will be located below the cab, and will be no higher than the top of the chassis frame rail. Discharges will not be located on the pump operator's panel. Lever controls will be provided at the valve.

RIGHT SIDE DISCHARGE OUTLETS

There will be one (1) discharge with a 3.00" valve on the right side of the apparatus, terminating with a 3.00" MNST adapter. The discharge will be located below the crew cab and will be no higher than the top of the chassis frame rail.

There will be an Akron 9345 electric valve controller provided on the pump operators panel. The electric control must be of a true position feedback design, requiring no clutches in the motor or current limiting. The unit must be completely sealed with momentary open, close as well and an optional one touch full open feature to operate the valve actuator. The controller will provide position indication on a full color, backlit LCD display. It will have manual adjustment of the brightness as well as an auto dimming option.

In addition to valve position, each controller will include a pressure display.

LARGE DIAMETER DISCHARGE OUTLET

There will be an Akron 8800 4.00" flat ball valve with 4.00" plumbing terminating with a 4.00" MNST chrome adapter on the right side pump panel.

The valve will be controlled with a(n) Akron 9345 with pressure located at the pump operator's panel.

LARGE DIAMETER OUTLET CAP

The large diameter outlet will have a National Standard hose thread adapter with a 4.00" rocker lug chrome plated cap and chain.

The cap will be the Pierce VLH, which incorporates a patent pending thread design to automatically relieve stored pressure in the line when disconnected.

FRONT DISCHARGE OUTLET

There will be one (1) 1.50" discharge outlet piped to the front of the apparatus and located in the center bumper tray.

Plumbing will consist of 2.00" piping and flexible hose with a 2.00" full flow valve with control at the pump operator's panel. A fabricated weldment made of stainless steel pipe will be used in the plumbing where appropriate. The piping will terminate with a 1.50" NST with 90 degree stainless steel swivel.

There will be automatic drains provided at all low points of the piping.

DISCHARGE CAPS/ INLET PLUGS

Chrome plated, rocker lug, caps with chain will be furnished for all discharge outlets 1.00" thru 3.00" in size, besides the pre-connected hose outlets.

Chrome plated, rocker lug, plugs with chain will be furnished for all auxiliary inlets 1.00" thru 3.00" in size.

The caps and plugs will incorporate a thread design to automatically relieve stored pressure in the line when disconnected.

OUTLET BLEEDER VALVE

A 0.75" bleeder valve will be provided for each outlet 1.50" or larger. Automatic drain valves are acceptable with some outlets if deemed appropriate with the application.

The valves will be located behind the panel with a T swing style handle control extended to the outside of the side pump panel.

The handles will be chrome plated and provide a visual indication of valve position.

The T swing handle will provide an ergonomic position for operating the valve without twisting the wrist and provides excellent leverage.

Bleeders will be located at the bottom of the pump panel. They will be properly labeled identifying the discharge they are plumbed in to.

The water discharged by the bleeders will be routed below the chassis frame rails.

AERIAL WATERWAY OUTLET

The aerial waterway will be plumbed from the water pump to the aerial device waterway with 4.00" pipe and a 4.00" Akron valve.

The valve will be controlled with a Pierce large handwheel with indicator located at the pump operator's panel.

CROSSLAY MODULE

The crosslay module will be full width of the rear body.

The crosslay module will include a boom support compartment. The interior of the boom support compartment will be a DA finish.

The forward, upper corners of the module will have full body corners.

The crosslay module will be manufactured for installation of roll up doors on each side to include the boom support compartment with on common roll up door.

ROLL-UP DOOR, CROSSLAY ENDS, PUC

All compartment doors will be roll-up style double faced, aluminum construction, painted one (1) color to match the lower portion of the body and manufactured by AMDOR™. The crosslay enclosure will be full width of the body.

The track will be the flanged track with the screws installed to the rear of the track guide.

The slats will be double wall box frame extrusion. The exterior surface will be flat and the interior surface will be concave to help loose equipment fall to the ground and prevent it from jamming the door.

Between each slat will be a PVC inner seal to prevent metal to metal contact and prevent dirt or moisture from entering the compartments.

Each door will have a 4.00" counter balance to assist in lifting.

A polished stainless steel lift bar to be provided for each roll-up door. The lift bar will be located at the bottom of door with striker latches installed at the base of the side frames. Side frame mounted door strikers will include support beneath the stainless steel lift bar to prevent door curtain bounce, improve bottom seal life expectancy and to avoid false door ajar signals.

The crosslays will have a standard drip pan below the roll of the door.

LOWER CROSSLAY

There will be two (2) lower crosslays provided.

1.50" Crosslay

There will be two (2) 1.50" crosslays plumbed with 2.00" welded or formed schedule 10 304L stainless steel pipe.

The crosslays will be low mounted with the bottom of both crosslay trays no more than 11.00" above the frame rails for simple, safe reloading and deployment.

There will be a 1.50" National Standard hose thread 90-degree swivel provided in each hose bed, so that the hose may be removed from either side of apparatus. The swivel will be as far outbound as possible for ease of changing hose.

Each crosslay will be gated with a 2.00" quarter turn ball valve with the controls located at the pump operator's panel.

Each hose bed will be capable of carrying 250 1.5.

Crosslay Hose Tray

A removable tray will be provided for each crosslay hose bed. The crosslay tray will be constructed of black poly to provide a lightweight sturdy tray. Two (2) hand holes will be in the floor and additional hand holes will be provided in the sides for easy removal and installation from the compartment. The floor of the trays will be perforated to allow for drainage and hose drying.

Trays will be held in place by a mechanical spring-loaded stainless-steel latch that automatically deploys upon loading the trays to hold the trays in place during transit.

UPPER CROSSLAY

There will be one (1) upper crosslay provided.

2.50" Crosslay

There will be one (1) 2.50" crosslay plumbed with 2.50" welded or formed schedule 10 304L stainless steel pipe.

There will be a 2.50" National Standard hose thread 90-degree swivel provided in each hose bed, so that hose may be removed from either side of apparatus. The swivel will be as far outbound as possible for ease of changing hose.

Each crosslay will be gated with a 2.50" quarter turn ball valve with the controls located at the pump operator's panel.

Each hose bed will be capable of carrying Please provide one tray 11.5" clear for 250' of 2"..

Crosslay Hose Trays

A removable tray will be provided for each crosslay hose bed. The crosslay tray will be constructed of black poly to provide a lightweight sturdy tray. Two (2) hand holes will be in the floor and additional hand holes will be provided in the sides for easy removal and installation from the compartment. The floor of the trays will be perforated to allow for drainage and hose drying.

Trays will be held in place by a mechanical spring-loaded stainless-steel latch that automatically deploys upon loading the trays to hold the trays in place during transit.

FOAM SYSTEM

A foam system will not be required on this apparatus.

PUMP PANEL CONFIGURATION

The pump panel configuration will be arranged and installed in an organized manner that will provide user-friendly operation.

PUMP OPERATOR'S PLATFORM

A pull out, flip down platform will be provided at the pump operator's control panel.

The front edge and the top surface of the platform will be made of DA finished aluminum with a Morton Cass insert.

The platform will be approximately 13.75" deep when in the stowed position and approximately 22.00" deep when extended. The platform will be as wide as possible. The platform will lock in the retracted and the extended position.

The sides, bottom and rear portions of the support assembly will be painted to match lower job color.

The platform will be wired to the "step not stowed" indicator in the cab.

PUMP OPERATOR'S PLATFORM PERIMETER LIGHT

There will be an On Scene Solutions, Model Night Stick Access, 20.00" white 12 volt DC LED strip light provided to illuminate the ground area.

PUMP AND GAUGE PANEL

The pump operator's panel and gauge panels will be brushed stainless steel finish.

The side panels will be brushed stainless steel finish.

PUMP AND PLUMBING ACCESS

Simple access to the plumbing will be provided through the front of the body area by raising the cab for complete plumbing service and valve maintenance. Access to valves will not require removal of operator panels or pump panels. Access for rebuilding of the pump will not require removal of more than the tank to pump line and a single discharge line. This access will allow for fast, easy valve or pump rebuilding, making for reduced out of service times. Steps will be provided for access to the top of the pump.

Access to the pump will be provided by raising the cab. The pump will be positioned such that all maintenance and overhaul work can be performed above the frame and under the tilted cab. The service and overhaul work on the pump will not require the removal of operator panels or pump panels. Complete pump casing and gear case removal will require no more than removal of the intake and discharge manifolds, driveline, coolers and a single discharge line. The pump case and gear case will be able to be removed by lifting upward without interference from piping and be removable in less than 3 hours.

PUMP COMPARTMENT LIGHT

There will be one (1) Whelen®, Model 3SC0CDCR, 3.00" white 12 volt DC LED light(s) with Whelen, Model 3FLANGEC, flange(s) installed in the plumbing area.

The light(s) will be activated by a toggle switch located in the pump compartment area.

Engine monitoring graduated LED indicators will be incorporated with the pressure controller.

THROTTLE READY GREEN INDICATOR LIGHT

There will be a green indicator light integrated with the pressure governor and/or engine throttle installed on the pump operators panel that is activated when the pump is in throttle ready mode.

VACUUM AND PRESSURE GAUGES

The pump vacuum and pressure gauges will be liquid filled and manufactured by Class 1 Incorporated.

The gauges will be a minimum of 4.00" in diameter and will have white faces with black lettering, with a pressure range of 30.00"-0-600#.

Gauge construction will include a Zytel nylon case with adhesive mounting gasket and threaded retaining nut.

The pump pressure and vacuum gauges will be installed adjacent to each other at the pump operator's control panel.

Test port connections will be provided at the pump operator's panel. One (1) will be connected to the intake side of the pump, and the other to the discharge manifold of the pump. They will have 0.25 in. standard pipe thread connections and non-corrosive polished stainless steel or brass plugs. They will be marked with a label.

This gauge will include a 10 year warranty against leakage, pointer defect, and defective bourdon tube.

PRESSURE GAUGES

The individual "line" pressure gauges for the discharges will be Class 1 interlube filled.

They will be a minimum of 2.00" in diameter and have white faces with black lettering.

Gauge construction will include a Zytel nylon case with adhesive mounting gasket and threaded retaining nut.

Gauges will have a pressure range of 30"-0-400#.

The individual pressure gauge will be installed as close to the outlet control as practical.

This gauge will include a 10 year warranty against leakage, pointer defect, and defective bourdon tube.

WATER LEVEL GAUGE

An electric water level gauge will be incorporated in the pressure controller that registers water level by means of nine (9) LEDs. They will be at 1/8 level increments with a tank empty LED. The LEDs will be a bright type that is readable in sunlight, and have a full 180-degree of clear viewing.

To further alert the pump operator, the gauge will have a warning flash when the tank volume is less than 25 percent. The gauge will have down chasing LEDs when the tank is almost empty.

The level measurement will be ascertained by sensing the head pressure of the fluid in the tank or cell.

This gauge system will include a remote light driver module to allow for additional water level lights to be incorporated.

NFPA 1900, 2024 edition 13.9.1 requires that each pump control, gauge, and other instruments necessary to operate the pump will be located on a panel known as the pump operator's panel and will be marked with a label as to its function.

This apparatus has pump and roll capabilities, so there is a water level gauge provided in the cab for the driver/pump operator.

Per Fire Department specification request to remove the water level gauge in the cab, the apparatus will be non compliant to NFPA 1900 standards at time of contract execution.

WATER LEVEL GAUGE

There will be two (2) additional water level indicator(s), Whelen®, Model PSTANK2, LED module with chrome trim, installed one (1) on the cab behind the left cab door and one (1) on the cab behind the right cab door.

This light module(s) will include four (4) colored levels, and function similar to the water level indicator located at the operators panel:

- First green module indicates a full water level
- Second blue module indicates a water level above 3/4 full
- Third amber module indicates a water level above 1/2 full
- Last red module indicates a water level above 1/4 full and empty

- Above 1/4 this light will be steady burning
- At empty this light will be flashing

The flash rate will be determined by the main water level tank sensor.

This module will be activated when the pump is in gear.

SIDE CONTROL PUMP OPERATOR'S/PUMP PANEL LIGHTING

Illumination will be provided for controls, switches, essential instructions, gauges, and instruments necessary for the operation of the apparatus and the equipment provided on it. Internal and external lights on the apparatus will be illuminated per the current edition of applicable NFPA standards.

The pump panels will be illuminated by two (2) Truck-Lite, Model 60354C, 6.00" x 2.00" oval white LED lights with Model 60700, grommets and chrome covers installed on the back of the cab, one (1) on the driver's side and one (1) on the passenger's side.

The pump operator's panel will utilize the same LED strip lighting at the forward doorframe as all other compartment lighting.

There will be a small white LED pump engaged indicator light installed overhead.

AIR HORN SYSTEM

Two (2) rectangular bell, Grover, air horns will be provided below the front bumper.

The air horns will be chrome.

The air horn system will be piped to the air brake system wet tank utilizing 0.38" tubing. A pressure protection valve will be installed to prevent the loss of air in the brake system.

Air Horn Location

The air horns will be located on each side of the bumper, towards the outside.

Air Horn Control

The air horn(s) will be activated by the following:

- Right side lanyard. The lanyard to be a nylon rope.
- Steering wheel horn ring with electric/air horn selector switch

ELECTRONIC SIREN

A Whelen®, Model 295SLSA1, electronic siren with noise canceling microphone will be provided.

This siren to be active when the battery switch is on and that emergency master switch is on.

Electronic siren head will be recessed in the driver side center switch panel.

The electronic siren will be controlled on the siren head only. No horn button or foot switches will be provided.

SPEAKER

There will be one (1) Whelen®, Model SA315P, black nylon composite, 100-watt, speaker with through bumper mounting brackets and polished stainless steel grille provided. The speaker will be connected to the siren amplifier.

The speaker(s) will be recessed in the center of the front bumper.

AUXILIARY MECHANICAL SIREN

There will be a Federal Signal Model Q2B mechanical siren furnished and installed in the front of the apparatus.

The Q2B will be chrome finish.

The siren will have a 2-gauge cable connected to a power solenoid that is connected by a 2-gauge cable ran battery direct to the primary chassis batteries and will be labeled Q2B+ at the battery. The power solenoid will only be enabled when the emergency master switch is on.

The siren will have a 2-gauge ground wire connected to the chassis battery stud. The cable will be labeled Q2B- at the battery.

The mechanical siren will be mounted on the bumper deckplate. It will be mounted on the left side. A reinforcement plate will be furnished to support the siren.

MECHANICAL SIREN CONTROL

The mechanical siren will be activated by the following:

- Right side foot switch
- Steering wheel horn ring with horn/siren selector switch.

A momentary chrome push button switch will be included in the right side dash panel to activate the siren brake.

FRONT ZONE UPPER WARNING LIGHTS

There will be two (2) 21.50" Whelen Freedom IV LED lightbars mounted on the cab roof, one (1) on each side, above the driver's and passenger's door, at a 30 degree angle.

The driver's side lightbar will include the following:

- One (1) red flashing LED module in the outside end position.
- One (1) red flashing LED module in the outside front corner position.
- One (1) red flashing LED module in the outside front position.
- One (1) red flashing LED module in the inside front position.
- One (1) red flashing LED module in the inside front corner position.

The passenger's side lightbar will include the following:

- One (1) red flashing LED module in the inside front corner position.
- One (1) red flashing LED module in the inside front position.
- One (1) red flashing LED module in the outside front position.
- One (1) red flashing LED module in the outside front corner position.
- One (1) red flashing LED module in the outside end position.

There will be clear lenses included on the lightbar.

There will be a switch in the cab on the switch panel to control the lightbars.

TRAFFIC LIGHT CONTROLLER

There will be a GTT™, Model 794* infrared Opticom™ traffic light controller with national standard high priority remote mounted on the front edge of the cab TBD.

The Opticom traffic light controller will be activated with the emergency master switch only.

The Opticom traffic light controller will have no momentary activation switch.

The Opticom traffic light controller will be disabled when the parking brake is applied.

FRONT ZONE LOWER LIGHTS

There will be two (2) pair of Whelen, Model M6**, LED lights installed on the cab face above the headlights, in a common bezel matching the one for the headlamps. The housing to be polished and the trim shall be chrome.

- The driver's side front outside warning light to be red
- The driver's side front inside warning light to be green
- The passenger's side front inside light to be green
- The passenger's side front outside warning light to be red
- The color of the lenses will be clear

There will be a switch located in the cab on the switch panel to control the lights.

HEADLIGHT FLASHER

The high beam headlights will flash alternately between the left and right side.

There will be a switch installed in the cab on the switch panel to control the high beam flash. This switch will be live when the battery switch and the emergency master switches are on.

The flashing will automatically cancel when the hi-beam headlight switch is activated or when the parking brake is set.

TRAFFIC WARNING LIGHT

There will be one (1) Tri Lite Mars "888" Traffic Breaker, Model TB8-L1-P/**, LED light with a figure eight (8) light pattern mounted on a polished stainless steel pedestal in the center of the cab face, just below the windshield.

The lens color to be clear.

The light(s) to include red LEDs.

There will be a switch located in the cab, on the switch panel to control the lights.

The lights will be load managed if colored, or disabled if white, when the parking brake is applied.

SIDE ZONE LOWER LIGHTING

There will be six (6) Whelen®, lights with chrome trim installed per the following:

- Two (2) Model M6**, 4.31" high x 6.75" long x 1.37" deep flashing LED warning lights, one (1) each side on the bumper extension. The left side, side front light to include red warning LEDs and the right side, side front light to include red warning LEDs.
- Two (2) Model M6V2*, 4.31" high x 6.75" long x 2.25" deep flashing LED warning lights with white scene LEDs, one (1) each side of cab rearward of crew cab doors. The left side, side middle light to include blue warning LEDs and the right side, side middle light to include red warning LEDs.
- Two (2) Model M6V2*, 4.31" high x 6.75" long x 2.25" deep flashing LED warning lights with white scene LEDs, one (1) each side above rear wheels. The left side, side rear light to include red warning LEDs and the right side, side rear light to include red warning LEDs.
- The warning light lens color(s) to be clear.

There will be a switch in the cab on the switch panel to control the warning LEDs.

The scene LEDs will be activated by a switch at the driver's side switch panel, when the parking brake is applied, by a switch at the passenger's side switch panel and when the directional signal is activated and for five (5) seconds after the directional signal is deactivated.

The scene LEDs may be load managed when the parking brake is applied.

INTERIOR CAB DOOR WARNING LIGHTS

There will be four (4) Whelen® Model 0S*00FCR, 1.0" high x 1.5" long x 0.5" deep flashing LED warning lights with chrome trim.

- One (1) light(s) to include red flashing LED's on the left side cab door
- One (1) light(s) to include red flashing LED's on the right side cab door.
- One (1) light(s) to include red flashing LED's on the right side crew cab door.
- One (1) light(s) to include red flashing LED's on the left side crew cab door.

Each light will be located in the door pan.

Each light will be activated when the battery switch is on, respective door is opened and the ignition switch is on.

ELECTRICAL CONNECTORS FOR WARNING LIGHTS

The lights will be installed with a weatherproof insulated crimped connectors in order to provide ease of connection/disconnection of the circuit applied to.

REAR ZONE LOWER LIGHTING

There will be two (2) Whelen®, Model M6* LED warning lights with chrome trim located at the rear lower of the apparatus per the following:

- The left side rear warning light to include red LEDs
- The right side rear warning light to include red LEDs
- The lens color(s) to be clear

There will be a switch located in the cab on the switch panel to control the lights.

REAR OF HOSE BED WARNING LIGHTS

There will be two (2) Whelen® Rota-Beam™, Model R316*F, 4.00" high x 7.19" wide beacons with the same color domes as the LEDs provided.

The rear zone upper light(s) to be red in color.

There will be a switch located in the cab on the switch panel to control the beacons.

TRAFFIC DIRECTING LIGHT

There will be one (1) Whelen®, Model TAL65, 36.00" long x 2.87" high x 2.25" deep, amber LED traffic directing light installed at the rear of the apparatus.

The Whelen, Model TACTL5, control head will be included with this installation.

The controller will be energized when the battery switch is on.

The auxiliary flash not activated.

This traffic directing light will be mounted on top of the body below the turntable with a treadplate box at the rear of the apparatus.

The traffic directing light control head will be located in the driver side overhead switch panel in the right panel position.

120 VOLT RECEPTACLE

There will be three (3), 15/20 amp 120 volt AC three (3) wire straight blade duplex receptacle(s) with an interior stainless steel wall plate, installed "two in the forward facing EMS compartment one high one low in the center, and one P5 right side wall about mid way up and back near the tank wall.". The NEMA configuration for the receptacle(s) will be 5-20R.

The receptacle(s) will be powered from the shoreline inlet.

There will be a label installed near the receptacle(s) that state the following:

- Line Voltage
- Current Ratting (amps)
- Phase
- Frequency

FOUR (4)-SECTION 107 FOOT AERIAL LADDER

CONSTRUCTION STANDARDS

The ladder will be constructed to meet all of the requirements as described in the current edition of applicable NFPA standards.

The aerial device will be a true ladder type device; therefore ladders attached to booms will not be considered.

These capabilities will be established in an unsupported configuration.

All structural load supporting elements of the aerial device that are made of a ductile material will have a design stress of not more than 50 percent of the minimum yield strength of the material based on the combination of the live load and the dead load. This 2:1 structural safety factor meets the current NFPA standard.

All structural load supporting elements of the aerial device that are made of non-ductile material will have a design stress of not more than 20 percent of the minimum ultimate strength of the material, based on the combination of the rated capacity and the dead load. This 5:1 safety factor meets the current NFPA standard.

Wire ropes and attaching systems used to extend and retract the fly sections will have a 5:1 safety factor based on the ultimate strength under all operating conditions. The factor of safety for the wire rope will remain above 2:1 during any extension or retraction stall. The minimum ratio of the diameter of wire rope used to the diameter of the sheave used will be 1:12. Wire ropes will be constructed of seven (7) strands over an inner wire core for increased flexibility. The wire rope will be galvanized to reduce corrosion.

The aerial base pivot bearings will be maintenance free type bearings and require no external lubrication.

The aerial device will be capable of sustaining a static load one and one-half times its rated tip load capacity (live load) in every position in which the aerial device can be placed when the vehicle is on a firm level surface.

The aerial device will be capable of sustaining a static load one and one-third times its rated tip load capacity (live load) in every position the aerial device can be placed when the vehicle is on a slope of five degrees downward in the direction most likely to cause overturning.

With the aerial device out of the cradle and in the fully extended position at zero degrees elevation, a test load will be applied in a horizontal direction normal to the centerline of the ladder. The turntable will not rotate and the ladder will not deflect beyond what the product specification allows.

All welding of aerial components, including the aerial ladder sections, turntable, pedestal, and outriggers, will be in compliance with the American Welding Society standards. All welding personnel will be certified, as qualified under AWS welding codes.

The aerial device will be capable of operating in conditions of wind up to 50 mph and icing conditions of up to a 0.25" coating over the aerial structure.

All of the design criteria must be supported by the following test data:

- Strain gage testing of the complete aerial device
- Analysis of deflection data taken while the aerial device was under test load

The following standards for materials are to be used in the design of the aerial device:

- Materials are to be certified by the mill that manufactured the material
- Material testing that is performed after the mill test will be for verification only and not with the intent of changing the classification
- All welded structural components for the ladder will be traceable to their mill lots.

LADDER CONSTRUCTION

The ladder is comprised of four (4) sections.

The ladder will have the capability to support a minimum of 750 lb at the tip in the unsupported configuration, based upon 360 degree rotation, up to full extension and from -10 degrees to +77 degrees. If the set up requires the weight to be removed from the front axle to level the apparatus, there will be limited horizontal reach over the front of the cab. This shall prevent the apparatus from tipping on to the front axle.

The ladder (handrails, baserails, trusses, K-braces and rungs) will be constructed of high strength low alloy steel, minimum 100,000 pounds per square inch yield, with full traceability on all structural members.

Each section will be trussed diagonally, vertically and horizontally using welded steel tubing.

All ladder rungs are round and welded to each section utilizing "K" bracing for lateral and torsional rigidity.

The inside width dimensions of the ladder will be:

Base Section:	41.87"
Lower Mid Section:	34.88"
Upper Mid Section:	27.87"
Fly Section:	21.63"

The height of the handrails above the centerline of the rungs will be:

Base Section:	26.28"
Lower Mid Section:	22.68"
Upper Mid Section:	20.06"
Fly Section:	17.32"

The ladder will be designed to provide continuous egress for firefighters and civilians from an elevated position to the ground.

The egress section will be designed to maintain the rated load of the aerial device. It will be bolted on for easy replacement. There will be a lift eye welded on to each side of the egress.

VERTICAL HEIGHT

The ladder will extend to a minimum height of 107' above the ground at full extension and elevation. The measurement of height will be consistent with NFPA standards.

HORIZONTAL REACH

The rated horizontal reach will be 100'. The measurement of horizontal reach will be consistent with NFPA standards.

TURNTABLE

The upper turntable assembly will connect the aerial ladder to the turntable bearing. The steel structure will have a mounting position for the aerial elevation cylinders, ladder connecting pins, and upper turntable operator's position.

The turntable will be coated with a non-skid, chemical resistant material in the walking areas. The stepping surfaces will meet the skid-resistance requirements of the current NFPA standard.

The turntable handrails will be a minimum 42.00" high and will not increase the overall travel height of the vehicle. The handrails will be constructed from aluminum and have a slip resistant knurled surface. The turntable vertical handrail spacing will be designed with a 44.00" wide x 27.00" high opening to allow for equipment to pass through from the ground to the aerial ladder. The opening will be located at the center, rear of the turntable.

ELEVATION SYSTEM

Dual 5.50" diameter elevating cylinders will be mounted on the underside of the base section of the ladder, one (1) on each side. One (1) 2.25" diameter stainless steel pin will fasten each cylinder to the ladder and one (1) 2.50" diameter stainless steel pin will fasten each cylinder to the turntable. The pins will have 125,000 psi minimum yield strength and will be secured with 0.50" Grade 8 bolts with castle nut and cotter pin. The bolts are to ensure that the pins do not walk out of the mounting brackets on the turntable and base section.

The elevating cylinders will be mounted utilizing maintenance-free spherical bearings on both ends of the cylinders. The aerial base pivot bearings will be maintenance-free type bearings with no external lubrication required. The cylinders will function only to elevate the ladder and not as a structural member to stabilize the ladder side movement. The elevating cylinders will be provided with pilot-operated check valves on the barrel and rod side of the piston to prevent movement of the ladder in case of a loss of hydraulic pressure.

The operation envelope will be 10 degrees below horizontal to 77 degrees above horizontal.

The elevation system will be designed following NFPA standards. The elevation hydraulic cylinders will incorporate cushions on the upper limit of travel.

The lift cylinders will be equipped with integral holding valves located in the cylinder to prevent the unit from descending should the charged lines be severed, at any point within the hydraulic system and to maintain the ladder in the bedded position during road travel. The integral holding valves will NOT be located in the transfer tubes.

The elevation system will be controlled by the microprocessor. Linear transducers will measure the extension of the elevation cylinder. The microprocessor will provide the following features:

- Collision avoidance of the elevation system to prevent accidental body damage
- Automatic deceleration when the aerial device is lowered into the cradle
- Automatic deceleration at the end of stroke, in maximum raise and lower positions
- Deceleration of the aerial device at the limits of travel.

EXTENSION/RETRACTION SYSTEM

A hydraulically powered, extension and retraction system will be provided through dual hydraulic cylinders and wire ropes. Each set will be capable of operating the ladder in the event of a failure, of the other. The extension cylinder rod will be chrome plated to provide smooth operation of the aerial device and reduce seal wear. The extension/retraction cylinders will be equipped, with integral holding valves, to prevent the unit from retracting should the charged line be severed, at any point within the hydraulic system. The integral holding valves will NOT be located in the transfer tubes.

Wire ropes and attaching systems used to extend and retract the fly sections will have a 5:1 safety factor based on the ultimate strength under all operating conditions. The factor of safety for the wire rope will remain above 2:1 during any extension or retraction stall. The minimum ratio of the diameter of wire rope used to the diameter of the sheave used will be 1:12. Wire ropes will be constructed of seven (7) strands over an inner wire for increased flexibility. The wire rope will be galvanized to reduce corrosion.

The extension/retraction system will be controlled by the microprocessor. Linear transducers will measure the ladder extension. The microprocessor will provide the following features:

- Automatic deceleration at the end of stroke, in maximum extend and retract positions

All sheaves will require lubrication. They will have bronze bushings and grease zerks.

MANUAL OVERRIDE CONTROLS

Manual override controls will be provided for all aerial and stabilizer functions.

LADDER SLIDE MECHANISM

UHMW polyethylene wear pads will be used between the telescoping ladder sections, to provide greater bearing surface area for load transfer. Adjustable slide pads will be used to control side play between the ladder sections.

ROTATION SYSTEM

The aerial will be supplied with a powered rotation system as outlined in NFPA standards. The hydraulic rotation motor will provide continuous rotation under all rated conditions and be supplied with a brake to prevent unintentional rotation. One (1) hydraulically driven, planetary gear box with drive

speed reducers will be used to provide infinite and minute rotation control throughout the entire rotational travel. One (1) spring applied, hydraulically released disc type swing brake will be furnished to provide positive braking of the turntable assembly. Provisions will be made for emergency operation of the rotation system should complete loss of normal hydraulic power occur. The hydraulic system will be equipped with pressure relief valves which will limit the rotational torque to a nondestructive power. The gearbox will have a minimum continuous torque rating of 80,000 in. lbs. and a minimum intermittent rating of 160,000 in. lbs. The turntable bearing, ring gear teeth, pinion gear, planetary gearbox, and output shaft will be certified by the manufacturer of the components for the application.

The rotation system will be controlled by the microprocessor. The microprocessor will provide the following features:

- Collision avoidance to prevent accidental body damage
- Prevent the aerial from being rotated into an unstable condition.

ROTATION INTERLOCK

The microprocessor will be used to prevent the rotation of the aerial device to the side in which the stabilizers have not been fully deployed (short-jacked). The microprocessor will allow full and unrestricted use of the aerial, in the 180 degree area, on the side(s) where the stabilizers have been fully deployed. The system will also have a manual override to comply with the current edition of applicable NFPA standards.

LADDER CRADLE INTERLOCK SYSTEM

A ladder cradle interlock system will be provided through the microprocessor to prevent the lifting of the aerial device from the nested position until the operator places all the stabilizers in a load supporting configuration. A switch will be installed at the boom support to prevent operation of the stabilizers once the aerial has been elevated from the nested position..

AERIAL TORQUE BOX/PEDESTAL

The pedestal assembly will be a welded assembly made of high strength 0.25" plate. The vertical member will be a 0.375" reinforced wall cylinder with a 28.00" outside diameter and will connect the rotation bearing mounting plate to the lower substructure.

The pedestal assembly will be bolted to the chassis frame with 0.88" diameter Grade 8 bolts, and will be utilized to mount the outrigger jacks and reservoir for the aerial hydraulic system.

There will be a 5/8" gap between the torque box and the frame rails to promote drying of the surfaces and reduce the effect of corrosion.

LOAD CAPACITIES

The following load capacities will be established with the stabilizers at full horizontal extension and placed in the down position to level the truck and to relieve the weight from the tires and axles. Capacities will be based upon full extension and 360 degree rotation. If the set up requires the weight to be removed from the front axle to level the apparatus, there will be limited horizontal reach over the front of the cab. This will prevent the apparatus from tipping on to the front axle.

A load chart, visible at the operator's station, will be provided. The load chart will show the recommended safe load at any condition of the aerial device's elevation and extension.

50 MPH WIND CONDITIONS/WATERWAY DRY

Degrees of Elevation	-10 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 77
Egress	750	750	750	750	750	750	750	750
Fly	-	-	-	-	-	250	500	750
Upper Mid	-	-	-	-	250	500	1000	1000
Lower Mid	-	-	-	-	500	750	1000	1000
Base	-	-	-	500	500	1000	1000	1000

50 MPH WIND CONDITIONS/WATERWAY CHARGED

Degrees of Elevation	-10 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 77
Egress	500	500	500	500	500	500	500	500
Fly	-	-	-	-	-	250	500	500
Upper Mid	-	-	-	-	250	500	750	1000
Lower Mid	-	-	-	250	500	750	1000	1000
Base	-	-	250	500	750	1000	1000	1000

Reduced loads at the tip can be redistributed in 250 lb increments to the fly, mid, or base sections as needed.

The tip capacity will be reduced to zero when flowing water with the nozzle above the waterway centerline.

Side to side monitor travel will be reduced with a 50 mph wind rating on the device.

BOOM SUPPORT

A heavy-duty boom support will be provided for support of the ladder in the travel position. On the base section of the ladder, a stainless steel scuffplate will be provided where the ladder comes into contact with the boom support.

The boom support will be located just to the rear of the chassis cab.

AERIAL BOOM SUPPORT LIGHT

There will be one (1) Peterson, Model 393C, white incandescent light mounted on the boom support cradle. This light will be activated by the aerial master switch.

AERIAL BOOM PANEL

There will be one boom panel provided on each side of the aerial ladder base section. The boom panel will be painted #10 white.

The boom panels will be designed so no mounting bolts are in the face of the panel. This will keep the lettering surface free of holes.

FOLDING STEPS

One (1) set of folding steps will be provided at the tip of the ladder. An additional set of folding steps will be provided at the base of the fly section. The steps will be bright finished with a black tread coating on the stepping surface. Each step will have no integrated light.

AERIAL DEVICE RUNG COVERS

Each rung will be covered with a secure, heavy-duty, fiberglass pultrusion that incorporates an aggressive, no-slip coating.

The rung covers will be glued to each rung and will be easily replaceable should the rung cover become damaged.

The center portion of each rung cover will be black and the outside 2.00" edge at each side will be safety yellow.

Under no circumstances will the rung covers be fastened to the rungs using screws or rivets.

The rung covers will have a 10-year, limited warranty.

STABILITY TEST

An aerial stability test will be run on the apparatus using the maximum weight allowance for tip options.

LADDER STORAGE MOUNTING BRACKETS

Mounting brackets for a single roof ladder will be provided on the right side of the aerial device while viewed from the turntable. A total of one (1) roof ladder(s) will be stored on the aerial base section. The bracket(s) will be located inboard of the boom panel at the base section and include straps to secure the ladder(s).

The mounting brackets will accommodate a 16' Duo-Safety 875-DR roof ladder(s) to be stored individually as determined by the type of aerial device and the available space.

STOKES STORAGE BOX

There will be one (1) aluminum storage box(es) provided at the base section of the aerial ladder on the left side of the aerial device while viewed from the turntable. The box(es) will be painted to match the aerial device. The box(es) will be located in place of the aerial boom panel and have a hinged cover with pair of rubber draw latches to secure the stokes basket. The cover will have the same finish as the box. The cover will be tied in to the open door indicator circuitry when in the open position. The box(es) will have no louvers.

The size of the stokes basket will be 88.00" long x 26.50" wide x 9.25" high.

The maximum capacity of each box will be 75 lb.

LIGHTS FOR TURNTABLE WALKWAY

There will be white LED lights provided at the aerial turntable. The lights will be located to illuminate the entire walking surface of the turntable including the area around the turntable console. These lights will be activated by the aerial master switch.

TURNTABLE CONSOLE LIGHTING

There will be one (1) TecNiq, Model T10, white LED light strip mounted in the turntable console cover to illuminate the controls located on both the upper and lower portion of the turntable control station. These lights will be activated by the aerial master switch.

ROTATION BEARING COVER

A cover will be fitted over the aerial rotation bearing and drive pinion gear(s). The cover will be aluminum treadplate and attached to the underside of the turntable deck.

INFORMATION CENTER

There will be an information center provided. The information center will operate in temperatures from -40 to 158 degrees Fahrenheit. The information center will employ a Linux operating system and a 7.00" (diagonal measurement) LCD display. The LCD will have a minimum 1000nits rated, color display. The LCD will be sunlight readable. The LCD display will be encased in an ABS, gray plastic housing with a Pierce decal. There will be five (5), weather-resistant user interface switches provided. The LCD display can be changed to an available foreign language.

Operation

The information center will be designed for easy operation in everyday use. There will be a page button to cycle from one screen to the next screen in a rotating fashion. A video button will allow an NTSC signal into the information center to be displayed on the LCD. If any button is pressed while viewing a video feed, the information center will return to the vehicle information screens. There will be a menu button to provide access to maintenance, setup, and diagnostic screens. All other button labels will be specific to the information being viewed.

General Screen Design

Where possible, background colors will be used to provide vehicle information *At A Glance*. If the information provided on a screen is within acceptable limits, a green background color will be used. If the information provided on a screen is not within acceptable limits, an amber background color will indicate a caution condition and a red background color will indicate a warning condition.

Every screen in the information center will include the aerial tip temperature, the time (12- or 24-hour mode) and a text Alert Center. The time will be synchronized between all Command Zone color displays located on the vehicle. The Alert Center will display text messages for audible alarms. The text messages will identify any items causing the audible alarm to sound. If more than one (1) audible alarm is activated, the text message for each alarm will cycle every second until the problems have been resolved. The background for the Alert Center will change to indicate the severity of the warning message. Amber will indicate a caution condition and red will indicate a warning condition. If a warning and a caution condition occur simultaneously, the red background color will be shown for all Alert Center messages.

A label will be provided for each button. The label will indicate the function for each active button for each screen. If the button is not utilized on specific screens, it will have a button label with no text.

Symbols will accurately depict the aerial device type the information pertains to such as rear mount ladder, rear mount platform, mid-mount ladder or mid-mount platform.

Page Screens

The Information center will include the following pages:

The Aerial Main and Load Chart page will indicate the following information:

Rungs Aligned and Rungs Not Aligned will be indicated with text and respective green or red colored ladder symbols.

Ladder Elevation will be indicated via a fire apparatus vehicle with ladder symbol with the degree of elevation indicated between the vehicle and ladder.

Water Flow (if applicable) will be indicated via a water nozzle symbol and text indicating flow / time.

Breathing Air Levels will be indicated via an air bottle symbol and text indicating the percent (%) of air remaining. A green bar graphs shown inside the bottle will indicate oxygen levels above 20 percent. A red bar graph will indicate oxygen levels at or below 20 percent. When oxygen levels are at or below 10 percent the red bar graph will flash.

The Aerial Load Chart will indicate the load limit on each section of the ladder based on actual ladder position and water flow (if applicable).

At A Glance color features will be utilized on this screen. Caution type conditions will be indicated via a yellow background. Warning type conditions will be indicated via a red background. Conditions operating within acceptable limits will be indicated via a green background.

The Aerial Reach and Hydraulic Systems page will indicate the following information:

Aerial Hydraulic Oil Temperature will be indicated with symbol and text. At a glance features will be utilized.

Aerial Hydraulic Oil Pressure will be indicated with a symbol and text. At a glance features will be utilized.

The following calculations will be indicated on a representative vehicle symbol:

Aerial Device Extension length

Aerial Device Height indicating the height of the aerial device tip from the ground.

Aerial Device Reach indicating the horizontal distance the aerial reaches from the turntable.

Aerial Device Angle indicating the angle from the vehicle which the device is at.

At A Glance color features will be utilized on this screen. Caution type conditions will be indicated via a yellow background. Warning type conditions will be indicated via a red background. Conditions operating within acceptable limits will be indicated via a green background.

The Level Vehicle page will indicate the following information:

The grade of the vehicle will be indicated via a fire apparatus vehicle symbol with the degree of grade shown in text format. The symbol will tilt dependent on the vehicle grade.

The slope of the vehicle will be indicated via a fire apparatus vehicle symbol with the degree of slope shown in text format. The symbol will tilt dependent on the vehicle slope.

Outriggers status will be indicated via a colored symbol for each outrigger present. Each outrigger status will be defined as one of the following:

Outrigger stowed indicated with a silver pan located close to the vehicle

Outrigger fully extended indicated with a fully deployed green outrigger

Outrigger short-jacked indicated by a yellow outrigger partially deployed

Outrigger not set indicated by a red outrigger that is not set on the ground

A text box located on the vehicle symbol will be utilized to identify the overall status of the outrigger leveling system. The following status will be indicated in the text box:

Deployed status will indicate all outriggers are properly set on the ground at full extension

Shortjacked status will indicate one or more outriggers are set on the ground but not fully extended.

Not Set status will indicate one or more outriggers is not properly set on the ground.

Stowed status will indicate all outriggers are stowed for vehicle travel.

A bedding assist alert will indicate that the aerial device is being aligned by the Command Zone system as the operator lowers the aerial device into the cradle with the joystick.

At A Glance color features will be utilized on this screen. Caution type conditions will be indicated via a yellow background. Warning type conditions will be indicated via a red background. Conditions operating within acceptable limits will be indicated via a green background.

Menu Screens

The following screens will be available through the Menu button:

- The View System Information screen will display aerial device hours, aerial PTO hours, ladder aligned for stowing, aerial rotation angle, total water flow (if applicable), and aerial waterway valve status (if applicable).
- The Set Display Brightness screen will allow brightness increase and decrease and include a default setting button.

- The Configure Video Mode screen will allow setting of video contrast, video color and video tint.
- The Set Startup screen allows setting of the screen that will be active at vehicle power-up.
- The Set Date and Time screen has a 12- or 24-hour format, and allows setting of the time and date.
- The View Active Alarms screen shows a list of all active alarms including the date and time of each alarm occurrence and shows all alarms that are silenced.
- The System Diagnostics screen allows the user to view system status for each module and it's respective inputs and outputs. Viewable data will include the module type and ID number; the module version; and module diagnostics information including input or output number, the circuit number connected to that input or output, the circuit name (item connected to the circuit), status of the input or output, and other module diagnostic information.
- Aerial calibrations screen indicates items that may be calibrated by the user and instructions to follow for proper calibration of the aerial device.

Button functions and button labels may change with each screen.

Lower Control Station

A lower control station will be located at the rear of the apparatus in an easily accessible area. The controls and indication labels will be illuminated for nighttime operation. The following items will be furnished at the lower control station and will be clearly identified and conveniently located for ease of operation and viewing:

- Level assist switch
- Override switch to override microprocessor
- Emergency power unit switch

Turntable Control Station

There will be one (1) device control station located on the left side of the turntable so the operator may easily observe the ladder tip while operating the controls. All elevation, extension and rotation controls will operate from this location. The controls will permit the operator to regulate the speed of the aerial functions, within the safe limits, as determined by the manufacturer and NFPA standards. Each control will be equipped, with a positive lock to hold the control in a neutral position, preventing accidental activation. In addition to the neutral lock, a console cover will be provided at the turntable control station. The controls will be so designed to allow the turntable control station to immediately override the tip controls, if equipped, even if the ladder is being operated by the tip controls.

The following items will also be provided at the turntable control station, clearly identified, lighted for nighttime operation and conveniently located for ease of operation and viewing:

- Intercom controls
- Tip tracking light switch
- Emergency stop switch
- Emergency power unit switch
- Operator's load chart
- Two (2) position switch for selecting aerial operational speed

High Idle

The high idle will be controlled by the microprocessor. The microprocessor will automatically adjust the engine rpm to compensate for the amount of load placed upon the system. The system will include a safety device that allows activation of the high idle, only when the parking brake is set and the transmission is placed in neutral.

STABILIZERS

The vehicle will come equipped with a stabilization system consisting of four (4) hydraulically operated stabilizers. The front two (2) will be out and down style, the rear two (2) will be down only. This system will meet or exceed all requirements of the NFPA specifications related to stabilization and setup on sloped surfaces.

The stabilizer/leveling jacks will have a maximum spread of 16' measured from the centerline of the jack footpads when the beams are fully extended. The beams will be 6.88" wide x 9.00" high with 3/4" thick top and bottom plates and 1/2" thick sides of 100,000-PSI minimum yield strength steel. The cylinders will have pilot-operated check valves with thermal relief designed to insure that the beams will not drift out of the stowed position during travel. Wear pads will guide the stabilizers.

The horizontal extension cylinders will be totally enclosed within the beams and will incorporate telescoping hydraulic tubing to supply the jack cylinder hydraulic power. Stabilizer hydraulic hoses will remain stationary during operation of the stabilizers to prevent hose wear and potential failure. The cylinders will be equipped with decelerators to reduce the speed of extension and retraction when the beams are near the fully retracted and extended positions. The stabilizer extension hydraulic cylinders will have the following dimensions: 2.25" bore, 1.38" rod, and 39.25" stroke.

The vertical jack cylinders will be capable of 18.00" ground penetration. The cylinders will be supplied with pilot operated check valves on each jack cylinder to hold the cylinder in the stowed or working position, should a charged line be severed at any point in the hydraulic system. For safety, the integral holding valves will be located in the cylinder base, NOT in the transfer tube. Vertical jack cylinder rods will be fully enclosed by a telescoping inner box to protect the cylinder rods from damage. The stabilizer jack hydraulic cylinders will have the following dimensions: 4.25" bore, 3.00" rod, and 28.88" stroke.

Each stabilizer jack will have a pan that will be a maximum of 14.00" wide so as to allow the extension of the stabilizer between parked cars or other obstacles. This pan will serve as a protective guard and a mounting surface for warning lights. The top, forward, and rear edges will be flanged back 90 degrees for added strength.

STABILIZER PADS

The stabilizer footpad will be 12.00" in diameter. The footpad will be attached to the jack cylinder rod by means of a machined ball at the end of the jack cylinder rod which mates to a socket machined into the footpad. The footpad will have the ability to pivot 20 degrees from horizontal in any direction to allow setup on uneven terrain.

AUXILIARY STABILIZER PADS

An auxiliary ground pad will be supplied for each stabilizer to provide additional load distribution on soft surfaces. The pads will be 31.00" x 26.00" and made from lightweight composite material. The ground pressure will not exceed 75 lb per square inch when the ground pads are used and the apparatus is fully loaded and the aerial device is carrying its rated capacity in any position. The pads will be stored in a double stacked configuration, two (2) behind each rear tandem axle in a single bracket.

STABILIZER CONTROLS

A portable stabilizer control box will be provided. The control box will be weatherproof and oil resistant. Each function and indicator light will be labeled on a metal photo panel. The control box can be taken as far away as 15' from the vehicle with an extension cable.

The stabilizer control box will include the following:

- One (1) green power indicator light for stabilizer control that will be illuminated when the aerial master and "PTO" switches in the cab are activated.
- Four (4) electric toggle switches for stabilizers: Each toggle switch will control the extend/retract (front only) and raise/lower of its respective stabilizer to allow vehicle set up in restricted areas and/or on uneven surfaces.
- Auto leveling assist switch: The outrigger control system will incorporate a computerized self leveling system in addition to the standard outrigger controls. The operator will have the option to manually or automatically level the truck. The computerized system will ensure full outrigger extension, proper jack penetration, and will level the vehicle within 1/2 a degree of level for safe operation of the aerial device.
- One (1) electric toggle switch for the engaging the emergency power unit.
- One (1) red "stabilizer not stowed" indicator light: This light will illuminate when the stabilizers are not in the fully stowed position.
- Two (2) fully extended beams green indicator lights: These lights will be illuminated when each of the respective stabilizer beams are fully extended.
- Four (4) firm on ground green indicator lights: Each light will be illuminated when its respective stabilizer shoe is in the load supporting condition.

Each toggle switch will activate the engine fast idle automatically.

Manual override will be supplied for each stabilizer control valve.

A stabilizer deployment audible warning alarm will be provided and activated by the stabilizer movement.

A "Stabilizers Not Stowed" indicator will be provided in the driver's compartment. It will illuminate automatically whenever the stabilizers are not fully stowed to prevent damage to the apparatus if moved. The stabilizer system will also be wired to the "Do Not Move Indicator Light", which will flash whenever the apparatus parking brake is not fully engaged and the stabilizers are not fully stowed.

CRADLE INTERLOCK SYSTEM

A cradle interlock system will be provided, to prevent the lifting of the aerial from the nested position, until the operator has positioned all the stabilizers in a load supporting configuration. A switch will be installed at the cradle, to prevent operation of the stabilizers once the aerial has been elevated from the nested position.

STABILIZER PAN AND TRIM MATERIAL

The aerial stabilizer pans will be polished stainless steel and the aerial stabilizer trim will be polished stainless steel.

STABILIZER CONTROL BOX DOOR

A vertically hinged smooth aluminum door will be provided over the stabilizer control box. The door will be hinged along the outboard edge and be provided with a Southco C2 chrome raised trigger lever latch.

HYDRAULIC SYSTEM

All hose assemblies will be assembled and crimped by the hose manufacturers certified technician.

All manufacturing employees responsible for the installation of hydraulic components will be properly trained. Training will include: proper handling, installation, torque requirements, cleanliness and quality control procedures for hydraulic components.

Hoses used in the aerial hydraulic system will be of a premium quality hose with a high abrasion resistant cover. All pressure hoses will have a working pressure of 4000 psi and a burst pressure rating of 16,000 psi.

All hydraulic fittings and tubing will be plated to minimize corrosion.

The fitting will use an O-ring seal where possible to minimize hydraulic leaks.

An interlock will be provided that prevents activation of the hydraulic pump until the transmission is placed in neutral and the parking brake is set as outlined in the current NFPA standard.

The system will meet the performance requirement of the current NFPA standard, which requires adequate cooling less than 2.5 hours of operations.

All hydraulic components that are non-sealing whose failure could result in the movement of the aerial will comply with current NFPA standards and have burst strength of 4:1.

Dynamic sealing components whose failure could cause aerial movement will have a margin of 2:1 on maximum operating pressure per the current NFPA standard.

All hydraulic hoses, tubes, and connections will have a minimum burst strength of 4:1 per the current NFPA standard.

A chassis mounted positive displacement piston pump for consistent pressure and rapid responses will supply hydraulic power for all aerial operations. The positive displacement pump will provide 3,150psi. The hydraulic pump will be solely dedicated to aerial operations.

Each aerial will be evaluated as to the region and climate where it will be used to determine the optimum viscosity and proper oil grade. Oil viscosity will be based on an optimum range of 80 to 1000 SUS during normal aerial use. Before shipment of the unit, an oil sample will be taken and analyzed to confirm the oil is within the allowable ISO grade tolerance.

The aerial hydraulic system will have a minimum oil cleanliness level of ISO 18/15/13 based on the ISO 4406:1999 cleanliness standard. Each customer will receive a certificate of actual cleanliness test results and an explanation of the rating system.

Each aerial will include an oil sample port, identified with a yellow dust cap and a label, for subsequent customer testing.

Ball valves will be provided in the hydraulic suction lines to permit component servicing without draining the oil reservoir.

The aerial will incorporate the use of trombone steel tubes inside the stabilizer beams to eliminate hydraulic hose wear and leaks.

Hydraulic power to the ladder will be transferred from the pedestal by a hydraulic swivel.

The system hydraulic pressure will be displayed on the turntable display.

The hydraulic system will be additionally protected from excessive pressure by a secondary pressure relief valve set at 3,150 psi. In the event the main hydraulic pump compensator malfunctions, the secondary relief will prevent system damage.

HYDRAULIC CYLINDERS

All cylinders used on the aerial device will be produced by a manufacturer that specializes in the manufacture of hydraulic cylinders.

Each cylinder will include integral safety holding cartridges.

Each cylinder will be designed to a minimum safety factor of 4:1 to failure.

All safety holding cartridges will be installed at the cylinder manufacturer, in a controlled clean environment to avoid possible contamination and or failure.

POWER TAKEOFF/HYDRAULIC PUMP

The apparatus will be equipped with a power takeoff driven by the chassis transmission and actuated by an electric shift, located inside the cab. The power takeoff which drives the hydraulic pump will meet all the requirements for the aerial unit operations.

Am amber indicator light will be installed on the cab instrument panel to notify the operator that the power takeoff is engaged.

An interlock will be provided that allows operation of aerial power only after the chassis spring brake has been set and the chassis transmission has either been placed in the neutral position or drive position after the driveline has been disengaged from the rear axle.

The hydraulic system will be supplied by a variable displacement load and pressure compensating piston pump. The pump will meet the demands of all three simultaneous aerial functions. The pump will provide proper flow for single aerial function with the engine at idle speed. A switch will be provided on the control console to increase the engine speed for multiple function operation.

EMERGENCY PUMP

The hydraulic system will be designed with an auxiliary power unit meeting the guidelines of the current NFPA standard.

The aerial will be equipped with an emergency hydraulic pump, electrically driven from the truck batteries. The pump will be capable of running for 30 minutes for limited aerial functions to stow the unit in case of a main pump or truck system failure. A momentary switch will be located at the stabilizer and aerial control locations to activate the emergency pump.

AERIAL CONTROL VALVE

The aerial hydraulic control valve will be designed with special spool flows, limiting the oil flow for the designed function speed. The valve will be electrically controlled and be located in the control console with the handles oriented downward for manual operation. The activation handles will be spaced a minimum of 3.50" for ease of operation. The valve spools will be designed to bleed off downstream pressure, in the neutral position and allow proper sealing of any cylinder holding cartridge.

OIL RESERVOIR

The oil reservoir will have a minimum capacity of 38 gallons. The oil fill location will be easily accessible and be labeled "Hydraulic Oil Only" and also indicate the grade of oil that is installed in the reservoir. The fill will have a desiccant breather filter with a water capacity of 4 fluid ounces and a 5 micron rating. A drain hose will be included and will terminate with a quarter turn ball valve.

Two suction ports will be provided, one for the main hydraulic pump and one for the emergency pump. The main suction will be slightly elevated off the bottom of the reservoir and include a 100 mesh suction strainer. The emergency suction port will be closer to the bottom of the reservoir to provide some reserve oil for emergency operation.

A six (6) disc type magnetic drain will also be provided to collect any ferrous contaminants.

A float type sending unit in the reservoir will provide an indication of oil level on an electronic display. A temperature sending unit in the reservoir will provide indication of the oil temperature on an electronic display.

The hydraulic oil reservoir will be labeled per the current edition of NFPA standard.

RETURN FILTER

The low pressure oil return filter will be integrated with the hydraulic manifold and designed to prevent oil loss during filter change. A 50 psi bypass will be included to protect the element and hydraulic system during lower than normal operating temperatures. The system will incorporate the following filter to provide dependable service:

- return filter: beta 200 at 6 micron

HYDRAULIC SWIVEL

The aerial ladder will be equipped with a three (3) port, high pressure hydraulic swivel which will connect the hydraulic lines from the hydraulic pump and reservoir through the rotation point to the aerial control bank. The hydraulic swivel will allow for 360 degree continuous rotation of the aerial.

ELECTRIC SWIVEL

The ladder will be equipped with an electric swivel to allow 360 degrees rotation of the aerial while connecting all electrical circuits through the rotation point. A minimum of 28 collector rings will be provided that are capable of supplying 30 amp continuous service. All collector rings will be enclosed and protected with desiccant plugs against condensation and corrosion. No oil or silicone will be used.

12-BIT ABSOLUTE ENCODER

The aerial ladder will be equipped with a 12-Bit Absolute Encoder which provides 4096 counts per shaft turn for position and direction reference.

The 12-Bit Absolute Encoder will provide a unique binary word to reference each position and direction for all 360 degrees of rotation.

If the power is interrupted for any reason, the 12-Bit Absolute Encoder will allow power to be returned to the system without having to re-zero the settings.

The 12-Bit Absolute Encoder will be an integral part of a micro-processor based control system.

ELECTRICAL SYSTEM

The standard 8 conductor cable to the tip contains 10 AWG conductors.

The 107' heavy duty ladder will utilize a microprocessor-based control system. The system will consist of the following components:

A tethered stabilizer control will be provided. The tethered control will be weatherproof and oil resistant. A Super Bright LED indicator light will be labeled on a metal photo panel for each function. The electrical connection at the tethered control will be permanently attached by a strained relieved coil cord that will allow the operator to move 14' away from the electrical connection for operation.

- Remote Stabilizer Controls
- Weatherproof and oil resistant
- One (1) green "power" indicator light
- One (1) red "stabilizer not stowed" indicator light
- One (1) electric toggle switch for auto level assist
- One (1) electric toggle switch for the emergency power unit
- One (1) electric toggle switch for each stabilizer to control:
    - Extend/retract function (front only)
    - Raise/lower function
- One (1) green "stabilizer fully extended" indicator light for each front stabilizer
- One (1) green "firm on ground" indicator light for each stabilizer

Control System Modules

Each of the control system modules will be configured as follows:

- Sealed to a NEMA 4 rating
- Operating range from -40 degrees F to 185 degrees F (-40 degrees C to 85 degrees C)
- Communicate using J1939 data link
- Two (2) diagnostic LED light
    - One (1) green light that illuminates when module has power (B+) and ground
    - One (1) red light that flashes to indicate the module is capable of communicating via the data link
- Ground matrix identification system

The following control system modules will be used:

Control Module

- Main controller for the system
- USB connection allows for computer diagnostics

Power Module

- Built-in fault sensing
- Eight (8) digital outputs
- Pulse width modulating (PWM) capable
- 10A continuous per output
- Circuit protection based on actual current draw (not affected by heat)

Constant Current Module

- Built-in fault sensing
- Three (3) analog inputs
- Eight (8) digital outputs
- Pulse width modulating (PWM) capable
- 3A continuous per output
- Circuit protection based on actual current draw (not affected by heat)
- Closed Loop System

Input Module

- 16 software selectable (digital or analog) inputs

Output Module

- 16 digital outputs

Input/Output Module

- Eight (8) software selectable (digital or analog) inputs
- Eight (8) digital outputs

TIP LIGHT

There will be two (2) Whelen® Model MP**, 5,695 lumens 12 volt DC LED lights installed at the tip of the aerial device.

One (1) will be located on the left side with left side tip light to include spot optics.

One (1) will be located on the right side with right side tip light to include spot optics.

- The light(s) to be installed on adjustable bail bracket(s).
- The painted parts of this light assembly to be black

The lights will be controlled with the tracking lights.

TRACKING LIGHTS

There will be two (2) Whelen® MP**, 5,695 lumens 12 volt DC LED lights installed on the base section of the aerial device below the hand rails per the following:

- One (1) will be located on the left side with left side tracking light to include spot optics.
- One (1) will be located on the right side with right side tracking light to include spot optics.
- The light(s) to be installed on adjustable bail bracket(s).
- The painted parts of this light assembly to be black.

The tracking lights will be controlled by a switch located at the platform/tip, turntable, driver side cab switch panel and when the aerial master switch is active.

LIGHTING ON AERIAL LADDER

There will be TecNiq, Model D02 LED rung lighting provided on both sides of the aerial ladder base, lower and upper mid, and fly sections. The lighting will be located adjacent to the ladder rungs along the lower rail of the ladder sections and will run the length of the ladder section.

The color of the sections will be:

- The base section of the ladder to be green.
- The lower mid section of the ladder to be green.
- The upper mid section of the ladder to be green.
- The fly section of the ladder, excluding the egress, to be green.

The LED rung lighting will be activated when a switch at the turntable operator's panel is activated through the aerial master and a switch at the turntable operator's panel is activated through the master battery switch.

The lights may be load managed when the parking brake is applied.

STABILIZER WARNING LIGHTS
There will be our (4) Whelen®, Model M6*C, LED flashing warning lights with Whelen, Model M6FC, chrome flanges installed, one (1) on each stabilizer cover panel.

- The front stabilizer pan lights will be red LED with a clear lens
- The rear stabilizer pan lights will be red LED with a clear lens

These warning lights will be activated by the same switch as the side warning lights.

STABILIZER BEAM WARNING LIGHTS
Two (2) 4.00" diameter red LED flashing lights will be mounted on each stabilizer, one (1) facing forward and one (1) facing rearward. The lights will be Grote Supernova 40 series LED lights. The lights will be recessed in the horizontal beam of the stabilizer. These warning lights will be activated with the aerial master switch.

STABILIZER SCENE LIGHTS
There will be one (1) Truck-Lite, Model 40227C 4.00" incandescent, scene light installed under each stabilizer beam to illuminate the surrounding area. A total of four (4) lights will be installed. These lights will be activated by the aerial master switch.

DC POWER CABLE TO TIP
There will be a cable installed in the aerial device to provide 13.92 amps @ 12 volts DC to the tip of the aerial device.

2-WAY AERIAL COMMUNICATION SYSTEM
There will be a Fire Research, Model ICA910, two-way intercom system provided. The control module with an LED volume display and push-button volume control will be located on the turntable operator console.

A hands free module will be located at the aerial tip or platform and constantly transmit to the other module unless the control module push-to-talk button is pressed.

Each intercom unit will be weatherproof.

RAISED AERIAL PEDESTAL
The aerial pedestal will be raised to accommodate the height of the cab.

LIFTING EYE ASSEMBLY - ROPE RESCUE ATTACHMENT
A lifting eye assembly will be provided that is designed to evenly distribute load at the tip of the aerial. The lift eye assembly is retained by two (2) locking pins, one (1) at each end outboard side of the egress. Leveling is maintained by the lifting eye assembly rotating within the egress mounting. The lifting eye assembly rating will match the capacity rating of the aerial device.

AERIAL TURNTABLE MANSAVER™ BARS
Yellow ManSaver™ bars will be installed at the aerial turntable.

WATER SYSTEM
A waterway system will be provided consisting of the following components and features:

A 5.00" pipe will be connected to the water supply on one end and to a 5.00" internal diameter water swivel at the rotation point of the turntable. The water swivel will permit 360 degree continuous rotation of the aerial device.

The 5.00" waterway swivel is to be routed through the rotation point up to the heel pin swivel. The heel pin swivel will allow the water to flow to the ladder pipe while elevating the aerial ladder from -10 degrees to 77 degrees. The heel pivot pin is not integral with the waterway swivel at any point. The design of the waterway will allow complete servicing of the waterway swivel without disturbing the heel pivot pin.

The integral telescopic water system will consist of a 4.50" diameter tube in the base section, a 4.00" diameter tube in the inner mid-section, a 3.50" diameter tube in the outer mid-section, and a 3.00" diameter tube in the fly section. The telescopic waterway will be constructed of anodized aluminum pipe.

The aerial will be capable of discharging up to 1000 gpm at 100 psi parallel to the ladder and 90 degrees to each side of center while maintaining the rated tip load.

The aerial will be capable of discharging between 1001 and up to 1500 gallons per minute at 100 psi parallel to the ladder and 40 degrees to each side of center while maintaining the rated tip load.

The master stream will be capable of flow up to 30 degrees above horizontal.

An adjustable pressure relief valve will be furnished to protect the aerial waterway from a pressure surge.

A 1.50" drain valve will be located at the lowest point of the waterway system.

WATERWAY SEALS

The waterway seals will be of type-B PolyPak design, composed of nitroxile seal and a nitrile wiper, which together offer maximum stability and extrusion resistance on the waterway. The seal will be capable of withstanding pressures up to 2000 psi, temperatures in excess of 250 degrees Fahrenheit and have resistance to all foam generating solutions. The seals will be internally lubricated.

The waterway seals will have automatic centering guides constructed of synthetic thermalpolymer. The guides will provide positive centering of the extendible sections within each other and the base section to insure longer service life and smoother operation.

AERIAL MONITOR

An Akron Model 3480 monitor with stow and deploy will be provided at the tip with a Akron 1500 gpm Model 5178. This monitor will allow for an additional 30 degrees of travel above horizontal at the aerial tip.

The monitor's functions will be controlled electrically from two (2) separate locations. One (1) control will be located at the control console and the other at the ladder tip.

There will be a courtesy light at the tip of the aerial to illuminate the controls.

If the aerial has a quick-lock waterway, a limit switch will be provided to disable the extended vertical travel when the monitor is locked to the lower ladder section.

AERIAL WATERWAY FLOW METER
Waterway flow, including total water flowed, will be monitored by the microprocessor. An LCD display will be located at the turntable control station.

REAR INLET
A 5.00" NST inlet to the aerial waterway will be provided at the rear of the apparatus. It will be furnished with a 5.00" chrome plated adapter and a 5.00" chrome plated, long handle cap.

WATERWAY LOCKING SYSTEM
The aerial ladder waterway monitor will be capable of being positioned at either the fly section or at the next lower section of the ladder.

The monitor location will be changeable by the use of a single handle, located at the side of the ladder.

The handle, attached to a cam bracket, will simply be moved forward to lock the monitor at the fly section and back to lock it to the previous section.

There will be no pins to remove and reinstall.

The monitor will be operational at all times, regardless of its position, without connecting or disconnecting electrical lines.

TOOLS
The following tools will be provided for retorquing of all specified bolts as recommended by the manufacturer:

- Torque Wrench
- All Required Extensions, Sockets and Adapters
- 4-to-1 Multiplier

MANUALS
Two (2) operator maintenance manuals and two (2) wiring diagrams pertaining to the aerial device will be provided with the apparatus at time of pick-up. Manuals will be in the English language.

INITIAL INSTRUCTION
On initial delivery of the fire apparatus, the contractor will supply a qualified representative to demonstrate the apparatus and provide initial instruction to the fire department regarding the operation, care, and maintenance of the apparatus for a period of three (3) consecutive days.

LOOSE EQUIPMENT
The following equipment will be furnished with the completed unit:

- One (1) bag of chrome, stainless steel, or cadmium plated screws, nuts, bolts and washers, as used in the construction of the unit.

NFPA LOOSE EQUIPMENT

NFPA Required Loose Equipment Provided by Fire Department

The following loose equipment as outlined in NFPA 1900, 2024 edition, table 8.1 and CAN/ULC S515:2024 edition, section 5.2 will be provided by the fire department:

- One (1) traffic vest for each seating position, each vest to comply with ANSI/ISEA 107, *American National Standard for High-Visibility Safety Apparel and Accessories*, and have a five-point breakaway feature that includes two (2) at the shoulders, two (2) at the sides, and one (1) at the front.
- Five (5) fluorescent orange traffic cones not less than 28.00" (711 mm) in height, each equipped with a 6.00" (152 mm) retro-reflective white band no more than 4.00" (152 mm) from the top of the cone, and an additional 4.00" (102 mm) retro-reflective white band 2.00" (51 mm) below the 6.00" (152 mm) band.
- Five (5) illuminated warning devices such as highway flares, unless the five (5) fluorescent orange traffic cones have illuminating capabilities.
- Four (4) ladder belts meeting the requirements of NFPA 2500.

NFPA Loose Equipment That Should be Considered

The following loose equipment as outlined in NFPA 1900, 2024 edition, appendix table A.8.4 (a) and CAN/ULC S515:2024 edition, section 5.2 should be considered:

- 800 ft (240 m) of 2.50" (65 mm) or larger fire hose
- 400 ft (120 m) of 1.50" (38 mm), 1.75" (45 mm), or 2.00" (52 mm) fire hose
- One (1) handline nozzle, 200 gpm min
- Two (2) handline nozzles, 95 gpm min
- One (1) playpipe with shutoff and 1", 1.125", and 1.25" tips
- Four (4) SCBA apparatus
- Four (4) SCBA spare cylinders
- One (1) first aid kit.
- Four (4) salvage covers, each a minimum size of 12 ft × 18 ft (3.6 m × 5.5 m).
- Four (4) combination spanner wrenches.
- Two (2) hydrant wrenches.
- One (1) double female 2.50" adapter with national hose (NH) thread.
- One (1) double male 2.50" adapter with national hose (NH) thread.
- One (1) rubber mallet, suitable for use on suction hose connections.
- One (1) 150 ft (45 m) light-use life safety rope meeting the requirements of NFPA 2500.
- One (1) 150 ft (45 m) general-use life safety rope meeting the requirements of NFPA 2500.
- One (1) automatic external defibrillator (AED).

SOFT SUCTION HOSE
There will be a 15' length of 6.00" soft suction hose provided with a 6.00" long handle swivel coupling on one (1) end and a 4.50" long handle swivel coupling on the other.

DRY CHEMICAL EXTINGUISHER PROVIDED BY FIRE DEPARTMENT
The extinguisher is not on the apparatus as manufactured. The fire department will provide and mount the extinguisher.

WATER EXTINGUISHER PROVIDED BY FIRE DEPARTMENT
The extinguisher is not on the apparatus as manufactured. The fire department will provide and mount the extinguisher.

FLATHEAD AXE PROVIDED BY FIRE DEPARTMENT
The axe is not on the apparatus as manufactured. The fire department will provide and mount the axe.

PICKHEAD AXE PROVIDED BY FIRE DEPARTMENT
The axe is not on the apparatus as manufactured. The fire department will provide and mount the axe.

PAINT PROCESS
The exterior custom cab and body painting procedure will consist of a seven (7) step finishing process as follows:

1. Manual Surface Preparation - All exposed metal surfaces on the custom cab and body will be thoroughly cleaned and prepared for painting. Imperfections on the exterior surfaces will be removed and sanded to a smooth finish. Exterior seams will be sealed before painting. Exterior surfaces that will not be painted include; chrome plating, polished stainless steel, anodized aluminum and bright aluminum treadplate.
2. Chemical Cleaning and Pretreatment - All surfaces will be chemically cleaned to remove dirt, oil, grease, and metal oxides to ensure the subsequent coatings bond well. The aluminum surfaces will be properly cleaned and treated using a high pressure, high temperature 4 step Acid Etch process. The steel and stainless surfaces will be properly cleaned and treated using a high temperature 3 step process specifically designed for steel or stainless. The chemical treatment converts the metal surface to a passive condition to help prevent corrosion.
3. Surfacer Primer - The Surfacer Primer will be applied to a chemically treated metal surface to provide a strong corrosion protective basecoat. A minimum thickness of 2 mils of Surfacer Primer is applied to surfaces that require a Critical aesthetic finish. The Surfacer Primer is a two-component high solids urethane that has excellent sanding properties and an extra smooth finish when sanded.
4. Finish Sanding - The Surfacer Primer will be sanded with a fine grit abrasive to achieve an ultra-smooth finish. This sanding process is critical to produce the smooth mirror like finish in the topcoat.
5. Sealer Primer - The Sealer Primer is applied prior to the Basecoat in all areas that have not been previously primed with the Surfacer Primer. The Sealer Primer is a two-component high solids urethane that goes on smooth and provides excellent gloss hold out when topcoated.
6. Basecoat Paint - Two coats of a high performance, two component high solids polyurethane basecoat will be applied. The Basecoat will be applied to a thickness that will achieve the

proper color match. The Basecoat will be used in conjunction with a urethane clear coat to provide protection from the environment.

7. Clear Coat - Two (2) coats of Clear Coat will be applied over the Basecoat color. The Clear Coat is a two-component high solids urethane that provides superior gloss and durability to the exterior surfaces. Lap style and roll-up doors will be Clear Coated to match the body. Paint warranty for the roll-up doors will be provided by the roll-up door manufacturer.

After the cab and body are painted, the color will be verified to make sure that it matches the color standard. Electronic color measuring equipment will be used to compare the color sample to the color standard entered into the computer. Color specifications will be used to determine the color match. A Delta E reading will be used to determine a good color match within each family color.

All removable items such as brackets, compartment doors, door hinges, and trim will be removed and painted separately if required, to ensure paint behind all mounted items. Body assemblies that cannot be finish painted after assembly will be finish painted before assembly.

The paint finish quality levels for critical areas of the apparatus (cab front and sides, body sides and doors, and boom lettering panels) are to meet or exceed Cadillac/General Motors GMW15777 global paint requirements. Orange peel levels are to meet or exceed the #6 A.C.T. standard in critical areas. The manufacturer's written paint standards will be available upon request.

Environmental Impact

Contractor will meet or exceed all current state regulations concerning paint operations. Pollution control will include measures to protect the atmosphere, water and soil. Controls will include the following conditions:

- Topcoats and primers will be chrome and lead free.
- Metal treatment chemicals will be chrome free. The wastewater generated in the metal treatment process will be treated on-site to remove any other heavy metals.
- Particulate emission collection from sanding operations will have a 99.99 percent efficiency factor.
- Particulate emissions from painting operations will be collected by a dry filter or water wash process. If the dry filter is used, it will have an efficiency rating of 98 percent. Water wash systems will be 99.97 percent efficient.
- Water from water wash booths will be reused. Solids will be removed on a continual basis to keep the water clean.
- Paint wastes are disposed of in an environmentally safe manner.
- Empty metal paint containers will be recycled to recover the metal.
- Solvents used in clean-up operations will be recycled on-site or sent off-site for distillation and returned for reuse.

Additionally, the finished apparatus will not be manufactured with or contain products that have ozone depleting substances. Contractor will, upon demand, present evidence that the manufacturing facility meets the above conditions and that it is in compliance with his state EPA rules and regulations.

TWO-TONE CAB PAINT
The cab will be painted two-tone with the upper section painted #101 black and the lower section painted #90 red. There will be a standard two-tone cab paint break provided.

There will be a standard cab shield provided.

BODY PAINT
The body will be painted to match the lower section of the cab.

GALVANIZED CHASSIS FRAME ASSEMBLY
The chassis frame assembly will be hot dip galvanized before the installation of the cab and body, and before installation of the engine and transmission assembly, air brake lines, electrical wire harnesses, etc.

Components that are included with the chassis frame assembly that will be hot dip galvanized are:

- Frame rails
- Frame liners
- Cross members
- Front frame extension

All galvanized components are inspected for compliance with ASTM specifications.

Battery boxes will be stainless steel.

All components that are not galvanized will be painted primer and gloss black paint (or as otherwise stated in a secondary option).

AXLE HUB PAINT
All axle hubs will be painted black #101.

COMPARTMENT SHELF/TRAY COATING
There will be fifteen (15) compartment shelf/tray(s) sprayed with UL-LX® polyurethane/polyurea material. The coating will be black in color.

These shelf/tray(s) will be one shelf D1. one tilt tray one floor tray D4, one shelf P1, one shelf one floor tray P2. one in shelf P3, two shelves one horiz partition one perm shelf one tilt tray P5. one floor tray one shelf one tilt tray P7..

The coating will be properly installed by an authorized UL-LX dealer.

COMPARTMENT FLOOR LINING
There will be seven (7) compartment floor(s) that will be lined with UL-LX® spray-on polyurethane/polyurea material. The interior lining will be black in color.

The floor(s) will be D1,D2,D3,P1,P3,P4,P5.

The lining will be properly installed by an authorized UL-LX dealer.

SAFE-STRIDE® COATING ON DEVICE ACCESS STEP AT TURNTABLE

There will be black Safe-Stride® non-slip surface treatment provided on the top, treadplate cover of the aerial device access step to the base section of the aerial device.

COMPARTMENT INTERIOR PAINT

The interior of all compartments will be painted with a gray spatter finish for ease of cleaning and to make it easier to touch up scratches and nicks.

AERIAL DEVICE PAINT COLOR

The aerial device paint procedure will consist of a six (6) step finishing process as follows:

1. Manual Surface Preparation - All exposed metal surfaces on the aerial device structural components above the rotation point will be thoroughly cleaned and mechanically shot-blasted to remove metal impurities and prepare the aerial for painting.

2. Primer/Surfacer Coats - A two (2) component urethane primer/surfacer will be applied to the mechanically shot-blasted metal surfaces to provide a strong corrosion protective base coat and to smooth out the surface. All seams will be caulked with a two (2) component epoxy caulk before painting.

3. Hand Sanding - The primer/surfacer coat of the outer surfaces of the hand rails and base rails will be lightly sanded to a smooth finish.

4. Sealer Primer Coat - A two (2) component sealer primer coat will be applied over the sanded primer.

5. Topcoat Paint - Urethane base coat will be applied to opacity for correct color matching.

6. Clearcoat - Two (2) coats of an automotive grade two (2) component urethane will be applied.

Surfaces that will not be painted include all chrome plated, polished stainless steel, anodized aluminum and bright aluminum treadplate.

All buy out components, such as monitor, nozzle, gauges, etc. will be supplied as received from the vendor.

Removable items such as brackets will be removed and painted separately to ensure paint coverage behind all mounted items.

The stabilizer beams and torque box will be treated with E-coat prior to painting to help provide resistance to corrosion and chemicals. The stabilizers and torque box will be painted black.

The aerial device components will be painted as follows using the aforementioned six (6) step finishing process:

- Aerial device ladder sections and extension cylinders: white 10
- Aerial egress: #416 bright green with lumicoat (will be contrasting color to the aerial device ladder)
- Aerial turntable: black 101

- Aerial control console: black 101
- Aerial lift cylinders: black 101
- Aerial boom support: gloss black primer

REFLECTIVE STRIPES
Three (3) reflective stripes will be provided across the front of the vehicle and along the sides of the body. The reflective band will consist of a 1.00" black stripe at the top with a 1.00" gap then a 6.00" black stripe with a 1.00" gap and a 1.00" black stripe on the bottom.

The reflective band provided on the cab face will be at the headlight level.

REAR CHEVRON STRIPING
There will be alternating chevron striping located on the rear-facing vertical surface of the apparatus. Covered surfaces will include the rear wall and aluminum doors. Rear compartment doors, stainless steel access doors, and the rear bumper will not be covered.

The colors will be red and fluorescent yellow green diamond grade.

Each stripe will be 6.00" in width.

This will meet the requirements of the current edition of NFPA 1901, which states that 50% of the rear surface will be covered with chevron striping.

REFLECTIVE STRIPE ON STABILIZERS
There will be a 4.00" wide fluorescent yellow green diamond grade reflective stripe provided on the forward and rear facing side of all aerial stabilizers.

CAB DOOR REFLECTIVE STRIPE
A 6.00" x 16.00" white reflective stripe will be provided across the interior of each cab door. The stripe will be located approximately 1.00" up from the bottom, on the door panel.

This stripe will meet the current edition of applicable NFPA standards.

LETTERING
The lettering will be totally encapsulated between two (2) layers of clear vinyl.

LETTERING
Forty-one (41) to sixty (60) genuine gold leaf lettering, 10.00" high, with outline and shade will be provided.

LETTERING
Twenty-one (21) to forty (40) genuine gold leaf lettering, 10.00" high, with outline and shade will be provided.

FIRE APPARATUS PARTS MANUAL
There will be one (1) custom parts manual(s) in USB flash drive format for the complete fire apparatus provided.

The manual(s) will contain the following:

- Job number
- Part numbers with full descriptions
- Table of contents
- Parts section sorted in functional groups reflecting a major system, component, or assembly
- Parts section sorted in alphabetical order
- Instructions on how to locate parts

Each manual will be specifically written for the chassis and body model being purchased. It will not be a generic manual for a multitude of different chassis and bodies.

Service Parts Internet Site

The service parts information included in these manuals are also available on the Pierce website. The website offers additional functions and features not contained in this manual, such as digital photographs and line drawings of select items. The website also features electronic search tools to assist in locating parts quickly.

CHASSIS SERVICE MANUALS

There will be one (1) chassis service manuals on USB flash drives containing parts and service information on major components provided with the completed unit.

The manual will contain the following sections:

- Job number
- Table of contents
- Troubleshooting
- Front Axle/Suspension
- Brakes
- Engine
- Tires
- Wheels
- Cab
- Electrical, DC
- Air Systems
- Plumbing
- Appendix

The manual will be specifically written for the chassis model being purchased. It will not be a generic manual for a multitude of different chassis and bodies.

CHASSIS OPERATION MANUAL

The chassis operation manual will be provided on one (1) USB flash drive. The manual will be in the English language.

ONE (1) YEAR MATERIAL AND WORKMANSHIP

A Pierce basic apparatus limited warranty certificate, WA0008, is included with this proposal.

ENGINE WARRANTY

A Paccar five (5) year limited engine warranty will be provided. A limited warranty certificate is included with this proposal.

STEERING GEAR WARRANTY

A Sheppard **three (3) year** limited steering gear warranty will be provided. A copy of the warranty certificate will be submitted with this proposal.

FIFTY (50) YEAR STRUCTURAL INTEGRITY

The Pierce custom chassis frame only (does not include crossmembers) limited warranty certificate, WA0013, is included with this proposal.

FRONT AXLE THREE (3) YEAR MATERIAL AND WORKMANSHIP WARRANTY

The Pierce TAK-4 suspension limited warranty certificate, WA0050, is included with this proposal.

TDM REAR AXLE FIVE (5) YEAR MATERIAL AND WORKMANSHIP WARRANTY

A Meritor™ Axle 5 year limited warranty will be provided.

ABS BRAKE SYSTEM THREE (3) YEAR MATERIAL AND WORKMANSHIP WARRANTY

A Meritor Wabco™ ABS brake system limited warranty certificate, WA0232, is included with this proposal.

TEN (10) YEAR STRUCTURAL INTEGRITY

The Pierce custom cab limited warranty certificate, WA0012, is included with this proposal.

TEN (10) YEAR PRO-RATED PAINT AND CORROSION

A Pierce cab limited pro-rated paint warranty certificate, WA0055, is included with this proposal.

FIVE (5) YEAR MATERIAL AND WORKMANSHIP

The Pierce Command Zone electronics limited warranty certificate, WA0014, is included with this proposal.

CAMERA SYSTEM WARRANTY

A Pierce fifty four (54) month warranty will be provided for the camera system**.**

COMPARTMENT LIGHT WARRANTY

The Pierce 12 volt DC LED strip lights limited warranty certificate, WA0203, is included with this proposal.

TRANSMISSION WARRANTY

The transmission will have a **five (5) year/unlimited mileage** warranty covering 100 percent parts and labor. The warranty will be provided by Allison Transmission.

Note: The transmission cooler is not covered under any extended warranty you may be getting on your Allison Transmission. Please review your Allison Transmission warranty for coverage limitations.

TRANSMISSION COOLER WARRANTY

The transmission cooler will carry a five (5) year parts and labor warranty (exclusive to the transmission cooler). In addition, a collateral damage warranty will also be in effect for the first three (3) years of the warranty coverage and will not exceed $10,000 per occurrence. A copy of the warranty certificate will be included with this proposal.

WATER TANK WARRANTY

A UPF poly water tank limited warranty certificate, WA0195, is included with this proposal.

TEN (10) YEAR STRUCTURAL INTEGRITY

The Pierce apparatus body limited warranty certificate, WA0009, is included with this proposal.

ROLL UP DOOR MATERIAL AND WORKMANSHIP WARRANTY

A Gortite roll-up door limited warranty will be provided. The mechanical components of the roll-up door will be warranted against defects in material and workmanship for the lifetime of the vehicle. A six (6) year limited warranty will be provided on painted and satin roll up doors.

A R-O-M Corporation rollup door limited warranty will be provided. The mechanical components of the rollup door will be warranted against defects in material and workmanship for a period of seven (7) years. The door ajar switch will be warranted for a period of three (3) years and all other electrical components will be warranted for a period of one (1) year. A seven (7) year limited warranty will be provided on painted rollup doors.

SEVEN (7) YEAR PARTS, ONE (1) YEAR LABOR

The pump and its components will be provided with a seven (7) year parts and one (1) year labor limited warranty. The manufacturer's warranty will provide that the pump and its components will be free from failures caused by defects in material and workmanship that would arise under normal use and service.

A copy of the warranty certificate will be submitted with the bid package.

TEN (10) YEAR PUMP PLUMBING WARRANTY

The Pierce apparatus plumbing limited warranty certificate, WA0035, is included with this proposal.

TWENTY (20) YEAR AERIAL DEVICE STRUCTURAL INTEGRITY WARRANTY

The Pierce device limited warranty certificate, WA0052, is included with this proposal.

AERIAL SWIVEL WARRANTY

An Amity five (5) year limited swivel warranty will be provided. A copy of the warranty certificate will be included with this proposal.

HYDRAULIC SYSTEM COMPONENTS WARRANTY

Aerial hydraulic system components will be provided with a five (5) year material and workmanship limited warranty.

HYDRAULIC SEAL WARRANTY

Aerial hydraulic seals will be provided with a three (3) year material and workmanship limited warranty.

A copy of the warranty certificates is included with this proposal.

AERIAL WATERWAY WARRANTY

An Amity ten (10) year limited waterway warranty will be provided. A copy of the warranty certificate is included with this proposal.

FOUR (4) YEAR PRO-RATED PAINT AND CORROSION

A Pierce aerial device limited pro-rated paint warranty certificate, WA0047, is included with this proposal.

TEN (10) YEAR PRO-RATED PAINT AND CORROSION

A Pierce body limited pro-rated paint warranty certificate, WA0057, is included with this proposal.

THREE (3) YEAR MATERIAL AND WORKMANSHIP

The Pierce Goldstar gold leaf lamination limited warranty limited warranty certificate, WA0018, is included with this proposal.

VEHICLE STABILITY CERTIFICATION

The fire apparatus manufacturer will provide a certification stating the apparatus complies with NFPA 1900, current edition, section 7.14, Vehicle Stability. The certification is included with this proposal.

ENGINE INSTALLATION CERTIFICATION

The fire apparatus manufacturer will provide a certification, along with a letter from the engine manufacturer stating they approve of the engine installation in the bidder's chassis. The certification will be provided at the time of delivery.

POWER STEERING CERTIFICATION

The fire apparatus manufacturer will provide a certification stating the power steering system as installed meets the requirements of the component supplier. The certification is included with this proposal.

CAB INTEGRITY CERTIFICATION

The fire apparatus manufacturer will provide a cab crash test certification with this proposal. The certification will state that a specimen representing the substantial structural configuration of the cab has been tested and certified by an independent third party test facility. Testing events will be documented with photographs, real-time and high-speed video, vehicle accelerometers, cart accelerometers, and a laser speed trap. The fire apparatus manufacturer will provide a state licensed professional engineer to witness and certify all testing events. Testing will meet or exceed the requirements below:

- SAE J2422 Cab Roof Strength Evaluation - Quasi-Static Loading Heavy Trucks.
- European Occupant Protection Standard ECE Regulation No.29.
- SAE J2420 COE Frontal Strength Evaluation - Dynamic Loading Heavy Trucks.

Side Impact
The cab will be subjected to dynamic preload where a 14,320-lb moving barrier is slammed into the side of the cab at 5.50 mph, striking with an impact of 13,000 ft-lb of force. This test is part of the SAE J2422 test procedure and more closely represents the forces a cab will see in a rollover incident.

Frontal Impact
The same cab will withstand a frontal impact of 32,600 ft-lb of force using a moving barrier in accordance with SAE J2420.

Additional Frontal Impact
The same cab will withstand a frontal impact of 65,098 ft-lb of force using a moving barrier. (Twice the force required by SAE J2420)

Roof Crush
The cab will be subjected to a roof crush force of 22,500 lb. This value meets the ECE 29 criteria, and is equivalent to the front axle rating up to a maximum of ten (10) metric tons.

Additional Roof Crush
The same cab will be subjected to a roof crush force of 110,000 lbs. (Four and a half times the load criteria of ECE 29)

The same cab will withstand all tests without any measurable intrusion into the survival space of the occupant area.

CAB DOOR DURABILITY CERTIFICATION
Robust cab doors help protect occupants. Cab doors will survive a 200,000 cycle door slam test where the slamming force exceeds 20 G's of deceleration. The bidder will certify that the sample doors similar to those provided on the apparatus have been tested and have met these criteria without structural damage, latch malfunction, or significant component wear.

WINDSHIELD WIPER DURABILITY CERTIFICATION
Visibility during inclement weather is essential to safe apparatus performance. Windshield wipers will survive a 3 million cycle durability test in accordance with section 6.2 of SAE J198 *Windshield Wiper Systems - Trucks, Buses and Multipurpose Vehicles.* The bidder will certify that the wiper system design has been tested and that the wiper system has met these criteria.

SEAT BELT ANCHOR STRENGTH
Seat belt attachment strength is regulated by Federal Motor Vehicle Safety Standards and should be validated through testing. Each seat belt anchor design will withstand 3000 lb of pull on both the lap and shoulder belt in accordance with FMVSS 571.210 Seat Belt Assembly Anchorages. The bidder will certify that each anchor design was pull tested to the required force and met the appropriate criteria.

SEAT MOUNTING STRENGTH
Seat attachment strength is regulated by Federal Motor Vehicle Safety Standards and should be validated through testing. Each seat mounting design will be tested to withstand 20 G's of force in accordance with FMVSS 571.207 Seating Systems. The bidder will certify, at time of delivery, that

each seat mount and cab structure design was pull tested to the required force and met the appropriate criteria.

PERFORMANCE CERTIFICATIONS

Cab Air Conditioning

Good cab air conditioning temperature and air flow performance keeps occupants comfortable, reduces humidity, and provides a climate for recuperation while at the scene. The cab air conditioning system will cool the cab from a heat-soaked condition at 100 degrees Fahrenheit to an average of 78 degrees Fahrenheit in 30 minutes. The bidder will certify that a substantially similar cab has been tested and has met these criteria.

Cab Defroster

Visibility during inclement weather is essential to safe apparatus performance. The defroster system will clear the required windshield zones in accordance with SAE J381 Windshield Defrosting Systems Test Procedure And Performance Requirements - Trucks, Buses, And Multipurpose Vehicles. The bidder will certify that the defrost system design has been tested in a cold chamber and passes the SAE J381 criteria.

Cab Auxiliary Heater

Good cab heat performance and regulation provides a more effective working environment for personnel, whether in-transit, or at a scene. An auxiliary cab heater will warm the cab 77 degrees Fahrenheit from a cold-soak, within 30 minutes when tested using the coolant supply methods found in SAE J381. The bidder will certify, at time of delivery, that a substantially similar cab has been tested and has met these criteria.

AMP DRAW REPORT

The bidder will provide, at the time of bid and delivery, an itemized print out of the expected amp draw of the entire vehicle's electrical system.

The manufacturer of the apparatus will provide the following:

- Documentation of the electrical system performance tests.
- A written load analysis, which will include the following:
    - The nameplate rating of the alternator.
    - The alternator rating under the conditions specified per:
        - Current edition of applicable NFPA standards.
    - The minimum continuous load of each component that is specified per:
        - Current edition of applicable NFPA standards.
    - Additional loads that, when added to the minimum continuous load, determine the total connected load.
    - Each individual intermittent load.

All of the above listed items will be provided by the bidder per the current edition of applicable NFPA standards.

Village of Oak Brook
Procurement
Rania Serences, Purchasing & Budgeting Coordinator
1200 Oak Brook Road, Oak Brook, IL 60523

[SENTINEL EMERGENCY SOLUTIONS] RESPONSE DOCUMENT REPORT

GEN No. TBD

Aerial Ladder Truck

RESPONSE DEADLINE: April 16, 2026 at 10:00 am

Report Generated: Thursday, April 16, 2026

Sentinel Emergency Solutions Response

CONTACT INFORMATION

Company:
Sentinel Emergency Solutions

Email:
billschreiber@sentineles.com

Contact:
Bill Schreiber

Address:
2900 Telegraph Rd.
St. Louis, MO 63125

Phone:
(708) 417-8743

Website:
www.sentineles.com

Submission Date:
Apr 14, 2026 5:39 PM (Central Time)

ADDENDA CONFIRMATION

No addenda issued

QUESTIONNAIRE

1. Respondent Submittals (without Cost)*

Please Upload your COMPLETE response, including any and all required forms listed in the solicitation and the corresponding attachments.

(Do not upload cost information in here)

Oak_Brook_Documents_Signed.pdf
4.14.26_-_COI_-_Village_of_Oak_Brook_Fire_Department.pdf
Oak_Brook_FD_Proposal_for_Apparatus.docx
Oak_Brook_FD_109_Viper_Chassis_Build_Sheet_4_13_26.pdf
Oak_Brook_FD_109_Viper_Chassis_Spec_4_13_26.docx
Oak_Brook_FD_109_Viper_Body_Build_Sheet_4_13_26.pdf
Oak_Brook_FD_109_Viper_Body_Spec_4_13_26.docx
Oak_Brook_FD_109_Viper_Aerial_Build_Sheet_4_13_26.pdf
Oak_Brook_FD_109_Viper_Aerial_Spec_4_13_26.docx
Oak_Brook_FD_109_Viper_Drawing_D01089-01-Model_4_13_26.pdf
Oak_Brook_FD_109_Viper_(D01089-01)W&B_4_13_26.pdf
Oak_Brook_FD_109_Viper_810_FO-005_Amp_Load_Report_4_13_26.xlsx

2. I certify that I have read, understood and agree to the terms in this solicitation, and that I am authorized to submit this response on behalf of my company.*

Confirmed

PRICE TABLES

Pricing information has not been unsealed yet

VILLAGE OF OAK BROOK
Purchasing Division
1200 Oak Brook Road
Oak Brook, IL 60523

(630) 368-5164

REQUEST FOR PROPOSALS

AERIAL LADDER TRUCK PURCHASE

MARCH 2026

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Section 1. Request for Proposals

A. Notice

Posted on OpenGov Procurement Module October 29, 2025

The Village of Oak Brook is soliciting proposals from qualified vendors for the Fire Department Aerial Ladder Truck Purchase

Qualified vendors interested in submitting a proposal must obtain the detailed Request for Proposals (RFP) package from the Village's eProcurement Portal at https://procurement.opengov.com/portal/oak-brook.

Firms intending to respond to this opportunity must create a FREE account with OpenGov by signing up at https://procurement.opengov.com/signup. This step is necessary to establish a communication link with the Village.

The closing date and time for receipt of proposals is **Thursday, April 16, 2026 at 10:00 A.M. prevailing time**, after which time, additional submittals will not be accepted.

The Village reserves the right to reject any or all Proposals, to waive technical or legal deficiencies, to proceed or not to proceed with any subsequent proposal process, or to negotiate, without further process, and to make an award that, in its judgment, is the best and most favorable to the interests of the Village and the public.

All inquiries regarding this RFP must be submitted via the Village's eProcurement Portal at https://procurement.opengov.com/portal/oak-brook.

B. General Information

The Village of Oak Brook is a suburban community located in the western suburbs of Illinois, approximately 15 miles west of Chicago. Oak Brook is a premier community known for its beautiful neighborhoods, vibrant business district, and exceptional public amenities—including world-class shopping, fine dining, and abundant green space. The Oak Brook Fire Department protects a wide variety of hazards including a large commercial and mercantile district made up of high-rises, big box stores, warehouses, light industrial, multi-family dwellings, hotels, and large residential structures. In addition, the fire department protects several miles of high-speed roadways which include IL Route 83, Interstate 88, and Interstate 294.

In 2025, the Oak Brook Fire Department continued to see a year after year call volume increase, answering 3,322 calls for service, delineated by a nature of 65% emergency medical service and 35% fire service-related calls.

The Village of Oak Brook is seeking responsible vendors to submit proposals to build our next aerial ladder truck. The Village of Oak Brook is looking to award the next aerial ladder build to a vendor who can build a high-quality vehicle, exceeding our minimum custom-build requirements, that services the citizens of the Village of Oak Brook for at least the next fifteen years. The Oak Brook Fire Department is looking for a reliable aerial fire apparatus that consistently remains in-service, but when maintenance is needed, can be taken to a local dealer for efficient, cost effective, and dependable repair. Apparatus build time and a vehicle that meets or exceeds the fire department's vehicle requirements will be key when selecting the next vendor.

Some key components the Oak Brook Fire Department is seeking in our next aerial ladder build, but not limited to:

- minimum 95' aerial ladder length (however more vertical/horizontal/below grade reach better i.e. 100', 105', 110', 135', etc.)
- the ability to short-jack the aerial set-up in confined spaces

- minimum 500 on board water storage
- minimum 1500 GPM fire pump
- the ability to carry a full ground ladder compliment, including a 28', 35', and 45' (Bangor) ladders
- total compartment space (cubic foot of storage) is an important consideration
    - Identify total cubic foot of available storage given specific design components (on board water, hose, ladder, etc.)

C. Anticipated Timeline

The Village plans to adhere to the following schedule regarding this RFP:

Distribute Request for Proposals	March 19, 2026
Deadline for vendor questions or clarifications via OpenGov	April 7, 2026 @ 12:00 pm
Village's response to questions via OpenGov	As answered
RFP Due Date	April 16, 2026 @ 10:00 am
Evaluation Period	Apri 16, 2026 – May 4, 2026
Recommendation to Village Board/Final Award	May 12, 2026
Contract Effective Date	May 12, 2026

Section 2. Specifications

The Village of Oak Brook, IL, is seeking proposals from qualified vendors for the purchase of a new aerial ladder truck for the Oak Brook Fire Department. The aerial ladder truck will be used for firefighting, rescue operations, and other emergency services. The selected vendor will be responsible for providing a fully equipped and operational aerial ladder truck that meets the specifications outlined below:

Detailed Specifications
The aerial ladder truck must meet or exceed the latest NFPA standards as well as the following specifications and standards:

Chassis and Engine

1. Custom fire apparatus chassis with a minimum of 500 horsepower diesel engine.
2. Automatic, heavy-duty transmission (Allison 4000 or similar) and an auxiliary cooler.
3. Heavy-duty suspension system suitable for emergency response operations.
4. Minimum 50-gallon fuel tank capacity.
5. Anti-lock braking system (ABS).
6. Power steering and tilt/telescoping steering wheel.
7. Auto-lube system.
8. Crossfire rear-dual air monitoring system (or similar).
9. Jacobs compression brake (or similar).
10. Exhaust system modified for Plymovent.

Cab and Body

1. Four-door cab with seating for a minimum of four firefighters.
2. Air conditioning and heating system.
3. Ergonomically designed seating with seat belts and SCBA brackets.
4. Seatbelt warning system, SRS, backup and blind-spot cameras.
5. Aluminum or stainless-steel body construction for durability and corrosion resistance.
6. Ample custom compartment space for equipment storage with weather-resistant roll-up doors and custom shelves/trays/pull outs/etc. with line-x where applicable. (Identify total available cubic foot of storage available given specifications listed).
7. LED lighting for interior and exterior illumination.
8. Underbody corrosion protection.
9. Extended steel front bumper (with front 1.75" hose storage and storage for extrication equipment such as spreaders/cutters).
10. Heated remote mirrors.
11. Bumper mirror.
12. Remote windows (with multiple control points).
13. Sigtronics headset system (or similar).
14. Mounting provisions and power for mobile radios, portable chargers, hand-lights, mobile-data computer, thermal imaging camera, etc.
15. Custom paint (including aerial) with warranty (specify) and decals.

Aerial Ladder

1. Minimum 95-foot aerial ladder with a rated load capacity of at least 500 pounds. (Identify options/cost for longer reach)
2. Hydraulic or electric-powered ladder operation with automatic leveling system.
3. Ability to short-jack aerial set-up.
4. Waterway system capable of delivering a minimum of 1,000 gallons per minute (GPM) and providing a remote standpipe.
5. Integrated ladder controls at both the base and tip of the ladder.
6. Heat-resistant and slip-resistant ladder rungs.

7. Emergency lighting and communication system integrated into the ladder.

Pump and Water Tank

1. Minimum 1,500 GPM fire pump.
2. Onboard water tank with a minimum capacity of 500 gallons.
3. Minimum two large-diameter intakes near pump panels (electronically controlled if remote), plus a rear intake.
4. Pre-connected hose lines (2 cross-body mid-ship and 1 front bumper) for rapid deployment.
5. Minimum hose bed capacity of 1000' of 5" LDH and 800' of 2.5".
6. Pressure relief valve and pump panel controls.

Electrical and Lighting

1. 12-volt and 120-volt electrical systems with circuit protection, shoreline powered.
2. LED emergency warning lights and sirens compliant with NFPA 1901 standards. 360-degree lighting package needs to exceed minimum standards and allow for ample warning, including during tollway/interstate operations.
3. LED scene lighting/floodlights for nighttime operations (minimum front and both sides).
4. LED cab and compartment lighting.
5. Battery charging system with shoreline connection and a minimum of four heavy-duty batteries.

Additional Equipment

1. Ground ladders including a minimum of one 45-foot 3-section Bangor ladder, one 35-foot two-section extension ladder, one 28-foot two-section extension ladder, one 18-foot roof ladder, one 16-foot roof ladder, one Little-Giant combination ladder, and one 10-foot folding ladder.
2. Storage and mounting provisions for 12', 10', 8', 6' New York hooks including rear, aerial, and mid-ship cross-body storage.
3. Storage and mounting provisions for hydraulic e-rescue tools, including spreaders, cutters, and rams.
4. Storage and mounting provisions for portable lighting and ventilation equipment.
5. Storage and mounting provisions medical equipment (in-cab).
6. Fire extinguishers and hand tools.
7. Spare SCBA bottle storage.
8. Storage and mounting provisions for misc. rescue equipment (small hand/power tools).

9. Storage and mounting provisions for misc. firefighting equipment including high-rise hose packs, standpipe kits, assorted appliances, etc.

Build Requirements
The selected vendor must:

1. Specify time for build and delivery.
2. Specify a list of authorized service centers and maximum travel distance.
3. Provide for build/design, in-progress, and final inspections.

Service Requirements
The selected vendor must provide the following services:

1. Comprehensive training for Oak Brook Fire Department personnel on the operation and maintenance of the aerial ladder truck.
2. Detailed maintenance and service manuals, both in print and digital formats.
3. Warranty coverage for a minimum of one year on all components, with extended warranty options available.
4. Access to technical support and service representatives for troubleshooting and repairs.
5. Availability of replacement parts and consumables for a minimum of 10 years from the date of delivery.

Delivery Requirements
The aerial ladder truck must be delivered to the Oak Brook Fire Department at the following address:

Oak Brook Fire Department
Village of Oak Brook
1200 Oak Brook Road
Oak Brook, IL 60523

The delivery must include the following:

1. Complete inspection and testing of the aerial ladder truck to ensure it meets all specifications and is fully operational.
2. Documentation of all inspections, tests, and certifications.
3. On-site training for Oak Brook Fire Department and on-site maintenance personnel.
4. All necessary registration and titling paperwork completed and submitted to the appropriate authorities.

Section 3. Proposal Cost

In compliance with this Request for Proposals, and subject to all conditions thereof, the undersigned offers and agrees, if this proposal is accepted, to furnish the Aerial Ladder Truck as outlined herein for the Village of Oak Brook at the amount indicated, subject to modification through negotiations. The not-to-exceed cost proposed shall include all anticipated expenses.

AERIAL LADDER TRUCK PURCHASE

Total Project Cost $ 1,900,175.00

In Words One million Nine hundred Thousand one hundred seventy Five Dollars

The Village of Oak Brook reserves the right to reject any or all proposals and to waive any informalities and to accept the proposal deemed most advantageous to it.

Section 4. Submittal Procedures

A. RFP Submittals

The closing date and time for receipt of the Request for Proposals is **Thursday, April 16, 2026, at 10:00 A.M. prevailing time**, after which time, additional submittals will not be accepted. All proposals must be delivered via the Village's eProcurement Portal at https://procurement.opengov.com/portal/oak-brook.

The Village reserves the right to reject any or all Proposals, to waive technical or legal deficiencies, to proceed or not to proceed with any subsequent proposal process, or to negotiate without further process any Contract as may be in the best interest of the Village.

B. Questions and Clarifications

All inquiries regarding this RFP must be submitted in writing through the Village's eProcurement Portal in the Questions/Answer tab. Questions will be accepted until **12:00 p.m. CST on Tuesday, April 7, 2026. To ensure that questions asked are responded to correctly, please include the section title for each question.**

All questions submitted and responses provided will be electronically distributed to the Firms following this solicitation on the Village's eProcurement Portal. You must click the **"Following"** button on the top right-hand side of the main project page in the Village's OpenGov eProcurement portal.

Section 5. Review Process

A. Evaluation of Proposals and Selection

The proposals received will be evaluated by the Village on the basis of professional qualifications, previous experience on similar projects, satisfaction of previous clients on work performed for them, current billing

rates of the firm, and the proposal that best meets the needs of the Village. Vendors will be contacted during the evaluation if further information is needed. The Village may choose to interview one or more firms before final selection is made.

This Request for Proposal does not commit the Village to award a contract, to pay any costs incurred in the preparation of a proposal based on this request, or to procure or contract for services. All proposals submitted in response to this Request for Proposal become the property of the Village. The Village reserves the right to accept or reject any or all proposals received as a result of this request, to negotiate with qualified proposers, or to cancel in part or in its entirety the Request for Proposal, if it is in the best interest of the Village to do so. The Village may require the proposer selected to participate in negotiations concerning Contract price or the nature and extent of services to be provided. The results of such negotiations shall be incorporated into the final Contract between the Village and its proposer.

B. Basis of Award

The Village uses the Request for Proposals (RFP) process. A short list of firms will be drawn up and interviews with those firms may take place. The Village will then attempt to negotiate a satisfactory Contract with the firms deemed most qualified.

The Village of Oak Brook reserves the right to waive any informality or technical error and to accept the firm deemed by the Village to be in its best interests. In reviewing Proposals, the Village will consider the following factors:

1. The ability, capacity, and skill of the firm to provide the required commodity.
2. The character, integrity, reputation, judgment, experience, and efficiency of the firm.
3. The quality of the performance on previous Contracts.
4. The previous and existing compliance by the vendor with laws and ordinances relating to the vendor's services.
5. The sufficiency of the financial resources and ability of the firm to perform the Contract or provide the commodity.
6. Proposed Cost
7. The ability of the vendor to provide future service for the use of the subject of the Contract.
8. The number and scope of conditions attached to the Proposal submitted.

Additional criteria to be considered in reviewing Proposals:

1. The Proposers' experience.
2. Understanding of the Village's current and future needs.
3. Oral interview (at Village option).
4. Demonstrated experience.

The Village will then select the top preferred Proposer, with whom the Contract, on a form to be provided by the Village, will be negotiated. The Village Board of Trustees has the ultimate authority to approve

any proposal and to authorize execution of the negotiated Contract.

The Village reserves the right to make clarifications, corrections, or changes in this RFP at any time prior to the deadline for the submission of proposals.

Section 6. Terms and Conditions

1. Any contract resulting from the acceptance of this Request for Proposals by the Village shall be on forms supplied by the Village.

2. If, through any cause, the firm fails to fulfill any of the obligations agreed to in a timely and proper manner, the Village shall have the right to terminate the Contract by notifying the firm in writing of such termination at least 30 calendar days in advance of such termination.

3. The Village reserves the right to request clarification of information submitted and request additional information as needed.

4. Proposers may attach separate sheets to the proposal for the purpose of explanation, exception, alternate proposal and to cover unit prices, if needed.

5. Proposers may withdraw their proposal either personally or by written request at any time before the time set for the proposal opening and may resubmit it. No proposal may be withdrawn or modified after the receipt of proposals except where the award of Contract has been delayed for a period of more than **ninety (90) days**.

6. In submitting this proposal, the proposer further declares that the only person or party interested in the proposal as principals are those named herein, and that the proposal is made without collusion with any other person, firm or corporation.

7. The proposer further understands and agrees that if their proposal is accepted, the individual/company is to furnish and provide all necessary materials and/or equipment and other means to do all of the work and to furnish all of the materials specified in the Contract, except such materials as are to be furnished by the Village, in the manner and at the time therein prescribed, and in accordance with the requirements therein set forth.

8. The proposer further agrees to execute all documents within this Proposal Package, obtain a Certificate of Insurance for this work and present all of these documents to the Village within fifteen (15) days after the receipt of the Notice of Award and the Contract by the company.

9. The proposer further agrees to begin work not later than fifteen (15) days after receipt of the Notice to Proceed, unless otherwise provided, and to execute the work in such a manner and with sufficient materials, equipment and labor.

10. By submitting a proposal, the proposer understands and agrees that, if the proposal is accepted, and the proposer fails to enter into a Contract forthwith, the company shall be liable to the Village for any damages the Village may thereby suffer.

11. The Village is exempt from Federal excise tax and the Illinois Retailer's Occupation Tax. This proposal cannot include any amounts of money for these taxes.

12. The Village authorizes the payment of invoices on the second and fourth Tuesday of the month. For consideration on one of these dates, payment request must be received no later than fourteen (14) days prior to the second or fourth Tuesday of the month.

13. **Indemnification** – The Proposer shall protect, indemnify, save, defend and hold forever harmless the Village and/or its officers, officials, employees, volunteers and agents from and against all liabilities, obligations, claims, damages, penalties, causes of action, costs and expenses, including without limitation court costs, insurance deductibles and attorney's fees and expenses, which the Village and/or its officers, officials, employees, volunteers and agents may incur, suffer or sustain, or for which the Village and/or its officers, employees and agents may become obligated by reason for any accident, injury to or death of persons or loss of or damage to property, or civil and/or constitutional infringement of rights (specifically including violations of the Federal Civil Right Statutes), arising indirectly or directly in connection with or under, or as a result of, this or any Contract by virtue of any act or omission of any of the Proposer's officers, employees, subcontractors, and/or agents, provided that the Proposer shall not be liable for claims, obligations, damages, penalties, causes of action, costs and expenses arising solely from any act or omission of the Village's officers, officials, employees, volunteers and/or agents.

    The proposer shall hold the Village harmless for any and all claims for labor, material, apparatus, equipment, fixtures or machinery furnished to the proposer for the purpose of performing the work under the Contract; and the payment of all direct and indirect damages to any person, firm, company or corporation suffered or sustained on account of the performance of such work during the time the Contract is in force.

14. **Insurance** – Certificates of Insurance and Additional Insured Endorsement shall be presented to the Village within fifteen (15) days after the receipt by the proposer of the Notice of Award and the unexecuted Contract, it being understood and agreed that the Village will not approve and execute the Contract or will the bid guarantee be returned until acceptable insurance certificates are received and approved by the Village.

    Each proposer performing any work pursuant to an Contract with the Village and each permittee working under a permit as required pursuant to the provisions of Title 1, Chapter 8 of the Code of Ordinances of the Village (hereinafter referred to as "Insured") shall be required to carry such insurance as specified herein. Such proposer and permittee shall procure and maintain for the duration of the Contract or permit insurance against claims for injuries to persons or damages to property, which may arise from or in connection with the performance of the work under the Contract or permit, by either the proposer, permittee, or their agents, representatives, employees or subcontractors.

    A contractor or permittee shall maintain insurance with limits no less than:

    a) General Liability - $1,000,000 combined single limit per occurrence for bodily injury, personal injury and property damage, provided that when the estimated cost of the work in question does not exceed $5,000 the required limit shall be $500,000;

    b) Automobile Liability (if applicable) - $1,000,000 combined single limit per accident for bodily injury and property damage;

    c) Worker's Compensation and Employer's Liability - Worker's Compensation limits as required by the Labor Code of the State of Illinois and Employer's Liability limits of $1,000,000 per accident.

    Any deductibles or self-insured retention must be declared to and approved by the Village. At the option of the Village, either the insurer shall reduce or eliminate such deductible or self-insured retention as respects the Village, its officers, officials, employees and volunteers; or the Insured shall procure a bond

guaranteeing payment of losses and related investigations, claim administration and defense expenses to the extent of such deductible or self-insured retention.

The policies shall contain, or be endorsed to contain, the following provisions:

d) General Liability and Automobile Liability Coverage -

I. The Village, its officers, officials, employees and volunteers are to be covered as additional insureds as respects: liability arising out of activities performed by or on behalf of the Insured; premises owned, occupied or used by the Insured. The coverage shall contain no special limitations on the scope of protection afforded to the Village, its officers, officials, employee's volunteers or agents.

II. The Insured's insurance coverage shall be primary insurance as respects the Village, its officers, officials, employees, volunteers and agents. Any insurance or self-insurance maintained by the Village, its officers, officials, employees, volunteers or agents shall be in excess of the Insured's insurance and shall not contribute with it.

III. Any failure to comply with reporting provisions of the policies shall not affect coverage provided to the Village, its officers, officials, employees, volunteers or agents.

IV. The Insured's insurance shall apply separately to each covered party against whom claim is made or suit is brought except with respect to the limits of the insurer's liability.

e) Worker's Compensation and Employer's Liability Coverage

The policy shall waive all rights of subrogation against the Village, its officers, officials, employees, volunteers and agents for losses arising from work performed by the insured for the Village.

Each insurance policy shall be endorsed to state that coverage shall not be suspended, voided, canceled by either party, reduced in coverage or in limits except after thirty (30) days prior written notice by certified mail has been given to the Village. Each insurance policy shall name the Village, its officers, officials and employees, volunteers and agents as additional Insureds. Insurance is to be placed with insurers with a Best's rating of no less than A: VII.

Each Insured shall furnish the Village with certificates of insurance and with original endorsements affecting coverage required by this provision. The certificate and endorsements for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. The certificates and endorsements are to be on forms approved by the Village and shall be subject to approval by the Village Attorney before work commences. The Village reserves the right to require complete, certified copies of all required insurance policies, at any time.

Each insured shall include all subcontractors as insureds under its policies or shall furnish separate certificates and endorsements for each subcontractor. All coverages for subcontractors shall be subject to all of the requirements stated herein.

15. **Equal Opportunity** – The Proposer will not discriminate against any employee or applicant for employment because of race, color, religion, sex, ancestry, national origin, place of birth, age or handicap unrelated to bona fide occupational qualifications.

16. **Execution of Documents** – The Proposer, in signing his Proposal on the whole or on any portion of the work, shall conform to the following requirements:

    Proposals signed by an individual other than the individual represented in the Proposal documents shall have attached thereto a power of attorney, evidencing authority to sign the Proposal in the name of the person for whom it is signed.
    Proposals that are signed for a partnership shall be signed by all of the partners or by an attorney-in-fact. If signed by an attorney-in-fact, there shall be attached to the Proposal a power of attorney evidencing authority to sign the proposal, executed by the partners.

    Proposals that are signed for a corporation shall have the correct corporate name thereof and the signature of the President or other authorized officer of the corporation manually written below the corporate name.

    If an official other than the President of the Corporation manually signs such Proposal, a certified copy of a resolution of the board of directors evidencing the authority of such official to sign the Proposal shall be attached to it. Such Proposal shall also bear the attesting signature of the Secretary of the corporation and the impression of the corporate seal.

    The Contract shall be deemed as have been awarded when formal notice of award shall have been duly served upon the intended awardee.

17. **Non-Discriminating** – The Proposer, its employees and subcontractors, agrees not to commit unlawful discrimination and agrees to comply with applicable provisions of the Illinois Human Rights Act, the U.S. Civil Rights Act and Section 504 of the Federal Rehabilitation Act, and rules applicable to each.

18. **Negotiations** – The Village reserves the right to negotiate specifications, terms, and conditions that may be necessary or appropriate to the accomplishment of the purpose of the RFP. The Village may require the entire proposal be made an integral part of the resulting Contract. This implies that all responses, supplemental information, and other submissions provided by the proposer during discussions or negotiations will be held by the Village as contractually binding on the successful proposer.

19. **Incurred Costs** – The Village will not be liable in any way for any costs incurred by respondents in replying to this RFP. Proposer agrees to comply with all laws, ordinances, and rules of the Village and the State of Illinois.

20. **Proposer Responsibilities** – The selected Proposer will be required to assume responsibility for all services offered in this proposal. The Village will consider the selected Proposer to be the sole point of contact with regard to contractual matters, including payment of any and all charges resulting from the Contract.

21. **Default** – The Contract may be canceled or annulled by the Village in whole or in part by written notice of default to the Proposer upon nonperformance or violation of Contract terms. An award may be given to another proposer with services similar to those so terminated. Failure of the Proposer to deliver services within the time stipulated on his offer, unless extended in writing by the Village, shall constitute Contract default.

22. **Independent Contractor** – There is no employee/employer relationship between the Proposer and the Village. Proposer is an independent contractor and not the Village's employee for all purposes, including, but not limited to, the application of the Fair Labors Standards Act minimum wage and overtime payments, Federal Insurance Contribution Act, the Social Security Act, the Federal Unemployment Tax Act, the Worker's Compensation Act (820 ILCS 305/1, et *seq.*). The VILLAGE will not (i) provide any form of insurance coverage, including but not limited to health, worker's

compensation, professional liability insurance, or other employee benefits, or (ii) deduct any taxes or related items from the monies paid to Proposer. The performance of the services described herein shall not be construed as creating any joint employment relationship between the Proposer and the Village, and the Village is not and will not be liable for any obligations incurred by the Proposer, including but not limited to unpaid minimum wages and/or overtime premiums, nor does there exist an agency relationship or partnership between the Village and the Proposer.

23. **Governing Law** – The laws of the State of Illinois as to interpretation, performance and enforcement shall govern this Contract. The forum for resolving any disputes concerning the parties' respective performance or failure to perform under this Contract shall be the Circuit Court for the Eighteenth Judicial Circuit, DuPage County, Illinois.

24. **Substitutions:**

A. Certain materials and equipment are specified by a manufacturer or trade name to establish standards of quality and performance and not for the purpose of limiting competition. Proposers are invited to submit proposals not only on named items but also on items which they propose for substitution of named items. Products of other manufacturers may be substituted, if, in the opinion of the Village, they are equal to those specified in quality, performance, design and suitability for intended use. Where two or more items are specified, the selection among those specified is the Proposer's option, or he may submit his proposal on all such items.

B. Proposals shall be based on materials included in the specifications. Substitutions for the purpose of evaluating proposals will be considered only if proposed substitutions are set forth in the sealed proposal and will only be accepted prior to the award of the contract. The offer of substitutions shall be an integral part of the proposal, appearing immediately after all requested proposals and before the signature of the Proposer.

C. Substitutions of materials other than those specified will not be considered in the base proposal price. However, other substitutions may be listed in the specified place in the Proposal Form, with the indication of the change in the base proposal price for the total cost.

D. In addition to the requirements heretofore mentioned, in order for substitutions to qualify for consideration, the following shall accompany each proposal:

1. Each proposed substitution shall be itemized showing manufacturer name, catalog number, quantity, unit cost and total cost. The Proposer shall prepare the necessary forms to list his substitutions in the manner outlined.

2. Each proposal offering substitutions shall be accompanied by descriptive literature, catalog data, complete technical specifications and reports of all pertinent tests concerning the Proposer's proposed substitutions

25. **Guarantee** – Successful Proposer will guarantee his own work for a period of one (1) year against faulty material and/or workmanship. If any defects(s) appear(s) within the one (1) year guarantee period, the contractor will repair any such defect(s) solely at his cost and at no cost to the Village of Oak Brook. The Contractor will also forward copies of all applicable manufacture's warranties for all equipment/commodities supplied by the Contractor as a part of the Contract.

26. **Warranty** – Successful Proposer will also forward copies of all applicable manufacturer's warranties for all equipment/commodities supplied as part of a Contract.

27. **Assignment** – Neither the Village nor the successful proposer shall assign or transfer any rights or obligations under this Contract without the prior written consent of the other party, which consent shall not be unreasonably withheld.

28. **Governing Law** – This Contract shall be governed by the laws of the State of Illinois as to interpretation, performance and enforcement. The forum for resolving any disputes concerning the parties' respective performance or failure to perform under this Contract shall be the Circuit Court for the Eighteenth Judicial Circuit, DuPage County, Illinois.

29. **Inspection/Testing/Rejection** – The Village shall have the right to inspect all or any part of the Work and to reject all or any part of the Work that is, in the Village's judgment, defective or damaged or that in any way fails to confirm strictly to the requirements of this proposal, without limiting its other rights or remedies, may require correction or replacement at Proposer's cost, perform or have performed all Work necessary to complete or correct all or any part of the Work that is defective, damaged, or nonconforming and charge Proposer with any excess cost incurred thereby, or cancel all or any part of any order or this proposal/contract. Work so rejected may be returned or held at Proposer's expense and risk.

30. **Performance Clause** – In the event the quality of service becomes unacceptable, the Village reserves the right to cancel the contract after giving seven (7) days written notice.

31. **Safety** – The successful proposer and any subcontractors shall comply with all provisions of the Federal Occupational Safety and Health Act of 1970 (84 Stat. 1590), as amended.

32. **Force Majeure** – A force majeure occurrence is an event or effect that cannot be reasonably anticipated or controlled and is not due to the negligence or willful misconduct of the affected party.

    Unless otherwise agreed in the Contract between the parties expressly or impliedly, where a party to a Contract fails to perform one or more of its contractual duties, the consequences set out in this clause will follow if and to the extent that the party proves: (a) that its failure to perform was caused by an impediment beyond its reasonable control; (b) that it could not reasonably have been expected to have taken the occurrence of the impediment into account at the time of the signing of the contract; and (c) that it could not reasonably have avoided or overcome the effects of the impediment.

    A party invoking this clause **shall** be presumed to have established the conditions described in the preceding paragraph in the case of the occurrence including, but not limited to, one or more of the following impediments or other similar causes beyond the control of the Contractor or the Village in the performance of the Contract where non-performance, by exercise of reasonable diligence, cannot be prevented:

    - acts of God or natural disaster such as but not limited to violent storm, cyclone, typhoon, hurricane, tornado, blizzard, earthquake, volcanic activity, landslide, tidal wave, tsunami, flood, damage or destruction by lightning, drought;

    - acts of war (whether declared or not), armed conflict or the serious threat of the same (including but not limited to hostile attack, blockade, military embargo), hostilities, invasion, act of a foreign enemy, extensive military mobilization;

- civil war, riot, rebellion, revolution, military or usurped power, insurrection, civil commotion or disorder, mob violence, act of civil disobedience;

- acts of public enemies, acts of terrorism, sabotage or piracy;

- **plague, epidemic, pandemic, outbreaks of infectious disease or any other public health crisis, including quarantine or other employee restrictions;**

- act of authority whether lawful or unlawful, compliance with any law or governmental order, rule, regulation or direction, curfew restriction, expropriation, compulsory acquisition, seizure of works, requisition, nationalization;

- explosion, fire, destruction of machines, equipment, factories and of any kind of installation, prolonged break down of transport, telecommunication or electric current;

- general labor disturbance such as but not limited to boycott, strike and lock-out, go-slow, occupation of factories and premises;

- shortage or inability to obtain critical material or supplies to the extent not subject to the reasonable control of the subject Party.

The affected party **shall** provide the other party with written notice of any force majeure occurrence as soon as the delay is known and provide the other party with a written contingency plan to address the force majeure occurrence. Furthermore, the affected party **shall** use its commercially reasonable efforts to resume proper performance within an appropriate period of time. Notwithstanding the foregoing, if the force majeure condition continues beyond 30 days, the parties to the Contract **shall** jointly decide on an appropriate course of action that will permit fulfillment of the parties' objectives under the contract.

Contractor **shall not** be entitled to an adjustment in Contract price or other non-price related items caused by or within the control of Contractor. Delay, disruption, and interference attributable to and within the control of a subcontractor or supplier shall be deemed to be within the control of Contractor.

Section 7. Attachments

Attachment A – Proposer Questionnaire

Attachment B – Statement of Proposer's Qualifications

Attachment C – Proposal Certification

Attachment D – Contract

Attachment E – Performance and Payment Bonds

Attachment A - Proposer Questionnaire

FIRM NAME Sentinel Emergency Solutions, LLC

CONTACT PERSON William (Bill) Schreiber

ADDRESS 2900 Telegraph Rd
St. Louis MO 63125

PHONE NUMBER 800-851-1928

EMAIL ADDRESS bill Schreiber @ sentinelES.com

WHEN ORGANIZED April 1, 2008

WHERE ORGANIZED St. Louis missouri

LICENSED IN ILLINOIS? yes

NUMBER OF YEARS IN PRACTICE? 18

HAS THE FIRM EVER REFUSED TO ENTER INTO AN CONTRACT?
If yes, please submit details no

HAS THE FIRM EVER DEFAULTED ON AN CONTRACT?
If yes, please submit details no

WHERE IS YOUR NEAREST OFFICE TO OAK BROOK? St. Louis MO

HOW MANY PEOPLE ARE EMPLOYED IN THE NEAREST OFFICE TO OAK BROOK? 70

Attachment B – Statement of Proposer's Qualifications

All questions must be answered, and the data given must be clear and comprehensive. This statement must be notarized. If necessary, questions may be answered on separate attached sheets. The Proposer may submit any additional information he or she desires.

1. Name of Proposer: Sentinel Emergency Solutions, LLC
2. Permanent main office address: 2900 Telegraph Rd St. Louis MO 63125
3. When organized: April 1, 2008
4. If a corporation, where incorporated: Missouri
5. How many years have you been engaged in the contracting business under your present firm or trade name: 18
6. Contracts on hand: (Schedule these, showing amount of each contract and the appropriate anticipated dates of completion) _____
7. General character of work performed by your company: Fire apparatus & equipment Sales & service
8. Have you ever defaulted on a contract: NO
9. List, on an attached sheet, the more important projects recently completed by your company, stating the approximate cost for each, and the month and year completed. Include a contact person and phone # for each.
10. List your major equipment ***available for this contract***: _____
11. Experience in work similar in importance to this project: _____
12. Background and experience of the principal members of your organization, including the officers. _____
13. Credit available: _____
14. Bank reference: Midwest Bank Centre 2191 Lemay Ferry Rd 314-544-7264
15. Will you, upon request, fill out a detailed financial statement and furnish any other information that may be required by the Village of Oak Brook: Yes

16. The undersigned hereby authorizes and requests any person, firm, or corporation to furnish any information requested by the Village of Oak Brook in verification of the recitals comprising this Statement of Proposer's Qualifications.

DATED at Odell, Illinois this 14th day of April, 2026.

By: Apparatus Specialist
Title

STATE OF ILLINOIS)
) SS.
COUNTY OF)

William Schreiber being duly sworn deposes and says that he is the 14th of Apperatus Specialist and that the answers to the foregoing questions and all statements therein contained are true and correct.

SUBSCRIBED and sworn to before me this 14th day of April, 2026.

Kristie L. Moore
Notary Public

"OFFICIAL SEAL"
KRISTIE L MOORE
Notary Public, State of Illinois
Commission No. 800946
My Commission Expires May 20, 2028

Attachment C – Proposer's Certification

The undersigned, being first duly sworn an oath, deposes and states that he has the authority to make this certification on behalf of the Proposer for the construction, product, commodity, or service briefly described as follows:

"Aerial Ladder Truck Purchase"

(A) The undersigned certifies that, pursuant to Chapter 720, Section 5/33E of the Illinois Compiled Statutes, 1993, the Proposer is not barred from submitting a proposal on this contract as a result of a conviction for the violation of State of Illinois laws prohibiting bid-rigging or bid-rotating.

(B) The undersigned states under oath that, pursuant to Chapter 65, Section 5/11-42.1-1 of the Illinois Compiled Statutes, 1993, the Proposer is not delinquent in the payment of any tax administered by the Illinois Department of Revenue.

(C) The undersigned certifies that, pursuant to Chapter 775, Section 5/2-105. of the Illinois Compiled Statutes, 1993, the Proposer has a written sexual harassment policy in place including the following information:

1. An acknowledgment of the illegality of sexual harassment.
2. The definition of sexual harassment under State law.
3. A description of sexual harassment, utilizing examples.
4. The contractor's internal complaint process including penalties.
5. The legal recourse, investigative and complaint process available through the Illinois Department of Human Rights and the Human Rights Commission.
6. Directions on how to contact the Department or the Commission.

(D) The undersigned states and certifies it will provide a drug free workplace by complying with Section 3 of the Illinois Drug Free Workplace Act, being 30 ILCS 580/3.

This business firm is: (check one)

X Corporation _____ Partnership _____ Individual

Firm Name: Sentinel Emergency Solutions, LLC

Address: 2900 Telegraph Rd

City, State, ZIP: St. Louis MO 63125

Signature: _____

Name Printed: William Schreiber

Title: Apparatus Specialist

Telephone: 708-417-8743 Date: 4-14-26

ATTEST: "OFFICIAL SEAL"
KRISTIE L MOORE
Notary Public, State of Illinois
Commission No. 800946
My Commission Expires May 20, 2028

-SEAL-

SUBSCRIBED AND SWORN TO
before me this 14th day
of April, 2026.

Kristie Moore
Notary Public

Attachment D – Contract

Aerial Ladder Truck Purchase

1. THIS CONTRACT, made and concluded this _____ day of _____, 2026, between the Village of Oak Brook, a municipal corporation, acting by and through its President and Board of Trustees, known as VILLAGE, and _____
his executors, administrators, successors or assigns, known as CONTRACTOR.

2. WITNESSETH: That for and in consideration of the payments and Contracts mentioned in the Proposal hereto attached, to be made and performed by the VILLAGE, and according to the terms expressed in the Bond (if applicable) referring to these presents, the CONTRACTOR agrees, at their own proper cost and expense, to do all work, furnish all materials and all labor necessary to complete the work in accordance with the plans and specifications hereinafter described, and in full compliance with all of the terms of this Contract.

3. PERIOD OF CONTRACT: This Contract will be in full force for the current calendar year, beginning on the date of the Contract. This Contract is subject to the right of the VILLAGE to cancel and terminate the same at any time, with or without cause, by giving not less than ten (10) day notice to the CONTRACTOR. In the event of such cancellation, the CONTRACTOR shall be entitled to receive payment for services and work performed and materials and equipment furnished under the terms of the Contract prior to the effective date of such cancellation but shall not be entitled to receive any damages on account of such cancellation or any further payment whatsoever.

4. And it is also understood and agreed that the entire Proposal Package hereto attached, approved by the VILLAGE this _____ day of _____, 2026, are all essential documents of this contract and are a part hereof.

5. IN WITNESS WHEREOF, the said parties have executed these presents on the above mentioned date.

ATTEST: VILLAGE OF OAK BROOK

_____ By_____
Village Clerk Village Manager

ATTEST: CORPORATE NAME:

_____ _____

_____ By_____ Secretary
Contractor

Partners doing Business under
the firm name of

_____

Party of the Second Part

(If a Co-Partnership)

_____

_____

_____

(If an Individual)

_____

Party of the Second Part

Will be provided if Awarded Contract

Attachment E – Performance and Payment Bonds

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS: that ***[FULL NAME, ADDRESS AND ORGANIZATION OF CONTRACTOR]***, as Principal, hereinafter called Contractor, and ***[FULL NAME AND ADDRESS OF SURETY]***, as Surety, a corporation organized and existing under the laws of the State of ***[INCORPORATION]***, hereinafter called Surety, are held and firmly bound unto the Village of Oak Brook, as Obligee, hereinafter called Owner, in the full and just sum of ***[CONTRACT PRICE]*** Dollars, for the payment of which sum of money well and truly to be made, Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents, said amount to include payment of actual costs and damages and for attorneys' fees, architectural fees, design fees, engineering fees, accounting fees, testing fees, consulting fees, administrative costs, court costs, interest and any other fees and expenses resulting from or incurred by reason of Contractor's failure to promptly and faithfully perform its contract with Owner, said contract being more fully described below, and to include attorneys' fees, court costs and administrative and other expenses necessarily paid or incurred in successfully enforcing performance of the obligation of Surety under this bond.

WHEREAS, Contractor has entered into a written Contract dated ***[DATE OF CONTRACT AGREEMENT]***, with Owner entitled "Contract Agreement Between Village of Oak Brook and ***[CONTRACTOR'S NAME]*** for the "Oak Brook Aerial Ladder Purchase" (the "Contract"), the terms and conditions of which are by this reference incorporated herein as though fully set forth herein.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH THAT if Contractor shall well, truly, and promptly perform all the undertakings, covenants, terms, conditions, and Contracts of said otherwise, under the Contract, including, but not limited to, Contractor's obligations under the Contract: (1) to provide, perform and complete at the Work Site and in the manner specified in the Contract all necessary work, labor, services, transportation, equipment, materials, apparatus, machinery, tools, fuels, gas, electric, water, waste disposal, information, data, and other means and items necessary for the design, if any, construction, and delivery of the **Oak Brook Aerial Ladder Purchase,** together with related attachments, equipment, and appurtenances thereto; (2) to procure and furnish all permits, licenses, and other governmental approvals and authorizations necessary in connection therewith except as otherwise expressly provided in the Special Conditions of Contract; (3) to procure and furnish all bonds and certificates and policies of insurance specified in the Contract; (4) to pay all applicable federal, state, and local taxes; (5) to do all other things required of Contractor by the Contract; and (6) to provide, perform, and complete all of the foregoing in a proper and workmanlike manner and in full compliance with, and as required by and pursuant to, the Contract; all of which is herein referred to as the "Work," whether or not any of said Work enter into and become component parts of the improvement contemplated, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

Surety, for value received, hereby stipulates and agrees that no changes, modifications, alterations, omissions, deletions, additions, extensions of time, or forbearances on the part of either Owner or Contractor to the other in or to the terms of said Contract; in or to the schedules, plans, drawings, or specifications; in or to the method or manner of performance of the Work; in or to Owner-furnished facilities, equipment, materials, services, or sites; or in or to the mode or manner of payment therefor, shall in any way release Contractor and Surety or either or any of them, or any of their heirs, executors, administrators, successors, or assigns, or affect the obligations of Surety on this bond, all notice of any and all of the foregoing changes, modifications, alterations, omissions, deletions, additions, extensions of time, or forbearances, and

notice of any and all defaults by Contractor or of Owner's termination of Contractor being hereby waived by Surety.

Notwithstanding anything to the contrary in the foregoing paragraph, in no event shall the obligations of Surety under this bond in the event of Contractor's default be greater than the obligations of Contractor under the Contract in the absence of such Contractor default.

In the event of a default or defaults by Contractor, Owner shall have the right to take over and complete the Contract upon 30 calendar days' written notice to Surety, in which event Surety shall pay Owner all costs incurred by Owner in taking over and completing the Contract.

At its option, Owner may instead request that Surety take over and complete the Contract, in which event Surety shall take reasonable steps to proceed promptly with completion no later than 30 calendar days from the date on which Owner notifies Surety that Owner wants Surety to take over and complete the Contract.

Owner shall have no obligation to actually incur any expense or correct any deficient performance of Contractor in order to be entitled to receive the proceeds of this bond.

No right of action shall accrue on this bond to or for the use of any person or corporation other than Owner or the heirs, executors, administrators, or successors of Owner.

Signed and sealed this ___ day of _____, 2026.

Attest/Witness:	PRINCIPAL: ***[NAME OF CONTRACTOR]***
By: _____	By: _____ ***[NAME OF CONTRACTOR'S EXECUTING OFFICER]***
Title: _____	Title: ***[TITLE OF CONTRACTOR'S EXECUTING OFFICER]***
Attest/Witness:	SURETY: ***[NAME OF SURETY]***
By: _____	By: _____
Title: _____	Title: _____
	Telephone: _____

Will be Provided If Awarded Contract

LABOR AND MATERIAL PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS: that ***[FULL NAME, ADDRESS AND ORGANIZATION OF CONTRACTOR]***, as Principal, hereinafter called Contractor, and ***[FULL NAME AND ADDRESS OF SURETY]***, as Surety, a corporation organized and existing under the laws of the State of ***[INCORPORATION]***, hereinafter called Surety, are held and firmly bound unto the Village of Oak Brook, as Obligee, hereinafter called Owner, for the use and benefit of itself and of claimants as hereinafter defined, in the full and just sum of ***[CONTRACT PRICE]*** Dollars ***[CONTRACT PRICE]***, to be paid to it or the said claimants or its or their assigns, to which payment well and truly to be made Contractor and Surety bind themselves, their heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents, said amount to include attorney's fees, court costs, and administrative and other expenses necessarily paid or incurred in successfully enforcing performance of the obligation of Surety under this bond.

WHEREAS, Contractor has entered into a written Contract dated ***[DATE OF CONTRACT AGREEMENT]***, with Owner entitled "Contract Agreement Between Village of Oak Brook and ***[CONTRACTOR'S NAME]*** for the "Oak Brook Aerial Ladder Purchase" (the "Contract"), the terms and conditions of which are by this reference incorporated herein as though fully set forth herein.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH THAT if Contractor shall promptly pay or cause to be paid all sums of money that may be due to any claimant with respect to Contractor's obligations under the Contract: (1) to provide, perform, and complete at the Work Site and in the manner specified in the Contract all necessary work, labor, services, transportation, equipment, materials, apparatus, machinery, tools, fuels, gas, electric, water, waste disposal, information, data, and other means and items necessary for design, if any, construction, and delivery of Oak Brook Aerial Ladder Purchase and together with related attachments, equipment, and appurtenances thereto; (2) to procure and furnish all permits, licenses, and other governmental approvals and authorizations necessary in connection therewith except as otherwise expressly provided in the Special Conditions of Contract; (3) to procure and furnish all bonds and certificates and policies of insurance specified in the Contract; (4) to pay all applicable federal, state, and local taxes; (5) to do all other things required of Contractor by the Contract; and (6) to provide, perform, and complete all of the foregoing in a proper and workmanlike manner and in full compliance with, and as required by and pursuant to, the Contract; all of which is herein referred to as the "Work," whether or not any of said Work enter into and become component parts of the improvement contemplated, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

For purpose of this bond, a claimant is defined as one having a direct contract with Contractor or with a subcontractor of Contractor to provide, perform or complete any part of the Work.

Contractor and Surety hereby jointly and severally agree that every claimant who has not had all just claims for the furnishing of any part of the Work paid in full, including, without limitation, all claims for amounts due for materials, lubricants, oil, gasoline, rentals of, or service or repairs on, machinery, equipment, and tools consumed or used in connection with the furnishing of any part of the Work, may sue on this bond for the use of such claimant, may prosecute the suit to final judgment for such sum or sums as may be justly due such claimant, and may have execution therein; provided, however, that Owner shall not be liable for the payment of any costs or expenses of any such suit. The provisions of 30 ILCS 550/1 and 30 ILCS 550/2 shall be deemed inserted herein, including the time limits within which notices of claim must be filed and actions brought under this bond.

Contractor and Surety hereby jointly agree that Owner may sue on this bond if Owner is held liable to, or voluntarily agrees to pay, any claimant directly, but nothing in this bond shall create any duty on the part of Owner to pay any claimant.

Surety, for value received, hereby stipulates and agrees that no changes, modifications, alterations, omissions, deletions, additions, extensions of time, or forbearances on the part of Owner or

Contractor to the other in or to the terms of said Contract; in or to the schedules, plans, drawings, or specifications; in or to the method or manner of performance of the Work; in or to Owner-furnished facilities, equipment, materials, services, or sites; or in or to the mode or manner of payment therefor shall in any way release Contractor and Surety or either or any of them, or any of their heirs, executors, administrators, successors, or assigns, or affect the obligations of said Surety on this bond, all notice of any and all of the foregoing changes, modifications, alterations, omissions, deletions, additions, extensions of time, or forbearances and notice of any and all defaults by Contractor or of Owner's termination of Contractor being hereby waived by Surety.

Signed and sealed this ___ day of _____, 2026.

Attest/Witness:

PRINCIPAL: ***[NAME OF CONTRACTOR]***

By: _____

By: _____
[NAME OF CONTRACTOR'S EXECUTING OFFICER]

Title: _____

Title: ***[TITLE OF CONTRACTOR'S EXECUTING OFFICER]***

Attest/Witness:

SURETY: ***[NAME OF SURETY]***

By: _____

By: _____

Title: _____

Title: _____

Telephone: _____

State of Illinois)
) SS.
County of _____)

I, _____, a Notary Public in and for said county, do hereby certify that _____ (names of individuals signing on behalf of Principal and Surety) who are each personally known to me to be the same persons whose names are subscribed to the foregoing instrument on behalf of PRINCIPAL and SURETY, appeared before me this day in person and acknowledged respectively, that they signed and delivered said instrument as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this ____ day of _____, 2026.

_____
Notary Public

My commission expires:

_____

Fire Apparatus Manufacturers' Association

FAMA

Certificate of Membership

In accordance with its bylaws,
FAMA affirms that

Rosenbauer America, LLC

meets the membership qualifications
and is a member in good standing through

2026

Jason Witmier
FAMA Board President

FAMA® is a trademark of the Fire Apparatus Manufacturers' Association
©2026

CERTIFICATE OF LIABILITY INSURANCE

1/1/2027

DATE (MM/DD/YYYY) 4/14/2026

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Lockton Companies, LLC DBA Lockton Insurance Brokers, LLC in CA CA license #0F15767 500 W. Monroe, Ste. 3400 Chicago IL 60661 (312) 669-6900 midwestcertificates@lockton.com	**CONTACT NAME:** **PHONE (A/C, No, Ext):** **FAX (A/C, No):** **E-MAIL ADDRESS:**
INSURED 1536937 ROSENBAUER AMERICA LLC 100 THIRD STREET LYONS SD 57041	**INSURER(S) AFFORDING COVERAGE** — **NAIC #** **INSURER A :** Fireman's Fund Insurance Company — 21873 **INSURER B :** Federal Insurance Company — 20281 **INSURER C :** Chubb Indemnity Insurance Company — 12777 **INSURER D :** **INSURER E :** **INSURER F :**

COVERAGES **CERTIFICATE NUMBER:** 23362878 **REVISION NUMBER:** XXXXXXX

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X **COMMERCIAL GENERAL LIABILITY** CLAIMS-MADE X OCCUR X DEDUCTIBLE: $25,000 GEN'L AGGREGATE LIMIT APPLIES PER: X POLICY PRO-JECT LOC OTHER:	N	N	USC013471260	1/1/2026	1/1/2027	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 1,000,000 $ 100,000 $ 10,000 $ 1,000,000 $ 2,000,000 $ 2,000,000
B	**AUTOMOBILE LIABILITY** X ANY AUTO OWNED AUTOS ONLY SCHEDULED AUTOS HIRED AUTOS ONLY NON-OWNED AUTOS ONLY	N	N	7364-9025	3/1/2026	3/1/2027	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 1,000,000 $ XXXXXXX $ XXXXXXX $ XXXXXXX
A	X **UMBRELLA LIAB** X OCCUR **EXCESS LIAB** CLAIMS-MADE DED RETENTION $	N	N	USC00887526U	1/1/2026	1/1/2027	EACH OCCURRENCE AGGREGATE	$ 10,000,000 $ 10,000,000
C	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y / N: N **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below	N / A	N	7184-3949	3/1/2026	3/1/2027	X PER STATUTE OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ 1,000,000 $ 1,000,000 $ 1,000,000
B	GARAGEKEEPERS	N	N	7364-9025	3/1/2026	3/1/2027	LIMIT: $2,000,000	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER

23362878
Village of Oak Brook Fire Department
Chief Kevin Fleege
1200 Oak Brook Rd.
Oak Brook, IL 60523

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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www.sentineles.com
sales@sentineles.com

PROUDLY SERVING
MISSOURI, ILLINOIS & INDIANA

Office: 800.851.1928 Fax: 314.200.9499

Proposal for Apparatus

Village of Oak Brook Fire Department
1200 Oak Brook Rd.
Oak Brook, Illinois 60523

April 14, 2026

Your requirements have been carefully reviewed by our engineering and sales staff. The following proposal meets the intent and technical requirements of your specifications. Minor exceptions or clarifications, if taken, are noted separately herein.

Our proposal meets 100% the intent and technical requirements of your specifications. The proposed apparatus we propose to furnish shall be manufactured in accordance with the enclosed specifications after proper executions of consortium purchasing agreement or contract.

One (1) Rosenbauer EXT 109Ft. Viper Aerial

Mounted on a 4 Door Commander Chassis

Total Price: $1,900,175.00

The price listed above includes delivery and orientation on the apparatus.

DELIVERY: Approximately 900 calendar days after receipt of production ready files. Chassis availability will determine the exact completion date.

PREPAYMENT DISCOUNTS: Chassis and prepay options are available.

- Chassis Prepayment Discount – Deduct $25,085 from quoted price = $1,871,884.00
- 100% Prepayment Discount – Deduct $174,327 from the quoted price = $1,725,848.00

INSPECTION TRIPS: The following trips are included (flight & lodging)

- Preconstruction - Rosenbauer MN for five (5) Fire Department Personnel
- Mid-Point – Rosenbauer MN for five (5) Fire Department Personnel
- Final Inspection - Rosenbauer MN for five (5) Fire Department Personnel

TERMS: Payment is due upon arrival to Sentinel Emergency Solutions

Respectfully Submitted,

Bill Schreiber

_____

Bill Schreiber
Authorized Distributor for Rosenbauer

QUOTATION

Sentinel Emergency Solutions

Village of Oak Brook Fire Department
Chief Kevin Fleege
1200 Oak Brook Rd.
Oak Brook, Illinois 60523
630-368-5200

Village of Oak Brook Fire Department
Chief Kevin Fleege
1200 Oak Brook Rd.
Oak Brook, Illinois 60523
630-368-5200

Quote No: 10028-0008
CAB: RBM4000 Rosenbauer Commander

04/14/2026

PART NO	S	DESCRIPTION	QTY	ID
		== Rosenbauer Commander - 401.025 04/01/25 ==		**RAS**
		ROSENBAUER APPARATUS SOLUTIONS - RAS - 13 MARCH 2026		**RAS**
00-00-000B		|-- === Pricing as of Rosenbauer QW Release 03-13-2026 Price good thru 5-31-26 ===	1	RAS
03-00-0101		|-- Certification - NFPA	1	RAS
08-09-0103		|-- Warranty - Cab Paint - Ten Years	1	RAS
08-09-0104		|-- Warranty - Cab Structural - Ten Years	1	RAS
08-09-0105		|-- Warranty - Allison Transmission - Five Years	1	RAS
08-09-0107		|-- Warranty - Frame - Lifetime	1	RAS
08-09-0200	>	|-- Warranty - Galvanized Frame Corrosion - 20 Years	1	RAS
08-09-0109		|-- Warranty - Front Axle Hendrickson - Five Years	1	RAS
08-09-010A		|-- Warranty - Rear Axle Meritor - Five Year	1	RAS
08-09-0111		|-- Warranty - Cab and Chassis - Two Year	1	RAS
08-09-0180		|-- Warranty - 2027 Cummins Engine - Five Years	1	RAS
08-09-0260		|-- Warranty - LCS - 4 Year	1	RAS
08-09-0301		|-- Cab Test Information Static Load Seat Test	1	RAS
08-09-0302		|-- Cab Test Information Crash Test ECE-29	1	RAS
08-09-0303		|-- Cab Test Information SAE J2420; J2422	1	RAS
08-09-0304		|-- Cab Test Information Roof Crush, Side & Frontal Impact	1	RAS
08-09-0501		|-- Operation & Parts List Manuals (2) Sets, USB Drive	1	RAS
08-09-0503		|-- Engine & Transmission Operation Manuals (1) Set	1	RAS
08-09-0530		|-- As Built Wiring w/Plumbing Diagrams (1) Set	1	RAS
08-09-0540		|-- On Board USB Manual Storage	1	RAS
08-80-0200		|-- DOT KIT	1	RAS
03-00-0134	>	Rear Mount Aerial	1	RAS
03-00-0140		|-- Standard Crossmembers	1	RAS
07-03-0102	>	|-- Midship Pump Jackshaft Only	1	RAS
03-00-0744	>	65" Cab Length 11" Roof	1	RAS
03-04-0004		|-- Cab Drip Rail Extension	1	RAS
03-05-0015	>	|-- Cab Roof Channel 53" W x 11" D	1	RAS
04-07-0132		|-- Trim Roof Treadplate, 60-11, w/Notch (Notch Only)	1	RAS
03-05-0612	>	|-- Driver EMS Compt 43" Interior Height	1	RAS
03-05-0630		|-- 2" EMS Compt Lip	1	RAS
03-05-0641	>	|-- Driver Exterior Access - Hinged Door	1	RAS
03-05-0651		|-- Chrome Door Handle - EMS Compartment	1	RAS
03-05-0652		|-- Manual Locks - EMS Compartment	1	RAS
08-00-0712		|-- Driver Mid EMS Compt Lighting LED Strip 36"	1	RAS

PART NO	S	DESCRIPTION	QTY	ID
03-05-0716		|-- Interior Driver EMS Compt Access 18.75" W x 39" H - Sweep Out	1	RAS
03-05-0736		|-- Interior Access Driver EMS Compt Roll Up Door - 43"	1	RAS
08-00-0718		|-- Compartment Light, Wall, ROM, V5 LED Track Light, (1) Each Compartment	1	RAS
03-05-9000		|-- Compartment Shelf	1	RAS
05-01-1800		|-- Driver EMS Compartment Interior Finish DA Sand	1	RAS
03-05-0812	>	|-- Officer EMS Compt 43" Interior Height	1	RAS
03-05-0830		|-- 2" EMS Compt Lip	1	RAS
03-05-0841	>	|-- Officer Exterior Access - Hinged Door	1	RAS
03-05-0851		|-- Chrome Door Handle - EMS Compt	1	RAS
03-05-0852		|-- Manual Locks - EMS Compt	1	RAS
08-00-0714		|-- Officer Mid EMS Compt Lighting LED Strip 36"	1	RAS
03-05-0916		|-- Interior Officer EMS Compt Access 18.75" W x 39" H - Sweep Out	1	RAS
03-05-0936	>	|-- Interior Access Officer EMS Compt Roll Up Door - 43"	1	RAS
08-00-0718		|-- Compartment Light, Wall, ROM, V5 LED Track Light, (1) Each Compartment	1	RAS
03-05-9000		|-- Compartment Shelf	1	RAS
05-01-1810		|-- Officer EMS Compartment Interior Finish DA Sand	1	RAS
03-06-0014		|-- SST Steps w/Round Hole and Star Extrusion Lower, Treadplate Middle	1	RAS
03-06-1015		|-- Cab Entry Doors	1	RAS
03-06-1026		|-- Barrier Free Cab Entry Doors	1	RAS
03-06-0021		|-- Step Trim Kickplate, Treadplate	1	RAS
03-06-1071		|-- Cab Door Insulation - 4 Door Cab	1	RAS
03-06-1100		|-- Cab Door Hardware Chrome (4)	1	RAS
03-06-1120		|-- Cab Door Locks Manual	1	RAS
03-06-1135		|-- Interior 1-Piece Door Panel Type Aluminum	1	RAS
03-06-1202		|-- Door Panel Finish Black Polyurethane	1	RAS
03-06-1211	>	|-- Door Jamb Scuff Plate, Stainless Steel 11" RR	1	RAS
04-05-0112		|-- Interior Handle Front Door Grab Handles - Red Powder Coat	1	RAS
04-05-0152		|-- Interior Grab Handle Rear Door Chicago Style 34" Red Powder Coat	1	RAS
04-05-0182	>	|-- Additional Grab Handles, "A" Pillar	1	RAS
03-08-0014		|-- Heated Windshield One Piece - COMMANDER	1	RAS
08-01-0347	>	|-- Heated Windshield Activate LCS Display	1	RAS
03-08-0093		|-- Windshield Wiper System Single Motor (3) Wipers	1	RAS
08-02-0134		|-- Windshield Wiper Activation LCS Steering Column Switch	1	RAS
03-08-0116		|-- Window Driver Power	1	RAS
08-01-0301		|-- Power Window Activation, Respective Door	1	RAS
03-08-0118		|-- Window Officer Power	1	RAS
03-08-0210		|-- Window Driver Crew Door - Power	1	RAS
03-08-0241		|-- Window Officer Crew Door Power	1	RAS
		CAB INTERIOR AND TRIM		**RAS**
04-01-0104		|-- === 11 Raised Cab 65" Interior Trim ===	1	RAS
03-09-7040		|-- Cab Insulation Interior Ceiling 65/11" Notch	1	RAS
03-09-8045		|-- Cab Insulation Underbody, 65" Cab 2027+	1	RAS
03-09-8020		|-- Cab Insulation Cab Damping	1	RAS
03-09-8041		|-- Cab Insulation Engine Tunnel Long 2027+	1	RAS
04-02-1660		|-- Interior Trim Polyurethane Coating Black Rear Wall 11"	1	RAS
04-01-3024		|-- Interior Trim Color Black, 65" - 11" Roof	1	RAS
04-02-1002		|-- Suspended Throttle and Brake Pedals	1	RAS
04-02-1167		|-- Interior Floor Covering Color Black, 65" 2027+	1	RAS
04-02-1702		|-- Interior Trim Sun Visor Tinted	1	RAS

PART NO	S	DESCRIPTION	QTY	ID
04-03-1034	>	|-- Cab Dash & Engine Tunnel Alum Dash - Overhead HVAC 2027+	1	RAS
04-03-1020	>	|-- Cab Dash & Engine Tunnel Coating Black Polyurethane	1	RAS
04-03-1303		|-- Flat Mounting Plate - Engine Tunnel, Aluminum Dash, Long Tunnel 2027+	1	RAS
04-03-2000	>	|-- Officer MDT Mount	1	RAS
04-04-1126	>	|-- Black Plate(s) for Communication Radio	1	RAS
04-04-1176	>	|-- Black Plate for Siren	1	RAS
04-04-1181	>	|-- Black Plate for Traffic Advisor	1	RAS
04-04-1360		|-- Cup Holders	1	RAS
08-01-0049		|-- Pump Shift - LCS Standard	1	RAS
08-01-0144		|-- Instrumentation Panel Inlay - Powder Coat Black	1	RAS
05-01-1050		|-- Cab Coating Interior Black Polyurethane	1	RAS
04-08-0151		|-- Cab Fender SS	1	RAS
04-09-0300		|-- Logo, Commander, Cab Sides	1	RAS
04-10-0351		|-- Mud Flaps Front	1	RAS
03-08-4000		Cab Header / Heating and AC	1	RAS
05-02-0010	>	|-- Heating w/ Air Conditioning, Overhead, Multiplex	1	RAS
05-01-6010	>	|-- Cab Paint A/C Condenser on Roof	1	RAS
05-02-0047		|-- Heater Hose - Silicone	1	RAS
05-02-0201		|-- A/C Condenser Location Roof Mounted Mid Driver Side	1	RAS
05-02-0300	>	|-- Auxiliary Defroster Fans	1	RAS
08-02-0125		|-- Heating & Cooling Controls LCS	1	RAS
08-02-0091		|-- Rear Crew Manual HVAC Controls LCS	1	RAS
08-02-0100		|-- Rear Crew Controls Manual - Located Overhead Center	1	RAS
03-09-00X4	>	911 Seats Inc XL Series Seat Package - Roll Tek & 4-Font Air Bag Package	1	RAS
03-09-0001		|-- Seats Inc	1	RAS
03-09-0906		|-- Seat Material Endurance Vinyl	1	RAS
03-09-0920		|-- Seat Logo Rosenbauer	1	RAS
03-09-0105		|-- Seat Color Black/Red Seat Belt	1	RAS
03-09-060C	>	|-- Seat Primary Driver 911Seats Inc XL 10-Way ABTS w/ Belt Pre-tensioner	1	RAS
03-09-000A		|-- Single Retractor Seat Belt - Seats Inc	1	RAS
03-09-0121		|-- Seat Back Non-SCBA	1	RAS
03-09-02X3		|-- Seat Mounting Driver Electric XL - Seats Inc	1	RAS
03-09-3010		|-- Driver Seat Box Storage Compartment	1	RAS
03-09-3236	>	|-- Seat Box Driver & Officer Storage Access Doors (2) Driver/Officer	1	RAS
03-09-063B		|-- Seat Primary Officer 911Seats Inc 2-Way Manual XL ABTS w/ Belt Pre-tensioner	1	RAS
03-09-000A		|-- Single Retractor Seat Belt - Seats Inc	1	RAS
03-09-0126		|-- Seat Back SCBA IMMI Smart Dock	1	RAS
03-09-0282		|-- Seat Mounting Officer 2-Way, Seats Inc	1	RAS
03-09-3020		|-- Officer Seat Box Storage Compartment	1	RAS
03-09-111B	>	|-- Two (2) Center Forward Facing Seats - XL - Roll Tek	1	RAS
03-09-080A	<	|-- Seat Secondary Crew Forward Facing Center 911 Seats Inc XL Fix RollTek Belt Orientation- LH & RH to Door	2	RAS

PART NO	S		DESCRIPTION	QTY	ID
03-09-000A			|-- Single Retractor Seat Belt - Seats Inc	2	RAS
03-09-0126			|-- Seat Back SCBA IMMI Smart Dock	2	RAS
03-09-057A			|-- Seat Mounting Forward Facing Center - XL	2	RAS
03-09-3100		>	|-- Seat Box (2 person) Forward Facing	1	RAS
03-09-3200		>	|-- Seat Box (60/54) Forward Facing Storage Access Cutout (1) Center Forward	1	RAS
03-09-3220		>	|-- Seat Box (60) Forward Facing Storage Access Door (1) Center Forward	1	RAS
03-09-4101			|-- Seat Box Doors Finish Match Cab Interior Coating	1	RAS
03-09-4001			|-- Seat Box Finish - Match Cab Interior Coating	1	RAS
04-05-1900			|-- Exterior Grab Handles 18" Aluminum	1	RAS
04-05-1910			|-- Exterior Grab Handles Bare Aluminum	1	RAS
04-05-0200			|-- Exterior Grab Handles Aluminum with Stanchions 18"	4	RAS
04-05-2060			|-- Exterior Grab Handles SST Scuff Plate 18"	4	RAS
04-05-2030			|-- Add'l Exterior Grab Handle 8" - Driver Side Forward	1	RAS
04-08-0010			Traditional Front with Rectangular Headlamp Bezels	1	RAS
04-08-0100			|-- Front Grille, 3D Line-X Black Finish	1	RAS
04-08-0026			|-- Wing Light Bezel - Line-X Black	1	RAS
04-08-0090			|-- Logo, Rosenbauer, Grille Mount	1	RAS
04-08-0125			|-- Front Grille Inlay, Black Honeycomb w/ Stainless Steel Bars	1	RAS
04-08-0220	S	< >	|-- Pedestal Mounted Center, Below Windshield Mount - Mars Light Pedestal Mount Center below windshield	1	RAS
59-01-1300			|-- Mars Light, LED, Clear Lens, Model "888" TB8-L1-F/C	1	RAS
06-03-2025			|-- Fluid Checks at Grille X15 2027+	1	RAS
08-00-050C		>	|-- Headlights, LED, Quad, with Rectangular Bezel - HiViz	1	RAS
08-00-0512			|-- Daytime Running Lights (DRL)	1	RAS
08-00-0540		< >	|-- Headlight Location - Upper Bucket 104 OS, 105 OS, and 104 DS, 105 DS	1	RAS
08-00-0608			|-- Front Marker Lamps Face Mounted LED (Center 3 Lightings, 2 Corner)	1	RAS
08-00-061C			|-- Side Marker Light LED - Chrome (2)	1	RAS
08-01-0307			|-- Headlight & Marker Light Activated Auto and LCS Display	1	RAS
08-00-0603			|-- Front Turn Signals Whelen M6 LED (2)	1	RAS
08-00-0630		< >	|-- Turn Signal Located Below Headlights 106 OS & DS	1	RAS
05-00-0221			Cab Tilt System - Heavy Duty w/ Manual Back Up	1	RAS
05-00-0021			|-- Cab Tilt Limit Switch	1	RAS
05-00-0045			|-- Cab Tilt Lock Down Indicator	1	RAS
05-00-0100			|-- Cab Tilt Control Receptacle Temp	1	RAS
05-00-5010			West Coast Style Mirrors	1	RAS
05-00-5305			|-- Retrac Aero West Coast, Driver (Door Mnt) Officer (Door Mnt) Lower Convex, Chrom	1	RAS
08-01-0823			|-- Rearview Mirror Heat Activated LCS Display	1	RAS
05-00-8100			Mirror, Cross View, 8", Officer's Cab Corner	1	RAS
05-01-5015			Cab Paint Exterior Two Tone	1	RAS
05-01-5020		< >	|-- Cab Paint Upper / Secondary Paint Code: Paint Color: TBD at PRECON	1	RAS

PART NO	S	DESCRIPTION	QTY	ID
05-01-5021	< >	|-- Cab Paint Lower / Primary	1	RAS
		Paint Code:		
		Paint Color: TBD at PRECON		
05-01-503B		|-- Cab Paint Exterior Breakline - Paint Break B	1	RAS
05-01-6051		|-- Cab Undercoating	1	RAS
05-01-7000	>	|-- Paint Spray Out	2	RAS
07-05-010D		Front Axle Hendrickson SteerTek 24000#	1	RAS
07-05-0120		|-- Front Wheel Bearing Lube Oil	1	RAS
07-05-0276		|-- Front Suspension Hendrickson Parabolic Spring 24,000	1	RAS
07-05-0384		|-- Power Steering Gear TRW TAS 85 w/Assist- 20K and up -2027 X15	1	RAS
		Steertek		
07-06-0420		|-- Chassis Alignment	1	RAS
07-07-0002		|-- 445 Front Tires	1	RAS
07-07-0197		|-- (2) Steer Tires 445/65R 22.5 Bridgestone 864 "M"	1	RAS
07-06-0436	>	|-- Counter Acting Balancing Beads	2	RAS
07-07-0747	>	|-- (2) Front Wheels Alcoa Dura Bright 22.5" X 13" Aluminum	1	RAS
07-08-0203		|-- Front Brakes Meritor EX225 Disc 17"	1	RAS
07-05-030H		4 Spoke Smart Wheel w/4 Front Airbag w or w/o ESC Tilt/Telescopic 18" LCS	1	RAS
07-06-0110	>	Rear Axle, Tandem, 54000# Meritor RT-52-185	1	RAS
07-06-0263	< >	|-- Rear Suspension Ridewell RD202S 54000# Tandem	1	RAS
		On-Spot - ARE NOT COVERED BY ANY WARRANTY FROM ONSPOT		
07-08-0110	< >	|-- Electronic Stability Control Tandem Axle - Two Valve System	1	RAS
		w/ air manifold		
		NOT AVAILABLE on Tillers		
07-05-0502	< >	|-- Mud/Snow Switch LCS Display	1	RAS
		Switch will be on screen in LCS Trucks		
07-08-0251		|-- Rear Brakes S-Cam Drum 16.5" x 7"	2	RAS
07-06-0300		|-- Rear Shock Absorbers	2	RAS
07-06-0351	>	|-- Rear Axle Differential Control w/Interaxle Diff Lock - Tandem Standard	1	RAS
08-01-0914		|-- Interaxle Control Activated LCS Display (Tandem)	1	RAS
07-07-0430		|-- (8) Rear Tires 12R 22.5 Bridgestone M799 "H"	1	RAS
07-06-0436	>	|-- Counter Acting Balancing Beads	8	RAS
07-07-0852		|-- (8) Rear Wheels Alcoa Dura-Bright/Alcoa High Polish 22.5 x 8.25	1	RAS
		Aluminum/Aluminu		
07-07-0981		|-- Wheel Guards - Tandem Axle	1	RAS
07-07-0620		|-- Valve Stem Extension - Tandem Axle	1	RAS
07-07-0993		|-- Vehicle Top Speed 60 mph	1	RAS
07-07-099S		|-- Complies with NFPA 1900-24, 7.16.2 & 7.16.3 as applicable	1	RAS
07-08-0189		|-- Air Tank Brackets - Hot Dipped Galvanized	1	RAS
07-08-0302	>	|-- Park Brake Rear w/Supplemental Front	1	RAS
08-02-0131	>	|-- Park Brake Control Console Mount	1	RAS
07-08-0410		|-- Wabco System Saver 1200	1	RAS
07-08-0558		|-- Moisture Ejectors Auto Heated	1	RAS
07-08-0570		|-- Air Supply Lines Nylon	1	RAS
07-08-0725		|-- Air Horn Reservoir (1) 1200 Cu In	1	RAS
07-09-001B	>	Frame Double Channel 35" Frame Width	1	RAS
07-09-0050	>	|-- Wheelbase Range 240" - 259"	1	RAS
07-09-0071	>	|-- Rear Overhang	1	RAS
07-09-0137	>	|-- Frame/Front Extension Hot Dip Galvanized - Double Frame	1	RAS

PART NO	S	DESCRIPTION	QTY	ID
10-04-0430		|-- Front Bumpers, 4000, Max Force 12"H, Max Force Wings	1	RAS
10-05-4330		|-- Front Bumper, Max Force 12"H, T/P Apron, M/F Wings, 30" Extension	1	RAS
10-04-3582		|-- Bumper, Top Edge Line-X Coated	1	RAS
10-04-2550	< >	|-- Full Width Hosewell	1	RAS
		Officer side to hold 100ft. 1-3/4" divider front to back with the rest being storage for three battery operated rescue tools, cutter, spreader, ram.		
10-04-3180		|-- Aluminum T/P Door, Raised Full Width, Front Bumper Compartment	1	RAS
08-00-0719		|-- Compartment LED Strip Light, (1) Each Compartment (approx 24")	1	RAS
08-00-071A		|-- Compartment Light, Mounting Door Jamb	1	RAS
10-04-3460		|-- Gas Shock, Bumper Compartment Door	2	RAS
10-05-9600	>	|-- Front Step Folding w/Light on Bumper	1	RAS
07-13-0301		Tow Hooks Painted Below Rearward Mount	1	RAS
06-00-0050		|-- Engine Placement	1	RAS
06-00-1850	>	|-- Engine, Cummins X15, Base Spec, 2027 - Commander	1	RAS
06-00-1854		|-- 565HP Cummins X15	1	RAS
06-02-1133		|-- Fan Clutch - X15 2027+	1	RAS
06-04-3000		|-- Fan Clutch Programming - Standard	1	RAS
06-02-1526	>	|-- Auxiliary Engine Brake Compression Brake (JAKE)	1	RAS
08-01-0197	>	|-- Auxiliary Engine Brake Control On/Off & Low/Med/High LCS Display	1	RAS
06-02-2005		|-- AC Compressor - X15, ISM & Export ISL	1	RAS
06-03-1010		|-- Engine High Idle Speed 1250 RPM	1	RAS
06-03-1024		|-- Engine High Idle Control Manual & Automatic LCS Display	1	RAS
06-05-3031		|-- Engine Air Intake Filtration and Restriction X15 2027+	1	RAS
06-06-3821	>	|-- Engine Exhaust System, X15, 2027. Long WB	1	RAS
06-06-3954		|-- Exhaust Exit, Officer Side, X15, Long WB, 2027	1	RAS
06-06-4006		|-- DEF Tank - Commander	1	RAS
06-06-4100		|-- DEF Tank Access Fill Door	1	RAS
06-08-0100		|-- Engine Exhaust Acc Temp Mitigation	1	RAS
06-08-0200		|-- Engine Exhaust Wrap	1	RAS
08-02-0140		|-- DPF Control Regeneration Switch & Inhibit Switch Covered	1	RAS
06-04-2004		|-- Engine Cooling System - X 15.0L 2027+	1	RAS
06-04-4010		|-- Coolant Valve Shut Off Valve w/Connection - For Additional Heater	1	RAS
06-05-1013		|-- Engine Pump Heat Exchanger X15 2027+	1	RAS
07-01-0132		|-- Transmission Allison 4000 EVS	1	RAS
07-01-0502		|-- Transmission Fluid - Synthetic	1	RAS
07-02-0006		|-- Transmission 6th GEN Push Button Key Pad	1	RAS
07-02-0012		|-- Transmission 1 o'clock PTO	1	RAS
07-02-0052		|-- Transmission Mode Programming 5th Startup/5th Mode	1	RAS
07-02-0066		|-- Transmission Feature Programming I/O Package 198/Pumper	1	RAS
07-02-0253		|-- Driveline Spicer 1810 HD	1	RAS
07-03-1020	>	|-- PTO 1 O'Clock Allison 4000EVS	1	RAS
07-03-1040		|-- Power Take-Off Hot Shift, Trans Mtd, w/Indicator Light	1	RAS
07-03-1060		|-- Hydraulic Pump, 84cc, Cassapa	1	RAS
07-04-0108		|-- Fuel Filter/Water Separator Cummins FS1065	1	RAS
07-04-0334		|-- Fuel Tank 68 Gallon/257 Liter - Dual Fill - Line-X Coated - Beveled Rear Corner	1	RAS
07-04-0216		|-- Fuel Lines Aramid Braid	1	RAS
07-04-0225		|-- Fuel Shutoff Valve (2) at Filter	1	RAS
07-04-0230		|-- Fuel Cooler Rearward of Battery Box	1	RAS
08-00-0422	>	|-- Alternator Delco Remy 430 Amp	1	RAS
08-00-0096	>	Electrical System 12V DC LCS	1	RAS

PART NO	S	DESCRIPTION	QTY	ID
04-04-1312	>	|-- (1) Power Point & (1) USB/USB-C 12V Power Point - Driver's Side	1	RAS
04-04-1332	>	|-- (1) Power Point & (1) USB/USB-C 12V Power Point - Officer's Side	1	RAS
08-01-0038		|-- LCS Battery Master Switch, Ignition Switch & Push Button Start	1	RAS
08-01-006Q		|-- Driver Switch Panels, Black	1	RAS
08-01-0082		|-- LCS Driver Side Display, Aluminum Dash Panel - Black	1	RAS
08-01-0085		|-- No Driver Side Panel Switches - LCS	1	RAS
08-01-008A		|-- LCS Officer Side Aluminum Dash Panel w/LCS Display - Black	1	RAS
08-01-008G		|-- No Officer Side Panel Switches - LCS	1	RAS
08-02-0176	< >	|-- Accessory Power Distribution Panel - 12 Position 40A Battery Direct w/Ground	1	RAS
		Please indicate location for Power Distribution panel(s):		
08-03-0110	< >	|-- Communication Antenna Base Cab Roof - RBM Supplied	2	RAS
		Shop Note Roof location. Location will be affected by Aerial Devices or Roof Mounted Accessories.		
08-03-0230		|-- Antenna Cable Routing Under Driver Front Seat	2	RAS
08-03-0500	< >	|-- GPS Antenna, Install Customer Supplied	1	RAS
		Shop Note Roof location. Location will be affected by Aerial Devices or Roof Mounted Accessories.		
		Items must ship to Rosenbauer Motors with embedded pdf (customer supplied packing sheet) within 15 days of receipt of production files.		
		Forward Locations ONLY		
08-03-0230		|-- Antenna Cable Routing Under Driver Front Seat	1	RAS
08-04-1102	>	|-- Radio WB/AM/FM/Bluetooth - Overhead Mount, Aluminum	1	RAS
08-04-1140		|-- Overhead Radio Mount - Driver's Side	1	RAS
08-04-2100		|-- Four (4) Speakers	1	RAS
08-02-0611		|-- Weldon VDR/Seat Belt Warn - LCS	1	RAS
08-01-001D	<	|-- Commander Digital Gauge Aluminum Dash Black LCS	1	RAS
08-01-001J		|-- Instrumentation Standard Digital Display With DEF	1	RAS
08-00-0322		|-- Batteries (6) Group 31	1	RAS
08-00-023A		|-- Battery Box Driver/Officer Side Hot Dipped Galvanized Steel w/Covers - 6 Battery	1	RAS
08-00-0240		|-- Battery Cables (6) - LCS	1	RAS
08-00-0251		|-- Battery Jumper Studs Front Driver Lower Step	1	RAS
08-01-0040	>	|-- Power & Ground Stud 40A Battery Direct / 15A Ignition	1	RAS
54-01-1220		|-- Ground Lights, Front Bumper, LED, Whelen 3SC0CDCR, Pair	1	RAS
08-00-072D		|-- Ground Lights LED Whelen 3SC0CDCR	4	RAS
08-01-0751		|-- Ground Lights Activation with Park Brake	4	RAS
08-00-0735		|-- Cab Step Lights LED (1 Per Door)	4	RAS
08-01-0753		|-- Step Lights Activated Respective Side	4	RAS
08-00-074A		|-- Interior Door Warn Lights Weldon 15" Amber Direct Flash Mounted Above Window	4	RAS

PART NO	S	DESCRIPTION	QTY	ID
08-00-0783		|-- Engine Compartment Work Light LED (2)	1	RAS
08-00-0796		|-- Standard Dome Light Activation	1	RAS
08-00-0791	>	|-- Interior Overhead LED Lighting - Red/Clear	1	RAS
52-08-1225	>	|-- Hand Light, Vulcan, With LED, w/ 12V Charger,p/n 44451	4	RAS
52-08-2300	>	|-- Hand Light Install Location, Cab, Define	1	RAS
52-08-2310	>	|-- Flashlight Install Engine Tunnel	1	RAS
08-00-4090	>	Door Open/Hazard Warn Light, Flash, Whelen 3SR00FRR LED Round (Do Not Move)	1	RAS
08-00-4104	<	Door Open Alarm w/Override LCS Display There shall be a switch in the LCS screens to turn the door ajar light and alarm off in the event a sensor fails.	1	RAS
08-01-2010		Back-Up Alarm Ecco 575	1	RAS
08-02-0770		|-- HAAS Alert System	1	RAS
08-02-0775		|-- HAAS - 5 Year Subscription	1	RAS
08-05-1100		Aerial Interface - Rosenbauer Aerial - Multiplex	1	RAS
08-05-2005	<	|-- Aerial Pre Wire - LCS Includes: - (3) 2 gauge Batteries cables, 2 red & 1 black - ran down driver's side from forward cross member to extend 5 ft beyond frame - cap both ends - ¼" fuel line loop from fuel tank aux pick-up to aux return down the driver side to the first cross member behind the cab with an additional 10 ft of hose. Mark hose with a sticker to indicate which side of loop is for pick up and return. - Arrow Stick Harness from Dash to extend 10 ft beyond end of frame rails - (2) Pieces of ¼" airline to run down the driver side from behind the cab to extend 10 ft beyond the frame rails. - LCS CAN cable from rear of cab to extend 10 ft beyond frame rails	1	RAS
08-06-0023	>	Camera System with LCS	1	RAS
08-06-7045	>	|-- FRC InView 360 - 4 Camera System - LCS	1	RAS
08-08-10AP		Air Brake Compressor, KUSSMAUL, 120V, 091-9B-4	1	RAS
08-08-0024	>	|-- Air Compressor Location - Inside Officer's EMS Compartment - Ceiling	1	RAS
08-08-KMCT		Battery Charger, KUSSMAUL, Chief Series 6012 w/Remote Display	1	RAS
08-08-0003		|-- Battery Charger Location - Inside Driver's EMS Compartment - Ceiling	1	RAS
08-08-20AR		|-- Shoreline, Super Auto Eject, 20A, Red	1	RAS
08-08-06SF		|-- Shoreline Location Driver's Front Stepwell	1	RAS
08-08-41SW	<	|-- Indicator Location Drivers Step Well 208DS	1	RAS

PART NO	S	DESCRIPTION	QTY	ID
27-35-6100		|-- Water Tank Gauge, Whelen PS TANK2 LED, Level Lights, Pair, FRC	1	RAS
27-35-6504		|-- Mounting Location, Upper Cab Corners	1	RAS
50-41-6100	>	|-- Air Horns Two (2) 24" Round - Grover - Chrome	1	RAS
50-41-8150		|-- Air Horn Location Two (2) Recess Mounted, Inboard, 1 Each Side	1	RAS
50-43-1000		|-- Air Horn Controls	1	RAS
50-43-2000		|-- Air Horn Control, Driver, Horn Ring, Air/Electric	1	RAS
50-43-2500		|-- Air Horn Control, Dual Lanyard Pull Cord	1	RAS
51-00-1800		|-- 12V Power/Ground, 30A, Rear Cab Cabinet	1	RAS
51-00-4010		|-- Constant Power	1	RAS
51-00-1800		|-- 12V Power/Ground, 30A, Rear Cab Cabinet	1	RAS
51-00-4010		|-- Constant Power	1	RAS
54-15-5900		|-- Scene Light - Front / Cab Brow	1	RAS
51-16-5026	>	|-- Scene Light, Fire Tech, FT-B-65-B, 65", Black	1	RAS
54-15-6096	>	|-- 3-Way Control Switch, Front Scene Lights, Driver & Officer LCS/Pump Panel	1	RAS
54-15-5908		|-- Scene Light - Cab Left Side	1	RAS
54-15-4805		|-- Scene Light, FireTech, Guardian, FT-GSM-B, Surface Mount, Black Housing	1	RAS
54-15-6496	>	|-- 3-Way Control Switch, Left Scene Lights, Driver & Officer LCS/Pump Panel	1	RAS
54-15-5912		|-- Scene Light - Cab Right Side	1	RAS
54-15-4805		|-- Scene Light, FireTech, Guardian, FT-GSM-B, Surface Mount, Black Housing	1	RAS
54-15-6596	>	|-- 3-Way Control Switch, Right Scene Lights, Driver & Officer LCS/Pump Panel	1	RAS
56-01-1600		|-- Siren, Electronic, Whelen 295SLSA1	1	RAS
56-02-1600		|-- Speaker, Fed Sig Dynamax, ES100C 100 Watt	1	RAS
56-02-1650		|-- Speaker Grille, SST, "R"	1	RAS
56-03-1300		|-- Speaker Location, Bumper, Recessed, Right Side	1	RAS
56-06-0500	>	|-- Siren, Fed-Sig, Q2B-NN Mech, Bumper, Partially Rcsd, Left Side Q2B-012NNSD Chro	1	RAS
56-07-1900		|-- Q2B Siren E-Master Interlock	1	RAS
56-07-1300		|-- Siren Control, Fed-Sig, Q2B, Driver's Side Foot Switch	1	RAS
56-07-1400		|-- Siren Control, Fed-Sig, Q2B, Officer's Side Foot Switch	1	RAS
56-07-1210		|-- Siren Brakes, Fed-Sig, Q2B, (1) ea Side Driver & Officer Dash	1	RAS
57-02-4600	>	|-- Light Bar, Whelen, Freedom IV, F4NMINI, LED, 21.5" (Pair)	1	RAS
57-08-1210	>	|-- Traffic Emitter, GTT Opticom, Roof Mntd, 492H High-Priority, Wired to Park Brake	1	RAS
57-10-0105		|-- Light Bar Control, with LCS Master & Virtual Switch	1	RAS
57-01-0500		|-- Warning Light Zone Control	1	RAS
57-09-1000		|-- Switch , Disable, "White Light", Zone A (Forward Facing)	1	RAS
58-03-6300		|-- Warning Lights, Whelen, Upper Wing, (2) M6 LED	1	RAS
57-20-1210		|-- Warn Light, Driver, Whelen, M6, Red LED, Clear Lens, Ea	1	RAS
57-20-1217		|-- Warn Light, Officer, Whelen, M6, Green LED, Clear Lens, Ea	1	RAS

PART NO	S	DESCRIPTION	QTY	ID
58-01-2140		|-- Flange, Chrome, Warning Light, Whelen, M6, Ea	2	RAS
58-03-7300		|-- Warning Lights, Whelen, Inboard Position, (2) M6 LED	1	RAS
57-20-1210		|-- Warn Light, Driver, Whelen, M6, Red LED, Clear Lens, Ea	1	RAS
57-20-1217		|-- Warn Light, Officer, Whelen, M6, Green LED, Clear Lens, Ea	1	RAS
58-01-2140		|-- Flange, Chrome, Warning Light, Whelen, M6, Ea	2	RAS
58-09-2000		|-- Warning Lights, Whelen, Intersection, (2) M6 LED	1	RAS
57-20-1210		|-- Warn Light, Driver, Whelen, M6, Red LED, Clear Lens, Ea	1	RAS
57-20-1211		|-- Warn Light, Officer, Whelen, M6, Red LED, Clear Lens, Ea	1	RAS
58-01-2140		|-- Flange, Chrome, Warning Light, Whelen, M6, Ea	2	RAS
58-16-2100		|-- Warning Lights, Whelen, Lower Mid Chassis (2) M6 LED	1	RAS
57-20-1210		|-- Warn Light, Driver, Whelen, M6, Red LED, Clear Lens, Ea	1	RAS
57-20-1211		|-- Warn Light, Officer, Whelen, M6, Red LED, Clear Lens, Ea	1	RAS
58-01-2140		|-- Flange, Chrome, Warning Light, Whelen, M6, Ea	2	RAS
58-08-0008		|-- Lower Zone B and D Light Provided with Body	1	RAS
58-91-1220		|-- Traffic Arrow Light, Whelen, 36" TIR6 Super-LED, TAM65	1	RAS
58-91-2108		|-- Control Head, Traffic Arrow, Whelen TACTL5	1	RAS

Oak Brook FD Chassis Spec
Rosenbauer/Sentinel Emergency Solutions

COMMANDER CHASSIS

The Rosenbauer Commander is a custom designed chassis exclusively for the fire service that provides a full tilt-type customized fire apparatus chassis and occupant cab. All Rosenbauer chassis are designed, engineered, tested, and individually manufactured at our Wyoming Minnesota Campus by a group of highly skilled individuals which eliminates any potential split responsibility between an apparatus body builder and a separate chassis builder. The entire Rosenbauer fire apparatus, including the chassis, is manufactured specifically for fire service use, will be capable of meeting the stringent demands of fire service duty and meets all current NFPA 1901 guidelines.

NFPA STANDARDS

This unit shall comply with all of the current NFPA standards.

Certification of slip resistance of all stepping, standing and walking surfaces shall be supplied with delivery of the apparatus.

A plate that is highly visible to the driver while seated shall be provided which states the overall height, length, and gross vehicle weight rating.

The manufacturer shall have programs in place for training, proficiency testing and performance for any staff involved with certifications.

An official of the company shall designate, in writing, which is qualified to witness and certify test results.

PAINT WARRANTY TEN YEAR

The PPG paint performance guarantee will cover the areas of the vehicle finished with the specified product for a period of TEN (10) years beginning the day the vehicle is delivered to the purchaser.

The full apparatus chassis, manufactured and painted by Rosenbauer Motors, LLC, shall be covered for the following paint failures as outlined on the guarantee certificate:

- Peeling or delaminating of the topcoat and/or other layers of paint.
- Cracking or checking.
- Loss of gloss caused by cracking, checking, or hazing.
- Any paint failure caused by defective PPG Fleet Finishes, which are covered by this guarantee.

All guarantee exclusions, limitations, and methods of claims are covered in the full certificate provided to the original purchaser.

Oak Brook FD Chassis Spec
Rosenbauer/Sentinel Emergency Solutions

Note: Surety bond, if required, will cover the standard one year warranty period only and will not cover any extended warranties allowed by the seller or other component manufacturers.

CAB STRUCTURE WARRANTY

The cab structure shall be warranted for a period of ten (10) years with the complete details of the warranty outlined in a document provided upon request.

TRANSMISSION WARRANTY

The Allison EVS transmission shall be warranted for a period of five (5) years with the complete details of the warranty outlined in a document provided upon request.

FRAME WARRANTY

Rosenbauer Motors, LLC hereby warrants to the original purchaser, that the frame and cross members shall be free of defects in material and workmanship for the lifetime of the apparatus.

Rosenbauer Motors, LLC obligation under this warranty is to furnish any item or items of such frame or frame members, to replace those that have been found to be defective in material or workmanship where there in no indication of abuse, neglect, unusual or other than normal service providing that such item or items are, at the option of Rosenbauer Motors, LLC made available for our inspection at our request, returned to our factory or other location designated by us with transportation prepaid within thirty (30) days after the date of failure or within one year from the date of delivery of the apparatus to the original purchaser, whichever occurs first, and the inspection indicates the failure was attributed to defective material or workmanship. Written authorization for repair or item replacement must be sought from Rosenbauer Motors, LLC customer service prior to the repair or item replacement occurring.

This warranty shall not apply to or cover:

- Normal maintenance services or adjustments.
- Any item that has been repaired, replaced or altered by a facility not approved in advance by Rosenbauer Motors, LLC or in a manner which, at Rosenbauer Motors, LLC discretion may adversely affect the safe operation or durability of the vehicle or item.
- Special, incidental or consequential damages including, but not limited to, loss of time, inconvenience, loss of use, lost profits or transportation fees or charge to or from any facility.
- Any malfunction resulting from issue, negligence, alteration, accident or lack of operational knowledge, lack of normal or required maintenance or adjustments, exposure to chemicals, fire, severe environmental conditions, corrosion or acts of God.
- Any cutting, welding, splicing, drilling or other alteration of frame rails or flanges without express written permission from Rosenbauer Motors, LLC or if this vehicle is involved in an accident, shall render this warranty null and void.

Oak Brook FD Chassis Spec
Rosenbauer/Sentinel Emergency Solutions

This warranty is in lieu of all other warranties, expressed or implied, and all other obligations or liabilities on our part. We neither assume nor authorize any person to assume for us any liability or make any alteration to this warranty in connection with the sales of the apparatus unless expressly given in writing by Rosenbauer Motors, LLC.

FRAME GALVANIZING WARRANTY

Rosenbauer Motors, LLC hereby warrants the galvanized frame rails shall be warranted for a period of twenty 20 years and includes the following coverage:

- The galvanized surfaces of the frame rails and cross members shall be free from corrosion caused by dissimilar metals, adhesion, blistering or peeling.
- The galvanized surfaces of the frame rails and cross members shall be free from any corrosion perforation.

Under this warranty Rosenbauer Motors, LLC agrees to repair or refinish any galvanized surface that has been found to have a defect caused by defective manufacturing methods or galvanized material where there is no indication of abuse, neglect, unusual or other than normal service providing that such item or items are, at the option of Rosenbauer Motors, LLC, made available for our inspection at our request, returned to our factory or other location designated by us with transportation prepaid within thirty days after the date of failure or within twenty years from the date of delivery of the apparatus to the original purchaser, whichever occurs first, and inspection indicates the failure was attributed to a defect caused by defective manufacturing methods or galvanized material selection. Written authorization for repair or item replacement must be sought from Rosenbauer Motors, LLC customer service prior to the repair or item replacement occurring.

Coverage Period
0 – 10 years = 100%
11 – 15 years = 50%
16 – 20 years = 25%

This warranty shall not apply to or cover:

- Normal maintenance services include cleaning and repair of surface corrosion caused by normal road salt/chemicals or debris contacting the frame rails and cross members.
- Damage to the galvanized frame rails caused by exposure to severe environmental or chemical conditions or acidic environment.
- Any item that has been repaired, replaced, or altered by a facility not approved in advance by Rosenbauer Motors, LLC, or in a manner which, at Rosenbauer Motors, LLC discretion, may adversely affect the safe operation or durability of the vehicle or item.
- Special, incidental, or consequential damages including, but not limited to, loss of time, inconvenience, loss of use, lost profits or transportation fees or charges to or from any facility.

- Any malfunction resulting from misuse, negligence, alteration, accident or lack of operational knowledge, lack of normal or required maintenance or adjustments, fire or acts of God.

This warranty is in lieu of all other warranties expressed or implied, and all other obligations or liabilities on our part. This warranty does not supersede the structural warranty We neither assume nor authorize any person to assume for us any liability or make any alteration to this warranty in connection with the sale of our apparatus unless expressly given in writing by Rosenbauer Motors, LLC, 5190 260th St. Wyoming, MN 55092.

NOTE: Surety bond, if required, will cover the standard one-year warranty period only and will not cover any extended warranties allowed by seller or other component manufacturers.

FRONT AXLE WARRANTY

The front axle shall be warranted by Hendrickson for five (5) years or 500,000 miles, whichever comes first, under the general service application.

REAR AXLE WARRANTY

The rear axle(s) shall be warranted by Meritor for five (5) years with unlimited miles under the general service application.

CAB AND CHASSIS WARRANTY

The cab and chassis shall carry a twenty-four (24) month warranty providing limited parts and labor from the date the complete apparatus is delivered to the end user. The complete details of the warranty shall be outlined in a document provided upon request.

ENGINE WARRANTY

The Cummins engine shall be warranted for a period of five (5) years or 100,000 miles, whichever comes first, with the complete details of the warranty outlined in a document provided upon request.

LCS WARRANTY – 4 YEAR

A four (4) year limited LCS system warranty, shall be provided by the apparatus manufacturer for parts and labor, while under normal use and service; against mechanical, electrical, and physical defects from the date of manufacture.

The warranty shall exclude sensors, shunt interface modules, serial or USB kits, transceivers, cameras, GPS, and electrical displays, which shall be limited to a period of one a (1) year repair parts and labor from the date of installation. A copy of the warranty shall be provided with each Bidders proposal for the review and evaluation of the Purchaser.

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STATIC LOAD SEAT TEST INFORMATION

This model of seat shall have successfully completed the static load tests set forth by FMVSS 207/210. This testing shall include a simultaneous forward load of 3000 pounds each on the lap and shoulder belts and twenty (20) times the weight through the center of gravity. This model of seat installed in the cab model, as specified, shall have successfully completed the dynamic sled testing using FMVSS 208 as a guide with the following accommodations. To reflect the larger size outfitted firefighters, the test dummy used shall be a 95th percentile hybrid III male weighing 225 pounds rather than the 50th percentile male dummy weighing 165 pounds as referenced in FMVSS 208.

The materials used in construction of the seat shall also have successfully completed testing regarding the flammability of materials used in the occupant compartments of motor vehicles as outlined in FMVSS 302, of which dictates the allowable burning rate of materials in the occupant compartments of motor vehicles.

CAB TEST INFORMATION

The cab as built shall have successfully completed the pre-load side impact, static roof load application and frontal impact without encroachment to the occupant survival space when tested in accordance with Section 4 of SAE J2420 COE Frontal Strength Evaluation Dynamic Loading Heavy Trucks, Section 5 of SAE J2422 Cab Roof Strength Evaluation Quasi –Static Loading Heavy Trucks and ECE R29 Uniform Provisions Concerning the Approval of Vehicles with regard to the Protection of the Occupants of the Cab of a Commercial Vehicles Annex 3 Paragraph 5.

The above tests shall have been witnessed by and attested to by an independent third party. The test results shall have been recorded using cameras, high speed imagers, accelerometers, and strain gauges.

Documentation of the testing shall be provided upon request.

CAB INTEGRITY CERTIFICATION

The manufacturer shall provide a cab crash test certification with this proposal including SAE J2422 Cab Roof Strength Evaluation - Quasi-Static Loading for Heavy Trucks and SAE J2420 COE Frontal Strength Evaluation - Dynamic Load for Heavy Trucks.

ROOF CRUSH

The cab shall be subjected to a roof crush test of 120,000 pounds exceeding the requirements of ECE 29 criteria. The 120,000-pound requirement is important to ensure the most structurally sound and safe cab in the event of a crash or roll over.

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SIDE IMPACT

The cab shall be subjected to dynamic moving barrier slammed into the side of the cab at 7.5 mph, striking with an impact of 15,157-foot pounds of energy. This test will closely represent the forces a cab would incur in a rollover incident.

FRONTAL IMPACT

The cab shall withstand a frontal force produced from a moving barrier slammed into the front of the cab traveling at 10.5 mph, striking with an impact of 42,587-foot pounds of energy.

The same cab shall withstand all tests without any measurable intrusion into the survival space of the occupant area.

OPERATION AND PARTS LIST MANUALS

Each cab and chassis shall include two (2) electronic copies of the operation manuals and parts listings. The manuals shall include information specific to the components included on the apparatus.

ENGINE AND TRANSMISSION MANUALS

One (1) paper copy of the specific engine and transmission manuals shall accompany each cab and chassis.

AS BUILT WIRING DIAGRAMS

Each cab and chassis shall include one (1) digital copy of the wiring schematics and component wiring. The wiring schematics shall be developed on a software program such as VeSys Design or equal that provides continuity in files and diagrams. The software shall allow you to trace through the design schematics to identify cross-referenced items such as in-line connectors and wires. The software shall be interactive which allows you to view one electrical assembly drawing, click on a wire routing and the program will take you to the related circuit assembly or termination point. The software shall also provide a searchable function allowing you to view multiple diagrams using readily available pdf viewers. The digital copy of the wiring schematics shall be compatible with handheld devices such as I-Pads.

USB STORAGE

For ease of service the chassis will come with an on-board USB flash drive. The flash drive shall have a minimum of 64 GB of storage capacity; and shall be located behind the access panel on the driver side kick panel, next to the data port for the engine.

The following items shall be stored on the Flash Drive. No Exception.

- As built wiring diagrams

- Plumbing diagram
- Chassis, body and aerial manuals

The USB shall be accessible through a 3-foot (3') USB-A to USB-B cable provided by the manufacture with the completed vehicle.

ROAD SAFETY KIT

- One (1) 2-1/2# ABC DOT Approved fire extinguisher shall be provided. The fire extinguisher shall be shipped loose with the chassis.
- One (1) set of DOT approved hazard triangles shall be supplied with the chassis. They shall be stored in a plastic case and shipped loose with the chassis.
- One (1) first aid kit

CAB CUSTOM STYLE

The cab shall be a custom, cab over engine style, with the driver and officer positions ahead of the engine and front axle. The cab shall be specifically designed and manufactured for the fire service industry.

The cab shall be designed by manufacturer's engineering to meet the unique, heavy-duty construction specifications. The raw cab will be fabricated to meet the exact demand of the fire industry and shall be manufactured by a company with no less than 50 years of experience in building custom cabs. All aspects of the cab will be quality checked by manufacturers personnel. All cab and chassis customization and assembly will take place on the manufacturer's premises.

The cab shall be of a totally enclosed full tilt design, with the interior area completely open to improve visibility and verbal communication between the occupants. The cab shall be capable of tilting 45-degrees, allowing the chassis engine to be removed, if required, without tilting the cab beyond 45-degrees. No Exceptions.

The cab shall include a four (4)-point rubber isolated cab pivot and mounting system. The rear histic mounts shall be isolated from the chassis frame to reduce the transfer of road vibrations and frame torque into the cab, while providing superior handling characteristics. No solid mounted rear lock downs will be acceptable. No Exceptions.

The front cab pivot assemblies shall be 1/2" A36 steel plate with a .31" thick 2-1/2" diameter tube cross member mechanically attached to the cab and frame. There shall be two (2) greaseable rubber isolated engineered bushings to reduce the transfer of road vibrations into the cab.

The cab shall be locked down by a two (2)-point automatic spring-loaded hook mechanism that actuates after the cab has been lowered.

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The cab super-structure shall be designed with high strength 6061-T6 aluminum extrusions and 3/16" 5052-H32 aluminum plate. This shall include the “A”, “B”, “C” and “D” extruded pillars, triple wall front end reinforced by 3/16" thick x 2"x3" extrusion tubes, 3/16" side walls and rear wall. This shall offer superior occupant protection in the event of vehicle impact.

The extrusions shall provide adequate space for routing of wiring and hoses which will provide service accessibility. Routing of harnessing which requires pulling of wires through tubes will not be allowed. No Exceptions.

The "A" pillar shall be of a closed section, one-piece extrusion extending from the cab header to the bottom of the cab. This design shall ensure strength and superior resistance to buckling in the event of a frontal impact.

The cabs front corners shall be constructed of 5052-H32 stamped aluminum to provide a consistent material composition. The stamping process alleviates the high tendency of fractures through the fusing of dissimilar metal composition as appears with a casting process.

Cast cab components, including cab corners, "A" pillars and front fascia components shall not be acceptable due to the high tendency of fractures. No Exceptions.

Additional cab strength shall be obtained through closed section, dual extrusions in the construction of the "D" pillars.

The front facade shall be constructed with dual wall .19” thick 5052-H32 aluminum plates which make up the front bulkhead, reinforced by .19” thick 6061-T6 aluminum extrusion (box-sections), though-out the inner and outer perimeter of the front end / facade. The reinforcing third wall / barrier is .13” thick 5052-H32 work hardened aluminum facade panels. All panels shall be welded, no adhesive.

The cab side wall of the cab shall be 3/16” thick 5052-H32 aluminum plate. The cab side plate shall wrap the corner of the cab b pillar and slam post. The cab rear wall plates shall be reinforced with a minimum of two (2) 3/16 x 3” aluminum sections; the cab side reinforcements shall be a minimum of 28” apart and span from the cab B pillar and cab C pillar.

The rear wall of the cab shall be 3/16” thick 5052-H32 aluminum plate. The rear cab plate shall wrap the corner of the cab and attach to the cab D pillar and slam post. The cab rear wall plates shall be reinforced with four horizontal and dual vertical support sections; the dual vertical support structure shall consist of 1/8” thick x 2” 6061-T6 aluminum tubes and the horizontal hat sections shall consist of 1/8” thick x 4” 5052-H32 aluminum. The dual vertical support sections shall be 40” a-part, and the cab shall contain a minimum of four (4) 4” hat section horizontal supports.

Additionally, the rear edge of the floor shall include a 3/16” 6061-T6 aluminum tube extrusion (under the floor) and a 7” 5052-H32 aluminum cab floor support section (above the floor)

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The outside cab width shall measure 99” across. The interior cab shall have a width of 93".

The cab length shall measure 77.3” from the center of the front axle to the front cab skin and 65” from center of the front axle to the back of the cab, for a total cab length of 142.3”.

The cab shall also feature ample driver and officer foot room, a total of 3.7 square feet for the driver and 4.45 square feet of floor space at the officer’s feet. (No exceptions)

The crew floor shall feature a complete flat floor design, including provisions for a one o'clock PTO inclusion, while still offering an uninterrupted 25 total square feet of space.

The leading edge of the cab floor from the steps shall meet NFPA 15.7.4 slip resistance requirements on both the front and rear cab doors. No Exceptions.

The cab shall meet or exceed cab impact test (SAE J-2420, cab rollover test (SAE J2422), and cab seating requirements (FMVSS 210, and FMVSS 208).

The cab shall include 4 doors. They shall have a front two (2) cab doors shall have a minimum clear opening of 42.5" wide by 81” high measured from the top of the lower cab step to the top of the door opening and the rear two (2) crew doors shall be a minimum clear door opening of 38.5" wide by 91.5” high measured from the top of the lower cab step to the top of the door opening. The length of the door will vary depending on the door type.

ROOF STYLE - 11" RAISED

The cab roof design shall incorporate an angled front roof, transitioning into a rolled extrusion for a swept back design.

The roof height shall feature an 11" raise starting over the driver and officer positions and continuing back to the roof and rear wall joint. Raised roof designs that do not include a raised portion over the driver and officer positions will not be acceptable. No Exceptions.

The roof of the cab shall feature dual .25" thick interlocked structural member extrusions running the entire width of the cab defending against buckling in the event of a rollover.

The cab header shall feature dual 6061-T6 aluminum extrusions which shall offer superior rigidity and strength.

The raised roof shall offer a crew head height area of 66-1/2” from the floor to the ceiling in the crew areas for optimum headroom.

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The crew roof super structure shall include a reinforcement hat-section structure 1/8” thick 5052-H32 aluminum bracing. The for-aft support braces will be 24” on center apart, the side-to- side support braces will stretch from cab side to cab side and centered between the dual 3/16” extruded and plate reinforced roll-cage section.

The forward cab roof section shall include a combination of 1/8” 6061-T6 extruded tube reinforcements and a hat-section structure 1/8” thick 5052-H32 aluminum bracing. The bracing shall wrap the entire perimeter of the cab forward roof, and the condenser support structure.

The condenser support structure shall include 1/8” triple sections, supporting the outer perimeter and center of the condenser mounting pad.

Additionally, the entire roof super structure is reinforced by a .25” thick roof edge corner extrusion around the entire cab perimeter.

A drip rail shall be provided along the top radius of each cab side. The drip rails shall help prevent water from the cab roof running down the cab side.

DRIP RAIL EXTENSION

The cab shall have a drip rail extension in front of the driver and officer doors. The drip rail shall be connected to the rail along the roof and run midway down the “A” pillar to help prevent water from entering the cab when the front doors are opened. The rail shall be painted to match the cab exterior paint and paint break.

CAB ROOF CHANNEL

The roof of the cab shall feature a channel through the center section of the raised portion. The channel shall measure 53" wide and shall be 11" deep. The channel shall allow the aerial device to store at the same roof height as a flat roof cab.

TRIM ROOF

There shall be a 48" long section centered at the rear of the cab roof which shall be trimmed in treadplate that provides additional reinforcement:

- .08" thick, 003-H22 bright aluminum embossed treadplate
- All horizontal surfaces inside the roof trench covered
- Stainless steel fasteners
- Silver silicone caulk around the perimeter of the treadplate and at each mounting

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DRIVER SIDE EMS COMPARTMENT

The driver side of the cab shall feature a compartment which is designed for housing emergency medical or other types of equipment. The compartment shall be located immediately behind the driver's seat and the interior shall measure 23"wide x 43" tall x 24" deep (measured from the exterior door).

- The compartment shall feature an opening on the exterior and/or interior of the cab.
- The compartment shall have a minimum of 13 cubic feet of storage. No Exceptions

EMS COMPARTMENT LIP

The top of the EMS compartment shall have a 2" high aluminum lip around the entire perimeter.

DRIVER SIDE EMS COMPARTMENT – EXTERIOR HINGED DOOR

The EMS compartment shall feature:

- A hinged box pan style exterior compartment door
- A hidden, piano style stainless-steel door hinge which shall be mounted inside the panel of the door prohibiting dirt and debris from becoming trapped in the hinge.
- A clear door opening of 17.5" wide x approximately 40" tall
- The door shall open as far as possible without contacting the side of the cab or interfere with the opening or closing of the driver’s door.
- The compartment floor shall be a sweep out design. No Exceptions

EMS COMPARTMENT HANDLE

The EMS compartment handle shall be a die cast steel, chrome plated door handle.

EMS COMPARTMENT LOCKS

The door handle shall include an integral manual door lock, which may be unlocked from the exterior with a key.

DRIVER EMS CAB COMPARTMENT LIGHTING

The driver's side EMS compartment shall include one (1) 36" strip of LED lighting and shall be located in the inside front corner of the compartment near the door.

INTERIOR DRIVER EMS COMPARTMENT ACCESS

The interior driver’s EMS compartment shall have an opening of 18.75” W x 39" H. The compartment shall have a sweep out design. Compartment with a lip along the bottom shall not be accepted. No Exceptions.

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EMS COMPARTMENT INTERIOR ACCESS

The EMS compartment shall feature interior access through a ROM roll-up door facing the rear of the cab. The opening shall be 16.5” W x 39” H. (Given that there is only one ROM door per EMS compartment)

COMPARTMENT LIGHT

A ROM vertically mounted roll-up compartment LED V5 door light shall be installed on one side of the door opening. The compartment light shall be integrated into the roll-up door track with the light actuation with the door opening.

The light shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat buildup.

COMPARTMENT SHELF

One (1) adjustable shelf shall be installed in the interior cab compartment. The shelf shall be constructed from aluminum.

DRIVER EMS COMPARTMENT INTERIOR FINISH

The interior of the driver side EMS compartment shall have a DA sanded finish.

OFFICER SIDE EMS COMPARTMENT

The officer side of the cab shall feature a compartment which is designed for housing emergency medical or other types of equipment. The compartment shall be located immediately behind the officer's seat and the interior shall measure 18.5" wide x 43" tall x 23" deep (measured from the exterior door).

- The compartment shall feature an opening on the exterior and/or interior of the cab.
- The compartment shall have a minimum of 13 cubic feet of storage. No Exceptions

EMS COMPARTMENT LIP

The top of the EMS compartment shall have a 2" high aluminum lip around the entire perimeter.

OFFICER SIDE EMS COMPARTMENT – Exterior Hinged Door

The EMS compartment shall feature:

- A hinged box pan style exterior compartment door
- A hidden, piano style stainless-steel door hinge which shall be mounted inside the panel of the door prohibiting dirt and debris from becoming trapped in the hinge.
- A clear door opening of 17.5" wide x approximately 40" tall

- The door shall open as far as possible without contacting the side of the cab or interfere with the opening or closing of the officer's door.
- The compartment floor shall be a sweep out design. No Exceptions

EMS COMPARTMENT HANDLE

The EMS compartment handle shall be a die cast steel, chrome plated door handle.

EMS COMPARTMENT LOCKS

The door handle shall include an integral manual door lock, which may be unlocked from the exterior with a key.

OFFICER EMS CAB COMPARTMENT LIGHTING

The officer's side EMS compartment shall include one (1) 36" strip of LED lighting and shall be located in the inside front corner of the compartment near the door.

INTERIOR OFFICER EMS COMPARTMENT ACCESS

The interior officer's EMS compartment shall have an opening of 18.75"W and 39" H. The compartment shall have a sweep out design. Compartment with a lip along the bottom shall be not accepted. No Exceptions.

EMS COMPARTMENT INTERIOR ACCESS

The EMS compartment shall feature interior access through a ROM roll-up door facing the rear of the cab. The opening shall be 16.5" W x 39" H. (Given that there is only one ROM door per EMS compartment)

COMPARTMENT LIGHT

A ROM vertically mounted roll-up compartment LED V5 door light shall be installed on one side of the door opening. The compartment light shall be integrated into the roll-up door track with the light actuation with the door opening.

The light shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat buildup.

COMPARTMENT SHELF

One (1) adjustable shelf shall be installed in the interior cab compartment. The shelf shall be constructed from aluminum.

OFFICER EMS COMPARTMENT INTERIOR FINISH

The interior of the officer side EMS compartment shall have a DA sanded finish.

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CAB STEPS

The cab steps shall meet NFPA 13-7.3 in size and slip resistance requirements.

The cab shall incorporate a two-step design at each door, with a first step height of approximately 22” from the ground. The leading edge of the first step shall be 5" further outboard than the second step to provide a staircase design for safer egress.

The front cab first step shall measure a minimum of 33" wide x 10" deep. The front cab intermediate step shall measure a minimum 31" wide x 8" deep.

The crew cab first step shall measure a minimum of 26" wide x 10" deep. The crew cab intermediate step shall measure a minimum 28" wide x 9" deep.

The top crew step shall incorporate an angle approximately midway from the rear wall to the crew door hinge extending out the flooring under the rear facing outer seat positions, offering foot placement for safety while seated in this position.

CAB STEP TRIM

The cab steps shall include a .80-gauge stainless steel construction on the first step, the step closest to the ground. The stainless-steel finish shall be a number 7 mirror. The step shall include a frame which is integral with the construction of the cab for rigidity and strength. The round hole pattern shall allow water and other debris to flow through rather than becoming packed under the step. The middle step shall be integral with the cab in construction and shall be trimmed in 3003-H22 embossed aluminum tread plate which is 0.100" thick.

CAB DOORS

The cab shall include a total of four (4) doors, two (2) forward and two (2) rear crew doors.

The forward cab doors shall be a minimum of 45" wide and have a cab structure opening of 42.5" wide. The rear crew doors shall be a minimum of 41" wide and a cab structure opening of 38.5" wide to provide enhanced entry and egress of the cab.

Each cab door shall feature:

- Superior strength and rigidity from 3/16" closed section extruded door frames
- Damping inside each door for a solid feel and minimized reverberation when closed
- A rolled rubber bulb seal style gasket shall be utilized around the door ensuring a weather tight fit
- Integrated, mechanical door stop
- A full length, hidden piano style 10-gauge stainless steel door hinge with a 3/8" pin, which shall be mounted inside the panel of the door prohibiting dirt and debris from becoming trapped in the hinge

- An integrated one-piece inner door assembly that includes a glass track, mounting provisions for window regulator, door handle and door panel shall be utilized. The inner door assembly shall be easily removed with nut inserts. Self-tapping screws shall not be acceptable.

BARRIER FREE DOORS

The cab doors shall be "barrier free" style, meaning the door shall be constructed to cover the entry down to the intermediate step, leaving the bottom step open. Each door shall provide approximately 33" of clearance from the ground to the bottom of the door so the door may be opened without stopping due to guard rails along highways.

The lower step well of the cab shall be painted job to match the lower primary color of the cab.

CAB STEP TRIM KICKPLATE

The vertical section of all cab step risers at each door shall include an aluminum treadplate finish.

CAB DOOR INSULATION

The cab doors shall have insulation installed on the interior of the door skin in the areas that will not interfere operation of any of the door components.

DOOR HANDLES

The exterior door handles shall be constructed of die-cast steel and chrome plated for a pleasing appearance. They shall feature a vertically oriented heavy duty pull style handles which are extended out and suitable for easy grasping with a gloved hand.

The interior door handle shall be a paddle style which shall be chrome in color. The paddle shall be hinged towards the rear of the cab.

Each door latch shall feature a military grade aligning dove tail guide striker assembly for precision door closure which prevents sagging throughout the life of the vehicle. No exceptions.

CAB DOOR LOCKS

All cab doors shall include manual door locks with keys. The door lock shall include a toggle and shall be an integral part of the interior door handle which is red in color. The exterior door lock is integrated with the door latch. The cab doors may be unlocked from the exterior with a key or through a thumb turn from inside the cab.

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INTERIOR CAB DOORS

All cab doors shall consist of a one-piece formed and stamped aluminum interior panel. The panel shall include a formed collar around the interior door latch. The door panels shall be attached to the door with nutserts. ABS material shall not be acceptable. No exceptions.

INTERIOR CAB DOOR FINISH

All cab doors shall be finished with a polyurethane coating for durability. The finish shall be black in color.

CAB DOOR TRIM

Each cab door jamb shall include a polished stainless steel trim piece which shall assist in preventing scuffs and abrasion from equipment coming in contact with painted surfaces during egress.

INTERIOR FRONT DOOR PULL

The interior driver and officer cab doors shall each include one (1) customized cast aluminum single piece door grab pull designed specifically for the fire service.

The single piece door pull shall have a curved designed in an “L” formation to provide multiple points for grasping with a gloved hand. The horizontal dimension shall be a minimum of 28" and the vertical dimension shall be a minimum of 20". The door pulls shall have an ergonomic curve making them easier to grasp when entering and exiting the cab. No Exceptions.

The door pull shall feature secure mounting in three separate locations of the pull utilizing stainless-steel fasteners with nut inserts in each location. Self-tapping screws or other mounting techniques shall not be allowed for interior door pulls or grab handles.

Each handle shall be constructed of A356 aluminum casting and shall feature a red powder coated finish.

INTERIOR GRAB HANDLE REAR DOOR

The interior driver and officer rear cab crew doors shall include one (1) customized cast aluminum single piece door grab pulls designed specifically for the fire service.

A red powder coated cast aluminum grab handle shall be provided on the inside of each rear crew door. The handle shall extend horizontally the width of the window just above the windowsill. The handle shall have an ergonomic curve making it easier to grasp assisting with entry and egress from the crew area of the vehicle. No Exceptions.

The door pull shall feature secure mounting with stainless-steel fasteners with nut inserts in each location. Self-tapping screws or other mounting techniques shall not be allowed for interior door pulls or grab handles.

Each handle shall be constructed of A356 aluminum casting and shall feature a red powder coated finish.

GRAB HANDLES "A" PILLAR

Two (2) additional molded 9.00” rubberized grab handles shall be installed inside the cab adjacent to the front doors. The handles shall be located, one (1) on the driver’s side "A" Pillar and one (1) on the officer's side on the "A" Pillar.

WINDSHIELD

The windshield shall feature a completely uninterrupted view from the driver to the officer side with:

- A heated one (1)-piece, safety glass full width windshield with more than 3,228 square inches of area will be provided. No Exceptions.
- The windshield will consist of three (3) layers. The outer layer, the middle safety laminate, and the inner layer. The .114" thick outer light layer will provide superior chip resistance. The middle safety laminate layer will prevent the windshield glass pieces from detaching in the event of breakage.
- The windshield shall be equipped with an electronically controlled 12-volt heating element's embedded in the windshield to assist in rapid defogging and defrosting. No exception
- Easily removable for replacement using standard automotive techniques
- A frit band will be provided along with an outer trim seal on the outside perimeter of the windshield for a finished automotive appearance.
- The heat activation will be a switch on the driver panel if it is a hard-wired truck or a switch in the vista if it is a multiplex electrical system.

HEATED WINDSHIELD SWITCH

The heated windshield switch shall be located on the LCS display.

WINDSHIELD WIPER SYSTEM

A single windshield wiper system shall be incorporated in conformance with FMVSS and SAE requirements. The outer two wiper arms shall be 24” in length. They shall include a 22” wiper blade for each arm. The inner wiper arm shall be 28” in length. The inner wiper arm shall include a 14” wiper blade.

The windshield wiper fluid reservoir can be filled with raising of the cab.

WINDSHIELD WIPER ACTIVATION

The windshield wipers shall be activated through LCS.

POWER WINDOW - DRIVER'S DOOR

The driver's door shall include a window which measures a minimum of 23.5" wide x 29" high, measured from the midpoints left to right and top to bottom. The window shall have a minimum clear viewing area of 681 square inches. The glass shall include a standard automotive tint and through powered actuation, shall completely roll into the door housing.

The window shall be trimmed in a black anodized aluminum ring and rubber seal to prevent water from entering the cab when closed.

POWER WINDOW SWITCHES

The Driver shall have switches for each of the cab door windows. The powered windows in the officer door, and each respective crew door, shall be activated by a switch on the respective door itself.

The switches for the driver and officer door windows shall be installed within a customized door grab handle. No Exception

POWER WINDOW - OFFICER'S DOOR

The officer's door shall include a window which measures a minimum of 23.5" wide x 29" high, measured from the midpoints left to right and top to bottom. The window shall have a minimum clear viewing area of 681 square inches. The glass shall include a standard automotive tint and through powered actuation, shall completely roll into the door housing.

The window shall be trimmed in a black anodized aluminum ring and rubber seal to prevent water from entering the cab when closed.

REAR DRIVER SIDE WINDOW

The rear driver's side crew door shall include a window measuring 22.5" wide x 27" high, measured from the midpoints left to right and top to bottom. The window shall have a minimum clear viewing area of 607 square inches. The glass shall include a standard automotive tint and through powered actuation, shall roll completely into the door housing. The power window shall be activated through a switch located on the top of the door panel.

REAR OFFICER SIDE WINDOW

The rear officer's side crew door shall include a window measuring 22.5" wide x 27" high, measured from the midpoints left to right and top to bottom. The window shall have a minimum clear viewing area of 607 square inches. The glass shall include a standard automotive tint and through powered actuation, shall roll completely into the door housing.

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CAB INSULATION

The cab shall be insulated from road and vehicle resonance, exterior sound, and thermal intrusion.

The cab insulation system shall be comprised of three separate components each designed to assure optimal thermal and acoustic properties are achieved. Two layers of insulation material shall be utilized.

A minimum of .8" of SCbond Polyurethane Foam insulation shall be applied as an additional insulation between the cab skin and all interior ceiling surfaces. The insulation shall have a density of 10 lb/ft3 +/-.5 providing better thermal properties and acoustic reduction properties.

A layer of 1/8" barrier bubble film laminated between two layers of reflective metalized film shall be provided in the roof to minimize the effects of radiant heat. The barrier shall be mold and mildew resistant and have a Class A/Class 1 fire rating. The barrier shall have a minimum of a R-5.6 rating. No Exception

The interior cab insulation system shall meet NFPA 1901 14.1.6 standards and ensure that no seated position within the cab exceeds 90dB. This decibel rating shall be measured with the apparatus traveling 45 mph with climate control settings off.

All insulation used in the construction of the cab shall be marine grade featuring longevity and resistance to degradation.

The interior of the cab including the rear wall, side walls and ceiling panels shall be insulated.

Use of open cell material as the primary insulation will not be acceptable. No exceptions.

CAB UNDERBODY INSULATION

The underside of the cab shall include at a minimum of 1" of a uni-seal Cab-Foam insulation offering reducing vibration noise and thermal effect to the interior of the cab.

DAMPING INSULATION

The entire cab, including the ceiling and walls shall include additional insulation reducing structure borne noise from vibration, impact, and resonance within the cab.

ENGINE TUNNEL INSULATION

The engine tunnel shall include an insulated barrier from noise on the underside of each tunnel surface. This barrier shall be engineered for surrounding engines.

The insulation barrier shall provide an acceptable decibel level within the cab meeting or exceeding the recommendations of NFPA 1901.

The thickness of the engine tunnel insulation shall be 1" thick. The insulating material shall be open cell polyether-based foam with a textured surface, specifically designed for acoustic absorption.

Use of aluminized faced material on the engine tunnel shall not be acceptable. No exceptions.

The engine tunnel insulation shall be precisely cut and sealed to fit each segment on the underside of the tunnel surface. The insulation shall then be affixed by a pressure sensitive adhesive.

The insulation shall meet or exceed FMVSS 302 flammability testing.

REAR WALL INTERIOR MATERIAL

The rear wall of the cab shall be coated with a polyurethane coating for a durable finish. The color shall be black.

INTERIOR TRIM MATERIAL

The interior trim shall feature a 31 oz. marine grade vinyl which features a tensile strength of ASTM D751 of excellent, tear strength meeting the Federal standard 191-5134 of excellent and shall be oil resistant passing the CID-A-A-2950A requirement for no permeation.

Due to the excellent qualities of the marine grade vinyl material, no other type of interior trim shall be acceptable. No Exceptions.

The soft trim vinyl shall feature mildew resistance passing ASTM G21-90 and shall be rated to -25 degrees Fahrenheit.

The vinyl shall be flame retardant meeting California Fire Code 117, UFAC Class 1, and BIFMA Class 1 and shall have a high resistance to abrasion.

The interior of the cab including the ceiling panels shall feature this soft trim and shall be black in color.

THROTTLE AND BRAKE PEDALS

The apparatus shall have suspended throttle and brake pedals.

FLOOR MAT

The interior flooring of the cab shall be covered with an advanced black multi-layer acoustic dampening mat. The floor matting shall be an open/closed cell, flexible polyurethane polyamide material with frictional dampening and dissipation properties. The mat shall be a fire and skid resistant non-wicking material.
Interior Trim Sun Visor Tinted

Oak Brook FD Chassis Spec
Rosenbauer/Sentinel Emergency Solutions

SUN VISORS

The driver and officer seats shall feature a sun visor mounted in the header over each seating position. The sun visors shall be gray tinted plastic.

ENGINE TUNNEL

The engine tunnel shall be constructed of aluminum offering superior durability in addition to thermal and acoustic resistance.

The engine tunnel shall feature:

- A low-profile design measuring approximately 46.5" wide and 21.5" in height from the crew floor shall offer optimum visibility of the windshield and cab interior from any seated position. No Exception.
- The engine tunnel at the driver's position shall be a tapered design, featuring 24" clear width at floor level, first taper shall start 16.5" from floor level and taper inward for a clear width of 26" and the final taper shall start at 21" from floor level and taper inward for a clear width of 33".
- The engine tunnel at the officer's position shall be a tapered design, featuring 23" clear width at floor level, first taper shall start 16.5" from floor level and taper inward for a clear width of 22.5" and the final taper shall start at 21" from floor level and taper inward for a clear width of 31.5".
- The design shall offer a minimum of 30" for the driver and 28.5" for the officer as measured from the inside door pan to the top edge of the tunnel. The dimension measured at the "H" (hip) point, with the seat in the lowest position, shall be a minimum of 28.5" for the driver and 27" for the officer. No Exception.
- Recessed sections for ease of mounting equipment at the rear of the tunnel or for compartments and bases which can be used for installing Fire/EMS equipment and components such as hand- held radios.

CAB DASH

The cab dash shall offer heavy duty, durable construction from formed aluminum. The cab dash shall be finished with an advanced polyurethane coating for a rugged finish.

The polyurethane finish shall provide a tough, flexible, impact-absorbing, chemical & abrasion-resistant, even-textured and skid-resistant surface. The polyurethane finish shall offer durability and scratch resistance even against today's advanced firefighting turnout materials with consistent, even coverage and a uniform texture. The polyurethane coating finish shall resist fading from UV light.

This construction shall allow for a clean, seamless dash area that shall reduce unnecessary joining of cab dash components. This design allows for the following features:

- Optimal heating and cooling of cab occupants, HVAC louvers shall be integrated into the gauge panel with a total of four (4) louvers; two louvers pointing at the driver and two louvers pointing at the officer.

- For improved safety cab switches and controls shall be ergonomically located within easy reach of the driver when in the seated position with seatbelts fastened. This design will reduce driver distraction and increase safety by putting frequently accessed driver controls within easy reach to allow the driver more time to focus on the road.
- The officer side cab dash shall house the two HVAC louvers on the officer side. This panel will also provide ergonomically located switches and controls for the officer. All controls shall be within easy reach while in the seated position with seatbelts fastened.
- Access panels on the top of the dash for both the driver and officer sides easing maintenance access to controls, components and gauge assemblies
- The driver side dash shall include gauges for primary air pressure, secondary air pressure, a Pacific Insight instrumentation gauge panel and the DEF gauge as standard
- The driver side dash shall also include two (2) lower panels to the left and right of the steering column for FMVSS switches such as the Off/Ignition and start switches and the park brake assembly
- The dash shall include a provision for switches to the right of the driver
- The officer dash shall include a flat area for optional mounting cradles or brackets for a laptop computer, mobile data terminal, map compartment or clip board
- The officer dash shall include a provision for switches to the left of the officer

CAB DASH & ENGINE TUNNEL FINISH

The cab dash and the engine tunnel of the cab shall be coated with polyurethane coating for a durable finish. The color shall be black.

FLAT MOUNTING PLATE

There shall be a flat aluminum mounting plate attached to the top of the engine tunnel which can be utilized for the mounting of equipment. The plate shall utilize .75” spacers allowing for the routing of wires underneath. The plate shall start near the center portion of the tunnel and continue to the rear of the engine tunnel and shall be the width of the flat upper portion of the engine tunnel. The plate shall be coated to match the engine tunnel and dash.

MOBILE DATA TERMINAL PROVISION

The officer dash shall feature a mobile data terminal base which shall support a customer provided docking station for their laptop computer or a tablet and keyboard. This provision shall include a slide out which shall offer easy access and storage.

BLACK MOUNTING PLATE FOR RADIO

One (1) black mounting plate(s) containing radio mounting shall be provided and incorporated in the modular dash console.

The location(s) shall be as follows:

CONSOLE MOUNTED SIREN

One (1) black mounting plate(s) containing mounting for a siren shall be provided and incorporated in the modular dash console.

The location(s) shall be as follows:

CONSOLE MOUNTED TRAFFIC LIGHTBAR CONTROLLER

One (1) black mounting plate(s) containing a plate to mount the traffic advisor lightbar controller shall be provided and incorporated in the modular dash console.

The location(s) shall be as follows:

CUP HOLDER

Two (2) cup holders shall be provided. There shall be one (1) mounted each on the driver and officer side in the forward outer portion of the top of dash horizontal surface.

PUMP SHIFT - LCS

Pump shift controls shall be implemented on the LCS hardware in the chassis cab.

INSTRUMENTATION PANEL

The instrumentation panel inlay shall be powder coat black.

INTERIOR CAB FINISH

The interior cab shall be finished in a high-performance Polyurethane coating including the interior A, B, C and D pillars, all occupant seat frames and any surrounding surfaces extending to the ball seal around each door.

This type of coating shall feature:

- Durability, scratch, chemical and abrasion resistance
- Consistent, even coverage and a uniform texture
- Resistance from fading from exposure to UV light
- Black in color

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Rosenbauer/Sentinel Emergency Solutions

CAB FENDERS

The cab wheel wells shall have full width, 14-gauge 304 polished, stainless-steel cab fenders to resist corrosion and enable easier cleaning maintenance. The inner liner, measuring 18" wide shall be constructed of plastic with an outer fenderette measuring 2.5" wide. The inner liner shall be installed with 410 stainless-steel hardware that has been coated with black zinc oxide.

COMMANDER LOGO

A COMMANDER logo shall be installed on each side of the chassis cab.

FRONT MUD FLAPS

The cab and chassis shall be provided with rubber front mud flaps with the Rosenbauer "R" logo.

CAB HEADER

The cab header shall offer heavy-duty, durable construction using resin transfer molding (RTM) technology formed composite material. The composite material shall be .28" thick for improved resistance and military type strength.

RTM is a low pressure, closed molding process which offers a dimensionally accurate and high-quality surface finish composite molding, using liquid thermoset polymers reinforced with various forms of fiber reinforcements. The matrix selection of polymer and reinforcement dictates molding mechanical and surface finish performance.

ABS polymer construction shall not be acceptable. No Exceptions.

The cab header shall offer a finish of a polyurethane coating for a rugged design and finish. No Exceptions.

The polyurethane finish shall provide a tough, flexible, impact-absorbing, chemical & abrasion-resistant, even-textured and skid-resistant surface. The polyurethane finish shall offer durability and scratch resistance even against today's advanced firefighting turnout materials with consistent, even coverage and a uniform texture. The polyurethane coating finish shall resist fading from UV light.

The cab header shall also be purpose built for integration of Fire/EMS components and ease of maintenance with panels above both the driver and officer positions measuring 8" wide x 15"long for mounting radios, aerial controls, and switches.

HVAC HEATING AND COOLING SYSTEMS

The interior cab climate control shall be comprised of a triple system that shall include a defroster, a cab and crew heater and air conditioner for a complete HVAC system. The air conditioning system shall be comprised

of compressor, condenser, and a minimum of three (3) evaporators to provide consistent temperature control throughout the entire cab.

The system shall be rated as an Emergency Vehicle grade for use in Fire and Rescue style vehicles and shall provide environmental air treatment in accordance with published SAE standards.

The HVAC system shall be tested and certified by the component manufacturer and a third-party independent certified testing laboratory, including all three systems. Documentation of test results shall be provided with the bid. No Exceptions.

The HVAC system shall be a total and complete system, and shall provide sufficient defrosting, heating and cooling to the entire cab. The HVAC system shall meet or exceed all specified items without the use of auxiliary heating and cooling systems.

DEFROSTING SYSTEM

The defrosting system shall feature:

- To provide maximum defrost and heating performance, a 30,000 BTU heater-defroster unit will be provided inside the cab.
- The defroster unit will be strategically located under the center forward portion of the instrument panel. For easy access, a removable cover will be installed over the defroster unit.
- Six (6) vents shall be located in the top forward portion of the dash for superior defrosting properties across the entire windshield.
- Defrost vents for the driver's and officer's windows.
- The system shall be capable of clearing 90 percent or more of the windshield in fifteen (15) minutes or less after a three (3) hour cold soak at 0 degrees Fahrenheit (-17.78 degrees Celsius).
- The system shall exceed flash fogging standards that are set forth in the SAE Heavy-duty cab with sleeper specifications. Documentation from a third-party testing facility shall be available upon request. No Exception.
- The defroster will include an integral aluminum frame air filter, high performance dual scroll blowers, and ducts designed to provide maximum defrosting capabilities for the one (1) piece windshield.

HEATING SYSTEM

The heating system shall feature:

- Delivery of a minimum of 82,000 BTU/hour of heat to the entire cab.
- Heat and air circulation shall be provided to the driver's and officer's foot area of the cab as standard through ducting in the foot well area of both positions. No Exception.

- Substantial air movement and heating provided to the driver and officer's position, composite dash will have six (6) adjustable louvers, located in the dash, three (3) adjustable louvers directed at the driver and three (3) adjustable louvers directed at the officer and floor vents at the driver and officer.
- Aluminum dash will have (4) adjustable louvers, located in the dash, two (2) adjustable louvers directed at the driver and two (2) adjustable louvers directed at the officer and floor vents at the driver and officer.
- Dual overhead units, with five (5) adjustable louvers shall be mounted above the rear facing seat positions on the driver and officer side of the cab
- The heater shall be plumbed with a shut off valve at the engine, so that the coolant bypasses the heaters.

AIR CONDITIONING

The air conditioning system shall feature:

- One (1) evaporator shall be located under the center dash and two (2) crew overhead evaporators located near the B-pillar on each side of the cab allowing for greater frontal visibility for the forward-facing crew seating and allowing for more interior mounting of accessories.
- A gravity condensation drain system shall be utilized. These drains shall remove all condensation from the evaporator units and direct it to the exterior of the chassis cab for optimal performance. Systems utilizing pumps to remove condensation, or gravity systems with poles or other obstructions located within the cab to route drains through shall not be acceptable. No Exceptions.
- Substantial air movement for optimum cooling shall be provided to the driver and officer positions, with six (6) adjustable louvers, located in the dash, three (3) adjustable louvers shall be directed at the driver and three (3) adjustable louvers shall be directed at the officer and floor vents at the driver and officer.
- The air condition system shall be capable of cooling the cab from outside ambient average temp of 104 degrees Fahrenheit (40 degrees Celsius) to an average inside cab temp of 71 degrees Fahrenheit (22 degrees Celsius) at no less than 50% humidity in 30 minutes with an engine RPM of 1250, after a two (2) hour heat soak. A certification document from the testing facility shall be available upon request. No Exception.
- Proposals offering ceiling mounted evaporator units in the center of the cab above or on the engine tunnel shall not be accepted as this is a safety consideration due to the lack of visibility and communication within the cab.

CAB PAINT AIR CONDITIONING CONDENSER COVER

The air conditioning condenser cover shall be made from aluminum and shall be painted to match the roof color. Plastic condenser covers will not be acceptable. No Exception.

HEATER HOSE

The heater hose inside the cab for the HVAC system shall be a premium silicone hose.
A/C Condenser Location Roof Mounted Mid Driver Side

CONDENSER

The cab air conditioning system shall include one (1) low profile HE-condenser which shall be centered on the driver's side of the cab roof.

AUXILIARY DEFROSTER FANS

Two (2) each 6" diameter defrost fans shall be integrated into the driver and officer headers angled towards the windshield providing improved air circulation.

HEATING AND COOLING CONTROLS

The HVAC system shall be controlled through all available LCS.

REAR CREW AREA CONTROLS – EVAPORATOR MOUNTED

The controls for the crew area heat and A/C shall be located on the tunnel mounted evaporator unit.

REAR CREW AREA CONTROLS – LCS PANEL

The controls for the crew area heat and A/C shall be from manual HVAC control knobs. There will be no ability to control rear HVAC from the driver or officer positions.

REAR CREW AREA CONTROLS –CENTERED OVERHEAD

The controls for the crew area HVAC system shall be mounted overhead, centered between the rear facing seating position.

4-FRONT AIRBAGS AND ROLLTEK

The apparatus shall be equipped with a safety system designed to protect occupants in the event of a rollover or frontal impact and shall include IMMI's RollTek and 4-Front.

The 4-Front system shall provide protection during a frontal or oblique impact event. The system shall activate when the vehicle decelerates at a predetermined G force known to cause injury to the occupants. The frontal sensor that will make this determination has been calibrated through extensive testing to optimize the timing for firing the 4-Front system.

The 4-Front system shall deploy the following components in the event of a frontal or oblique impact event:

- Driver side front air bag
- Officer side knee air bag
- Seat Belt Buckle pre-tensioners

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ROLLTEK

The Apparatus shall be equipped with the IMMI RollTek system which will provide protection during a slow or fast 90-degree rollover. The system shall analyze the vehicle's angle and rate of roll to determine the exact time for optimal protection.

This system shall include the following:

- Driver and Officer Side Rollover Airbag
- Crew seats shall be equipped with an (SRA) Side Rollover Airbag on all outboard seating positions which are located within 6"of the outer walls.
- All seat belts shall also have a buckle pre-tensioner to tighten the belts down to maximize protection of the occupant (no exception)

The driver side air bag shall be mounted inside the steering wheel and shall be designed to protect the head and upper torso of the Driver, when used in combination with the 3-point seat belt, in the event of a frontal or oblique impact. The officer side knee bolster air bag shall be mounted in the panel below the officer dash and will be designed to protect the legs of the Officer, when used in combination with the 3-point seat belt, in the event of a frontal or oblique impact.

In the event of a frontal or oblique impact, the system shall deploy the front driver and officer air bags and activate the seat belt pre-tensioners on suspension seats to restrain the seat in the lowest travel position. Seat belts will firmly hold both occupants in place.

The cab and chassis design shall have been subjected to a 21 MPH crash impact during frontal and oblique impact testing. Testing shall include all major chassis and cab components such as mounting straps for fuel and air tanks, suspension mounts, front suspension components, rear suspension components, fame rail cross members, engine and transmission and their mounts, frame extensions and body mounts. The testing shall provide configuration specific information used to optimize the timing for firing the air bags.

SEAT MATERIAL

The seats shall include a covering of Endurance vinyl, the vinyl shall be a high strength, and easy to clean. Endurance Vinyl shall be easier to clean and higher durability than standard vinyl.

SEAT BACK LOGO

The seat back shall include the "Rosenbauer" logo. The logo shall be centered on the standard headrest of the seat back.

SEAT AND SEAT BELT COLOR

The seats in the cab shall be black in color with red seat belts.

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DRIVER SEAT-ROLLTEK

The driver's seat shall be a 911 Seats XL, wide series for RollTek. The seat shall be designed with Fire Fighters' needs in mind; the XL Series encompasses originality, safety, functionality, and versatility.

Standard features of this 10-way Non SCBA 3pt ABTS (all belts to seats) include 108-degree recline, wide contoured back with 2-way adjustable lumbar. Electronic adjustments include fore/aft, up/down, front/rear tilt.

The seat shall feature an XL 21-inch-wide comfort cushion including Seats Incorporated exclusive EVC (elastomeric vibration control), easing tailbone pressure, enhancing comfort, and reducing vibration by up to 50%. This system has Seats Inc's D2 (dual density) foam combining a soft topper foam pad further enhancing comfort, and a high-density bottom foam base to promote longevity. No Exception.

The seat(s) shall have a 7-year manufactures warranty, no exception.

Cushion reinforced with French seaming and is NFPA compliant with an occupancy sensor.

SEAT BELT SINGLE RETRACTOR

The seat shall feature 3-point ABTS (all belts to seats). The single retractor seat belt shall feature Ready Reach to ensure that the seat belt is easy to see and grab while in full turnout gear.

SEAT BACK

The seat back shall incorporate a standard style headrest.

SEAT MOUNTING DRIVER

The driver's electric seat shall be installed in an ergonomic position in relation to the cab dash.

The power seat or seats installed in the cab shall be wired directly to battery power.

DRIVER SEAT BOX STORAGE COMPARTMENT

There shall be a storage area under the driver's seat. The compartment shall be 21.25 inches wide, 22.50-inches long, and 6.25 inches high. The access opening shall be 15.00 inches wide and 4.50 inches high.

ALUMINUM ACCESS DOORS

There shall be aluminum doors provided for covering each of the driver and officer seat compartment openings. The doors shall be coated to match the interior of the cab and shall be equipped with piano-style hinges and manual latches.

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OFFICER SEAT-ROLLTEK

The officer seat shall be 911 Seats Incorporated XL, wide series seat for Rolltek. The seats shall be designed with Fire Fighters' needs in mind; the XL Series encompasses originality, safety, functionality, and versatility.

The seat shall feature 3-point ABTS (all belts to seats).

The seat shall feature a 21-inch-wide XL comfort cushion including Seats Incorporated exclusive EVC (elastomeric vibration control), easing tailbone pressure, enhancing comfort, and reducing vibration by up to 50%. This system has Seats Inc's D2 (dual density) foam combining a soft topper foam pad further enhancing comfort, and a high-density bottom foam base to promote longevity. Seat to include wide comfort back with contoured foam.

The seat(s) shall have a 7-year manufactures warranty, no exception.

Cushion reinforced with French seaming and is NFPA compliant with an occupancy sensor.

SEAT BELT SINGLE RETRACTOR

The seat shall feature 3-point ABTS (all belts to seats). The single retractor seat belt shall feature Ready Reach to ensure that the seat belt is easy to see and grab while in full turnout gear.

SEAT BACK SMARTDOCK SCBA BRACKET

The seat shall include a SmartDock Gen 2 hands free SCBA bracket that utilizes a locking mechanism that engages during deceleration. The bracket shall hold the cylinder in place while in transit and release using no straps, levers, buttons or switches. This bracket shall be NFPA 1901 compliant.

OFFICER'S SEAT BOX STORAGE COMPARTMENT

There shall be a storage area under the officer's seat. The compartment shall be 19.75 inches wide, 17.50 inches long, and 6.25 inches high. The access opening shall be 9.00 inches wide and 4.50 inches high.

FORWARD FACING CENTER SEAT(S)-ROLLTEK

Two (2) forward facing center crew area seat(s) shall be 911 Seats Incorporated XL, wide series fixed bottom seat(s) for RollTek. The seats shall be designed with Fire Fighters' needs in mind; the Battalion Series encompasses originality, safety, functionality, and versatility.

The seat(s) shall also feature a 21-inch-wide XL comfort cushion including Seats Incorporated exclusive EVC (elastomeric vibration control), easing tailbone pressure, enhancing comfort, and reducing vibration by up to 50%. This system has Seats Inc's D2 (dual density) foam combining a soft topper foam pad further enhancing comfort, and a high-density bottom foam base to promote longevity.

Seat to include wide comfort back with contoured foam. No Exception.

The seat(s) shall have a 7-year manufactures warranty, no exception.

Cushion reinforced with French seaming and is NFPA compliant with an occupancy sensor.

Belt Orientation- LH & RH to Door

SEAT BELT SINGLE RETRACTOR

The seat shall feature 3-point ABTS (all belts to seats). The single retractor seat belt shall feature Ready Reach to ensure that the seat belt is easy to see and grab while in full turnout gear.

SEAT BACK SMARTDOCK SCBA BRACKET

The seat shall include a SmartDock Gen 2 hands free SCBA bracket that utilizes a locking mechanism that engages during deceleration. The bracket shall hold the cylinder in place while in transit and release using no straps, levers, buttons or switches. This bracket shall be NFPA 1901 compliant.

SEAT MOUNTING FORWARD FACING CENTER

The forward-facing center seats shall be installed facing the front of the cab.

SEAT FRAME FORWARD FACING ENCLOSED

The forward-facing center seats shall include an enclosed seat box which is located and installed on the rear wall.

The seat box shall be constructed of no less than 5052-H32 .19" thick aluminum plate.

SEAT FRAME FORWARD FACING ACCESS

The seat frame shall include a cutout in the center of the wall facing the tunnel for access. The cutout shall be a minimum of 7.5”h x 28”w.

SEAT FRAME FORWARD FACING ACCESS DOOR

The seat frame shall include a door with a flush latch in the center of the wall facing the tunnel.

SEAT COMPARTMENT DOOR FINISH

The seat box doors shall be finished to match the interior finish of the cab.

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SEAT COMPARTMENT FINISH

The seat frame shall be finished to match the interior finish of the cab.

EXTERIOR GRAB HANDLES

One (1) 18" anti-slip exterior assist handle shall be mounted behind each of the cab doors. The grab handle shall be mounted on stanchions, constructed of aluminum, and be 1.25" in diameter with a knurled finish enabling non-slip assistance with a gloved hand. The handle stanchions shall be mounted to the cab with nutserts. No Exception.

SCUFF PLATE

The grab handles shall include a stainless steel scuff plate to protect the painted surfaces.

ADDITIONAL GRAB HANDLE

There shall be an additional aluminum grab handle mounted on the side of the cab. It shall be mounted vertically in front of the door. The handle shall be approximately 8.00 inches long with stanchions on both the top and the bottom of the grab handle. It shall be approximately 2.50 inches forward of the door hinge.

CAB FASCIA

The cab fascia shall offer a traditional, yet aggressive appearance, in its design and shall be constructed of work-hardened 5052-H32 aluminum. This design shall feature:

- A super structure which is fully welded to the cab, for a seamless and robust integration
- Thermoformed headlamp bezels, constructed of impact resistant, polycarbonate composite which is vacuum metalized to eliminate pealing and bubbling of a chrome type film or plating
- Traditional style headlight bezels with 4 x 6 high intensity headlights which shall add a classic look to the fascia while improving visibility

FRONT GRILLE

A prominent front grille shall punctuate the aggressive design of the cab with its outboard wing style warning light bezels and heavy framework. The front grille shall feature:

- Fabricated construction for superior strength and durability
- Line-X black finish for a distinctive appearance
- Up to six (6) warning light locations along the mid bar for a variety of warning light combinations

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LIGHT BEZEL

The front grille shall include two (2) wing light bezels. The bezels shall be constructed of a stainless material and shall be capable of holding one (1) 4" x 6" warning light in each bezel. They are coated in black Line-X.

GRILLE LOGO

The front grille shall include a Rosenbauer logo.

FRONT GRILLE INLAY

The front grille shall include a honeycomb inlay of steel, painted black, which shall provide air flow to through the grille and provide a sporty, muscular appearance to the front of the apparatus.

The horizontal bars shall be overlaid with polished stainless steel strips.

COWL MOUNT FOR LIGHT

The cab shall include a Pedestal mount on the center front cab below the windshield. The mount shall be used for the mounting of lights or other accessories.

WARNING LIGHT

One (1) Mars Model 888 TB8-L1-F/C pedestal mounted LED warning light, with clear lens, shall be provided on the apparatus. The light shall be controlled by a rocker switch located in the emergency light switch electrical console. The lens color shall be clear.

FLUID FILLS & CHECK

For ease of maintenance and access, the following fluid checks shall be located behind the tiltable and/or removable mesh grille panel:

- Engine oil dipstick
- Engine coolant sight glass
- Power steering fluid dipstick
- Windshield washer fluid

The following fluid fills shall be located behind the tiltable and/or removable mesh grille panel:

- Power steering
- Windshield washer

Proposals including access to fluid checks through the tunnel or by raising the cab shall not be considered.

LED HEADLIGHTS

A set of 4 FireTech 4X6 LED Headlights shall be provided. The kit shall consist of 2 fixtures which operate as SAE VOR "high/low" beams, and 2 fixtures which operate as SAE VO "high-only" beams. All 4 headlights shall have a SAE "P" parking lamp halo surrounding the driving beams, which shall be energized any time the vehicle park brake is set. Optically, on the high/low headlight, an articulated set of elliptical optics must be used to illuminate the foreground while operating in "low" beam mode. The lens of the high/low beam headlight shall be marked "DOT VOR SAE HL P 16." The lens of the high-only beam shall be marked "DOT VO SAE HL P 16." All circuits of the headlights shall be designed to operate from 9-32v DC.

All 4 fixtures must be manufactured such that the internal pressure of the headlight remains constant regardless of operating temperature. The housing shall be equipped with a mechanically fastened GORE PolyVent. Similar functioning vent materials affixed to the housing using adhesive shall not be acceptable for substitution.

The headlights shall be installed, wired, and aimed, in accordance with FMVSS108. The manufacturer of the headlights shall warrant the headlights against defects for the life of the apparatus.

The headlights shall be warranted against failure and condensation accumulation by HiViz for the life of the apparatus.

DAYTIME RUNNING LIGHTS

The illuminated daytime running light feature shall include the headlights on low beam along with the marker lights and taillights.

HEADLIGHT LOCATION

The headlights shall be located on the front fascia in the upper buckets, on each side of the cab grille.

104 OS, 105 OS, and 104 DS, 105 DS

FRONT MARKER LAMPS

The cab front shall include five (5) LED amber marker lamps above the windshield in accordance with the Department of Transportation requirements.

SIDE MARKER LIGHTS

Two (2) LED side marker light assemblies shall be mounted on the side of the cab ahead of the driver door, adjacent to the front head lamp bezel.

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HEADLIGHT AND MARKER LIGHT ACTIVATION

Headlights and marker lights will activate automatically when the park brake is released. Operators will have the option of manually turning headlights and marker lights off or on from the LCS display.

FRONT TURN SIGNALS

Two (2) Whelen M6 LED square, front turn signal assemblies shall be provided. Each turn signal shall be mounted in an attractive façade style bezel which is an integral part of the fascia.

TURN SIGNAL LOCATION

The turn signals shall be located on the front fascia directly below the headlights, one on each side of the cab grille.

106 OS & DS

CAB TILT SYSTEM

The cab shall be a full tilt style. A hydraulic cab lift system shall be provided consisting of an electric powered hydraulic pump, dual lift cylinders, and necessary hoses and valves. The cab tilt pump shall be mounted on the right-hand side of the chassis frame in front of the batteries below the frame. The mounting bracket shall be Hot Dipped Galvanized.

The dual lift cylinders shall lift the cab 45 degrees from a horizontal plane facilitating easy engine maintenance. The chassis engine shall be able to be removed if required without tilting the cab beyond 45-degrees.

The center line of the chassis cab tilt shall be a minimum of 76" from the center line of the front axle, providing a large corridor between the cab and front tire for maximum workspace and accessibility to the fan, fan belt, fan drive, air compressor, power steering pump, alternator, and air filter.

The tilt angle shall allow access to the engine and area under the cab without contacting any components mounted to the gravel shield.

The cab shall include a four (4)-point rubber isolated cab pivot and mounting system. The rear histic mounts shall be isolated from the chassis frame to reduce the transfer of road vibrations and frame torque into the cab, while providing superior handling characteristics.

The front cab pivot assemblies shall be a 1/2" A36 steel plate with a .31" thick 2-1/2" diameter tube cross member mechanically attached to the cab and frame. There shall be two (2) greaseable rubber isolated engineered bushings to reduce the transfer of road vibrations into the cab.

The cab shall be locked down by a two (2)-point automatic spring-loaded hook mechanism that actuates after the cab has been lowered.

The cylinders shall include blocking valves (velocity fuses) which prevent motion when no control buttons are pushed. In the event of a hydraulic system failure, the valves shall retain the fluid in the cylinders.

A redundant mechanical stay arm shall automatically be engaged once the cab has been fully raised. Before lowering the cab, this device must be disengaged using the stay arm control located on the driver's side rear of the cab, providing the operator protection from high engine exhaust temperatures. The stay arm shall be safety yellow for high visibility so that it is easy to see whether the arm is in place or not. No Exception

All mounting points shall be bolted directly to the frame rail.

The cab lift safety system shall be interlocked with the parking brake. The cab tilt mechanism shall be active only when the parking brake is set, and the battery master switch is in the on position. If the parking brake is release, the cab tilt mechanism shall be disabled.

There shall be a manual pump incorporated in the event of a system failure to the cab tilt system.

A warning light shall illuminate in the cab instrument panel to indicate whenever the cab is not fully latched in the locked down position, and the parking brake is released.

CAB TILT LIMIT SWITCH

An adjustable cab tilt limit switch shall be included with the cab tilt system. The switch shall effectively limit cab's travel to avoid impact with bumper mounted items, or station ceiling clearance, while being tilted.

There shall be a safety bar to hold the cab at the new adjusted height for additional safety.

CAB TILT LOCK DOWN INDICATOR

The cab dash shall include a message located within the dual air pressure gauge which shall alert the driver when the cab is unlocked and ajar. The alert message shall cease to be displayed when the cab is in the fully lowered position and the hold down hooks are secured and locked to the cab mounts.

In addition to the alert message an audible alarm shall sound when the cab is unlocked and ajar and the parking brake is released.

REARVIEW MIRRORS

Retrac Aerodynamic West Coast style dual vision mirror heads, model 613810, shall be provided and installed on each of the front cab doors.

The mirrors shall measure 8" wide x 19" high and shall include an integral convex mirror installed in the mirror head below the flat glass to provide a wider field of vision. The flat and convex mirrors shall be motorized with remote horizontal and vertical adjustment. The control switches shall be mounted within easy reach of the driver. The flat and convex mirrors shall be heated for defrosting in severe cold weather conditions.

The mirrors shall be constructed of a vacuum formed chrome plated ABS plastic housing that is corrosion resistant and shall include the finest quality non-glare glass.

REARVIEW MIRROR REMOTE ACTIVATION

The driver's panel shall include activation for the rearview mirrors remote function. The activation for the mirror heat shall be through the LCS display.

REARVIEW MIRRORS

There shall be one 8.00 inch round convex mirror mounted to the upper right corner of the cab.

CAB TWO TONE PAINT

The cab surface shall be thoroughly washed with grease cutting solvent (PPG DX330) prior to any sanding. The cab surface shall then be sanded, and minor imperfections filled and sanded. The prepared surface shall then be washed again with (PPG DX330) to remove any contaminants from all surfaces to be painted.

The first coating to be applied shall be a pre-treat epoxy primer (.5 to 1.0 dry film build) for maximum adhesion to the body material. The next two to four coats shall be a polyurethane primer resurfacing agent (PPG F4936). The film build shall be 4-6 mils when dry. The primer coat, after appropriate dry time, shall be sanded with 320-600 grit sandpaper to ensure a maximum gloss finish. The last step shall be an application of at least three coats of PPG FDG polyurethane two-component color (single stage). The film build shall be 2-3 mils when dry. The single stage polyurethane shall provide a UV barrier to prevent fading and chalking.

The cab shall then be painted with the specific color designated by the customer with a minimum thickness of 2.00 mils of finished paint, followed by a clear top coat not to exceed 2.00 mils.

CAB PAINT UPPER

The upper or secondary cab color shall be PPG _____ color and _____ number.

Paint Code:

Paint Color: TBD at PRECON

CAB PAINT LOWER

The lower or primary cab color shall be PPG _____ color and _____ number.

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Paint Code:

Paint Color: TBD at PRECON

Cab Paint Exterior Breakline - Paint Break B

CAB UNDERCOAT

The cab shall have an undercoat applied prior to the cab being set on the running gear. The under coat shall be a waterborne, one-component, air dry undercoat formulated to prevent chipping, cracking, and marring of painted or unpainted surfaces after exposure to high impact sand, gravel or other abrasive materials. It shall also have high corrosion resistance.

PAINT SPRAY OUT

The customer shall be supplied with a paint spray out of their chosen color(s) for approval prior to the chassis cab exterior being painted.

FRONT AXLE

The Hendrickson SteerTek front axle beam shall be rated to carry 24,000 lbs. and consist of a fabricated box cross section construction with 100ksi plate and a continuous beam architecture to minimize stress points for added durability. The box shaped cross section resists horizontal, vertical, and twisting forces more effectively than traditional I-beam axles while helping to reduce dynamic camber and toe changes therefore a traditional I-beam axle shall not be considered. The axle shall incorporate a removable kingpin feature for ease of kingpin serviceability. The knuckles shall allow for compatibility with disc brakes mounted at the 12-o'clock position and with drum brakes and allow for wheel cut up to 45 degrees. They shall also utilize premium kingpin bushings and seals to provide enhanced protection from the elements to improve bushing life.

The axle shall have a magnetic drain plug in the hubs.

The axle shall be warranted for five (5) years or five hundred thousand (500,000) miles, whichever comes first. No Exception.

FRONT WHEEL BEARING LUBRICATION

The front axle wheel bearings shall be lubricated with oil. The oil level can be visually checked via clear inspection windows in the front axle hubs.

FRONT SUSPENSION

The suspension shall consist of multi-leaf parabolic springs with double wrapped front eye that are packaged within an integrated clamp group that allows for ease of OEM assembly on to the axle beam and reduced part

count. The clamp group bolts are tightened on the top of the clamp group opposed to the traditional U-bolt on the bottom making it easier to access with a torque wrench for servicing. The spring shall also include a lower shock attachment with an upturned eye. The springs will contain threaded pin bushings to allow simplification of spring alignment as well as long service life and improved ride quality. The suspension and spring geometry will be optimized to provide improved bump steer and Ackermann.

Two ZF Sachs twin-tube shocks shall be provided with the front suspension assembly. The shocks shall be specially developed for parabolic leaf springs with a digressive characteristic curve using a patented piston system. The shocks shall feature multi-stage piston and base valves.

The combination of valves shall achieve the desired damping characteristics that are ideal for the application. The suspension shall be rated for a minimum of 24,000 lbs. No Exception.

POWER STEERING GEAR WITH ASSIST

The power steering gear shall be a TRW model TAS 85 and shall include the following:

- A balanced, hydraulic, positive displacement, sliding vane power steering pump which is gear driven from the engine
- One-piece, 2" diameter drag link for maintaining consistent wheel alignment resulting in less maintenance.
- The steering gear shall be mounted on a plane that is at a 9-degree angle in relationship to the center plane of the chassis. This mounting technique is designed to reduce the operating angle of input steering shafts. A more direct, responsive, and smoother handling vehicle will result from these unique design characteristics.
- A certified torque and geometry study by TRW shall be available upon request.

CHASSIS ALIGNMENT

The chassis frame rails shall be measured to ensure the length is correct and cross checked to make sure they run parallel and are square to each other. The front and rear axles shall be laser aligned. The front tires and wheels shall be aligned and toe-in set on the front tires by the apparatus manufacturer.

Alignment documentation shall be available upon request.

STEER TIRES

The steer tires shall be Bridgestone 445/65R 22.5 “M” tubeless radial L M864 On/Off highway application.

The steer tires shall feature:

- A stamped load capacity of 25,600 pounds per axle with a speed capacity of 75 miles per hour when properly inflated to 130 pounds per square inch

TIRE BALANCING

All tires shall contain counter acting balancing beads. Rim mounted weights are unacceptable, no exceptions.

FRONT WHEEL

The front wheels shall be Alcoa Dura Bright hub piloted, 22.50-inch X 13-inch polished aluminum wheels. The hub piloted mounting system shall provide easy installation and shall include two-piece flange nuts. The wheels shall feature one-piece forged strength and a polished finish that lasts.

FRONT BRAKES

The front brakes shall be Meritor EX225 Disc Plus disc brakes with 17" vented rotors. The disc brakes shall be provided with visual wear indicators.

The front brakes shall include brake chambers supplied by Meritor and shall be approved per application.

STEERING WHEEL AND COLUMN

The vehicle shall include a Douglass Autotech 18" tilt/telescopic steering column which shall offer up to five (5) tilt positions. The steering column shall include a self-canceling turn signal lever, a four-way hazard switch, headlamp dimmer switch, and wiper stalk switch with Hi, Lo, and, intermittent settings. The steering column shall also incorporate a steering angle sensor.

The chassis shall include dual electric 12-volt horn with a minimum of 110 decibels.

The steering wheel shall be a four (4) spoke VIP Smart Wheel and shall be finished with a vinyl covering over foam padding which shall include a horn button. The smart wheel shall include backlit controls on each side of the wheel. The left side switches shall control head lights, intermittent wiper, wiper off, wash and wiper high and low. The right-side switches shall control the air horn, engine brake off, low, medium and high functions.

The chassis shall include dual electric 12-volt horn with a minimum of 110 decibels.

REAR AXLE

A Meritor RT-52-185 tandem driving axle shall be incorporated as the rear axle for the chassis.

The axle shall feature:

- Rated capacity of 54,000 pounds

- Heavy duty Hypoid gearing for longer life, increased strength, and quieter operation
- Industry-standard wheel ends for compatibility with both disc and drum brakes, and unitized oil seal technology to keep lubricant in and help prevent contaminant damage
- Rigid differential case for high axle strength, and reduced maintenance
- Rugged Dependability
- Rectangular shaped, hot formed housing with a standard wall thickness at spring seat of .56" for extra strength and rigidity
- A magnetic plug
- 5-year warranty

REAR AXLE DIFFERENTIAL LUBRICATION

The rear axle differential shall be lubricated with oil.

REAR SUSPENSION

The tandem axle rear suspension shall be a Ridewell Dynalastic RD202S with accordion elastomer springs, incorporating a straddle mount pedestal and urethane pivot bushings, preset load distribution and independent axle movement. The rear tandem suspension shall have 54.00 inch axle centers.

The rear tandem suspension capacity shall be rated at 54,000 pounds.

BRAKE SYSTEM

A rapid build-up air brake system shall be provided. The air brakes shall include a three (3) air tank, four (4) reservoir system with a minimum of 5852 cubic inch of air capacity. A floor mounted treadle valve shall be mounted inside the cab for graduated control of applying and releasing the brakes. The system shall include an anti-compounding feature. All air reservoirs provided on the chassis shall be labeled for identification.

The rear axle spring brakes shall automatically apply in any situation when the air pressure falls below 25 PSI and shall include a mechanical means for releasing the spring brakes when necessary. An audible alarm shall activate when the system air pressure is below 60 PSI.

A six (6) sensor, six (6) modulator Anti-lock Braking System (ABS) shall be installed on the front and tandem rear axles in order to prevent the brakes from locking or skidding while braking during hard stops or on icy or wet surfaces. This in turn shall allow the driver to maintain steering control under heavy braking and in most instances, shorten the braking distance. The electronic monitoring system shall incorporate diagonal circuitry which shall monitor wheel speed during braking through a sensor and tone ring on each wheel. A dash mounted ABS lamp shall be provided to notify the driver of a system malfunction. The ABS system shall automatically disengage the auxiliary braking system device when required. The speedometer screen shall be capable of reporting all active defaults using PID/SID and FMI standards.

Additional safety shall be accommodated through Automatic Traction Control (ATC) which shall be installed on the tandem rear axle. The ATC system shall apply the ABS when the drive wheels loose traction. The system shall scale the electronic engine throttle back to prevent wheel spin while accelerating on ice or wet surfaces.

The Electronic Stability Control (ESC) unit is a functional extension of the electronic braking system. It is able to detect any skidding of the vehicle about its vertical axis as well as any rollover tendency. The control unit comprises an angular-speed sensor that measures the vehicle's motion about the vertical axis, caused, for instance, by cornering or by skidding on a slippery road surface. An acceleration sensor measures the vehicle's lateral acceleration. The Controller Area Network (CAN) bus provides information on the steering angle. On the basis of lateral acceleration and steering angle, an integrated microcontroller calculates a theoretical angular speed for the stable vehicle condition.

The Meritor Wabco ABS and ESC system shall come with a three (3) year/300,000-mile parts and labor warranty.

MUD / SNOW SWITCH

A momentary control shall be provided and properly labeled "mud/snow". The control shall be a button on the LCS display. When the button is pressed once, the system shall allow a momentary wheel slip to obtain traction under extreme mud and snow conditions. During this condition the ATC light shall blink continuously notifying the driver of activation. Pressing the button again shall deactivate the mud/snow feature.

REAR BRAKES

The rear brakes shall be Meritor 16.50" X 7.00" S-cam drum type.

The rear brakes shall include brake chambers supplied by Meritor and shall be approved per application.

REAR BRAKE DUST SHIELDS

The rear brakes shall be equipped with brake dust shields.

REAR BRAKE SLACK ADJUSTERS

The rear brakes shall include Meritor automatic slack adjusters installed on the axle which features a simple, durable design offering reduced weight. The automatic slack adjusters shall feature a manual adjusting nut which cannot inadvertently be backed off and threaded grease fittings for easy serviceability.

REAR SHOCK ABSORBERS

Shock absorbers shall be supplied by the suspension manufacturer and installed on the rear axle suspension.

REAR AXLE DIFFERENTIAL CONTROL

The tandem axles shall include an inter-axle differential lock which shall allow both axles to be engaged as drive axles.

INTERAXLE DIFFERENTIAL LOCK CONTROL ACTIVATION

The inter-axle differential lock control shall be activated through LCS.

REAR TIRES

The rear tires shall be Bridgestone 12R 22.5 tubeless radial M799 Multi-surface tread. The rear tires shall feature:

- A stamped load capacity of 27,120 pounds per axle with a speed capacity of 75 miles per hour when properly inflated to 120 pounds per square inch

TIRE BALANCING

All tires shall contain counter acting balancing beads. Rim mounted weights are unacceptable, no exceptions.

REAR WHEEL

The outer rear wheels shall be Alcoa hub piloted, 22.50-inch x 8.25-inch aluminum wheels with a polished outer surface and Alcoa Dura-Bright® wheel treatment with XBR® technology as an integral part of the wheel. The inner rear wheels shall be Alcoa hub piloted, 22.50-inch x 8.25-inch aluminum wheels with a high polish bright machine finish. The hub piloted mounting system shall provide easy installation and shall include two-piece flange nuts.

WHEEL GUARDS

The rear wheels shall include a plastic isolator approximately 0.04” thick installed between the aluminum and steel to help prevent corrosion caused by dissimilar metal contact.

- Engineering Note: If alum outer and steel inner rims the guard will be between rims, if all alum rims it will be installed between inner rim and hub.

VALVE STEM EXTENSION - TANDEM AXLE

To allow for easy checking and inflation of the rear inner tires shall be equipped with a multi-layer valve stem extension. The layers shall be as follows: starting from the inner to outer layer - a stainless-steel metal core, an air tube, a stainless-steel jacket, a protective cover.

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VEHICLE TOP SPEED

The top speed of the vehicle shall be programmed at approximately 60 MPH +/-2 MPH at the governed engine RPM.

AIR TANK BRACKETS & STRAPS

The air tank(s) shall be mounted to the frame rail with brackets that are hot dipped galvanized thereby creating a barrier and cathodic protection from corrosion and eliminating the requirement for finish paint and the subsequent requirements for touch up paint and/or total repaint after a period of time due to nicks, chips and corrosion. Powder coated or painted air tank brackets shall not be accepted. No exception.

All of the air tank straps shall be plastic coated stainless-steel cable. No Exception.

PARK BRAKE

Upon application of the push-pull valve in the cab, the rear brakes will engage via mechanical spring force. This is accomplished by dual chamber rear brakes, satisfying the FMVSS parking brake requirements.

In addition to the mechanical rear brake engagement, the front service brakes will also engage via air pressure, providing additional braking capability.

PARK BRAKE CONTROL

A Meritor-Wabco manual hand control push-pull style valve shall operate the parking brake system. The control shall be yellow in color.

The parking brake actuation valve shall be mounted on the driver's side of the console within easy reach of the driver and more easily accessible to the officer.

AIR DRYER

The brake system shall include a Wabco System Saver 1200 Plus air dryer with an integral 100-watt heater with a Metri-Pack sealed connector. The system shall have an integrated purge volume and integrated governor.

The system shall have the following features:

- Premium desiccant provides greater water adsorption
- Replaceable spin on cartridge for simple maintenance
- Compact light weight design
- Pressure relief safety valve
- Turbo cut-off valve for boosted compressor applications

- Service components are external for easy replacement
- Common service components proven for reliability and quality
- Integrated with the air governor.

MOISTURE EJECTORS

Heated, automatic moisture ejectors with a manual drain provision shall be installed on all reservoir tanks in the air supply system.

AIR SUPPLY LINES

A dual air system plumbed with color coded reinforced nylon tubing air lines shall be installed on the chassis. The primary (rear) brake line shall be green, the secondary (front) brake line orange, the parking brake line yellow and the auxiliary (outlet) will be black, in accordance with SAE standards. No Exception.

Brass push-lock type fittings shall be used on the nylon tubing. All drop hoses shall include fiber reinforced neoprene covered hoses.

AIR HORN RESERVOIR

One (1) air tank, with a 1200 cubic inch reservoir, shall be installed on the chassis to act as a supply tank for operating air horns. The reservoir shall be isolated with a 90 PSI pressure protection valve on the reservoir supply side to prevent depletion of the air to the air brake system.

FRAME

The chassis frame shall consist of two (2) “C” style parallel rails, constructed of high strength low alloy and shall feature the following:

- A Stenx **MODEL 110XF** 10.19” high by 3.63” deep cold rolled steel frame or equivalent.
- .38” thick flange
- Inner channel measuring 9.31" high x 3.25" deep x .25" thick
- The 10.19” frame height shall be maintained throughout the entire length of the frame to allow for maximum storage capacity for the entire apparatus.
- If frame rails that are larger than those specified are to be utilized, the maximum height of each frame rail shall not exceed 10.25” at any point on the frame rail. This will ensure the lowest possible vehicle center of gravity allowing maximum stability as well as providing the lowest body height possible.
- Frame rail shall have a consistent frame web throughout the entire length.
- The entire frame rail design shall be manufactured in the United States of America and readily available on the aftermarket.
- Grade 8 Structural fasteners, Huck bolts shall not be acceptable. No Exception.

- The hardware used for the chassis shall be corrosion resistant. The process shall be dip-spin-bake coated with two coats of zinc/aluminum metal flake coating in an inorganic binder. Coating one is to be zinc flake and coating two is to be aluminum flake. The zinc flakes sacrificially corrode to protect the base metal. The aluminum flakes prolong the life of the zinc. Salt fog test life, based on ASTM B117 on unassembled fasteners, is 1000 hours to red rust. The same test on assembled fasteners is 750 hours to red rust. The two-step coating is RoHS compliant as it eliminates the hexavalent chromium used in the passivation of electroplated zinc coatings to create yellow zinc (zinc dichromate). The elimination of the zinc plating also greatly reduces the likelihood that hydrogen embrittlement will occur. Hydrogen embrittlement is a side effect of electroplating that reduces toughness and can lead to fracture. No Exception
- Manufacturer's lifetime warranty

The frame ratings shall be as follows:

- 110,000 PSI minimum yield strength high strength low alloy steel
- Minimum Resisting Bending Moment (RBM) of 2,810,000-inch pounds per rail

To avoid frame cracking and failure over time, the top flange of the frame adjacent to the engine installation shall have a tapered design. Notches for engine components shall not be accepted due to fatigue and the potential for cracking. No Exceptions

UNDER-FRAME REINFORCEMENT

An under-slung frame reinforcement shall be installed below the frame rails in the transmission area to increase the vertical rigidity of the frame.

The under-frame reinforcement provides:

- Enhanced handling
- Improved ride quality
- Increase resistance to frame and cross member fatigue
- Enhanced vehicle stability providing improved safety to occupants

CROSS MEMBERS

There shall be a minimum of seven (7) steel plate cross members installed on the apparatus.

- 50,000 psi minimum yield strength steel plate cross members
- Manufacturer's lifetime warranty to match frame warranty. No Exceptions.
- Installed with one-piece cross member gusset to maximize vertical strength and minimize cross member flex

- Crossmembers can be inverted when required to allow for PTO drive line installation without the need for notching or modifying the cross members in any way. No Exceptions.

FRONT FRAME EXTENSION

A single piece 80,000 PSI steel extension shall be installed on the front of the frame rails.

- Reduces frame flex which translates into improved vehicle handling and ride quality
- Designs using multiple piece, bolt together extensions will not be acceptable since they are prone to more flexing, possible frame failure and cab cracking
- Allows radiator to be removed through the bottom of the frame extension without tilting the chassis cab
- Minimizes damage to the chassis cab in the event of frontal impact accident
- Maintains structural integrity of the chassis frame rails while attaching bumper extensions of varying lengths
- Splayed or notched frame rails and/or extensions shall not be accepted
- Provides foundational strength and stability of the cab tilt system which provides superior access to engine and cooling components

FRAME FINISH

Prior to assembly, each frame rail section and cross members shall be hot dip galvanized. The galvanizing process will permeate each frame section to prevent rust and corrosion and not be merely an applied coating. The galvanized frame sections shall be provided in the natural finish eliminating the requirement for finish paint and the subsequent requirements for touch up paint and/or total repaint after an amount of time due to nicks, chips, and corrosion.

Galvanizing shall provide a barrier and cathodic protection from corrosion. During the galvanizing process, the complete frame sections and cross members shall be immersed in molten zinc; except for the cross member that contains the engine mounts. Through diffusion, the zinc shall bond to the steel at the molecular level. The resulting zinc coating shall provide a barrier that shields the steel from the environment.

FRONT FRAME EXTENSION FINISH

The front frame extension shall be hot dipped galvanized to resist weather, dirt and other corrosive material.

Proposals offering powder coated or painted frames shall not be accepted. No Exceptions.

BUMPER

The chassis shall feature a heavy duty bumper constructed from ASTM A36, 1/4" thick steel and painted primary job color. The bumper shall be 12" high by 102" wide with two inch (2") flanges and chamfered corners.

The top and bottom edges (lips) of the painted bumper shall be coated with a Line-X material.

Integral heavy duty steel bumper "wings" shall extend from the bumper to the cab.

The bumper shall be mounted to a thirty inch (30") long chassis frame extension.

A contoured apron/gravel shield fabricated from NFPA compliant, slip-resistant polished aluminum shall enclose the area between the bumper and the cab.

LINE-X COATING

The top edge (lip) of the painted bumper shall be coated with a Line-X material.

FRONT BUMPER HOSEWELL

A recessed full width hosewell compartment constructed from smooth aluminum shall be installed in the front bumper extension. The hosewell shall be constructed with "angled" ends.

Water drain holes shall be drilled in the bottom.

Officer side to hold 100ft. 1-3/4" divider front to back with the rest being storage for three battery operated rescue tools, cutter, spreader, ram.

BUMPER COMPARTMENT DOOR

The front bumper compartment shall be equipped with a raised aluminum treadplate door for the full width of the compartment.

COMPARTMENT LIGHT

One (1) vertically mounted LED strip light shall be installed inside the compartment. The light shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat build up and be approximately 30" in length.

MOUNTING

The compartment light shall be mounted in the door jamb to illuminate the compartment interior.

BUMPER COMPARTMENT DOOR SHOCK

A gas shock shall be supplied to hold the front bumper compartment door in the open position.

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BUMPER TAIL STEP

A folding step, with light shall be bolted onto the driver side of the front bumper for ease of access to the front bumper and/or windshield. The light shall be activated with the parking brake.

TOW HOOKS

Two (2) tow hooks shall be mounted to the bumper extension under the bumper towards the rearward section of the extension. The tow hooks shall be steel and shall be powder coated black.

ENGINE

A Cummins X15 15-liter diesel fueled; turbo charged engine shall feature the following:

- One of the highest power to weight ratios in its class
- Heavy-duty replaceable wet liners, roller followers, by-pass oil filtration with replaceable spin on cartridge and targeted piston cooling for longer service in tough work environments
- Improved cooled EGR system
- 912 cubic inches of displacement
- High pressure common rail fuel system producing a precise quantity of fuel at ultra-high pressures
- Fully integrated, robust electronic engine controls
- Electric fuel lift pump. No Exceptions.
- Standard drain plug

The engine shall be coupled with a Holset VGT™ (Variable Geometry Turbocharger).

The engine shall be filled with Citgo brand Citgard 500 (or equivalent) SAE 15W40 CJ4 low ash engine oil for proper engine lubrication.

The engine shall be EPA certified to meet the 2027 emissions standards without compromising performance, reliability or durability using cooled exhaust gas recirculation and selective catalytic reduction technology.

The engine shall include an original equipment manufacturer installed oil drain plug.

The engine shall include programming which will govern the top speed of the vehicle.

ENGINE PLACEMENT

The engine shall be a maximum of 36" from the center line of the front axle to the front face of the engine block. The engine valve cover shall be a maximum of 23" from the top of the frame.

The engine placement shall provide optimal weight distribution to the front axle to enhance vehicle handling. More weight out in front of the front axle can cause a “fulcrum effect” and cause unsafe “bump steer” conditions.

The engine shall be mounted in a position that provides for the lowest possible height of the interior engine tunnel. An engine tunnel height from the floor of the chassis cab shall be no more than 21” high inside the cab.

AIR COMPRESSOR

The air compressor provided for the engine shall be a Wabco® SS318 single cylinder pass-through drive type compressor which shall be capable of producing 18.7 CFM at 1200 engine RPMs. The air compressor shall feature a higher delivery efficiency translating to more air delivery per horsepower absorbed. The compressor shall include an aluminum cylinder head which shall improve cooling, reduce weight and decrease carbon formation. Superior piston and bore finishing technology shall reduce oil consumption and significantly increase the system's component life.

AIR GOVERNOR

An air governor shall be provided to control the cut-in and cut-out pressures of the engine mounted air compressor. The governor shall be calibrated to meet FMVSS requirements. The air governor shall be integrated in the air dryer assembly.

HORSEPOWER

The engine shall have 565 horsepower at 1800 RPM, with a governed speed of 2100 RPM.

The engine shall have 1850-foot pounds of torque at 1000 RPM.

ENGINE FAN DRIVE

The engine cooling system fan shall incorporate a thermostatically controlled, one (1) piece eleven (11) blade Horton clutched type fan drive, and shroud.

When the clutched fan is disengaged it shall facilitate improved vehicle performance, cab heating in cold climates, and fuel economy. The fan clutch design shall be fail safe so that if the clutch drive fails, the fan shall engage to prevent engine overheating due to a fan clutch failure.

FAN CLUTCH

The clutch fan shall automatically engage in pump mode (when applicable).

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AUXILIARY ENGINE BRAKE

A Cummins engine compression brake, for the six (6) cylinder engine, shall be provided. The engine compression brake shall:

- Activate upon 0% accelerator when in operation mode and activate the vehicle's brake lights.

TRANSMISSION PRE-SELECT

When the auxiliary brake is engaged, the transmission shall automatically shift to second gear to decrease the rate of speed. The transmission shall assist the secondary braking system, thereby slowing the vehicle.

AUXILIARY ENGINE BRAKE CONTROL

An auxiliary engine brake control device shall be included. The electronic control device shall monitor various conditions and shall activate the engine brake only if all of the following conditions are simultaneously detected:

- A valid gear ratio is detected.
- The driver has requested or enabled engine compression brake operation.
- The throttle is at a minimum engine speed position.
- The electronic controller is not presently attempting to execute an electronically controlled final drive gear shift.

The compression brake shall be controlled via an off/low/medium/high virtual switch on the LCS display. The multiplex system shall remember and default to the last engine brake control setting when the vehicle is shut off and re-started.

ENGINE PROGRAMMING HIGH IDLE SPEED

The engine high idle will be set at 1250 RPM. The high idle will be operational only when the parking brake is applied, and the truck transmission is shifted into neutral.

ENGINE HIGH IDLE CONTROL

The vehicle shall be equipped with an automatic high-idle speed control. The high idle shall be pre-set so when activated, it will operate the engine at the appropriate RPM to increase alternator output.

This device shall operate only when the control switch is activated, and the transmission is in neutral with the parking brake set. The device shall disengage when the operator depresses the brake pedal, or the transmission is placed in gear, and shall be available to engage manually through a virtual switch in the LCS Display, or automatically re-engage when the brake is set, and the transmission is placed in neutral. A LCS Display shall indicate the high idle speed control is active.

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ENGINE AIR INTAKE

The engine air intake system shall include an ember separator air intake filter which shall be located behind the fascia.

The filter shall protect the downstream air filter from embers using a combination of unique flat and crimped metal screens constructed into a corrosion resistant steel frame.

This multilayered screen shall be designed to trap embers or allow them to burn out before passing through the pack, while creating only minimal air flow restriction through the system. Periodic cleaning or replacement of the screen shall be all that is required after installation.

The intake shall also feature a cyclone style water separator to remove unwanted moisture from incoming air.

The engine shall include an air intake filter which shall be bolted to the frame and located under the front of the cab. This dry type of filter shall ensure dust and debris is safely contained inside the disposable housing, eliminating the chance of contaminating the air intake system during air filter service via a leak-tight seal.

The filter must have a capacity of no less than 1350 cubic feet of air per minute. The filter paper media must be of a flame retardant treated material. An electric air filter restriction indicator shall also be included with the system.

ENGINE EXHAUST SYSTEM

The exhaust system shall include a diesel particulate filter (DPF), a diesel oxidation catalyst, and a selective catalytic reduction catalyst (SCR) to meet current EPA standards.

The selective catalytic reduction catalyst shall utilize a diesel exhaust fluid solution consisting of urea and purified water to convert nitrogen oxide into nitrogen, water, and trace amounts of carbon dioxide. The solution shall be injected into the system between the DPF and SCR chambers.

The system shall utilize 0.065-inch-thick stainless steel exhaust tubing between the engine turbo and the DPF.

The after-treatment canister through the end of the tailpipe shall all be connected with zero leak gasketed clamps. The discharge shall terminate horizontally on the right side of the vehicle ahead of the rear tires with an exhaust gas diffuser.

The diffuser shall lower exhaust gas temperatures during the regeneration cycle.

DIESEL EXHAUST FLUID TANK

There shall be a molded cross linked polyethylene tank for the Diesel Exhaust Fluid (DEF). The tank shall have a capacity of not less than five (5) usable gallons (18.92 Liters) and shall be mounted on the left-hand side of

the chassis frame in front of the batteries below the frame. The mounting bracket shall be Hot Dipped Galvanized.

The DEF tank shall be designed with capacity for expansion in case of fluid freezing. Engine coolant, which shall be thermostatically controlled, shall be run through lines in the tank to help prevent the DEF from freezing and to provide a means of thawing the fluid if it should become frozen.

DIESEL EXHAUST FLUID TANK

There shall be an access door provided in the top rear step of left side crew area for access to the DEF tank.

ENGINE EXHAUST ACCESSORIES

An exhaust temperature mitigation device shall be shipped loose for installation by the body manufacturer on the vehicle. The temperature mitigation device shall lower the temperature of the exhaust by combining ambient air with the exhaust gases at the exhaust outlet.

ENGINE EXHAUST WRAP

The exhaust tubing between the engine turbo and the diesel particulate filter (DPF) shall be wrapped with a thermal cover in order to retain the necessary heat for DPF regeneration. The exhaust wrap shall also help protect surrounding components from radiant heat which can be transferred from the exhaust.

DIESEL PARTICULATE FILTER CONTROLS

Provide DPF system status annunciation indicator lights, lights shall be installed on driver dash to alert driver when regeneration is needed and when DPF is in an active re-generation cycle.

Warning systems shall provide DEF low level warning.

Driver's dash shall be provided with two (2) controls for the Diesel particulate filter; one (1) manual regeneration switch to activate a regeneration cycle manually when passive burn is unobtainable due to driving conditions; and one (1) Regen "Inhibit Switch".

Activations will be provided in the service screen of the Driver Display for One LCS trucks.

The switches shall be located in a covered location for V-Mux and P2P trucks.

ENGINE COOLING SYSTEM

The radiator and the complete cooling system shall meet or exceed NFPA and engine manufacturer cooling system requirements.

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The system shall include and feature the following:

- A vertically stacked charge air cooler producing the maximum cooling capacity for the engine. Proposals offering horizontally stacked charge air cooler shall not be acceptable. No Exceptions
- The charge air cooler and radiator shall measure not less than 1382 square inches
- A surge tank with a low coolant probe and capable of removing entrained air from the cooling system, with built in sight glass
- Radiator re-circulation shields to prevent heated air from re-entering the cooling system and affecting performance
- Mounts allowing the entire radiator to drop through the frame for service when needed. No Exceptions
- Engine placement shall provide a minimum of 8" between the engine fan and radiator to maximize the airflow and cooling of the engine.
- A Spin on Element water filter with corrosion inhibitor shall be provided for the cooling system. No Exception.
- The coolant filter shall be provided with two (2) shut off valves, one (1) one inlet and one (1) outlet. No Exception.
- Cooling system shall be tested and certified by the engine manufacturer

COOLANT HOSES

The cooling systems hose shall be formed silicone hose and formed aluminized steel tubing and include constant tension spring clamps.

ENGINE COOLANT

The cooling package shall include Extended Life Coolant (ELC). The use of ELC provides longer intervals between coolant changes over standard coolants providing improved performance. The coolant shall contain a 50/50 mix of ethylene glycol and de-ionized water to keep the coolant from freezing to a temperature of -34 degrees F.

Supplemental coolant additives (SCA) are not required as this is part of the extended life coolant makeup.

ADDITIONAL COOLANT SHUT OFF VALVE

An additional coolant shut off valve with connection shall be installed in the chassis coolant lines with a connector. This shall allow for the installation of an additional heater such as a pump compartment heater without draining the coolant system.

ENGINE PUMP HEAT EXCHANGER

A single bundle type coolant to water heat exchanger shall be installed between the engine and the radiator. This pump heat exchanger shall circulate water from the fire pump to the heat exchanger thereby reducing the

temperature of the coolant for the engine. The heat exchanger shall be designed to prohibit water from the fire pump from encountering the engine coolant.

TRANSMISSION

The drive train shall include an Allison model EVS 4000 torque converting automatic transmission which shall include electronic controls. The transmission shall feature two (2) 10-bolt PTO pads located on the converter housing; one (1) in the 8:00 o'clock position and one (1) in the 1:00 o'clock position.

The transmission shall include two (2) internal oil filters and Allison approved transmission fluid which shall be utilized in the lubrication of the EVS transmission. An electronic oil level sensor shall be included with the readout located in the shift selector.

The Gen V transmission shall include prognostic diagnostic capabilities. These capabilities shall include the monitoring of the fluid life, filter change indication, and transmission clutch maintenance.

The transmission gear ratios shall be:

1st	3.51:1
2nd	1.91:1
3rd	1.43:1
4th	1.00:1
5th	0.74:1
6th	0.64:1 (if applicable)
Rev	4.80:1

TRANSMISSION COOLING SYSTEM

The transmission shall include a water to oil cooler system located in the cooling loop between the radiator and the engine. The transmission cooling system shall meet all transmission manufacturer requirements. The transmission cooling system shall feature continuous flow of engine bypass water to maintain uninterrupted transmission cooling.

TRANSMISSION DRAIN PLUG

The transmission shall include an original equipment manufacturer installed magnetic oil drain plug.

AUTOMATIC NEUTRAL

The transmission shall be provided with an automatic neutral. When the parking brake is applied the transmission automatically returns to neutral.

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TRANSMISSION FLUID

The transmission shall include two (2) internal oil filters and Allison approved synthetic transmission fluid which shall be utilized in the lubrication of the EVS transmission. An electronic oil level sensor shall be included with the readout located in the shift selector.

TRANSMISSION SHIFT SELECTOR

An Allison 6th GEN pressure sensitive range selector touch pad shall be provided and located on the tunnel to the right of the driver.

The shift selector shall provide an indicator on the digital display and shall alert the driver/operator when a specific maintenance function is required.

PTO LOCATION

The transmission driven power takeoff (PTO) shall be mounted in the 1:00 o'clock position.

TRANSMISSION MODE PROGRAMMING

The transmission, upon start-up, will select the fifth speed operation without the need to press the mode button.

TRANSMISSION PROGRAMMING

The EVS Vocation Package Number 198 for the fire service for this apparatus as a Pumper. This package shall incorporate an automatic neutral with selector override. This feature commands the transmission to neutral when the park brake is applied, regardless of drive range requested on the shift selector which requires re-selecting the drive range to shift out of neutral for the override.

This package shall be coupled with the use of a split shaft PTO and incorporate pumping circuits. The transmission will detect the pump engaged signal and automatically select or deselect fourth gear lock-up. These circuits shall be used allowing the vehicle to operate in the fourth range lockup while operating the pump mode due to the 1 to 1 ratio through the transmission, therefore the output speed of the engine is the input speed to the pump. The pump output can be easily calculated by using this input speed and the drive ratio of the pump itself to rate the gallons of water the pump can provide.

A nine (9) pin diagnostic connector will be provided.

The trans module shall contain the following circuits:

FUNCTION ID	DESCRIPTION	WIRE ASSIGNMNET
C1	PTO Drive Interface Output 1	142
J	Fire Truck Pump Mode (4th Lockup)	122/123
G1	PTO Drive Interface Output 1	130
C	Range Indicator	145 (4th)
	Signal Return	103

DRIVELINE

All drivelines shall be heavy duty metal tubes equipped with Spicer 1810 series universal joints.

The shafts shall be dynamically balanced prior to installation to alleviate future vibration. In areas of the driveline where a slip shaft is required, the splined slip joint shall be coated with Glide Coat®.

POWER-TAKE-OFF

An electrical start-stop "hot shift" PTO shall be mounted to the transmission. The PTO shall be connected to the hydraulic pump and shall supply power for all aerial and outrigger operations. Electrical safety wiring shall require that the vehicle be in neutral and the parking brake set before the PTO will operate. A "PTO Engaged" indicator light is installed in the cab of the apparatus.

HYDRAULIC PUMP

The hydraulic pump and reservoir shall be a separate system independent of other vehicle functions. The pump shall be load sense type that will react to demand of the aerial without imposing unnecessary horsepower demands on the engine.

The lift, extension and tilt cylinders shall include holding valves for maximum safety in the event of pressure loss or hydraulic line failure. Flow control shall be electric, remote controlled, proportional type installed to insure smooth operation of the aerial. All hydraulic valves shall be equipped with manual overrides for emergency operation and/or manual push button mechanical overrides in event of electrical failure.

The hydraulic pumping system shall be capable of providing full performance at any engine speed.

Right Rotation:

The hydraulic pump right rotation shall have a displacement of 84cc with an SAE "C' 2-bolt flange and the shaft size shall be 1" 15 Tooth SAE Spline Shaft. The pump shall rotate right /CW (clockwise).

FUEL FILTER/WATER SEPARATOR

The fuel system shall have a Fleetguard FS1065 fuel filter/water separator as a primary filter. The fuel filter shall have a drain valve.

A water-in-fuel sensor shall be provided and wired to an instrument panel lamp and audible alarm to indicate when water is present in the fuel/water separator.

A secondary fuel filter shall be included as approved by the engine manufacturer.

FUEL SYSTEM

The fuel tank shall have a capacity of sixty-eight (68) gallons/two hundred fifty-seven (257) liters.

The tank shall offer:

- Beveled Rear Corner to allow for better angle of departure.
- A vent port which will facilitate venting to the top of the fill neck for rapid filling without any “blow-back”
- Two (2) 2” NPT fill ports for left-and-right-hand fill with a .5” NPT drain plugs centered side to side, 9" from the front of the tank
- A roll over ball check vent for temperature related fuel expansion and draw
- A design including dual draw tubes and sender flanges
- A baffled design which shall be constructed of steel
- A black Powder Coated exterior to ensure corrosion resistance

The fuel tank shall be mounted below the frame, behind the rear axle. There shall be two (2) three-piece strap hanger assemblies with “U” straps bolted midway on the fuel tank, allowing the tank to be easily lowered and removed for service purposes.

The strap hanger material shall be stainless steel. No Exceptions.

For isolation of vibration and movement, rubber isolating pads shall be provided between the tank and the hanger strap assemblies. The tank straps shall be attached to rubber coated cross members which help isolate the tank from frame flex.

Strap mounting studs through the rail, hidden behind the body shall not be acceptable.

All fuel lines shall be connected with steel fittings with all fittings pointed towards the right side (curbside) of the chassis.

The chassis fuel lines shall feature an additional 4’ of length provided so the tank can be easily lowered and removed for service purposes which shall be coiled and secured at the top of the tank.

The fuel tank shall be covered with black Line-X bed liner coating. No Exception.

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FUEL LINES

The fuel system supply and return lines installed from the fuel tank to the engine shall be black aramid braided lines with a fiber outer braid. The fuel lines are compatible with bio-diesel fuel blends and utilize reusable steel fittings.

FUEL SHUTOFF VALVE

Two (2) fuel shutoff valves shall be installed at the fuel filter to allow the fuel filter to be changed without loss of fuel to the fuel pump.

FUEL COOLER

The cross-flow air to fuel cooler shall be all aluminum and shall be provided to lower fuel temperature allowing the vehicle to operate at higher ambient temperatures. The fuel cooler shall be located reward of the battery box, under the frame.

The fuel cooler shall incorporate a fan for improved heat transfer.

The fuel cooler shall be mounted to the frame using hot dipped galvanized brackets. Powder coated or painted brackets shall not be acceptable. No exception.

ALTERNATOR

The charging system shall include a 430-Amp Delco Remy 55SI 12-volt alternator.

The alternator shall feature:

- Premium brushless design providing added durability and life
- Provide the highest efficiency resulting in less horsepower requirements
- Remote sense technology in extending the life of the battery
- 70% efficiency
- 3 Year warranty

LCS ELECTRICAL SYSTEM

There shall be a 12-volt direct current single starting electrical system providing power to all components for the cab and chassis. The system shall feature:

- A Rosenbauer One LCS Multiplexed system
- 125°C high temperature, flame retardant loom
- All SAE wiring color coded and labeled as to its function

- Wiring which is cross link with 125°C insulation
- A suppressed system in accordance with SAE J551

Serviceable components in the electrical system will be easily accessible while standing on the ground for simplified maintenance and troubleshooting. Electrical distribution centers will be provided throughout the vehicle to house the vehicle's electrical power, circuit protection, and control components. The electrical distribution centers will be located strategically throughout the vehicle to minimize wire length. For ease of maintenance, all electrical distribution centers will be easily accessible. All distribution centers containing fuses, circuit breakers and/or relays will be easily accessible.

Circuit protection devices, which conform to SAE standards, will be utilized to protect electrical circuits. All circuit protection devices will be rated per NFPA requirements to prevent wire and component damage when subjected to extreme current overload.

General protection circuit breakers will be a combination of automatic and manual reset breakers. This will provide durability and capacity maximization of the electrical system. When required, automotive type fuses will be utilized to protect electronic equipment. Control relays and solenoid will have a direct current rating of 125 percent of the maximum current for which the circuit is protected per NFPA.

EMI/RFI PROTECTION

To prevent erroneous signals from crosstalk contamination and interference, the electrical system will meet, at a minimum, SAE J551/2, thus reducing undesired electromagnetic and radio frequency emissions. An advanced electrical system will be used to ensure radiated and conducted electromagnetic interference (EMI) or radio frequency interference (RFI) emissions are suppressed at their source.

The apparatus will have the ability to operate in the electromagnetic environment typically found in fire ground operations to ensure clean operations. The electrical system will meet, without exceptions, electromagnetic susceptibility conforming to SAE J1113/25 Region 1, Class C EMR for 10KHz-1GHz to 100 Volts/Meter. The vehicle OEM, upon request, will provide EMC testing reports from testing conducted on an entire apparatus and will certify that the vehicle meets SAE J551/2 and SAE J1113/25 Region 1, Class C EMR for 10KHz-1GHz to 100 Volts/Meter requirements. Component and partial (incomplete) vehicle testing may be used, as allowed by NFPA, to extrapolate results on updated systems.

EMI/RFI susceptibility will be controlled by applying appropriate circuit designs and shielding. The electrical system will be designed for full compatibility with low-level control signals and high-powered two-way radio communication systems. Harness and cable routing will be given careful attention to minimize the potential for conducting and radiated EMI/RFI susceptibility.

ELECTRICAL HARNESSING INSTALLATION

To ensure rugged dependability, all wiring harnesses installed by the apparatus manufacturer will conform to

the following specifications:

- SAE J1128 - Low tension primary cable
- SAE J1292 - Automobile, truck, truck-tractor, trailer and motor coach wiring
- SAE J163 - Low tension wiring and cable terminals and splice clips
- SAE J2202 - Heavy duty wiring systems for on-highway trucks
- NFPA 1901 - Standard for automotive fire apparatus
- FMVSS 302 - Flammability of interior materials for passenger cars, multipurpose passenger vehicles, trucks, and buses
- SAE J1939 - Serial communications protocol
- SAE J2030 - Heavy-duty electrical connector performance standard
- SAE J2223 - Connections for on board vehicle electrical wiring harnesses NEC - National Electrical Code
- SAE J561 - Electrical terminals - Eyelet and spade type
- SAE J928 - Electrical terminals - Pin and receptacle type A

For increased reliability and harness integrity, harnesses will be routed throughout the cab and chassis in a manner which allows the harnessing to be laid into its mounting location. Routing of harnessing which requires pulling of wires through tubes will not be allowed.

Wiring will be run in loom or conduit where exposed and have grommets or other edge protection where wires pass through metal. Wiring will be colored, function and number coded. Wire colors will be integral to each wire insulator and run the entire length of each wire. Harnessing containing multiple wires using a single wire color for all wires will not be allowed. Function and number codes will be continuously imprinted on all wiring harness conductors at 3.00" intervals. All wiring installed between the cab and into doors will be protected by an expandable rubber boot to protect the wiring. Exterior exposed wire connectors will be positive locking, and environmentally sealed to withstand elements such as temperature extremes, moisture and automotive fluids.

Electrical wiring and equipment will be installed utilizing the following guidelines:

- All wire ends not placed into connectors will be sealed with a heat shrink end cap. Wires without a terminating connector or sealed end cap will not be allowed.
- All holes made in the roof will be caulked with silicon. Large fender washers, liberally caulked, will be used when fastening equipment to the underside of the cab roof.
- Any electrical component that is installed in an exposed area will be mounted in a manner that will not allow moisture to accumulate in it. Exposed area will be defined as any location outside of the cab or body.
- For low cost of ownership, electrical components designed to be removed for maintenance will be quickly accessible. For ease of use, a coil of wire will be provided behind the appliance to allow them to be pulled away from the mounting area for inspection and service work.

- A corrosion preventative compound will be applied to non-waterproof electrical connectors located outside of the cab or body. All non-waterproof connections will require this compound in the plug to prevent corrosion and for easy separation of the plug.
- Any lights containing non-waterproof sockets in a weather-exposed area will have corrosion preventative compound added to the socket terminal area.
- All electrical terminals in exposed areas will have protective Coating applied completely over the metal portion of the terminal.
- Rubber coated metal clamps will be used to support wire harnessing and battery cables routed along the chassis frame rails.
- Heat shields will be used to protect harnessing in areas where high temperatures exist. Harnessing passing near the engine exhaust will be protected by a heat shield.
- Cab and crew cab harnessing will not be routed through enclosed metal tubing. Dedicated wire routing channels will be used to protect harnessing therefore improving the overall integrity of the vehicle electrical system. The design of the cab will allow for easy routing of additional wiring and easy access to existing wiring.
- All braided wire harnesses will have a permanent label attached for easy identification of the harness part number and fabrication date.
- All standard wiring entering or exiting the cab will be routed through sealed bulkhead connectors to protect against water intrusion into the cab.

BATTERY CABLE INSTALLATION

All 12-volt battery cables and battery cable harnessing installed by the apparatus manufacturer will conform to the following requirements:

- SAE J1127 - Battery Cable
- SAE J561 - Electrical terminals, eyelets and spade type
- SAE J562 - Nonmetallic loom
- SAE J836A - Automotive metallurgical joining
- SAE J1292 - Automotive truck, truck-tractor, trailer and motor coach wiring
- NFPA 1901 - Standard for automotive fire apparatus

Battery cables and battery cable harnessing will be installed utilizing the following guidelines:

- All battery cables and battery harnesses will have a permanent label attached for easy identification of the harness part number.
- Splices will not be allowed on battery cables or battery cable harnesses.
- For ease of identification and simplified use, battery cables will be color coded. All positive battery cables will be red in color or wrapped in red loom the entire length of the cable. All negative battery cables will be black in color.
- For increased reliability and reduced maintenance, all electrical buss bars located on the exterior of the apparatus will be coated to prevent corrosion.

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ELECTRICAL COMPONENT INSTALLATION

All lighting used on the apparatus will be, at a minimum, a two (2) wire light grounded through a wired connection to the battery system. Lights using an apparatus metal structure for grounding will not be allowed.

An operational test will be conducted to ensure that any equipment that is permanently attached to the electrical system is properly connected and in working order. The results of the tests will be recorded and provided to the purchaser at time of delivery.

SUMMARY OF LOAD MANAGEMENT SYSTEM

In the LCS electrical system there will be four pre-defined Load Manager Trigger points spaced apart in 0.4 Volt increments. Each vehicle function is preset to turn OFF if node voltage falls below a certain level. The trigger points are configured as shown below.

Load Manager Trigger Points:

1: 12.5-V Load Shed Region 1 (12.5 - 12.1 V)
2: 12.1-V Load Shed Region 2 (12.1 - 11.7 V)
3: 11.7-V Load Shed Region 3 (11.7 - 11.3 V)
4: 11.3-V Load Shed Region 4 (11.3 - 0 V)

When the voltage of a Load Managed device recovers back above the trigger point, there will be an additional 30 seconds before the Output channel is turned back ON. This buffering time is to ensure that the added load doesn't immediately pull the voltage back below the trigger point.

Below are the standard voltage managed outputs that will be triggered off at 12.1 V.

HVAC FAN MED
HVAC FAN HIGH
HVAC FAN LOW
AUX DEFROST FANS
A/C CONDENSER FANS RLY
A/C COMPRESSOR CLUTCH

12-VOLT POWER POINTS

There shall be one (1) 12-volt DC power point and one (1) USB/USB-C power point provided and mounted in the driver's side of the dash. They shall be within easy reach of the driver; and shall be wired directly to the battery.

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12-VOLT POWER POINTS

There shall be one (1) 12-volt DC power point and one (1) USB/USB-C power point provided and mounted in the officer's side of the dash. They shall be within easy reach of the officer; and shall be wired directly to the battery.
The driver's side switch panels shall be black.

DISPLAY - BLACK

One (1) LCS display shall be located on the driver's side dash.

The LCS display shall feature:

- A 10" full color LCD touch screen
- A message bar displaying important messages requiring acknowledgement by the user
- Six (6) push button style controls on either side of the screen for function control
- Eight (8) push button style controls located below the screen for screen navigation
- Two Camera inputs for video feeds – use of video switchers can increase number of cameras
- There shall be an image which indicates any open cab door with a visual display.

The LCS display shall measure approximately 12.375" wide x 8.125" in height.

DRIVER SWITCHES

The driver display panel shall include two power points in the upper right corner and no rocker switch locations.

LCS DISPLAYS - BLACK

One (1) LCS display shall be located on the officer's side of the dash.

The LCS display shall feature:

- A 10" full color LCD touch screen
- A message bar displaying important messages requiring acknowledgement by the user
- Six (6) push button style controls on either side of the screen for function control
- Eight (8) push button style controls located below the screen for screen navigation
- Two camera inputs for video feeds – use of video switchers can increase number of cameras
- There shall be an image which indicates any open cab door with a visual display.

The LCS display shall measure approximately 12.375" wide x 8.125" in height.

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ALUMINUM DASH OFFICER SWITCHES

The officer switch panel shall include two power points in the upper right corner and no rocker switch locations (aluminum dash option only).

ACCESSORY POWER DISTRIBUTION PANEL

An accessory power distribution panel shall be installed. The panel shall feature twelve (12) blade type fuses, a ground section, and shall be protected by a 40-amp fuse. panel comes with a protection cover and shall be capable of carrying up to a maximum 40- amp battery direct load.

COMMUNICATION ANTENNA BASE

A communications antenna base shall be provided and mounted on the cab roof.

COMMUNICATION ANTENNA CABLE ROUTING

The cable routing for the communication antenna shall terminate under the driver seat.

GPS ANTENNA

One (1) cell phone antenna shall be supplied by the customer and installed. The location shall be coordinated and determined by best practice or as specified by the customer.

COMMUNICATION ANTENNA CABLE ROUTING

The cable routing for the communication antenna shall terminate under the driver seat.

AM/FM RADIO WITH WEATHERBAND

A radio receiver shall be installed in the headliner. The receiver shall handle vibrations, temperature fluctuations, and humidity with ease. The front panel's protective covering shall keep out any dust and debris.

The receiver's AM and FM tuner shall feature presets for radio stations, and the Weather Band tuner shall include automatic NOAA weather for alerts to any severe weather. A portable player jack shall be available on the front panel.

The receiver shall be Bluetooth-enabled for phone use and stereo control and be iPod/iPhone ready via a front USB port.

The backlit LCD display shall feature easy to read digital readout in all lighting conditions.

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OVERHEAD RADIO MOUNT

The overhead radio shall be installed on the driver's side.

SPEAKERS

Four (4) overhead speakers shall be provided in the cab for the radio.

DATA RECORDING SYSTEM

The chassis shall have a Weldon Vehicle Data Recorder system installed. The system shall be designed to meet NFPA 1901. The following information shall be recorded:

- Vehicle Speed
- Acceleration
- Deceleration
- Engine Speed
- Engine Throttle Position
- ABS Event
- Seat Occupied Status
- Seat Belt Status
- Master Optical Warning Device Switch Position
- Service Brake
- Engine Hours
- Time
- Date

Each portion of the data shall be recorded at the specified intervals and stored for the specified length of time to meet NFPA 1901 guidelines and shall be retrievable by connecting a laptop computer to the VDR system. The laptop connection shall be a panel mounted female type A or B USB connection point, remotely mounted in the left side foot well of the cab. The latest software shall be available for download from the Weldon website.

SEAT BELT WARNING

With this option, the seat belt warning system will still be integrated and displayed in the LCS Control system. The system shall activate an individual warning indicator for each seat on the LCS Display.

The warning system shall activate when any seat is occupied with a minimum of 60 pounds, the corresponding seat belt remains unfastened, and the park brake is released. The warning system shall also be activated when any seat is occupied, the corresponding seat belt was fastened in an incorrect sequence, and the park brake is released. Once activated, the visual indicators and audible alarm shall remain active until all occupied seats have their respective seat belts fastened.

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CAB INSTRUMENTATION

The instrumentation panel within the cab shall feature a digital display which shall include an information center, telltale indicator lamps, control switches, alarms, and diagnostics.

The gauges shall be easy to read including.

The instrument panel shall contain the following gauges and indictors:

- A programmable speedometer to read either 0 to 100 MPH or 0 to 100 KM/H
- An amber telltale lamp indicating the Check Engine
- An amber telltale lamp indicating MIL Engine Emissions System Malfunction
- A red telltale lamp indicating Stop Engine
- A tachometer gauge with 0-3,000 RPM
- A gauge to display the engine oil pressure with high and low-level indicators and stop engine alarm
- A fuel level gauge with a low fuel indicator and alarm
- An LED bar displaying 4 stages of the level for the Diesel Exhaust Fluid (DEF) with a refill indicator (when applicable)
- A voltage gauge with low voltage indicator
- A water temperature gauge with high water temp indicator and alarm
- A primary air PSI gauge including low air and high air warning displays
- A secondary air PSI gauge with low and high air warning indication

A diagnostic display, located in the lower left-hand side of the screen shall include digital readouts for the following:

- Odometer
- Transmission oil temp
- Engine oil temp
- Speedometer
- Engine hours
- Engine and transmission code
- Exhaust temp
- Engine coolant temp
- Engine oil PSI
- Turbo boost PSI
- Primary air pressure
- Secondary air pressure
- Engine load %
- Engine torque
- Battery volts
- Fuel level %

- Vehicle speed
- RPM
- DEF level (when applicable)
- Instant fuel economy
- Average fuel economy
- Engine hours
- Capable to record three trips, each shall include:
    - · Trip distance
    - · Fuel economy
    - · Fuel used
    - · Idle fuel used
- The screen shall also provide diagnostic capability

To promote safety, the following telltale indicator lamps will be integral to the digital display. The indicator lamps will be "dead-front" design that is only visible when active. The colored indicator lights will have descriptive text or symbols. The following indicator lamps shall be located on the Telltale panel:

BLUE Indicator Lights
- High Beam Headlight

GREEN Indicator Lights
- Right Turn Indicator
- Left Turn Indicator
- Battery On (Always On with master switch)

YELLOW Indicator Lights
- Particle Filter Regeneration (DPF)
- Regeneration Inhibit (Switch Engaged)
- Air Intake Restriction
- High Exhaust System Temperature (HEST)
- Wait to Start (when applicable)
- ATC (Automatic Traction Control) (when applicable)
- Water in Fuel Air Bag Warning (when applicable)
- ABS

RED Indicator Lights
- Low Engine Coolant Level
- Air Bag Warning (when applicable)
- Check Transmission
- High Transmission Temperature
- Parking Brake

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ALARMS

Audible steady tone warning alarm: A steady audible tone alarm will be provided whenever a warning message is present.

Alarm silence: Any active audible alarm will be able to be silenced with a button on the screen, except the low air pressure alarm will not silence until air pressure is above 70 psi.

INDICATOR LAMP AND ALARM PROVE-OUT

Telltale indicators and alarms will perform prove-out at initial power-up to ensure proper performance.

DIAGNOSTIC PANEL

A diagnostic panel shall allow diagnostic tools such as computers to connect to various vehicle systems for improved trouble shooting providing a lower cost of ownership.

The diagnostic panel shall include:

- Engine diagnostic port
- V-Mux USB diagnostic port (when applicable)
- Diesel particulate filter regeneration switch (when applicable)
- Diesel particulate filter regeneration inhibit switch (when applicable)

The enclosed diagnostic panel, accessible through the HVAC access panel shall include:

- Transmission diagnostic port
- ABS diagnostic port
- SRS diagnostic port (when applicable)

BATTERIES

The single start electrical system shall include six (6) group 31 1000 CCA batteries.

The batteries shall feature:

- A 200-minute reserve capacity
- 4/0 dual path starter cables per SAE J541
- Heat-shrink and sealant encapsulated ends on the cables
- Maintenance free

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BATTERY COMPARTMENTS

A well ventilated, hot dipped galvanized battery storage compartment shall house the batteries on the officer and driver side of the chassis and shall be located so as to offer easy access to the batteries when the cab is tilted.

Each battery compartment shall feature:

- Hot dipped galvanized 3/16" steel construction.
- A complete floor of heavy duty, industrial grade, recycled Turtle Tile brand interlocking matting
- A hinged hot dipped galvanized steel cover with two (2) magnets shall be utilized providing easy access to the batteries. No tools shall be required to gain access to the batteries.
- When in the open position, the hinged door shall rotate past the bottom of the battery compartment, allowing for a sweep out style floor and removal of the batteries, when necessary, without the inference of a lower lip. No Exceptions.

BATTERY CABLES

The starting system shall include cables which shall be protected by a 275-degree F, minimum high temperature flame retardant loom.

The cables shall be in a loom to help keep out dirt, dust and debris.

BATTERY JUMPER STUD

The starting system shall include battery jumper studs installed in the forward most portion of the driver's side lower step.

The studs shall allow the vehicle to be jump started, charged, or the cab raised in an emergency in the event of battery failure.

POWER & GROUND STUD

An electrical distribution panel shall include two (2) power studs. The studs shall be a minimum of 1/4" and each of the power studs shall be circuit protected with a fuse of the specified amperage. One (1) power stud shall be capable of carrying up to a 40-amp battery direct load. One (1) power stud shall be capable of carrying up to a 15-amp ignition switched load. The two (2) power studs shall share one (1) 1/4" ground stud.

GROUND LIGHTS

There shall be two (2) Whelen 3SC0CDCR LED lights provided under the front bumper.

Each light shall include a polycarbonate lens, a housing which is vibration welded and a bulb which shall be shock mounted for extended life.

The ground lighting shall be activated when the parking brake is set.

GROUND LIGHTS

Each door shall include a Whelen 3SC0CDCR LED NFPA compliant ground light mounted to the underside of the cab step below each door.

Each light shall include a polycarbonate lens, a housing which is vibration welded and an LED head that shall be shock mounted for extended life.

GROUND LIGHT ACTIVATION

The ground lights shall activate when the park brake is engaged.

CAB STEP LIGHTING

One (1) LED light shall be mounted to the riser of the middle cab step, a total of eight (8) step lights for the cab, in accordance with NFPA.

Each light shall include a polycarbonate lens and shall be contained in a housing which is vibration welded with a LED head which shall be shock mounted. Each step light shall not be any larger than 3" in diameter.

STEP LIGHT ACTIVATION

The step lighting shall be activated by opening any of the cab doors on the respective side.

INTERIOR DOOR WARNING LIGHTS

The interior of each door shall include one (1) 15" Weldon Amber Direct Flash LED warning light located on the door above the window. Each light shall activate with a flashing pattern when the door is in the open position to serve as a warning to approaching traffic.

ENGINE COMPARTMENT LIGHTING

Two (2) LED lights shall be mounted to the engine compartment in such a fashion as to provide as much light as possible to the engine compartment area. The engine compartment lighting shall activate with the tilting of the cab.

Oak Brook FD Chassis Spec
Rosenbauer/Sentinel Emergency Solutions

STANDARD DOME LIGHT ACTIVATION

White dome light will turn on with open door, white and color dome lights can be manually turned on at the light head at any time or through the multiplex system, if equipped. Same activations shall be used for any added auxiliary dome lights.

INTERIOR OVERHEAD CAB LED LIGHTING

Each cab door shall include a dual red and white LED lamp. There shall be one (1) light centered over each of the driver and officer's seats, and one centered over each crew door.

The clear lamp shall illuminate with the opening of each respective door with both the red and clear portions of the lamp activated by individual lighted switches on each lamp.

PORTABLE LANTERN, p/n 44451

Four (4) Streamlight "Vulcan" LED portable handlight shall be installed, p/n 44451. The lantern shall include a mounting bracket, with 12 volt charger wired to the battery system to allow the light to recharge when not in use.

HANDLIGHT INSTALLATION

The location of the handlight installation shall be in the chassis cab. All components shall be installed as directed by the fire department.

HANDLIGHT INSTALLATION

The location of the handlight installation shall be on the engine tunnel.

DO NOT MOVE APPARATUS LIGHT

The front headliner of the cab shall include a flashing red Whelen round LED light with a red lens clearly labeled "Do Not Move Apparatus". The flashing red light shall be 3.00-inches in diameter and shall be located centered left to right for greatest visibility. The light shall be interlocked for activation when either a cab door is not firmly closed, or an apparatus compartment door is not closed, and the parking brake is released. The warning light shall also be attached to folding equipment racks and light towers as specified.

NFPA requires the red light. NFPA 1901.13.11.1

DOOR OPEN ALARM

There shall be an audible alarm interlocked for activation when the parking brake is released and either a cab door or apparatus compartment door is not completely closed or an accessory not completely stowed.

There shall be a switch in the LCS to turn the door ajar light and alarm off in the event a sensor fails.

There shall be a switch in the LCS screens to turn the door ajar light and alarm off in the event a sensor fails.

BACK-UP ALARM

An ECCO model 575 backup alarm shall be installed under the rear of the vehicle with an output level of 107 db. The alarm shall be wired to the back-up light circuit and will automatically activate when the transmission is placed in reverse.

HAAS ALERT

R2V (Responder-to-Vehicle) with HAAS ALERT R2R (Responder-to-Responder) Capability HAAS Alert Model Number shall be provided. The device shall: be constructed of high strength, impact resistant, RoHS compliant ASA Plastic; have IP65 ingress protection; include a cellular modem that connects to commercially available cellular networks to transmit and receive data to/from the HAAS Alert Safety Cloud™ and include a cellular network data plan that shall; send vehicle GPS location, speed, course, acceleration, and emergency lights status (e.g., “on” or “off”) to the HAAS Alert Safety Cloud every two (2) seconds while the vehicle is moving with e-master activated; send changes in the emergency lights status to the HAAS Alert Safety Cloud; be connected to the E-Master or emergency lights master via a minimum of 22-gauge wire; be connected to the vehicle’s main battery via a minimum of 20-gauge wire so that it receives constant power; be connected to the vehicle’s ground via a minimum of 20-gauge wire; have a parasitic shut off that turns off the device when the vehicle’s battery voltage falls below 12V; be mounted inside the cab on the dashboard, within 10 feet of the officer’s seat and with a clear view of the sky. The device shall be upgradable to other communication technologies such as, at minimum; 5G, 5.9 band, and FirstNet.

The device shall utilize the HAAS Alert Safety Cloud to send digital R2V (Responder-to-Vehicle) alerts to nearby civilian drivers via in-dash infotainment and IVI (In-vehicle Infotainment) units, Waze and other popular consumer navigation applications when the vehicle is en-route with emergency lights engaged; utilize the HAAS Alert Safety Cloud to send digital R2V alerts to nearby civilian drivers via in-dash infotainment and IVI (In-vehicle Infotainment) units, Waze and other popular consumer navigation applications when the vehicle is on-scene with emergency lights engaged; has the ability to utilize the HAAS Alert Safety Cloud to receive digital R2R (Responder-to-Responder) alerts when the vehicle is en-route with emergency lights engaged and other responding emergency vehicles are in close proximity; have a port that connects to a compatible peripheral device to communicate R2R alerts to vehicle passengers. The device shall be able to communicate across all manufacturer brands.

The device shall have a companion, password-protected, web-based dashboard that provides authorized users with a map-based visualization of real-time vehicle location, emergency response status (i.e., “responding”, “on-scene”, “ready”, “offline”) with the ability for expanded attribution, vehicle speed and course, vehicle time-to-scene information, and vehicle time-on-scene information.

Dimensions – Length, Width, Height (Inches): 5.4” x 2.7” x 1.3"

Oak Brook FD Chassis Spec
Rosenbauer/Sentinel Emergency Solutions

Input Voltage - Power: 12.5V to 15V
Input Voltage - Lights Indicator: 12V to 15V
Amperage: 120 mA peak draw
Operating Temperature Range: -40℃ to 85℃
Weight (Ounces): 7 oz.

HAAS - 5 Year Subscription

The HAAS system shall be provided with a 5-year subscription.

AERIAL INTERFACE

Camera System with LCS

Selected camera system shall be displayed on the driver's LCS display. The same camera signals shall also be provided on the officer's LCS display, if equipped.

FRC INVIEW 360 CAMERA SYSTEM

The **InView 360™** provides the driver with split screen view. The bird's-eye view is always visible providing a 360-view around the apparatus. This unique view allows the operator to see pedestrians and obstacles in close proximity to the apparatus. The second view on the display switches between front/left/right/rear views depending on the operational conditions. The system is networked between the turn signals, and vehicle reverse so the screen automatically switches to left, right, and rear viewing when turning or backing up. FRC InView camera feed will only be available at the driver and officer LCS displays, if equipped.

SUPPLEMENTAL AIR BRAKE COMPRESSOR

One (1) Kussmaul model number 091-9B-4, 120 volt air compressor shall be installed to maintain the pressure in the braking system connected to shore power. A pressure switch shall sense air pressure loss and engage the compressor, which shall run until adequate pressure is achieved. The unit shall be wired to the 120-volt shore power receptacle specified.

AUXILIARY AIR COMPRESSOR LOCATION

The auxiliary air compressor shall be mounted to the ceiling of the EMS compartment located behind the officer's seat.

BATTERY CHARGER

A Kussmaul Chief series model #091-266-12-60, high output battery charger with remote display (091-94-12) shall be wired to the 12-volt battery system. The charger unit shall be mounted in a clean dry area and will be accessible for service and/or maintenance.

Oak Brook FD Chassis Spec
Rosenbauer/Sentinel Emergency Solutions

CHARGER LOCATION

The battery charger shall be mounted to the ceiling of the EMS compartment located behind the driver's seat.

SHORELINE INLET

There shall be a Kussmaul 20-amp super auto eject with a red cover supplied.

SHORELINE LOCATION

The shoreline shall be located in the driver's front stepwell.

INDICATOR

The indicator shall be located in the drivers step well.

208DS

WATER TANK LEVEL LIGHTS

Two (2) Whelen PS-TANK2 vertically mounted LED lights shall be installed one each side of the apparatus to allow for monitoring the water tank level from a distance.

They shall be configured as follows:

- GREEN - Position 1 indicates FULL
- BLUE - Position 2 indicates 3/4
- AMBER - Position 3 indicates 1/2
- RED - Position 4 indicates 1/4

Each light shall remain illuminated until the water level drops below full 3/4, 1/2, or 1/4 levels. When the level drops below 1/4 the RED light will flash to indicate an empty tank. The Whelen PS-TANK water tank level lights shall be controlled with a Fire Research Corporation TankVision remote driver.

MOUNTING LOCATION

The tank level gauges shall be mounted, one each side of the chassis cab, in the upper rear cab corners.

AIR HORNS

Two (2) Grover chrome air horns shall be provided. The air horns shall be 6” in diameter and 24” long. Each horn shall feature flared ends offering a pleasing appearance.

Oak Brook FD Chassis Spec
Rosenbauer/Sentinel Emergency Solutions

AIR HORN LOCATION

The air horns shall be located on the front bumper. One (1) shall be mounted inboard on the driver side and one (1) inboard on the officer side, so as not to interfere with any other components on the bumper.

ELECTRIC TRAFFIC HORN AND AIR HORN SELECTOR SWITCH

A selector switch shall be provided on the cab's dash that will allow the chassis steering wheel horn button to activate either the electric traffic horn or air horn system.

AIR HORN LANYARD

A dual roof mounted pull cord shall be installed to activate the air horn system. The pull cord shall be installed within easy reach of the driver and officer.

12 VOLT POWER SOURCE

One (1) 12 volt power and ground connection rated at 30 amps shall be provided in the rear cabinet of the chassis cab.
Constant Power
The power source shall be "constant hot" and remain active regardless of the position of the master battery switch.

12 VOLT POWER SOURCE

One (1) 12 volt power and ground connection rated at 30 amps shall be provided in the rear cabinet of the chassis cab.
Constant Power
The power source shall be "constant hot" and remain active regardless of the position of the master battery switch.

FRONT SCENE LIGHTING

The following scene lighting shall be located on the front brow of the cab:

LED SCENE LIGHT

A Fire Tech FT-B-65-B light shall be provided. The light shall produce 26,928 lumens and be powder coated black.

SCENE LIGHT SWITCHING

The one (1) front scene light(s) shall activate via a virtual scene light switch located on the driver's and officer's LCS screen and by a switch on the pump panel. The switching shall be wired to operate in a three-way

configuration to allow the light(s) to be controlled from either location regardless of switch position. The switches shall be labeled "FRONT SCENE".

LEFT SIDE CAB SCENE LIGHTING

The following scene lighting shall be located on the left side of the cab:

SCENE LIGHT

One (1) FireTech Guardian FT-GSM scene light with black housing shall be provided. The fixture shall be designed to attach to the side of the apparatus and emit light both straight down the side of the body at 0 degrees, and in a perpendicular plane to the mounting sheet on to the scene area near the apparatus. The fixture shall incorporate 4 rows of LEDs, with the center two rows of 6 LEDs using conical acrylic optics mounted in alignment with each other to a portion of the aluminum fixture body pointing the entire optical and electronic assembly downward 10 degrees. A moisture blocking vent valve shall be installed in the body of the fixture to allow for equalization of internal pressure without introduction of moisture into the housing.

SCENE LIGHT SWITCHING

The one (1) left side scene light(s) shall activate via a virtual scene light switch located on the driver's and officer's LCS screen and by a switch on the pump panel. The switching shall be wired to operate in a three-way configuration to allow the light(s) to be controlled from either location regardless of switch position. The switches shall be labeled "LEFT SCENE".

RIGHT SIDE CAB SCENE LIGHTING

The following scene lighting shall be located on the right side of the cab:

SCENE LIGHT

One (1) FireTech Guardian FT-GSM scene light with black housing shall be provided. The fixture shall be designed to attach to the side of the apparatus and emit light both straight down the side of the body at 0 degrees, and in a perpendicular plane to the mounting sheet on to the scene area near the apparatus. The fixture shall incorporate 4 rows of LEDs, with the center two rows of 6 LEDs using conical acrylic optics mounted in alignment with each other to a portion of the aluminum fixture body pointing the entire optical and electronic assembly downward 10 degrees. A moisture blocking vent valve shall be installed in the body of the fixture to allow for equalization of internal pressure without introduction of moisture into the housing.

SCENE LIGHT SWITCHING

The one (1) right side scene light(s) shall activate via a virtual scene light switch located on the driver's and officer's LCS screen and by a switch on the pump panel. The switching shall be wired to operate in a three-way

configuration to allow the light(s) to be controlled from either location regardless of switch position. The switches shall be labeled "RIGHT SCENE".

ELECTRIC SIREN AND CONTROL

A Whelen model #295SLSA1 electronic siren shall be mounted in the cab. This unit shall feature an electronic air horn, wail, yelp, hi-lo and shall have a hard wired PA microphone.

SPEAKER

One (1) Federal Signal DynaMax 100-watt speaker, model #ES100C, shall be installed. The speaker shall feature a Neodymium driver and a high strength composite housing that is chemical resistant and maintains rigidity at high temperatures.

SPEAKER

One (1) stainless steel grille shall be installed on the speaker.

SPEAKER LOCATION

The siren speaker shall be installed in the right side of the apparatus bumper.

FEDERAL MECHANICAL SIREN

One (1) Federal Signal Q2B-NN mechanical siren, model Q2B-012NNSD, shall be partially recess mounted into the left side of the front bumper. The grille will be outside the bumper. The "Q" siren shall feature a highly polished chrome body and grille. The siren's distinctive mechanical wail sound shall produce 123 db at 10'.The siren control switch(es) shall be installed in the cab.

SIREN CONTROL

The mechanical siren shall not be able to activate unless the E-Master switch is activated.

SIREN CONTROL

A foot switch shall be provided on the driver's side of the cab floor to activate the Federal Signal Q2B siren.

SIREN CONTROL

A foot switch shall be provided on the officer's side of the cab floor to activate the Federal Signal Q2B siren.

Oak Brook FD Chassis Spec
Rosenbauer/Sentinel Emergency Solutions

SIREN BRAKE

Two (2) push button siren brake switches for the Federal Signal Q2B siren shall be provided, one (1) on the driver's side dash and one (1) on the officer's side dash.

LIGHTBAR

Two (2) Whelen Ultra Freedom IV 21.5" light bars shall be included with the apparatus cab. The light bars shall be a model F4NMINI and shall be mounted on the roof of the cab, towards the front, above the windshield.

Each light bar shall feature:

- Two (2) red Linear Super LED corner modules
- One (1) white 400 series Linear LED light front center
- One (1) red 400 series linear LED endcap light
- Clear hard coated lenses to provide extended life/luster protection against UV & chemical stresses
- Designed in accordance with NFPA Zone A requirements

TRAFFIC LIGHT CONTROL

One (1) Global Traffic Technologies Opticom 492H high-priority traffic light emitter and control device shall be installed on the apparatus cab roof. The traffic emitter shall be wired thru the park brake to deactivate when the park brake is set.

LIGHTBAR ACTIVATION

The front upper light bar shall be activated through the LCS Display "MASTER WARNING" button and can be individually disabled with a separate button located on the LCS display. These controls will be available at all LCS displays installed on the vehicle. White lights in the light bar will be automatically disabled with application of the park brake.

"WHITE LIGHT" DISABLE SWITCH

There shall be a rocker switch provided in the emergency switch panel labeled "WHITE LIGHT DISABLE". The switch shall break the power circuit to the white Zone "A" traffic clearing lights in the lightbar and grille. This shall minimize the blinding effect to the driver operating the lights in either fog or snow conditions. The switch shall illuminate to indicate that the white lights "are" disabled.

UPPER WING FRONT WARNING LIGHTS

One (1) pair of Whelen model M6 LED warning lights shall be installed, one each side one the front of the chassis cab upper wing area. The dimensions of the lights shall be 4-5/16" x 6-3/4".
The driver side warning light shall be a Whelen Model M6RC red Super-LED with clear lens.

The officer side warning light shall be a Whelen Model M6GC green Super-LED with clear lens.
Each light shall be mounted with a Whelen Model M6FC chrome flange.

INBOARD WARNING LIGHTS

One (1) pair of Whelen model M6 LED warning lights shall be installed, one each side one the front of the chassis cab, in the inboard warning light position. The dimensions of the lights shall be 4-5/16" x 6-3/4".
The driver side warning light shall be a Whelen Model M6RC red Super-LED with clear lens.
The officer side warning light shall be a Whelen Model M6GC green Super-LED with clear lens.
Each light shall be mounted with a Whelen Model M6FC chrome flange.

INTERSECTION WARNING LIGHTS

One (1) pair of Whelen model M6 LED warning lights shall be installed one each side of the bumper. The dimensions of the lights shall be 4-5/16" x 6-3/4".
The driver side warning light shall be a Whelen Model M6RC red Super-LED with clear lens.
The officer side warning light shall be a Whelen Model M6RC red Super-LED with clear lens.
Each light shall be mounted with a Whelen Model M6FC chrome flange.

LOWER MID CHASSIS WARNING LIGHTS

One (1) pair of Whelen model M6 LED warning lights shall be installed one each side of the chassis cab, above the chassis wheels. The dimensions of the lights shall be 4-5/16" x 6-3/4".
The driver side warning light shall be a Whelen Model M6RC red Super-LED with clear lens.
The officer side warning light shall be a Whelen Model M6RC red Super-LED with clear lens.
Each light shall be mounted with a Whelen Model M6FC chrome flange.

TRAFFIC ARROW LIGHT

One (1) Whelen Model #TAM65 Traffic Advisor shall be installed. The light shall be equipped with six (6) 500 Series TIR6™ Super-LED lights in a low profile flat style lamps measuring 36" (91cm) in length. The unit shall be mounted at the rear of the apparatus body. The Traffic Advisor control head shall be mounted inside the cab and be accessible by the driver and officer.

TRAFFIC ARROW CONTROL HEAD

A Whelen TACTL5 control head shall be supplied with the traffic arrow.

QUOTATION

Sentinel Emergency Solutions

Village of Oak Brook Fire Department
Chief Kevin Fleege
1200 Oak Brook Rd.
Oak Brook, Illinois 60523
630-368-5200

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Quote No:	10029-0008	
AERIAL:	G0-00-4100	Rosenbauer EXT Tandem Axle RM Arl/Pltfrm
BID PREP:	G0-09-0030	EXT Aerial Bid Prep Forms
WARRANTY:	G0-09-2030	EXT Aerial Warranties-BR
CHASSIS:	RBM CHASSI	Use Drop Down to Add RBM Chassis
ELEC-DC:	G0-50-2010	EXT Aerial - DC Elec System - ROSENBAUER ONLY
CHS MODS:	G0-10-0201	EXT Aerial Chassis Mods - ROSENBAUER
PLUMBING:	G0-20-1000	EXT Midship Aerial Pump&Plumbing
PUMP COMPT:	G0-26-3000	EXT Aerial - Side Mount Pump Cmpt
BODY-ARL:	G0-40-4100	TA EXT RM Aerial/Platform w/ SideBed
BODY-CMMN:	G0-44-1000	EXT Aerial/Platform Common Body Part
ELEC-AC:	G0-60-2000	EXT Aerial - AC Electrical System
EQUIP-SYST:	G0-70-2000	EXT Aerial - Equipment Systems
PAINT:	G0-80-2010	EXT TA Aerial - Paint/Lettering/Stripe
EQUIP-LSE:	G0-90-1000	EXT Aerial - Loose Equipment

04/13/2026

PART NO	S	DESCRIPTION	QTY	ID
		== EXT Aerial Bid Prep Forms - 401.025 04/01/25 ==		**RAS**
		ROSENBAUER APPARATUS SOLUTIONS - RAS - 13 MARCH 2026		**RAS**
00-00-000B		|-- === Pricing as of Rosenbauer QW Release 03-13-2026 Price good thru 5-31-26 ===	1	RAS
00-00-1100	S	> Information Request Form (Factory Required)	1	RAS
00-00-1200	S	> Chassis Information Summary (Factory Required)	1	RAS
00-00-1300	S	Village of Oak Brook Fire Department	1	RAS
00-00-1499		Overall Height Restriction, NONE	1	RAS
00-00-1509		Overall Length Restriction, NONE	1	RAS
00-00-1519		Overall Width Restriction, NONE	1	RAS
00-00-1529		Wheelbase Restriction, NONE	1	RAS
00-00-1539		Angle of Approach, NFPA Minimum, 8 Degrees	1	RAS
00-00-1549		Angle of Departure, NFPA Minimum, 8 Degrees	1	RAS
00-00-1620		NFPA Aerial/Quint Equipment Allowance 2500#	1	RAS
00-00-3220		Contract Change Notice	1	RAS
01-06-0560		> Electronic Stability Control	1	RAS
01-07-0062		|-- Representative Technical Drawings (4-View)(Left/Right/Rear/Front)	1	RAS
02-02-0200		> Pre-Construction Conference At Mfg.	1	RAS
02-02-0300		> Inspection Trip	1	RAS
		== EXT Aerial Warranties-BR - 401.025 04/01/25 ==		**RAS**
01-16-0200		> |-- Apparatus, Body Warranty, 2 Years	1	RAS
01-19-0460		|-- Aluminum Body Warranty, Lifetime, Transferable	1	RAS
01-19-2450		|-- Aluminum Subframe Warranty, Lifetime, Transferable	1	RAS
01-20-0360		|-- PPG Paint Warranty, 10 Years	1	RAS
01-21-0350		|-- Lettering and Striping Warranty, 3 Years	1	RAS
01-17-0750		|-- Waterous Pump Warranty, 7 Years Parts	1	RAS
02-14-6250		Stainless Steel Plumbing Warranty, 10 Years	1	RAS
01-18-0450		|-- UPF Water Tank Warranty	1	RAS
01-33-3710		|-- In Process Photos	1	RAS

PART NO	S	DESCRIPTION	QTY	ID
01-33-5200		|-- Electrical Manuals, As Built Body, 1 Set Printed w/Digital Copy	1	RAS
02-90-0500	>	Commander Custom Chassis	1	RAS
		== Use Drop Down to Add RBM Chassis - 401.025 04/01/25 ==		**RAS**
		== EXT Aerial - DC Elec System - ROSENBAUER ONLY - 401.025 04/01/25 ==		**RAS**
57-01-0900		|-- Light Bar, Chassis Supplied	1	RAS
58-71-1820		|-- Warning Lights, Whelen, Upper Rear Body (2) S-LED Rotary L31 P/N L31*F	1	RAS
57-20-8106		|-- Warn Light, Driver, Whelen, L31 LED Rotator Red CLear Lens, Ea	1	RAS
57-20-8107		|-- Warn Light, Officer, Whelen, L31 LED Rotator Red Clear Lens, Ea	1	RAS
58-74-5200		|-- Mounting, Rear Warning Light, Body Compartment	1	RAS
58-46-2100		|-- Warning Lights, Whelen, Upper Side Front Body (2) M9 LED	1	RAS
54-15-1470		|-- Scene\Warn Light, Mounting Plate, Painted	1	RAS
57-20-1410		|-- Warn Light, Driver, Whelen, M9, Red LED, Clear Lens, Ea	1	RAS
57-20-1411		|-- Warn Light, Officer, Whelen, M9, Red LED, Clear Lens, Ea	1	RAS
58-01-2180		|-- Flange, Chrome, Warning Light, Whelen, M9 Ea	2	RAS
58-61-2100		|-- Warning Lights, Whelen, Upper Side Rear Body (2) M9 LED	1	RAS
54-15-1470		|-- Scene\Warn Light, Mounting Plate, Painted	1	RAS
57-20-1410		|-- Warn Light, Driver, Whelen, M9, Red LED, Clear Lens, Ea	1	RAS
57-20-1411		|-- Warn Light, Officer, Whelen, M9, Red LED, Clear Lens, Ea	1	RAS
58-01-2180		|-- Flange, Chrome, Warning Light, Whelen, M9 Ea	2	RAS
58-00-0700		|-- Lower Cab Warning Provided on Chassis	1	RAS
58-13-3002		|-- Front Intersection Lights Provided on Chassis	1	RAS
58-26-2420	< >	|-- Warning Lights, Whelen, Lower Mid Body (2) ML2 LED, in Rub Rail Will only fit in EXT rub rail WITHOUT bezel	2	RAS
57-20-1010		|-- Warn Light, Driver, Whelen, M2, Red LED, Clear Lens, Ea	2	RAS
57-20-1011		|-- Warn Light, Officer, Whelen, M2, Red LED, Clear Lens, Ea	2	RAS
58-36-2420	>	|-- Warning Lights, Whelen, Lower Rear Side (2) ML2 LED, in Rub Rail	1	RAS
57-20-1010		|-- Warn Light, Driver, Whelen, M2, Red LED, Clear Lens, Ea	1	RAS
57-20-1011		|-- Warn Light, Officer, Whelen, M2, Red LED, Clear Lens, Ea	1	RAS
58-81-2000		|-- Warning Lights, Whelen, Lower Rear Body (2) M6 LED	1	RAS
57-20-1200		|-- Warn Light, Driver, Whelen, M6, Red LED, Color Lens, Ea	1	RAS
57-20-1201		|-- Warn Light, Officer, Whelen, M6, Red LED, Color Lens, Ea	1	RAS
50-04-1200		Electrical Base, LCS	1	RAS
27-10-7017	<	|-- LCS Display, Add'l Mount at pump panel.	1	RAS
55-13-1080		|-- LCS Door Open, Isolation, Body Main Compartment Doors, LCS Screen	1	RAS

PART NO	S		DESCRIPTION	QTY	ID
50-15-1100			Batteries, With Supl'd Chs	1	RAS
50-15-3100			Battery Switch, Master Disconnect, Chassis Sppld	1	RAS
51-05-6400			Light, Pump Compt, 12 Volt LED w/Switch	2	RAS
51-05-9000			|-- Switch on Light Head	2	RAS
52-01-1100			Back Up Alarm, w/Chassis	1	RAS
52-02-4258		<	Back Up Camera, FRC InView 360HD, INSTALL CHASSIS SUPPLIED	1	RAS
			360 BU camera selected in chassis		
52-02-4268		>	|-- FRC InView 360HD - Aerial Outrigger Position Overlay	1	RAS
52-10-4100		>	Intercom System, Sigtronics, US45S (up to 4 + pump panel)	1	RAS
52-10-4110	S	>	|-- Headset, Intercom/Transmit Sigtronics	4	RAS
53-01-1200			Marker Lts, LED, DOT Requirements	1	RAS
53-01-3000			Marker Lights, Flex Arm, Britax, Pair	1	RAS
53-03-0065			Whelen Rear DOT LED Lighting Package M6	1	RAS
53-03-2750			|-- Tail/Brake Lights, Whelen, LED, M62BTT (Pair)	1	RAS
53-04-2750			|-- Turn Signals, Whelen, LED w/ Arrow, M62T (Pair)	1	RAS
53-06-3550			|-- Backup Lights, Whelen, LED, M62BU (Pair)	1	RAS
53-07-1210			|-- (4) Light Bezel, Tail Lights, Whelen M6 (Pair), ABS Chrome M6FCV4	1	RAS
53-05-1802			Turn Signals, Mid Body, LED Marker Light TechNiq S17-AA2G0-1Chrome (Pair)	1	RAS
54-02-1100			|-- Ground Lights, Cab, Supl'd w/Custom Chassis	1	RAS
54-03-1220			|-- Ground Lights, Pump Panel, LED, Pair Whelen 3SC0CDCR	1	RAS
54-03-1420			|-- Ground Lights, Mid Body, LED, Whelen 3SC0CDCR, Pair	1	RAS
54-03-1620			|-- Ground Lights, Rear Step, LED, Whelen 3SC0CDCR, Pair	1	RAS
54-03-1820			|-- Ground Lights, Behind Rear Wheels, LED, Whelen 3SC0CDCR, Pair	1	RAS
54-04-1999			|-- Light Switch, Ground Lights w/ Park Brake	1	RAS
54-10-1450			Step Light, Rear Tailboard, LED, Ea	1	RAS
54-11-2100			Light Switch, Step/Walkway Lights Wired Park Brake Switch	1	RAS
54-12-1910			Deck Lights, Front Of Hosebed	1	RAS
54-12-1010			|-- Deck Light, TecNiq, LED, Three (3) Lights E10	1	RAS
54-12-3010			|-- Deck Light Switch, Wired Park Brake Switch	1	RAS
54-15-5924			|-- Scene Light - Body Left Side	2	RAS
54-15-4805		<	|-- Scene Light, FireTech, Guardian, FT-GSM-B, Surface Mount, Black	2	RAS
			Housing		
			Fronts will only fit without bezel		
54-15-1470			|-- Scene\Warn Light, Mounting Plate, Painted	2	RAS
54-15-6904		>	|-- Scene Light Activation, Tie Into Chassis Scene Light Activation LCS	2	RAS
54-15-5928			|-- Scene Light - Body Right Side	2	RAS
54-15-4805		<	|-- Scene Light, FireTech, Guardian, FT-GSM-B, Surface Mount, Black	2	RAS
			Housing		
			Fronts will only fit without bezel		
54-15-1470			|-- Scene\Warn Light, Mounting Plate, Painted	2	RAS
54-15-6904		>	|-- Scene Light Activation, Tie Into Chassis Scene Light Activation LCS	2	RAS

PART NO	S	DESCRIPTION	QTY	ID
54-15-5932		|-- Scene Light - Rear Body	2	RAS
54-15-4801		|-- Scene Light, FireTech, Guardian Junior, FT-GSMJR-B Surface Mount, Black	2	RAS
54-15-6904	>	|-- Scene Light Activation, Tie Into Chassis Scene Light Activation LCS	2	RAS
58-91-0100	>	Traffic Arrow Light, Install Chassis Supplied	1	RAS
58-95-1300		Traffic Arrow Light Mounting, Surface Mount, Rear Body	1	RAS
		== EXT Aerial Chassis Mods - ROSENBAUER - 401.025 04/01/25 ==		**RAS**
10-01-1200	>	Vehicle Dimensions, Tandem Axle	1	RAS
10-02-1100		Label, Data, Fluid Levels	1	RAS
10-02-1200		Label, Data, Height x Length, Weight	1	RAS
10-02-1300		Label, Data, "No Ride" Rear Step	1	RAS
10-02-1400		Label, Data, Tire Pressure	1	RAS
10-02-2100		Label, Indicating Number of Seats	1	RAS
10-02-2500		Label, "Caution: Do Not Wear Helmet While Seated"	1	RAS
10-03-6120		Tow Plates (2), Rear Frame Rail, Above Step, 3/4"x3"ID	1	RAS
80-43-2400		|-- Painting, Tow Plates, Black	1	RAS
10-06-1120		Wheel Trim, SST Hub/Lug Covers, Front/Rear, Tandem Axle	1	RAS
10-06-1750		Indicator, Tire Pressure, PressuerPro TPMS, Cab Monitor Display, Tandem Axle	1	RAS
07-06-0490		Groeneveld Automatic Lubrication System Tandem	1	RAS
10-07-0100		Exhaust, Horizontal Supplied With Chassis	1	RAS
10-07-4200	>	Exhaust Provisions, Adapter, Plymovent, Customer Installed	1	RAS
10-08-2100		Mud Flaps, Rear Wheels, Black, w/ Body	1	RAS
10-18-6000	>	Cab Tilt Control, Custom, Driver Front Compt or Pump Panel	1	RAS
10-19-2300		|-- Air Brake Compressor, Supplied w/ Chassis	1	RAS
		== EXT Midship Aerial Pump&Plumbing - 401.025 04/01/25 ==		**RAS**
20-23-3200	>	|-- Pump, Waterous, CSUC22, 1 Stage, Midship	1	RAS
20-23-3130	>	|-- Pump Flow Rating, Waterous, CSUC22, 2000 GPM	1	RAS
22-24-1300		|-- Intake, Gated, 6" NST, 6" AKR Elec Valve, LH Side, Behind Panel, 9333 Control	1	RAS
21-01-2500		|-- Drain/Bleeder, IC Lift-Up, Manual 1/4 Turn	1	RAS
22-40-7900		|-- Adapter, LW Alum, 30 Deg, 6"F x 5" Storz	1	RAS
22-41-7200		|-- Cap, 5" Storz, LW Alum, Locking, w/Chain or Cable	1	RAS
22-24-3300		|-- Intake, Gated, 6" NST, 6" AKR Elec Valve, RH Side, Behind Panel, 9333 Control	1	RAS
21-01-2500		|-- Drain/Bleeder, IC Lift-Up, Manual 1/4 Turn	1	RAS

PART NO	S	DESCRIPTION	QTY	ID
22-40-7900		|-- Adapter, LW Alum, 30 Deg, 6"F x 5" Storz	1	RAS
22-41-7200		|-- Cap, 5" Storz, LW Alum, Locking, w/Chain or Cable	1	RAS
20-26-2200		|-- Pump Seal, Mech, Waterous	1	RAS
20-26-2400	>	|-- Pump Impeller, Waterous, Flame Plated Hubs	1	RAS
20-26-2600		|-- Pump Anode, Waterous, Removable	1	RAS
20-26-3200		|-- Pump Shift, Waterous, Elec/Pneumatic Operated	1	RAS
20-29-1100	>	|-- Primer, Trident Air Primer, Manual	1	RAS
20-29-1252		|-- Primer Control - Main Pump Manual Push Button	1	RAS
27-10-3500	>	|-- Pressure Governor, FRC, In-Control, w/Body, TGA400	1	RAS
21-00-2000		|-- Screens/Anodes, Pump	1	RAS
21-00-3300		|-- Piping, SST - 1250 GPM & Up	1	RAS
21-01-0200	>	|-- Pump Drain, Master, Manifold, Push Pull Type	1	RAS
21-01-7300		|-- Unpainted, Pump & Piping	1	RAS
21-01-8100		|-- Threads, National Hose (NST)	1	RAS
22-51-5210	>	|-- Tank-To-Pump, Water Tank, 3" Valve/4" Piping, Midship, Pumper/Tanker	1	RAS
22-50-0100		|-- Single Tank to Pump Control - Pump Operator's Panel	1	RAS
24-62-1300		|-- Valve, AKR, 8000, (3")	1	RAS
22-55-4012		|-- Intake Valve Control, Pull Rod, 1/4 Turn, AKR - IC	1	RAS
23-02-1300		|-- Tank Fill/Cooling Line, Water Tank, 2"	1	RAS
24-62-1200		|-- Valve, AKR, 8000, (2")	1	RAS
22-55-4012		|-- Intake Valve Control, Pull Rod, 1/4 Turn, AKR - IC	1	RAS
20-30-3100		|-- Pump Installation, Midship Split-Shaft, By Body Builder	1	RAS
20-31-1010		Fire Pump Testing - Aerials	1	RAS
20-31-1250		|-- Pump Test, Aerial, UL	1	RAS
20-31-1500		|-- Pump Test, Label	1	RAS
20-31-3200		Dump-Relief Valve, Suction Side, ELK #40, NST	1	RAS
20-31-4110		Pump Cooler, Bypass-To-Tank, 3/8", IC Mini-Twist Handle	1	RAS
20-31-5110		Heat Exchanger, Engine, Hook-Up Only, IC Mini-Twist Handle	1	RAS
22-12-1100		Intake, Auxiliary, Gated, 2-1/2", NST, Left Side	1	RAS
21-01-2500		|-- Drain/Bleeder, IC Lift-Up, Manual 1/4 Turn	1	RAS
22-41-1100		|-- Plug, 2-1/2", Chrome Rocker Lug, w/Chain	1	RAS
24-62-1250		|-- Valve, AKR, 8000, (2-1/2")	1	RAS
22-55-4050		|-- Intake Valve Control, AKR, Manual Swing Type-Adjacent	1	RAS
23-05-3300	>	|-- Discharge, 2" x 1-1/2" Front RH Bumper, Swivel, NST Brass Swivel	1	RAS
21-00-3500		|-- NON Foam Capable Discharge	1	RAS
21-01-2200		|-- Drain/Bleeder, Class 1, Automatic	1	RAS
23-05-9100		|-- Hose Connection, Front Bumper, Inside Hosewell, Swivel	1	RAS
24-61-1200		|-- Valve, AKR, 8000, (2")	1	RAS
24-53-0020	>	|-- Discharge Valve Control, Pull Rod, 1/4 Turn, SM, AKR - IC w/Gauge	1	RAS
27-02-1500		|-- Gauge, Discharge, IC, 2-1/2" (0-400 PSI), WF	1	RAS
23-06-2200		|-- Crosslay Discharges, (2) 1-1/2", Over Pump Panel, NST w/divider	1	RAS
21-00-3500		|-- NON Foam Capable Discharge	2	RAS
21-00-4000		|-- 200-ft of 1-3/4-in Hose Capacity	2	RAS
21-01-2500		|-- Drain/Bleeder, IC Lift-Up, Manual 1/4 Turn	2	RAS
24-61-1200		|-- Valve, AKR, 8000, (2")	2	RAS
24-53-0020	>	|-- Discharge Valve Control, Pull Rod, 1/4 Turn, SM, AKR - IC w/Gauge	2	RAS
27-02-1500		|-- Gauge, Discharge, IC, 2-1/2" (0-400 PSI), WF	2	RAS
23-08-3300		|-- Crosslay Cover, Alum T/P, Single, W/Vinyl End Flaps (Non NFPA Walking Surface)	1	RAS

PART NO	S	DESCRIPTION	QTY	ID
29-20-5600		|-- Vinyl Cover, Color, RED	1	RAS
23-08-5020		|-- Crosslay Discharges, Over Pump Panel, Low Height	1	RAS
23-09-4100		Discharge, 2-1/2", Left Side, Pump Panel, NST	2	RAS
21-00-3500		|-- NON Foam Capable Discharge	2	RAS
21-01-2500		|-- Drain/Bleeder, IC Lift-Up, Manual 1/4 Turn	2	RAS
24-02-1200		|-- Elbow, 2-1/2"F x 2-1/2" NST M, Chrome	2	RAS
24-03-1400		|-- Cap, 2-1/2", NST Chrome, Rocker Lug, w/Chain	2	RAS
24-61-1250		|-- Valve, AKR, 8000, (2-1/2")	2	RAS
24-53-0020	>	|-- Discharge Valve Control, Pull Rod, 1/4 Turn, SM, AKR - IC w/Gauge	2	RAS
27-02-1500		|-- Gauge, Discharge, IC, 2-1/2" (0-400 PSI), WF	2	RAS
23-10-4100		Discharge, 2-1/2", Right Side, Pump Panel, NST	1	RAS
21-00-3500		|-- NON Foam Capable Discharge	1	RAS
21-01-2500		|-- Drain/Bleeder, IC Lift-Up, Manual 1/4 Turn	1	RAS
24-02-1200		|-- Elbow, 2-1/2"F x 2-1/2" NST M, Chrome	1	RAS
24-03-1400		|-- Cap, 2-1/2", NST Chrome, Rocker Lug, w/Chain	1	RAS
24-61-1250		|-- Valve, AKR, 8000, (2-1/2")	1	RAS
24-53-0020	>	|-- Discharge Valve Control, Pull Rod, 1/4 Turn, SM, AKR - IC w/Gauge	1	RAS
27-02-1500		|-- Gauge, Discharge, IC, 2-1/2" (0-400 PSI), WF	1	RAS
23-10-5200		Discharge, 3" x 4"NST, Right Side, Pump Panel, NST	1	RAS
21-00-3500		|-- NON Foam Capable Discharge	1	RAS
21-01-2500		|-- Drain/Bleeder, IC Lift-Up, Manual 1/4 Turn	1	RAS
24-02-2600		|-- Elbow, LW Alum, 5" Storz x 4"F SE-50-40	1	RAS
24-03-2200		|-- Cap, LW Alum, 5" Storz, w/Cable SC-50	1	RAS
24-61-1300		|-- Valve, AKR, 8000, (3")	1	RAS
24-53-0300	>	|-- Discharge Valve Control, Pull Rod, 1/4 Turn, SM, AKR Slow Close - IC w/Gauge	1	RAS
27-02-1500		|-- Gauge, Discharge, IC, 2-1/2" (0-400 PSI), WF	1	RAS
24-10-1100	>	Aerial Discharge/Inlet, 3", Rear, 4" NSTM w/4" Cap, 1-1/2" Drain	1	RAS
21-01-2500		|-- Drain/Bleeder, IC Lift-Up, Manual 1/4 Turn	1	RAS
24-01-4600		|-- Adapter, LW Alum, 5" Storz x 4"F	1	RAS
24-03-1700		|-- Cap, 4", Chrome, Rocker Lug, w/Chain	1	RAS
24-61-1300		|-- Valve, AKR, 8000, (3")	1	RAS
24-53-0300	>	|-- Discharge Valve Control, Pull Rod, 1/4 Turn, SM, AKR Slow Close - IC w/Gauge	1	RAS
27-02-1500		|-- Gauge, Discharge, IC, 2-1/2" (0-400 PSI), WF	1	RAS
		== EXT Aerial - Side Mount Pump Cmpt - 401.025 04/01/25 ==		**RAS**
26-02-1600		Pump Enclosure, Side Mount, Extruded Alum, Aerial	1	RAS
26-10-2312		Dunnage, LH/RH Hinge Door, Over Pump, SM Pump Enclosure	1	RAS

PART NO	S		DESCRIPTION	QTY	ID
26-30-1110			Running Board, LH Pump Panel, Alum T/P, SM Aerial	1	RAS
26-30-3000			|-- Step, Slide Out, Alum T/P, LH Pump Panel	1	RAS
26-30-1150			Running Board, RH Pump Panel, Alum T/P, SM	1	RAS
26-30-5300			|-- Hosewell, Running Board, Pump Panel, RH (Floating)	1	RAS
26-30-6200			|-- Hosewell, Running Board, Velcro Straps,	1	RAS
26-30-2100			Step, Intermediate, LH Pump Panel, Alum T/P	1	RAS
26-30-2200			Step, Intermediate, RH Pump Panel, Alum T/P	1	RAS
26-31-1110			Gauge Panel, Upper LH, SST, EXT	1	RAS
26-31-1300			Pump Side Access Door, Upper RH, SST	1	RAS
26-35-3210			Pump Panel, SST, LH/RH, SM, EXT	1	RAS
26-35-1100			|-- Pump Panel, Bolted, LH	1	RAS
26-35-1400		>	|-- Pump Panel, Hinged, RH	1	RAS
26-36-5150			Trim Panels, IC Color, Intakes and Discharges	1	RAS
26-55-1100			Labels, Test Data and Safety Placards	1	RAS
26-55-2410			Labels, IC Color Coded, EXT	1	RAS
26-56-1125			Pump Panel LED Lights, (3) Tecniq E10-W0001-1, Midship LH w/Switch on Operator P	1	RAS
26-56-1225			Pump Panel LED Lights (2), Midship RH, Tecniq E10-W0001-1	1	RAS
26-56-1992			Light Switch, Pump Panel Lights w/ Park Brake	1	RAS
27-01-1500		>	|-- Master Gauges, IC, 4" PSI, Pair	1	RAS
27-01-4100		>	Gauge, Test Taps	1	RAS
27-35-1100			Water Tank Gauge, FRC, TankVision Pro 300, Pump Panel WLA300-A00	1	RAS
27-37-1100			Air Horn, Push Button, Pump Panel	1	RAS
			== TA EXT RM Aerial/Platform w/ SideBed - 401.025 04/01/25 ==		**RAS**
25-28-2340	S	< >	Water Tank, 500 Gallon, Aerial, Poly, Half-T-Tank, Left Half-T Left	1	RAS
25-42-1100			|-- Water Tank, Base Specs, Poly	1	RAS
25-42-1200			|-- Water Tank, Manufacturer, UPF, Poly	1	RAS
25-44-1700			|-- Water Tank, Fill Tower, 10" x 10", EXT	1	RAS
25-50-1400			|-- Water Tank Clean-out & Plug, 3"	1	RAS
			AERIAL/PLATFORM - REAR MOUNT TANDEM AXLE - EXT	**1**	**RAS**
00-01-5100			|-- Chassis Requirements, Ladder	1	RAS
00-01-5200			|-- Body Requirements, Ladder, Four (4) Outriggers	1	RAS
00-01-5190		>	|-- Outrigger Pad Storage, Dual, One (1) Each Side	1	RAS
00-01-5204		>	|-- Harness, Safety, Pac Mule, Four (4), Provided By Body Bldr	1	RAS
00-01-5212			|-- Size, Safety Harness, Large, 34"-40" Waist	1	RAS

PART NO	S	DESCRIPTION	QTY	ID
00-01-5214		|-- Size, Safety Harness, X-Large, 42"-50" Waist	2	RAS
00-01-5216		|-- Size, Safety Harness, XX-Large, 52"& Up Waist	1	RAS
30-01-2050		|-- Body Construction - Rosenbauer EXT - Aerial	1	RAS
30-01-2250		|-- Electrolysis Corrosion Control	1	RAS
30-02-1960		|-- Side Body Header, Alum, Painted, Tandem Axle, EXT	1	RAS
44-06-1200		|-- Wheel Well Panel, Alum, Painted, Tandem Axle	1	RAS
44-06-4320		|-- Fenderette, Polished Stainless Steel SST, EXT	2	RAS
40-40-5200		|-- Body Sub-Structure, EXT, Tandem Axle	1	RAS
44-06-5240		|-- Outrigger Body Panels w/ Secondary Covers, Alum, Painted	1	RAS
30-01-3130	>	|-- Cover, Outrigger, Painted Alum	1	RAS
59-03-2214		|-- Outrigger Placement Light Activation - LCS	1	RAS
		AERIAL / PLATFORM HOSEBEDS - SIDE HOSEBED - EXT		**RAS**
41-39-1350		|-- Hosebed, Aerial, Right Hand Side Load, EXT	1	RAS
41-39-1800	>	|-- Hosebed Loading Access Door, Hinged, Each	3	RAS
30-02-1510	>	|-- Door Handle, Hanson #102 D-Ring, SST, Hinged Doors (Ea)	3	RAS
41-39-2150		|-- Hosebed, Grating, Extruded Alum, Aerial, EXT	1	RAS
41-39-3100		|-- Hosebed, Storage Capacity 2.5" DJ	1	RAS
41-39-4100		|-- 50-ft Hose Lengths	10	RAS
41-39-3500		|-- Hosebed, Storage Capacity 5" LDH SJ Rubber	1	RAS
41-39-4200		|-- 100-ft Hose Lengths	10	RAS
41-39-5100		|-- Hosebed, Divider, 1/4" Alum	1	RAS
41-40-1100		|-- Hosebed Cover, Vinyl, Side Load Aerial/Platform, Velcro	1	RAS
29-20-5600		|-- Vinyl Cover, Color, RED	1	RAS
40-42-5030	>	100" OAW, 24"/22", Full Depth/Lower Depth, TA RM Aerial/Platform	1	RAS
40-42-5142	>	Hinged/Roll Up Combo, TA RMA, Side Bed	1	RAS
30-02-1800		|-- Doors, Hinged/Roll-Up Combination Specs, EXT	1	RAS
30-02-1260	>	|-- Door Strap, EZ-Pull Down, Ea	6	RAS
30-02-1510	>	|-- Door Handle, Hanson #102 D-Ring, SST, Hinged Doors (Ea)	5	RAS
40-61-2420	< >	|-- Above Front Outrigger, Single Compt, Roll Up Outside Compt, 24"	1	RAS
		L1 - 24" Wide Compartment		
44-40-1020		|-- Vents, Compts, Louvers (Ea)	2	RAS
55-01-3605		|-- RBA InVisiLight, 17" Recessed, Shelving, Sides (2) Ea Compartment,	1	RAS
		EXT		
55-06-1100		|-- Compartment Light, Door Switch, Auto, Ea	1	RAS
40-62-3460	< >	|-- Ahead Rear Wheels, Full Height Compt, Roll Up Outside Compt, 34"	1	RAS
		L2 - 34" Wide Compartment		
44-40-1020		|-- Vents, Compts, Louvers (Ea)	2	RAS
45-02-4100		|-- Shelf, Adjust, Alum 3/16", EXT	2	RAS
45-06-2100	< >	|-- Slide Tray, 500#, Alum 3/16" (1/4 Depth), EXT	1	RAS
		Floor mounted		
80-76-0110	>	|-- Reflective Stripe, Red/White, Shelves/Trays/Tool Boards, Ea	1	RAS
45-19-1300		|-- Equipment Mounting Panel, Rear Wall, PAC TRAC	1	RAS
55-01-3620		|-- RBA InVisiLight, 45" Recessed, Shelving, Sides (2) Ea Compartment,	1	RAS
		EXT		
55-06-1100		|-- Compartment Light, Door Switch, Auto, Ea	1	RAS
40-64-6430	< >	|-- Above Front Tandem, Upper Compt, Roll Up Outside Compt, 67"	1	RAS
		L3 - 67" Wide Compartment		
44-40-1020		|-- Vents, Compts, Louvers (Ea)	2	RAS
45-10-2100	>	|-- Pull-Out Drop-Down Tray, 250# (1/4 Depth), EXT	1	RAS
80-76-0110	>	|-- Reflective Stripe, Red/White, Shelves/Trays/Tool Boards, Ea	1	RAS

PART NO	S		DESCRIPTION	QTY	ID
55-01-3605			|-- RBA InVisiLight, 17" Recessed, Shelving, Sides (2) Ea Compartment, EXT	1	RAS
55-01-3695			|-- RBA InVisiLight, 62" Recessed, Ceiling Light, Ea Cmpt, EXT	1	RAS
55-06-1100			|-- Compartment Light, Door Switch, Auto, Ea	1	RAS
40-65-5010	S	< >	|-- Above Rear Tandem, Upper Compt, Hinged Lift Up Door, 49" L4 - 49" Wide Compartment	1	RAS
44-40-1020			|-- Vents, Compts, Louvers (Ea)	2	RAS
45-10-2100		>	|-- Pull-Out Drop-Down Tray, 250# (1/4 Depth), EXT	1	RAS
80-76-0110		>	|-- Reflective Stripe, Red/White, Shelves/Trays/Tool Boards, Ea	1	RAS
55-01-3360			|-- Wall Light, OSS Access, 18" LED Tube Light, (2) Ea Compartment	1	RAS
55-06-1100			|-- Compartment Light, Door Switch, Auto, Ea	1	RAS
40-66-2410		< >	|-- Above Rear Outrigger, Upper Compt, Hinged Lift Up Door, 24" L6 - 24" Wide Compartment	1	RAS
44-40-1020			|-- Vents, Compts, Louvers (Ea)	2	RAS
45-02-4100			|-- Shelf, Adjust, Alum 3/16", EXT	1	RAS
55-01-3360			|-- Wall Light, OSS Access, 18" LED Tube Light, (2) Ea Compartment	1	RAS
55-06-1100			|-- Compartment Light, Door Switch, Auto, Ea	1	RAS
40-67-3454	S	< >	|-- Behind Rear Wheels, Full Height Compt, Hinged Double Doors, 27" L5 - 27" Wide Compartment	1	RAS
44-40-1020			|-- Vents, Compts, Louvers (Ea)	2	RAS
45-02-4100			|-- Shelf, Adjust, Alum 3/16", EXT	2	RAS
45-06-2100		< >	|-- Slide Tray, 500#, Alum 3/16" (1/4 Depth), EXT Floor Mounted	1	RAS
80-76-0110		>	|-- Reflective Stripe, Red/White, Shelves/Trays/Tool Boards, Ea	1	RAS
55-01-3385			|-- Wall Light, OSS Access, 48" LED Tube Light, (2) Ea Compartment	1	RAS
55-06-1100			|-- Compartment Light, Door Switch, Auto, Ea	1	RAS
40-68-2500		< >	|-- Behind Rear Outrigger, Turntable Access, Alum T/P, 25" 25" Wide Cavity	1	RAS
40-96-1600		>	|-- Access Ladder, Aerial, LH, Swing Out & Down, 17"W	1	RAS
33-70-1230		< >	|-- Handrails. EZ-Climb Ladder. 30" Pair Mount on outer edges of cavity	1	RAS
54-10-1300			|-- Step Light, Fixed /Folding Step, LED, Ea	2	RAS
40-71-2420		< >	|-- Above Front Outrigger, Single Compt, Roll Up Outside Compt, 24" R1 - 24" Wide Compartment	1	RAS
44-40-1020			|-- Vents, Compts, Louvers (Ea)	2	RAS
55-01-3605			|-- RBA InVisiLight, 17" Recessed, Shelving, Sides (2) Ea Compartment, EXT	1	RAS
55-06-1100			|-- Compartment Light, Door Switch, Auto, Ea	1	RAS
40-72-3460		< >	|-- Ahead Rear Wheels, Full Height Compt, Roll Up Outside Compt, 34" R2 - 34" Wide Compartment	1	RAS
44-40-1020			|-- Vents, Compts, Louvers (Ea)	2	RAS
45-02-4100			|-- Shelf, Adjust, Alum 3/16", EXT	2	RAS
45-06-2100		>	|-- Slide Tray, 500#, Alum 3/16" (1/4 Depth), EXT	1	RAS
80-76-0110		>	|-- Reflective Stripe, Red/White, Shelves/Trays/Tool Boards, Ea	1	RAS
45-19-1300			|-- Equipment Mounting Panel, Rear Wall, PAC TRAC	1	RAS
55-01-3620			|-- RBA InVisiLight, 45" Recessed, Shelving, Sides (2) Ea Compartment, EXT	1	RAS
55-06-1100			|-- Compartment Light, Door Switch, Auto, Ea	1	RAS
40-77-3416	S	< >	|-- Behind Rear Wheels, Low Compt, Hinged Double Door, 27" R3 - 27" Wide Compartment	1	RAS

PART NO	S	DESCRIPTION	QTY	ID
44-40-1020		|-- Vents, Compts, Louvers (Ea)	2	RAS
45-06-2100	< >	|-- Slide Tray, 500#, Alum 3/16" (1/4 Depth), EXT	1	RAS
		Floor Mounted		
80-76-0110	>	|-- Reflective Stripe, Red/White, Shelves/Trays/Tool Boards, Ea	1	RAS
55-01-3360		|-- Wall Light, OSS Access, 18" LED Tube Light, (2) Ea Compartment	1	RAS
55-06-1100		|-- Compartment Light, Door Switch, Auto, Ea	1	RAS
40-78-2510	< >	|-- Behind Rear Outrigger, Low Compt, Hinged Single Door, 25"	1	RAS
		R4 - 25" Wide Compartment		
44-40-1020		|-- Vents, Compts, Louvers (Ea)	2	RAS
45-06-2100	< >	|-- Slide Tray, 500#, Alum 3/16" (1/4 Depth), EXT	1	RAS
		Floor Mounted		
80-76-0110	>	|-- Reflective Stripe, Red/White, Shelves/Trays/Tool Boards, Ea	1	RAS
55-01-3360		|-- Wall Light, OSS Access, 18" LED Tube Light, (2) Ea Compartment	1	RAS
55-06-1100		|-- Compartment Light, Door Switch, Auto, Ea	1	RAS
40-95-3100		Rear Aerial Body Configuration, Roll Up Door, EXT	1	RAS
55-01-3360		|-- Wall Light, OSS Access, 18" LED Tube Light, (2) Ea Compartment	1	RAS
55-06-1100		|-- Compartment Light, Door Switch, Auto, Ea	1	RAS
90-02-3660		|-- Ladder Storage, Rear Slide, Torque Box, EXT Aerial/Platform	1	RAS
90-03-0210		|-- Ladders, Ground, Provided By Manufacturer, Aerial/Platform, MN	1	RAS
90-03-3400		|-- Ladder, Roof, Duo-Safety, 16' Aluminum 875-A	1	RAS
90-03-3500		|-- Ladder, Roof, Duo-Safety, 18' Aluminum 875-A	1	RAS
90-06-4700		|-- Ladder, Extension, Duo-Safety, 28' Aluminum, 2 Section 1200-A	1	RAS
90-07-4400		|-- Ladder, Extension, Duo-Safety, 40' Aluminum, 3 Section 1525-A	1	RAS
90-06-4900		|-- Ladder, Extension, Duo-Safety, 35' Aluminum, 2 Section 1200-A	1	RAS
90-03-0230		|-- Ladders, Folding Attic, Provided By Rosenbauer	1	RAS
90-08-2600		|-- Ladder, Attic, Duo-Safety, 10' Aluminum, Folding 585-A	1	RAS
90-10-1300		|-- Ladder, Velocity (Little Giant), 9-15' Aluminum, Model 15417-001	1	RAS
90-16-5420		|-- Pike Pole Mounting Tube, In Ladder Compartment	6	RAS
90-16-6110		|-- Pike Poles - Provided by Rosenbauer - Aerial/Platform	1	RAS
90-16-3000		|-- Pike Pole, 12' Fiberglass, Round Handle, PLY-12AH-B	2	RAS
90-23-1300	<	|-- Hook, NY Roof Hook, Double Hook, w/ Grips, 6-ft, Fire Hooks Unlimited	2	RAS
		Mount in transverse compartment above pump panel w/Little Giant - One Ea Side		
90-23-1400		|-- Hook, NY Roof Hook, Double Hook, w/ Grips, 8-ft, Fire Hooks Unlimited	2	RAS
90-23-1500		|-- Hook, NY Roof Hook, Double Hook, w/ Grips, 10-ft, Fire Hooks Unlimited	2	RAS
44-02-2100		|-- Rub Rails, Rear Body, EXT, Extruded Alum	1	RAS
44-11-5150		Wheel Well Provisions, Ahead of Wheels Left Side, EXT	1	RAS
44-10-2600	>	|-- Wheel Well Provisions, Triple SCBA Tube, Brushed SST Door	1	RAS
44-10-6000		|-- Wheel Well Provisions, SCBA Compt Straps	3	RAS
44-11-5250		Wheel Well Provisions, Between Tandems Left Side, EXT	1	RAS
44-10-9104	>	|-- Wheel Well Provisions, Dual Extinguisher, Brushed SST Door	1	RAS
44-10-6000		|-- Wheel Well Provisions, SCBA Compt Straps	2	RAS
44-11-5350		Wheel Well Provisions, Behind Wheels Left Side, EXT	1	RAS
44-07-1700		|-- Fuel Fill Door Assy, BSST, Poly Pocket, LH Wheel Well Panel, (Fire Shopp)	1	RAS
44-11-5550		Wheel Well Provisions, Ahead of Wheels Right Side, EXT	1	RAS
44-10-2600	>	|-- Wheel Well Provisions, Triple SCBA Tube, Brushed SST Door	1	RAS
44-10-6000		|-- Wheel Well Provisions, SCBA Compt Straps	3	RAS
44-11-5650		Wheel Well Provisions, Between Tandem Right Side, EXT	1	RAS
44-10-9104	< >	|-- Wheel Well Provisions, Dual Extinguisher, Brushed SST Door	1	RAS
		8" dia opening upper and lower		
		101 body 26" deep		
		98 body 24.50" deep		

PART NO	S	DESCRIPTION	QTY	ID
		95 body 23" deep		
44-10-6000		|-- Wheel Well Provisions, SCBA Compt Straps	2	RAS
44-11-5750		Wheel Well Provisions, Behind Wheels Right Side, EXT	1	RAS
44-10-2730	>	|-- Wheel Well Provisions, Open Storage, Brushed SST Door	1	RAS
		== EXT Aerial/Platform Common Body Part - 401.025 04/01/25 ==		**RAS**
33-62-9006	>	|-- Left Front Steps	1	RAS
33-62-9100		|-- Step - Folding - Chrome - Integral LED Lights	3	RAS
33-62-9008	>	|-- Right Front Steps	1	RAS
33-62-9100		|-- Step - Folding - Chrome - Integral LED Lights	3	RAS
33-70-3600		|-- Handrails, Pumper, Top of Body Sides, Front, 12", Pair	1	RAS
44-01-1400		|-- Body Trim, Front Body, Height of Side Compts, Alum T/P	1	RAS
44-01-4020		|-- Body Trim, Rear Body, Smooth Alum for Chevron Stripe, EXT	1	RAS
44-02-1120		|-- Rub Rails, Lower Body, EXT, Extruded Alum	1	RAS
		== EXT Aerial - AC Electrical System - 401.025 04/01/25 ==		**RAS**
60-25-1400	>	|-- Receptacle, 120V, 20 Amp, Straight Blade, Duplex	6	RAS
60-30-2300	>	|-- Receptacle Location, Left Side, Ahead Rear Wheels Compartment, Ea	1	RAS
60-30-2350	>	|-- Receptacle Location, Left Side, Over Wheel Compartment, Ea	1	RAS
60-30-2370	>	|-- Receptacle Location, Left Side, Behind Rear Wheels Compartment, Ea	1	RAS
60-30-2400	>	|-- Receptacle Location, Right Side, Ahead Rear Wheels Compartment, Ea	1	RAS
60-30-5500	>	|-- Receptacle Location, Inside Cab, Crew Area, Ea	2	RAS
60-25-9400	>	Shore Power Inlet, Wiring to Interior Cab Receptacles	1	RAS
60-25-9500	>	Shore Power Inlet, Wiring to Interior Body Receptacles	1	RAS
		== EXT Aerial - Equipment Systems - 401.025 04/01/25 ==		**RAS**

PART NO	S	DESCRIPTION	QTY	ID
		== EXT TA Aerial - Paint/Lettering/Stripe - 401.025 04/01/25 ==		**RAS**
80-22-2106		Body Paint, Aerial, Single Color, EXT	1	RAS
80-32-1350		Compt Finish, DA Sanded, Up to Ten (10) Compts, EXT	1	RAS
80-40-1250		Wheel Finish, By Chassis Manufacturer	1	RAS
80-42-1500		Body Paint, Touch Up, 2 oz. Bottle, One Color	1	RAS
80-44-1500		Undercoating, Body, Tandem Axle	1	RAS
80-50-1400	>	Lettering, 4" Genuine Gold Leaf, Seventy-Five (75) Letters	1	RAS
80-50-3100	>	Lettering, 8-12" Genuine Gold Leaf, Fifty (50) Letters	1	RAS
80-71-1620	>	Stripe, Triple Reflective, 1" x 6" x 1" Large "Hockey Stick" Design	1	RAS
80-75-1100	>	|-- Reflective Stripe Material, Black	1	RAS
80-72-1100	>	Stripe, Reflective 3M, Chevron Pattern Entire Rear, Body Only	1	RAS
80-75-1500		|-- Reflective Stripe Material, Red	1	RAS
80-75-1100	>	|-- Reflective Stripe Material, Black	1	RAS
80-72-1410	>	Stripe, Refl, Diamond Grade, Aerial Outriggers, Both Sides of Ea White	2	RAS
80-72-1810	>	Stripe, Reflect, Diamond Grade, Chevron Pattern Rear Roll Up Door	1	RAS
80-75-1100	>	|-- Reflective Stripe Material, Black	1	RAS
80-75-1500		|-- Reflective Stripe Material, Red	1	RAS
80-72-2010	< >	Chevron, Reflective, Cab Door Interiors	1	RAS
		Custom Cab		
80-75-1500		|-- Reflective Stripe Material, Red	1	RAS
80-75-1100	>	|-- Reflective Stripe Material, Black	1	RAS
80-79-1000		NFPA Standing / Walking Surfaces Yellow Safety Tape (NFPA 1901 15.7.1.6)	1	RAS
80-80-1200		Labels, Aerial Ladder Identification and Safety	1	RAS
		== EXT Aerial - Loose Equipment - 401.025 04/01/25 ==		**RAS**
90-01-5900	>	Wheel Chocks Pair Zico #SAC-44 Folding w/ Mounts	1	RAS
90-47-0100		Miscellaneous Loose Hardware, Bolts-Nuts-Washers-Screws	1	RAS

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OVERALL HEIGHT

An overall height restriction has not been specified for this apparatus.

OVERALL LENGTH

An overall length restriction has not been specified for this apparatus.

OVERALL WIDTH

An overall width restriction has not been specified for this apparatus.

WHEELBASE

A wheelbase restriction has not been specified for this apparatus.

ANGLE OF APPROACH

The angle of approach for the apparatus shall not be less than eight (8) degrees as specified by the current edition of the NFPA 1901 Guideline.

ANGLE OF DEPARTURE

The angle of departure for the apparatus shall not be less than eight (8) degrees as specified by the current edition of the NFPA 1901 Guideline.

NFPA AERIAL/QUINT EQUIPMENT ALLOWANCE

In compliance with the current NFPA guidelines, the apparatus shall be engineered to provide an allow of 2500 pounds of fire department provided loose equipment.

CONTRACT CHANGE NOTICE

The quoted delivery time is based upon our receipt of the specified materials required to produce the apparatus in a timely manner. "Delivery" means the date company is prepared to make physical possession of vehicle available to the customer.

The Company shall not be responsible nor deemed to be in default on account of delays in performance due to causes which are beyond the Company's control which make the Company's performance impracticable, including but not limited to civil wars, insurrections, strikes, riots, fires, storms, floods, other acts of nature, explosions, earthquakes, accidents, any act of government, delays in transportation, inability to obtain necessary labor supplies or manufacturing facilities, allocation regulations or orders affecting materials, equipment, facilities or completed products, failure to obtain any required license or certificates, acts of God or the public

enemy or terrorism, failure of transportation, pandemics, epidemics, quarantine restrictions, failure of vendors (due to causes similar to those within the scope of this clause) to perform their contracts or labor troubles causing cessation, slowdown, or interruption of work.

After execution and acceptance of this Purchase Process, the Buyer may request that the Company incorporate a change to the Products or the Specifications for the Products by delivering a Change Order to the Company; provided, however, that any such Change Order must be in writing and include a description of the proposed change sufficient to permit the Company to evaluate the feasibility of such Change Order. Within seven (7) working days of receipt of a Change Order, the Company will inform the Buyer in writing of the feasibility of the Change Order, the earliest possible implementation date for the Change Order, of any increase or decrease in the Purchase Price resulting from such Change Order, and of any effect on production scheduling or delivery resulting from such Change Order. The Company shall not be liable to the Buyer for any delay in performance or delivery arising from any such Change Order. Purchase Price may be modified only by mutual written agreement of the Parties because of changes to the Apparatus required or requested by the Buyer during the construction process pursuant to Appendix C, Change Order Policy. Any changes in the Purchase Price resulting from changes to the Apparatus required or requested by the Buyer during the construction process shall be stated in the Change Order signed by both parties. Additional Changes: If various state or federal regulatory agencies (e.g., NFPA, DOT, EPA) require changes to the specification and/or the product that result in a cost increase to comply therewith this cost will be added to the Purchase Price to be paid by the customer.

ELECTRONIC STABILITY CONTROL

Electronic stability control shall be supplied on the chassis.

ENGINEERING BLUEPRINTS

ROSENBAUER has submitted "proposal" blueprints which are “representative” of the vehicle being proposed and these have been generated on computer-aided-design (CAD) equipment.

The blueprints are provided as follows:

Sheet No. 1:

- Left side exterior view
- Right side exterior view
- Rear exterior view
- Front view

ROSENBAUER shall provide construction drawings for approval prior to actual construction of the vehicle.

The design of the equipment is in accordance with the best engineering practices. The equipment design and accessory installation shall permit accessibility for use, maintenance and service. All components and

assemblies shall be free of hazardous protrusions, sharp edges, cracks or other elements, which might cause injury to personnel or equipment.

All oil, hydraulic, and air tubing lines and electrical wiring shall be located in protective positions properly attached to the frame or body structure and shall have protective loom or grommets at each point where they pass through structural members, except where a through-frame connector is necessary.

Parts and components will be located or positioned for rapid and simple inspection and recognition of excessive wear or potential failure. Whenever functional layout of operating components determines that physical or visual interference between items cannot be avoided, the item predicted to require the most maintenance shall be located for best accessibility.

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PRE-CONSTRUCTION CONFERENCE (AT MANUFACTURER)

A pre-construction conference shall be conducted at the apparatus manufacturer's factory for five (5) Fire Department Personnel at which time all final designs and equipment mounting locations will be approved, prior to any sheet metal being cut. A factory employed design engineer shall be present during the pre-construction conference to answer any design, and/or engineering questions relating to the layout of the apparatus. Air travel (for distances over 250 miles), meals, and lodging expenses shall be included. BIDDER SHALL INDICATE INTENTION TO PROVIDE THE REQUIRED PRE-CONSTRUCTION CONFERENCE IN THE PROPOSAL PACKET.

INSPECTION TRIPS

Two (2) inspection trips (Mid Point & Final) for five (5) Fire Department personnel shall be made to the facility during the course of construction of the apparatus. Successful bidder shall consult with Fire Department committee chairperson as to the proper timing of the inspection trips. Air travel (for distances over 250 miles), meals, and lodging expenses shall be included. BIDDER SHALL INDICATE INTENTION TO PROVIDE THE REQUIRED INSPECTION TRIP(S) IN THE PROPOSAL PACKET.

BODY WARRANTY

The manufacturer shall provide a two (2) year body warranty. The manufacturer shall supply details of their warranty information with their bid submission.

EXT MODULAR BODY WARRANTY - LIFE-TIME

Rosenbauer America, LLC warrants to the original purchaser that the all-aluminum body, fabricated by Rosenbauer America, LLC, under normal use and with reasonable maintenance, be structurally sound and will retain structural integrity for the life of the vehicle. Warranty coverage is transferable to second owner, if applicable, with proper notification made to Rosenbauer America, LLC.

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This warranty does not apply to the following items that are covered by a separate warranty: paint finish, hardware, moldings, and other accessories attached to this body. In addition, this warranty does not apply to any part or accessory manufactured by others and attached to this body.

ROSENBAUER AMERICA, LLC MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO THE ALUMINUM BODY AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND HEREBY DISCLAIMED.

Rosenbauer America, LLC will replace without charge, repair or make a fair allowance for any defect in material or workmanship demonstrated to its satisfaction to have existed at the time of delivery or not due to misuse, negligence, or accident. If Rosenbauer America, LLC elects to repair this body, the extent of such repair shall be determined solely by Rosenbauer America, LLC, and shall be performed solely at the Rosenbauer America, LLC factory, or at an approved facility. The expense of any transportation to or from such repair facility shall be borne by the purchaser and is not an item covered under this warranty.

Rosenbauer America, LLC will not be liable for damages and under no circumstances will its liability exceed the price for a defective body. The remedies set forth herein are exclusive and in substitution for all other remedies to which the purchaser would otherwise be entitled.

Rosenbauer America, LLC will be given a reasonable opportunity to investigate all claims. The purchaser must commence any action arising out of, based upon or relating to agreement or the breach hereof, within twelve months from the date the cause of the action occurred.

Note: *Surety bond, if required, will cover standard one year warranty period only and will not cover any extended warranties allowed by seller or other component manufacturers.*

ALUMINUM SUBFRAME WARRANTY

Subject to the provisions, limitations and conditions set forth in this warranty, Rosenbauer America, LLC (hereby referred to as "seller"), hereby warrants to each original purchaser that each new aluminum body subframe (exclusive of paint finish and hardware) is structurally sound and free of all structural defects of both material and workmanship and further warrants that it will maintain such structural integrity for the lifetime of the body. Warranty coverage is transferable to second owner, if applicable, with proper notification made to Rosenbauer America, LLC.

This warranty is conditioned upon normal use and reasonable maintenance of such subframe; prompt written notice of all defects to seller or one of the seller's then authorized dealers in the area; no repair or additions there to except by seller or authorized by it; said defect not resulting from misuse, negligence, accident, remount, overloading beyond applicable weight rating by customer or third parties. If any such conditions are not complied with, this warranty shall become void and unenforceable.

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Should repairs become necessary under the terms or the warranty, the extent of that repair shall be determined solely by the seller and shall be performed solely at Rosenbauer America, LLC or a repair facility designated by the seller. The expense of any transportation to or from such repair facility shall be that of the purchaser and is not an item covered by this warranty.

Seller reserves the unrestricted right at any time from time to time to make changes in the design of and/or improvements on its products without thereby imposing any obligation on itself to make corresponding changes or improvements in or on its products theretofore manufactured.

EXCLUSIONS AND LIMITATIONS: THIS MANUFACTURER'S WARRANTY IS PROVIDED IN PLACE OF ANY AND ALL OTHER REPRESENTATIONS OR IMPLIED WARRANTIES. NO PERSON IS AUTHORIZED TO MAKE ANY REPRESENTATIONS OR WARRANTY ON BEHALF OF ROSENBAUER AMERICA, LLC OR ANY OF ITS DISTRIBUTORS OTHER THAN SET FORTH IN THIS MANUFACTURER'S WARRANTY. YOUR RIGHT TO SERVICE AND REPLACEMENT OF PARTS ON THE TERMS EXPRESSLY SET FORTH HERIN ARE YOUR EXCLUSIVE REMEDIES AND NEITHER THE MANUFACTURER NOR ANY OF ITS DISTRIBUTORS SHALL BE LIABLE FOR DAMAGES, WHETHER ORDINARY, INCIDENTAL OR CONSEQUENTIAL.

Note: *Surety bond, if required, will cover standard one year warranty period only and will not cover any extended warranties allowed by seller or other component manufacturers.*

PAINT WARRANTY TEN YEAR

The PPG paint performance guarantee will cover the areas of the vehicle finished with the specified product for a period of TEN (10) years beginning the day the vehicle is delivered to the purchaser.

The full apparatus body, manufactured and painted by Rosenbauer America, LLC, shall be covered for the following paint failures as outlined on the guarantee certificate:

- Peeling or delaminating of the topcoat and/or other layers of paint.
- Cracking or checking.
- Loss of gloss caused by cracking, checking, or hazing.
- Any paint failure caused by defective PPG Fleet Finishes, which are covered by this guarantee.

All guarantee exclusions, limitations, and methods of claims are covered in the full certificate provided to the original purchaser.

Note: Surety bond, if required, will cover standard one year warranty period only and will not cover any extended warranties allowed by seller or other component manufacturers.

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LETTERING WARRANTY

Rosenbauer America, LLC warrants to the original purchaser only, that the lettering and striping, installed by Rosenbauer America, LLC, will remain free from defects for a period of three (3) years under normal use.

Rosenbauer America, LLC will replace without charge, repair or make a fair allowance for any defect in material or workmanship demonstrated to its satisfaction to have existed at the time of delivery or not due to misuse, negligence, or accident. If Rosenbauer America, LLC elects to repair this item, the extent of such repair shall be determined solely by Rosenbauer America, LLC, and shall be performed solely at the Rosenbauer America, LLC factory, or at an approved facility. The expense of any transportation to or from such repair facility shall be borne by the purchaser and is not an item covered under this warranty.

Note: *Surety bond, if required, will cover standard one year warranty period only and will not cover any extended warranties allowed by seller or other component manufacturers.*

PUMP WARRANTY

Waterous warrants, to the original buyer only, that products and parts manufactured by Waterous will be free from defects in material and workmanship under normal use and service for a period of seven (7) years from the date the product is first placed in service, or seven and one half 7-1/2 years from the date of shipment by Waterous, whichever period will be the first to expire; provided the buyer notifies Waterous in writing, of the defect in said product within the warranty period, and said product is found by Waterous to be conforming with the aforesaid warranty.

When required in writing by Waterous, defective products must be promptly returned by the buyer to the Waterous Company at Waterous' plant at South St. Paul, Minnesota, or at such other place as may be specified by Waterous with transportation and other charges prepaid. A returned materials authorization (RMA) is required for all products and parts and may be requested by phone, fax or mail. The previously mentioned warranty excludes any responsibility or liability of Waterous for:

- Damages or defects due to accident, abuse, misuse, abnormal operating conditions, negligence, accidental causes or improper maintenance, or attributable to written specifications or instructions furnished by buyer.
- Defects in products manufactured by others and furnished by Waterous hereunder, it being understood and agreed by the parties that the only warranty provided for such products shall be the warranty provided by the manufacturer thereof which, if assignable, Waterous will assign to the buyer, if requested by buyer.
- Any product or part, altered, modified, serviced or repaired other than by Waterous, without its prior written consent.
- The cost of dismantling, removing, transporting, storing, or insuring the defective product or part and the cost of reinstallation.
- Normal wear items (packing, strainers, filters, light bulbs, anodes, intake screens, etc.)

- This warranty is subject to Waterous' conditions of sale (Waterous Company form number F-2190 as currently in effect all of which are herein incorporated and by this reference made a part hereof.

All other warranties are excluded, whether expressed or implied by operation of law or otherwise, including all implied warranties of merchantability or fitness for purpose. Waterous shall not be liable for consequential or incidental damages directly or indirectly arising or resulting from breach of any of the terms of this limited warranty or from the sale, handling, or use of any other product or part. Waterous' liability hereunder, either for breach of warranty or for negligence, is expressly limited at Waterous' option:

- To the replacement at the agreed point of delivery of any product or part, which upon inspection by Waterous or its duly authorized representative, is found not to conform to the limited warranty set forth above, or
- To the repair of such product or part, or
- To the refund or crediting to buyer of the net sales price of the defective product or part.
- Buyer's remedies contained herein are exclusive of any other remedy otherwise available to the buyer.

STAINLESS STEEL PLUMBING WARRANTY

Subject to the provisions, limitations and conditions set forth in this warranty, Rosenbauer America, LLC (hereby referred to as "seller"), hereby warrants to each original purchaser only that stainless steel plumbing components and ancillary brass fittings used in the construction of the water/foam plumbing system shall be warranted for a period of ten (10) years. This covers structural failures caused by defective design or workmanship, or perforation caused by corrosion, provided the apparatus is used in a normal and reasonable manner. This warranty is extended only to the original purchaser for a period of ten years from the date of the delivery and shall terminate upon the transfer of possession or ownership by original purchaser.

This warranty is conditioned upon normal use and reasonable maintenance of such plumbing; prompt written notice of all defects to seller or one of the seller's then authorized dealers in the area; no repair or additions there to except by seller or authorized by it; said defect not resulting from misuse, negligence, accident, remount, overloading beyond applicable weight rating by customer or third parties. If any such conditions are not complied with, this warranty shall become void and unenforceable.

Should repairs become necessary under the terms or the warranty, the extent of that repair shall be determined solely by the seller and shall be performed solely at Rosenbauer America, LLC or a repair facility designated by the seller. The expense of any transportation to or from such repair facility shall be that of the purchaser and is not an item covered by this warranty.

Seller reserves the unrestricted right at any time from time to time to make changes in the design of and/or improvements on its products without thereby imposing any obligation on itself to make corresponding changes or improvements in or on its products theretofore manufactured.

EXCLUSIONS AND LIMITATIONS: THIS MANUFACTURER'S WARRANTY IS PROVIDED IN PLACE OF ANY AND ALL OTHER REPRESENTATIONS OR IMPLIED WARRANTIES. NO PERSON IS AUTHORIZED TO MAKE ANY REPRESENTATIONS OR WARRANTY ON BEHALF OF ROSENBAUER AMERICA, LLC OR ANY OF ITS DISTRIBUTORS OTHER THAN SET FORTH IN THIS MANUFACTURER'S WARRANTY. YOUR RIGHT TO SERVICE AND REPLACEMENT OF PARTS ON THE TERMS EXPRESSLY SET FORTH HERIN ARE YOUR EXCLUSIVE REMEDIES AND NEITHER THE MANUFACTURER NOR ANY OF ITS DISTRIBUTORS SHALL BE LIABLE FOR DAMAGES, WHETHER ORDINARY, INCIDENTAL OR CONSEQUENTIAL.

WATER TANK WARRANTY

UNITED PLASTIC FABRICATION INC. Warrants each UPF POLY-TANK IIE Booster/Foam tank to be free from manufacturing defects in material and workmanship for the service life of the vehicle (vehicle must be actively used in fire suppression). The UPF POLY-TANK IIE must be installed in accordance with the United Plastic Fabricating installation manual. Every UPF POLY-TANK IIE is thoroughly inspected and tested for leaks before leaving our facility. Should any problems develop with your UPF POLY-TANK IIE booster/foam tank and will not meet performance criteria during the service life of the vehicle, notify UPF in writing or call our TOLL-FREE SERVICE HOT LINE 1-800-USA-POLY. Provide UPF with the serial number and a description of the problem. If the tank problem would render the truck out of service, UPF will dispatch a service technician WITHIN 48 HOURS (2 DAYS) to repair the tank. (This time period is for North America only). If the vehicle can remain in service, UPF will dispatch a service technician within a mutually agreed upon time period.

We will repair, or at our option, replace the tank with a new UPF POLY-Tank IIE. UPF will cover customary and reasonable costs to remove and install the UPF POLY-TANK IIE. This warranty will not cover tanks that have been improperly installed, misused or abused, and the serial number must not have, been altered, defaced or removed. UPF will not cover any unauthorized third-party repairs or alterations. Any of these actions may void the warranty.

THERE ARE NO WARRANTIES, EXPRESSED OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. THERE IS NO EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR A WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. ADDITIONALLY, THIS WARRANTY IS IN LIEU OF ALL OTHER OBLIGATIONS OR LIABILITIES ON THE PART OF UNITED PLASTIC FABRICATION, INC.

This warranty contains the entire warranty. It is the sole warranty and price agreements or representation, whether oral or written, are either merged herein or expressly cancelled. UNITED PLASTIC FABRICATION, INC. Neither assumes, nor authorizes any person supposing to act on its behalf, to change, nor assume for it, any warranty or liability concerning its product.

IN NO EVENT WILL UNITED PLASTIC FABRICATION, INC BE LIABLE FOR AN AMOUNT IN EXCESS OF THE PRESENT RETAIL, PURCHASE PRICE PLUS INSTALLATION AND REMOVAL

COST OF THE BOOSTER TANK, FOR ANY LOSS OR DAMAGE, WHETHER DIRECT OR INDIRECT, INCIDENTAL, CONSEQUENTIAL, OR OTHERWISE ARISING OUT OF FAILURE OF ITS PRODUCT.

This warranty gives you specific legal rights, and you may have other rights, which vary from state to state. Some states do not allow exclusion or limitation of incidental or consequential damage, so the above limitation or exclusion may not apply to you. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you.

IN PROCESS PHOTOS

There shall be a series of Fire Ace photos provided as the apparatus progresses through the production process. There will be a minimum of four (4) photos per interval and a total of six intervals, one (1) upon chassis arrival, four (4) during construction and one (1) upon completion.

ELECTRICAL SYSTEM PRINTED MANUAL (OPTION) AS BUILT

ROSENBAUER shall provide with the vehicle upon delivery, one (1) delivery manual for the electrical system. This manual shall be in a notebook type binder, with reference tabs for each section of the vehicle. A digital copy, with all the printed material in an electronic format (Adobe Acrobat PDF) shall be provided.

Within each section shall be:

- Individual component manufacturer instruction and parts manuals
- Warranty forms for the components
- Warranty instructions and format to be used in compliance with warranty obligations
- Wiring diagrams
- Installation instruction and drawings for major parts
- Visual graphics and electronic photos for the installation of major parts
- Necessary normal routine service forms, publications, and components for the installed electrical components
- Technical publications for training and instruction on major components
- Warning and safety related notices for personnel protection

Cab and chassis manuals on parts, service and maintenance shall be provided.

ROSENBAUER CUSTOM CHASSIS

A Rosenbauer Commander custom fire truck chassis shall be furnished with the following apparatus body and equipment. See the attached specifications for our exact chassis configuration.

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UPPER REAR WARNING LIGHTS

One (1) pair of Whelen Super LED, rotating beacons, P/N L31H*F, shall be installed, one each side on the upper rear of the apparatus body. The unit shall have dimensions of 4" high x 7-9/16" deep.
The driver side warning light shall be a Whelen red LED rotator, model L31H5F with a clear lens.
The officer side warning light shall be a Whelen red LED rotator, model L31H5F with a clear lens.

REAR WARNING LIGHT MOUNTING

The upper rear lights shall be mounted on the upper corners of the apparatus body, one on each side.

UPPER SIDE FRONT WARNING LIGHTS

One (1) pair of Whelen model M9 LED warning lights shall be installed, on the upper portion of the body side, towards the front. The dimensions of the lights shall be 6-1/2" x 10-3/8".
The scene light shall be installed on an aluminum mounting plate, painted to match the body.
The driver side warning light shall be a Whelen Model M9RC red Super-LED with clear lens.
The officer side warning light shall be a Whelen Model M9RC red Super-LED with clear lens.
Each light shall be mounted with a Whelen Model M9FC chrome flange.

UPPER SIDE REAR WARNING LIGHTS

One (1) pair of Whelen model M9 LED warning lights shall be installed, one each side on the upper portion of the body side, towards the rear of the body. The dimensions of the lights shall be 6-1/2" x 10-3/8".
The scene light shall be installed on an aluminum mounting plate, painted to match the body.
The driver side warning light shall be a Whelen Model M9RC red Super-LED with clear lens.
The officer side warning light shall be a Whelen Model M9RC red Super-LED with clear lens.
Each light shall be mounted with a Whelen Model M9FC chrome flange.

LOWER MID-BODY WARNING LIGHTS

Two (2) pair of Whelen model M2 LED warning lights, shall be installed, one each side of the apparatus, mid-body in the rub rail. The dimensions of the lights shall be 4-1/4" x 2-11/16".

The driver side warning light shall be a Whelen Model M2WRC wide-angle red Super-LED with clear lens.
The officer side warning light shall be a Whelen Model M2WRC wide-angle red Super-LED with clear lens.

LOWER REAR SIDE WARNING LIGHTS

One (1) pair of Whelen model M2 LED warning lights shall be installed, one each side of the apparatus, towards the rear of the body, in the rub rail. The dimensions of the lights shall be 4-1/4" x 2-11/16".
The driver side warning light shall be a Whelen Model M2WRC wide-angle red Super-LED with clear lens.

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The officer side warning light shall be a Whelen Model M2WRC wide-angle red Super-LED with clear lens.

LOWER REAR WARNING LIGHTS

One (1) pair of Whelen model M6 LED warning lights shall be installed, one each side on the lower rear of the apparatus body. The dimensions of the lights shall be 4-5/16" x 6-3/4".
The driver side warning light shall be a Whelen Model M6R red Super-LED with color lens.
The officer side warning light shall be a Whelen Model M6R red Super-LED with color lens.

LOW VOLTAGE ELECTRICAL SYSTEM SPECIFICATIONS LCS

Three (3) LCS 2310 modules shall be provided for body functions, 1 will be located forward of the body for pump/generator control, 1 for the right side of the body, and 1 for the left side of the body. These modules will provide inputs and outputs to control the system and CAN communication ports to integrate with the other modules. The modules will be serviceable and programmable through the Rosenbauer Service Tool (RST).

DISPLAY

One (1) LCS displays shall be located on the body, location to be specified in shop notes.

The LCS display shall feature:

- A 10” full color LCD touch screen
- A message bar displaying important messages requiring acknowledgement by the user
- Six (6) push button style controls on either side of the screen for function control
- Eight (8) push button style controls located below the screen for screen navigation
- Two Camera inputs for video feeds – use of video switchers can increase number of cameras
- There shall be an image which indicates any open cab door with a visual display.

The LCS display shall measure approximately 12.375” wide x 8.125” in height.

COMPARTMENT DOOR OPEN SYSTEM ON LCS SCREEN

The cab and body main compartment doors shall be wired to illuminate an open door indicator on the LCS screen located in the cab when the parking brake is released. The indicator shall individually specify the door(s) that is(are) open.

BATTERY SYSTEM

The battery system shall be supplied with the chassis.

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MASTER ELECTRIC SWITCH

A battery disconnect switch shall be located conveniently to the driver of the apparatus. The switch shall disconnect the 12 volt power supply from the battery system.

PUMP ENCLOSURE LIGHTS

Two (2) LED work light shall be provided in the pump enclosure.
Switch on Light Head
The control switch shall be mounted on the light head.

FIRE RESEARCH INVIEW 360™ VIDEO SYSTEM KIT - WITH MONITOR

The chassis supplied 360-degree camera system shall be mounted on the vehicle. All system components that are required to be mounted shall be installed by the apparatus body manufacturer.

OUTRIGGER OVERLAY

The 360 camera system display screen shall include an aerial outrigger position overlay. This feature adds highlighted areas on the 360 camera system display screen to show the viewer where the outriggers will approximately occupy when fully deployed.

INTERCOM SYSTEM

The vehicle shall be equipped with a Sigtronics US45S intercom master station. The system comes standard with connections for up to four (4) positions plus one (1) pump panel position. Two positions plus the pump panel position will have radio transmit capability.

This system can operate with one (1) mobile radio. Connection of this system to the mobile radio in not included, unless specified.

INTERCOM HEADSET

Two (2) SE-8 Under-The-Helmet-Headset shall be provided with the intercom system. The mic is always live for intercom communication. Appropriate for all positions.

Two (2) SE-8 Under-The-Helmet-Headset shall be provided with the intercom system and transmit capability. The mic is always live for intercom communication.

MARKER LIGHTS

LED marker lights shall be installed on the vehicle in conformance to the Department of Transportation requirements.

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MARKER LIGHTS

Two (2) Britax P/N L427.203.L12V flex rubber arm style LED Clearance lights shall be mounted on the rear of the body, one each side. These lights are in addition to the lights required by the DOT.

TAIL LIGHTS

One (1) pair of Whelen M62BTT LED tail/brake lights shall be provided. The rectangular 4"x6" lights shall be red.

TURN SIGNALS

One (1) pair of Whelen M62T LED turn signals with populated sequential chevron arrow shall be provided.

BACKUP LIGHTS

One (1) pair of Whelen Series M62BU LED backup lights shall be installed on the rear of the apparatus body. The dimensions shall be 4" x 6" and the lens color shall be clear.

FOUR LIGHT HOUSING

One (1) pair of chrome plated tail light housings shall be supplied. Each housing shall be designed to hold four (4) Whelen M6 rear lights located at the lower rear corners of the body.

MID BODY LED TURN SIGNALS

One (1) pair of TechNiq S17 amber mid body LED marker / turn signals shall be provided. The location of the turn lights shall be at mid-body near the rear wheel axle.

GROUND LIGHTS

There shall be two (2), one each side, Whelen 3SC0CDCR LED NFPA compliant ground light mounted to the underside of the rub rail of the pump house.

Each light shall include a polycarbonate lens, a housing which is vibration welded and a bulb which shall be shock mounted for extended life.

The ground lighting shall be activated when the parking brake is set.

GROUND LIGHTS

There shall be two (2), one each side, Whelen 3SC0CDCR LED NFPA compliant ground light mounted to the underside of the rub rail, mid body.

Each light shall include a polycarbonate lens, a housing which is vibration welded and a bulb which shall be shock mounted for extended life.

The ground lighting shall be activated when the parking brake is set.

GROUND LIGHTS

There shall be two (2) Whelen 3SC0CDCR LED NFPA compliant ground light mounted to the underside of the rear step.

Each light shall include a polycarbonate lens, a housing which is vibration welded and a bulb which shall be shock mounted for extended life.

The ground lighting shall be activated when the parking brake is set.

GROUND LIGHTS

There shall be two (2) Whelen 3SC0CDCR LED NFPA compliant ground light mounted to the underside of the compartments, behind the rear wheels.

Each light shall include a polycarbonate lens, a housing which is vibration welded and a bulb which shall be shock mounted for extended life.

The ground lighting shall be activated when the parking brake is set.
Light Switch, Ground Lights w/ Park Brake
The ground lights shall automatically activate when the parking brake is applied.

REAR TAILBOARD LIGHTS

One (1) LED step lights with clear lens shall be installed to illuminate the step surfaces at the rear of the apparatus body.
Light Switch, Step/Walkway Lights Wired Park Brake Switch
The step/walkway light switch shall be installed and wired to the parking brake.

DECK LIGHTS - FRONT

The deck lights shall be installed at the front of the hose bed.

DECK LIGHTS

Three (3) TechNiq E10 LED lights shall be provided on the rear of the bulk head to illuminate the hosebed area. The hosebed lights shall be controlled from a switch at the rear of the apparatus.

A deck light switch shall be installed and wired to the parking brake.

LEFT SIDE BODY SCENE LIGHTING

The following scene lighting shall be located on the left side of the body:

SCENE LIGHT

Two (2) FireTech Guardian FT-GSM scene light with black housing shall be provided. The fixture shall be designed to attach to the side of the apparatus and emit light both straight down the side of the body at 0 degrees, and in a perpendicular plane to the mounting sheet on to the scene area near the apparatus. The fixture shall incorporate 4 rows of LEDs, with the center two rows of 6 LEDs using conical acrylic optics mounted in alignment with each other to a portion of the aluminum fixture body pointing the entire optical and electronic assembly downward 10 degrees. A moisture blocking vent valve shall be installed in the body of the fixture to allow for equalization of internal pressure without introduction of moisture into the housing.

The scene light shall be installed on an aluminum mounting plate, painted to match the body.

SCENE LIGHT SWITCHING

Tie into chassis scene light switching.

RIGHT SIDE BODY SCENE LIGHTING

The following scene lighting shall be located on the right side of the body:

SCENE LIGHT

Two (2) FireTech Guardian FT-GSM scene light with black housing shall be provided. The fixture shall be designed to attach to the side of the apparatus and emit light both straight down the side of the body at 0 degrees, and in a perpendicular plane to the mounting sheet on to the scene area near the apparatus. The fixture shall incorporate 4 rows of LEDs, with the center two rows of 6 LEDs using conical acrylic optics mounted in alignment with each other to a portion of the aluminum fixture body pointing the entire optical and electronic assembly downward 10 degrees. A moisture blocking vent valve shall be installed in the body of the fixture to allow for equalization of internal pressure without introduction of moisture into the housing.

The scene light shall be installed on an aluminum mounting plate, painted to match the body.

SCENE LIGHT SWITCHING

Tie into chassis scene light switching.

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REAR BODY SCENE LIGHTING

The following scene lighting shall be located on the rear of the body:

SCENE LIGHT

Two (2) FireTech Guardian Junior FT-GSMJR scene light, with black housing shall be provided. The fixture shall be designed to attach to the side of the apparatus and emit light both straight down the side of the body, and in a perpendicular plane to the mounting sheet on to the scene area near the apparatus. The fixture shall incorporate 3 rows of LEDs, with the center row of 4 LEDs using conical acrylic optics mounted in alignment with each other. The other two rows of LEDs shall use an integrated linear optic to emit light downward asymmetrically. A moisture blocking vent valve shall be installed in the body of the fixture to allow for equalization of internal pressure without introduction of moisture into the housing.

SCENE LIGHT SWITCHING

Tie into chassis scene light switching.
Traffic Arrow Light Mounting, Surface Mount, Rear Body
The traffic arrow light shall be surface mounted at the rear of the apparatus body.

OVERALL DIMENSIONS

The vehicle shall have the following dimensions:

- Chassis wheelbase:
- Cab to axle dimension of chassis:
- Overall length:
- Overall width:
- Overall height

FLUID DATA PLAQUE

A fluid data plaque containing required information shall be provided based on the applicable components for this apparatus, compliant with NFPA Standards:

- Engine oil
- Engine coolant
- Chassis transmission fluid
- Drive axle lubricant
- Power steering fluid
- Pump transmission lubrication fluid
- Other NFPA applicable fluid levels or data as required

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Location shall be in the driver's compartment or on driver's door.

HEIGHT LENGTH & WEIGHT WARNING LABEL

A highly visible label indicating the overall height, length, and weight of the vehicle shall be installed in the cab dash area.

NO RIDE LABEL

A "NO RIDERS" label shall be applied on the vehicle at the rear step area or other applicable areas. The label shall warn personnel that riding in or on these areas, while the vehicle is in motion is prohibited.

TIRE PRESSURE LABEL

A label shall be placed in a visible area that indicates the front and rear tire pressure.

CAB SEATING POSITION LIMITS

A label shall be installed in the cab to indicate seating positions for firefighters. A weight allowance of 250 pounds for each shall be factored into the gross vehicle weight rating of the chassis.

HELMET WARNING TAG

A label shall be installed in the cab, visible from each seating position. The label shall read "CAUTION: DO NOT WEAR HELMET WHILE SEATED." Helmets must be properly stowed while the vehicle is in motion according to the current edition of NFPA 1901.

REAR TOW EYES

There shall be two (2) tow eyes furnished at the rear of the body. The tow eyes shall be accessible above the rear tailboard. The tow eyes shall be constructed of 3/4" plate steel with a 3" I.D. hole, large enough for passing through a tow chain end hook.
The tow plates shall be painted black.

HUB AND LUG NUT COVERS

The apparatus shall have chrome or stainless steel hub and lug nut covers on the front and tandem rear axles.

TIRE PRESSURE INDICATOR

There shall be a Pressure Pro electronic tire pressure monitoring system supplied on the apparatus. The system shall include an in cab monitor display and sensors installed on each tire. The monitor displays pressures as PSI, BAR or kPa, have alerts for low pressures at two (2) levels, 12.5% and 25% drop in pressure and has

variable high pressure alerts. The monitor is equipped with self diagnostics for signal strength and displays temperature readings.

AUTOMATIC LUBRICATION SYSTEM

A Groeneveld Automatic Lubrication System shall be installed to provide automatic grease application, with recommended quantities per system interval cycle.

EXHAUST OUTLET PROVISION

Provisions shall be made for the department to install a Plymovent exhaust outlet adapter for the diesel exhaust extraction system.

REAR MUD FLAPS

A pair of black mud flaps shall be installed behind the rear wheels.

CAB LIFT CONTROL LOCATION

The cab lift controls for tilting the cab shall be recess mounted in the forward wall inside the driver front compartment or behind the pump compartment left side upper access (gauge) panel. Proper operation and warning labels shall be installed adjacent to the controls.

WATEROUS CSUC22 SINGLE STAGE PUMP

A Waterous model CSUC22, single stage centrifugal pump shall be designed to mount on the chassis frame rails and shall be split-drive shaft driven. The pump casing shall be of high-tensile, close-grained gray iron. Pump body shall be horizontally split in two (2) sections, for easy removal of impeller assembly including wear rings and bearings from beneath the pump without disturbing the mounting or piping.

IMPELLER

A matched bronze impeller specifically designed for the fire service will be provided. It will be accurately balanced both mechanically and hydraulically, for vibration-free operation. The impeller shaft shall be stainless steel, heat-treated and precisely ground to size. It shall be supported on both ends by oil or grease lubricated ball bearings.

Replaceable wear rings, bronze, reverse-flow, labyrinth-type shall be provided. Three (3) deep groove ball bearings shall be located outside the pump to give rugged support and proper alignment to the impeller shaft. The bearings shall be oil or grease lubricated. All bearings shall be completely separated from the water being pumped.

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PUMP TRANSMISSION

The housing shall be constructed of high tensile aluminum and be of three (3) piece, horizontally split design. The transmission driveline shafts shall be made from alloy steel forging, hardened and ground to size. The drive and driven sprockets shall be made of steel and shall be carbonized and hardened. The drive chain shall be Morse HV involute form chain. The lubrication system shall be an impeller shaft driven oil pump to deliver oil to an integral spray header, to completely pressure lubricate the drive chain.

PUMP MOUNTING

The pump shall be bolted to steel angles in pump module, using grade 8 bolts.

DRIVELINE

Hollow-tube drivelines and universals shall be properly matched to the engine and transmission output torque ratings.

2000 GPM FIRE PUMP SPECIFICATIONS

The centrifugal type fire pump shall be a Waterous model CSUC22 midship mounted with a rated capacity of 2000 GPM. The pump shall meet NFPA 1901 requirements.

The pump shall be certified to meet the following deliveries:

2000 GPM @ 150 PSI
2000 GPM @ 165 PSI
1400 GPM @ 200 PSI
1000 GPM @ 250 PSI

GATED 6" INTAKE -- LEFT SIDE PUMP PANEL

One (1) 6" gated suction intake shall be installed behind the left side pump panel. Intake shall be gated with an Akron Model 7960, with 9333 controller, electrically operated 6" butterfly valve, controlled at the pump operator's panel. The valve operating mechanism shall prevent movement of the valve from the fully closed position to the fully open position or vice versa, in less than three seconds. The valve control shall have a colored identification label.

A pressure dump/relief valve shall be included that is factory preset at 125 PSI and field adjustable from 75 to 250 PSI. The pressure dump/relief valve shall provide over-pressure protection for the suction hose even when the intake valve is closed. The outlet of the dump/relief valve shall be 2.5" in diameter to allow directing the discharge flow away from the pump operator's position.

An inlet fitting with 6" NST thread shall be provided, complete with a removable strainer screen.

An Innovative Controls ¾" cast bronze quarter-turn drain/bleeder valve shall be installed. The valve shall be complete with a chrome plated bronze ball, reinforced teflon seals, and blow-out proof stem rated to 600 PSI. A chrome plated zinc handle shall be provided on each drain valve complete with a recessed ID label provision. The handle shall lift, to open and push down, to close.
A lightweight aluminum, 30 degree adapter shall be provided. Threads shall be 5" Storz with lugs with manual locks x 6" swivel female NST.
A lightweight aluminum locking 5" Storz cap shall be provided. A chain or cable attachment shall be also supplied.

GATED 6" INTAKE -- RIGHT SIDE PUMP PANEL

A 6" gated suction intake shall be installed behind the right side pump panel. Intake shall be gated with an Akron Model 7960, with 9333 controller, electrically operated 6" butterfly valve, controlled at the pump operator's panel. The valve operating mechanism shall prevent movement of the valve from the fully closed position to the fully open position or vice versa, in less than three seconds. The valve control shall have a colored identification label.

A pressure dump/relief valve shall be included that is factory preset at 125 PSI and field adjustable from 75 to 250 PSI. The pressure dump/relief valve shall provide over-pressure protection for the suction hose even when the intake valve is closed. The outlet of the dump/relief valve shall be 2.5" in diameter to allow directing the discharge flow away from the pump operator's position.

An inlet fitting with 6" NST thread shall be provided, complete with a removable strainer screen.
An Innovative Controls ¾" cast bronze quarter-turn drain/bleeder valve shall be installed. The valve shall be complete with a chrome plated bronze ball, reinforced teflon seals, and blow-out proof stem rated to 600 PSI. A chrome plated zinc handle shall be provided on each drain valve complete with a recessed ID label provision. The handle shall lift, to open and push down, to close.
A lightweight aluminum, 30 degree adapter shall be provided. Threads shall be 5" Storz with lugs with manual locks x 6" swivel female NST.
A lightweight aluminum locking 5" Storz cap shall be provided. A chain or cable attachment shall be also supplied.

FIRE PUMP MECHANICAL SHAFT SEAL

The Waterous fire pump shall be equipped with self-adjusting, maintenance free, 'mechanical shaft seal' which is designed to be functional in the unlikely event of a seal failure.

IMPELLER HUBS

The Waterous fire pump impeller hubs shall be "Flame Plated", impregnated with tungsten carbide to assure maximum pump life and efficiency despite the presence of abrasive particles, such as fine sand, in the water being pumped.

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FIRE PUMP ANODE SYSTEM

One (1) Waterous Fire Pump Anode(s) shall be installed to reduce corrosion. The anode shall be a bolt-in or screw-in type and easily replaceable. The anode is designed to sacrifice the zinc element to galvanic corrosion. Without this protection, galvanic corrosion may damage the iron pump body and fittings.

ELECTRIC/PNEUMATIC PUMP SHIFT

The fire pump shift shall be air-operated incorporating an air cylinder with an electrically actuated pneumatic switch to shift from ROAD to PUMP and back. The fire pump shift control switch and valve shall be mounted in the cab.

The fire pump shift system shall be equipped with a means to prevent unintentional movement of the control device from its set position. The system shall include a nameplate indicating the chassis transmission shift selector position to be used for pumping and located so that it can be easily read from the driver's position.

The system shall include the applicable NFPA standard interlocks, pump shift and OK TO PUMP indicator lights in the cab and pump panel. The fire pump shift system shall be equipped with an interlock system to ensure that the pump drive system components are properly engaged in the pumping mode of operation so the pumping system can be safely operated from the pump operator's position.

If applicable, the secondary braking device shall be automatically disengaged for pumping operations.

TRIDENT PRIMER - MANUAL

The priming pump shall be a Trident Emergency Products compressed air powered, high efficiency, multi-stage, venturi based AirPrime™ System. All wetted metallic parts of the priming system are to be of brass and stainless steel construction. A single panel mounted control will activate the priming pump and open the priming valve to the pump. The priming system shall have a five year warranty.

PRIMER CONTROL

A manual push button shall be provided on the pump operator's panel, for manually priming the main pump.

PRESSURE GOVERNOR AND ENGINE-PUMP MONITORING

A Fire Research InControl series TGA400 pressure governor and monitoring display kit shall be installed. The kit shall include a control module, intake pressure sensor, discharge pressure sensor, and cables. The control module case shall be waterproof and have dimensions not to exceed 5 1/2" high by 10 1/2" wide by 2" deep. The control knob shall be 2" in diameter with no mechanical stops, have a serrated grip, and a red idle push button in the center. It shall not extend more than 1 3/4" from the front of the control module. Inputs for monitored information shall be from a J1939 databus or independent sensors. Outputs for engine control shall be on the J1939 databus or engine specific wiring.

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The following continuous displays shall be provided:

- Pump discharge; shown with four daylight bright LED digits more than 1/2" high
- Pump Intake; shown with four daylight bright LED digits more than 1/2" high
- Pressure / RPM setting; shown on a dot matrix message display
- Pressure and RPM operating mode LEDs
- Throttle ready LED
- Engine RPM; shown with four daylight bright LED digits more than 1/2" high
- Check engine and stop engine warning LEDs
- Oil pressure; shown on a dual color (green/red) LED bar graph display
- Engine coolant temperature; shown on a dual color (green/red) LED bar graph display
- Transmission Temperature: shown on a dual color (green/red) LED bar graph display
- Battery voltage; shown on a dual color (green/red) LED bar graph display.

The dot-matrix message display shall show diagnostic and warning messages as they occur. It shall show monitored apparatus information, stored data, and program options when selected by the operator. All LED intensity shall be automatically adjusted for day and night time operation.

The program shall store the accumulated operating hours for the pump and engine to be displayed with the push of a button.

It shall monitor inputs and support audible and visual warning alarms for the following conditions:

- High Battery Voltage
- Low Battery Voltage (Engine Off)
- Low Battery Voltage (Engine Running)
- High Transmission Temperature
- Low Engine Oil Pressure
- High Engine Coolant Temperature
- Out of Water (visual alarm only)
- No Engine Response (visual alarm only).

The program features shall be accessed via push buttons and a control knob located on the front of the control panel. There shall be a USB port located at the rear of the control module to upload future firmware enhancements.

Inputs to the control panel from the pump discharge and intake pressure sensors shall be electrical. The discharge pressure display shall show pressures from 0 to 600 psi. The intake pressure display shall show pressures from -30 in. Hg to 600 psi.

The governor shall operate in two control modes, pressure and RPM. No discharge pressure or engine RPM variation shall occur when switching between modes. A throttle ready LED shall light when the interlock signal is recognized. The governor shall start in pressure mode and set the engine RPM to idle. In pressure mode the

governor shall automatically regulate the discharge pressure at the level set by the operator. In RPM mode the governor shall maintain the engine RPM at the level set by the operator except in the event of a discharge pressure increase. The governor shall limit a discharge pressure increase in RPM mode to a maximum of 30 psi. Other safety features shall include recognition of no water conditions with an automatic programmed response and a push button to return the engine to idle.

The pressure governor, monitoring and master pressure display shall be programmed to interface with a specific engine.

PUMP ANODES

There shall be sacrificial, zinc anodes in the pump steamer ports which shall protect the pump and piping from electrolysis. These anodes shall also act as screens.

PUMP PLUMBING SYSTEM

The fire pump plumbing system shall be of rigid stainless steel pipe or flexible piping with stainless steel fittings. Mechanical grooved couplings shall be installed to permit flexing of the plumbing system and allow for quick removal of piping or valves for service. Flexible hose couplings shall be threaded stainless steel or mechanical grooved coupling connections.

The fire pump and plumbing shall be hydrostatically tested in compliance to applicable sections of NFPA standards. The test results shall be included in the delivery documentation.

FIRE PUMP MASTER DRAIN

The fire pump plumbing system and fire pump shall be piped to a single push-pull type master pump drain assembly.

ADDITIONAL LOW POINT DRAINS

The plumbing system shall be equipped with additional low point manually operated drain valves to allow total draining of the fire pump plumbing system. These valves shall be accessible from the side of the vehicle and labeled.

PLUMBING SYSTEM

The plumbing system shall be unpainted.

HOSE THREADS

The hose threads shall be National Standard Thread (NST) on all base threads on the apparatus intakes and discharges.

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WATER TANK TO PUMP LINE

A 3" water tank to the rear mounted fire pump line shall be provided with a full flow quarter turn ball valve, 4" piping, and with flex hose and stainless steel hose clamps. The tank to pump line shall be equipped with a check valve to prevent pressurization of the water tank.

The line shall be flow tested during the fire pump testing and shall meet applicable requirements of NFPA standards.
The tank to pump valve shall be controlled at the pump operator's panel.
The valve shall be an Akron 8000 Series three-inch (3") valve with a stainless ball.
An Akron valve equipped with a manually operated pull rod, with quarter-turn locking feature shall be provided on the intake. The handle shall be equipped with a color-coded name plate.

FIRE PUMP TO WATER TANK FILL LINE

A 2" fire pump to water tank refill and pump bypass cooler line shall be provided. The valve shall be a full flow quarter turn ball valve with 2" piping and flex hose to tank. The valve control handle shall have a nameplate located near the valve control.
The valve shall be an Akron 8000 Series two-inch (2") valve with a stainless ball.
An Akron valve equipped with a manually operated pull rod, with quarter-turn locking feature shall be provided on the intake. The handle shall be equipped with a color-coded name plate.

FIRE PUMP SPLIT SHAFT DRIVESHAFTS AND INSTALLATION

The mid-ship split shaft fire pump shall be installed and shall include installation of the fire pump, modification and/or fabrication of new drivelines and all pump-mounting brackets. The drive shaft(s) shall be spin balanced prior to final installation.

UNDERWRITERS LABORATORIES CERTIFICATION

The pump shall undergo an Underwriters Laboratories Incorporated test per applicable sections of NFPA standards, prior to delivery of the completed apparatus.

The UL acceptance certificate shall be furnished with the apparatus on delivery.

FIRE PUMP TEST LABEL

A fire pump performance and rating label shall be installed on the fire apparatus pump panel. The label shall denote levels of pump performance and testing completed at factory. These shall include GPM at net pump pressure, RPM at such level, and other pertinent data as required by applicable NFPA standards. In addition, the pressure control device, tank to pump flow tests, and other required testing shall be completed.

In addition, the entire pump, suction and discharge passages shall be hydrostatically tested to a pressure as required by applicable NFPA standards. The pump shall be fully tested at the pump manufacturer's factory to the performance specifications as outlined by applicable NFPA standards. Pump shall be free from objectionable pulsation and vibration.

If applicable, the fire pump shall be tested and rated as follows:

- 100% of rated capacity at 150 pounds net pressure.
- 70% of rated capacity at 200 pounds net pressure.
- 50% of rated capacity at 250 pounds net pressure.
- 100% or rated capacity at 165 pounds net pressure.

INTAKE RELIEF/DUMP VALVE

An Elkhart Model 40, 2-1/2" intake relief/dump valve preset at 125 psi shall be permanently installed on the suction side of the fire pump. The valve shall have an adjustment range of 75 psi to 250 psi, and shall be designed to automatically self-restore to a non-relieving position when excessive pressure is no longer present.

Discharge side of the intake relief valve shall be plumbed away from the pump operator.

FIRE PUMP COOLING

The fire pump shall be equipped with 3/8" cooling line from the pump to the water tank. This pump cooling re-circulation line shall be controlled at the pump panel by a quarter-turn in-line ball valve with mini-twist control handle. The control handle shall be labeled "PUMP COOLING". There shall be a check valve installed in the pump cooler line to prevent tank water from back flowing into the pump when it is not in use.

CHASSIS ENGINE HEAT EXCHANGER COOLING SYSTEM

The apparatus shall be equipped with a heat exchanger for supplementary chassis engine cooling during fire pump operations. A manually operated quarter-turn in-line ball valve with mini-twist control handle mounted at the pump panel shall direct water from the fire pump to the heat exchanger that is mounted in the engine radiator cooling hose. The system shall provide cooling water from the fire pump to circulate around the engine radiator coolant without mixing or coming in direct contact with the engine coolant. The unit shall be installed by the chassis manufacturer and connected to the plumbing system by the fire apparatus manufacturer.

The control shall be identified with a chrome bezel label assembly labeled, "AUXILIARY ENGINE COOLER".

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LEFT SIDE -- 2-1/2" GATED INTAKE

One (1) 2-1/2" gated suction intake shall be installed on left side pump panel to supply the fire pump from an external water supply. The control valve shall be a quarter turn ball valve and shall have 2-1/2" NST female thread of chrome plated brass.

The intake shall be equipped with a ¾" drain and bleeder valve. A nameplate label and removable screen shall be installed.
An Innovative Controls ¾" cast bronze quarter-turn drain/bleeder valve shall be installed. The valve shall be complete with a chrome plated bronze ball, reinforced teflon seals, and blow-out proof stem rated to 600 PSI. A chrome plated zinc handle shall be provided on each drain valve complete with a recessed ID label provision. The handle shall lift, to open and push down, to close.
A 2-1/2" chrome plated plug shall be provided. The threads shall be NST and the plug shall be equipped rocker lugs and chain or cable securement.
The valve shall be an Akron 8000 Series two and one half-inch (2-1/2") valve with a stainless ball.
The valve shall be equipped with a manually operated, swing-type manual control located adjacent the intake.
The valve shall be equipped with a color-coded name plate.

2" DISCHARGE FRONT RIGHT SIDE BUMPER

A 2" discharge shall be installed at front right side bumper area with brass swivel outlet with 1-1/2" NST male threads. The valve control shall be on pump panel and a nameplate label provided at valve control area.

The plumbing shall be flexible hose with abrasion resistant support mountings. Auxiliary low point drains shall be provided on the discharge line.

Drain/Bleeder, Class 1, Automatic
A Class 1 automatic type 3/4" bleeder valve shall be installed.
The hose connection for the front discharge shall be a swivel type located inside the front bumper hosewell.
The specified valve shall be an Akron 8000 Series two-inch (2") valve with a stainless ball.
For valve actuation, the specified discharge shall be equipped with a side mount valve control. The ergonomically designed 1/4 turn push-pull T-handle shall be chrome plated zinc with recessed labels for color coding and signage. The gear-control rod, double laminated locking clips, and rod housing shall be stainless steel and provide true positive lock that will eliminate valve drift. Bronze and Teflon impregnated stainless steel bushings in both ends of rod housing shall eliminate rod deflection, never need lubrication and ensure consistent long-term operation.

The control assembly shall include a decorative chrome-plated zinc panel mounted bezel with recessed color-coded label.
One (1) 2-1/2" IC discharge pressure gauges (0-400 PSI) shall be provided. The face of the gauge shall be a WHITE dial with black letters. The gauges will be located on the pump instrument panel.

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TWO (2) 1-1/2" CROSSLAY DISCHARGES

Two (2) pre-connect 1-3/4" hose crosslays shall be installed over pump enclosure, with quarter turn 2" diameter ball valves. The outlets shall be a 2" NPT female swivel x 1-1/2" male NST hose threads.

The crosslay hosebeds shall have smooth aluminum sides. The hosebed decking shall be constructed with slots integrated into the hosebed floor. Dividers shall be installed to separate the crosslay beds.

Each hose bed shall provide for a minimum capacity of 200 feet of 1-3/4" diameter double jacket hose with the hose and nozzle provided by the fire department.

An Innovative Controls ¾" cast bronze quarter-turn drain/bleeder valve shall be installed. The valve shall be complete with a chrome plated bronze ball, reinforced teflon seals, and blow-out proof stem rated to 600 PSI. A chrome plated zinc handle shall be provided on each drain valve complete with a recessed ID label provision. The handle shall lift, to open and push down, to close.
The specified valve shall be an Akron 8000 Series two-inch (2") valve with a stainless ball.
For valve actuation, the specified discharge shall be equipped with a side mount valve control. The ergonomically designed 1/4 turn push-pull T-handle shall be chrome plated zinc with recessed labels for color coding and signage. The gear-control rod, double laminated locking clips, and rod housing shall be stainless steel and provide true positive lock that will eliminate valve drift. Bronze and Teflon impregnated stainless steel bushings in both ends of rod housing shall eliminate rod deflection, never need lubrication and ensure consistent long-term operation.

The control assembly shall include a decorative chrome-plated zinc panel mounted bezel with recessed color-coded label.
Two (2) 2-1/2" IC discharge pressure gauges (0-400 PSI) shall be provided. The face of the gauge shall be a WHITE dial with black letters. The gauges will be located on the pump instrument panel.

CROSSLAY HINGED COVER WITH END FLAPS

The crosslay hosebed shall be equipped with a single aluminum diamond plate hinged cover with vinyl end flaps with hook & loop fasteners. The cover shall have rubber bumpers, latching devices, and lift up handle on each end of the cover.

The hosebed cover shall be labeled, "Not a Standing or Walking Surface", per NFPA.
The vinyl cover shall be red in color.

CROSSLAY HOSEBEDS

Crosslay discharges shall be "LOW MOUNTED" above the lower pump panel.

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LEFT SIDE PUMP PANEL -- 2-1/2" DISCHARGE

Two (2) 2-1/2" discharge shall be installed on the left side pump panel area and shall be controlled by a quarter turn ball valve. The discharge shall have 2-1/2" NST male hose threads. A color coded nameplate label shall be provided adjacent the control handle.

Drain/Bleeder, IC Lift-Up, Manual 1/4 Turn
An Innovative Controls ¾" cast bronze quarter-turn drain/bleeder valve shall be installed. The valve shall be complete with a chrome plated bronze ball, reinforced teflon seals, and blow-out proof stem rated to 600 PSI. A chrome plated zinc handle shall be provided on each drain valve complete with a recessed ID label provision. The handle shall lift, to open and push down, to close.
Two (2) chrome plated elbow with rocker lugs shall be provided with 2-1/2" NST swivel female x 2-1/2" NST male hose threads.
Two (2) 2-1/2" NST rocker lug chrome plated vented cap and cable or chain securement shall be provided.
The specified valve shall be an Akron 8000 Series two and one half-inch (2-1/2") valve with a stainless ball. For valve actuation, the specified discharge shall be equipped with a side mount valve control. The ergonomically designed 1/4 turn push-pull T-handle shall be chrome plated zinc with recessed labels for color coding and signage. The gear-control rod, double laminated locking clips, and rod housing shall be stainless steel and provide true positive lock that will eliminate valve drift. Bronze and Teflon impregnated stainless steel bushings in both ends of rod housing shall eliminate rod deflection, never need lubrication and ensure consistent long-term operation.

The control assembly shall include a decorative chrome-plated zinc panel mounted bezel with recessed color-coded label.
Two (2) 2-1/2" IC discharge pressure gauges (0-400 PSI) shall be provided. The face of the gauge shall be a WHITE dial with black letters. The gauges will be located on the pump instrument panel.

RIGHT SIDE PUMP PANEL -- 2-1/2" DISCHARGE

One (1) 2-1/2" discharge shall be installed on the right side pump panel area and shall be controlled by a quarter turn ball valve. The discharge shall have 2-1/2" NST male hose threads. A color coded nameplate label shall be provided adjacent the control handle.

An Innovative Controls ¾" cast bronze quarter-turn drain/bleeder valve shall be installed. The valve shall be complete with a chrome plated bronze ball, reinforced teflon seals, and blow-out proof stem rated to 600 PSI. A chrome plated zinc handle shall be provided on each drain valve complete with a recessed ID label provision. The handle shall lift, to open and push down, to close.
One (1) chrome plated elbow with rocker lugs shall be provided with 2-1/2" NST swivel female x 2-1/2" NST male hose threads.
One (1) 2-1/2" NST rocker lug chrome plated vented cap and cable or chain securement shall be provided.
The specified valve shall be an Akron 8000 Series two and one half-inch (2-1/2") valve with a stainless ball. For valve actuation, the specified discharge shall be equipped with a side mount valve control. The ergonomically designed 1/4 turn push-pull T-handle shall be chrome plated zinc with recessed labels for color

coding and signage. The gear-control rod, double laminated locking clips, and rod housing shall be stainless steel and provide true positive lock that will eliminate valve drift. Bronze and Teflon impregnated stainless steel bushings in both ends of rod housing shall eliminate rod deflection, never need lubrication and ensure consistent long-term operation.

The control assembly shall include a decorative chrome-plated zinc panel mounted bezel with recessed color-coded label.
One (1) 2-1/2" IC discharge pressure gauges (0-400 PSI) shall be provided. The face of the gauge shall be a WHITE dial with black letters. The gauges will be located on the pump instrument panel.

RIGHT SIDE PUMP PANEL -- 3" x 4" DISCHARGE

One (1) 3" discharge shall be installed on the right side pump panel area and shall be controlled by a full flow 3" slow-close quarter turn ball valve. The discharge shall have 4" NST male hose threads. A color coded nameplate label shall be provided adjacent the control handle.

An Innovative Controls ¾" cast bronze quarter-turn drain/bleeder valve shall be installed. The valve shall be complete with a chrome plated bronze ball, reinforced teflon seals, and blow-out proof stem rated to 600 PSI. A chrome plated zinc handle shall be provided on each drain valve complete with a recessed ID label provision. The handle shall lift, to open and push down, to close.
One (1) lightweight aluminum elbow with 30 degree slant shall be provided. Threads shall be 5" Storz with lugs and manual locks x 4" female swivel NST with rocker lugs.
One (1) 5" lightweight aluminum Storz cap with cable or chain securement shall be provided.
The specified valve shall be an Akron 8000 Series three-inch (3") valve with a stainless ball.
One (1) Akron valve equipped with a manually operated pull rod, with quarter-turn locking feature and a manual slow-close device shall be provided on the specified discharge. The handle shall be equipped with color-coded name plate.
One (1) 2-1/2" IC discharge pressure gauges (0-400 PSI) shall be provided. The face of the gauge shall be a WHITE dial with black letters. The gauges will be located on the pump instrument panel.

REAR AERIAL INLET AND DISCHARGE

One (1) 3" fire pump discharge shall be piped to the rear of the apparatus with 4" pipe and controlled with a slow close valve on the pump panel. The 4" rear inlet connection shall provide a dual supply to the aerial device. The rear inlet shall have 4" NST male threads and a 4" NST rocker lug cap with cable or chain securement shall be provided.

There shall be a 1-1/2" drain installed in the rear aerial supply line with control on the rear of the apparatus body.

A color coded nameplate labels shall be provided at rear and on the pump panel control handle.
An Innovative Controls ¾" cast bronze quarter-turn drain/bleeder valve shall be installed. The valve shall be complete with a chrome plated bronze ball, reinforced teflon seals, and blow-out proof stem rated to 600 PSI. A

chrome plated zinc handle shall be provided on each drain valve complete with a recessed ID label provision. The handle shall lift, to open and push down, to close.
One (1) lightweight aluminum adapter shall be provided. Threads shall be: 5" Storz with lugs with manual locks x 4" female swivel NST with rocker lugs.
One (1) 4" NST rocker lug chrome plated vented cap and cable or chain securement shall be provided.
The specified valve shall be an Akron 8000 Series three-inch (3") valve with a stainless ball.
One (1) Akron valve equipped with a manually operated pull rod, with quarter-turn locking feature and a manual slow-close device shall be provided on the specified discharge. The handle shall be equipped with color-coded name plate.
One (1) 2-1/2" IC discharge pressure gauges (0-400 PSI) shall be provided. The face of the gauge shall be a WHITE dial with black letters. The gauges will be located on the pump instrument panel.

SIDE MOUNT PUMP ENCLOSURE

The side mount pump enclosure shall be removable and supported from the chassis frame rails. This enclosure will allow independent flexing of the pump enclosure from the body and allow for quick removal. The support structure shall be constructed of extruded aluminum tubing and angle.

All pump suction and discharge controls are to be mounted on the driver side pump operator's panel so as to permit operation of the pump from a central location. The fire pump, valves and controls shall be accessible for service and maintenance as required by applicable sections of NFPA standards.

The "master" gauges shall be suitably enclosed and mounted on a full pump compartment width "hinged" gauge panel constructed of the same material as the pump operators control panel, allowing access to the backside of all gauges and gauge lines. The individual gauges shall be mounted inline with the control handle or adjacent to the control handle. Panel is to include a stainless steel piano hinge, flush mounted chrome plated trigger latch, and stainless steel cable end stops. Electrical wiring and all gauge lines shall be properly tie wrapped to prevent kinking or cutting of the lines when the panel is opened.

The following controls and equipment as specified in the specifications, shall be provided on the pump panel or within the pump enclosure:

- Primer.
- Pump and plumbing area service lights.
- Pressure control device and throttle control.
- Fire pump and engine instruments.
- Pump intakes and discharge controls.
- Master intake and discharge gauges.
- Tank fill control.
- Tank suction control.
- Water tank level gauge.
- Pump panel lights.

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ENCLOSED DUNNAGE COMPARTMENT OVER PUMP ENCLOSURE

An enclosed dunnage compartment, with a bolt on lid, shall be located on the top of the pump module. The compartment will be constructed as large as space permits with removable slip resistant lid and a removable floor in the base of the compartment.

Hinged doors constructed of material same as the right side pump panel shall be installed in the upper left and right sides of the compartment and shall be provided with a positive latching system for easy opening.

LEFT SIDE RUNNING BOARD -- SIDE MOUNT PANEL

The left side mount pump panel shall be equipped with side running board. The running board will extend along the width of the pump enclosure from the forward end of the body module to behind the chassis cab.

The running board shall be constructed of aluminum tread plate, bolted in place with stainless steel fasteners. The step surfaces shall be in compliance with applicable sections of NFPA requirements.

PUMP SLIDE OUT STEP -- LEFT SIDE

A slide out step assembly shall be installed on the left side pump panel using roller bearing slide tracks. The step shall be fabricated of slip resistant NFPA compliant grating, and shall extend out approximately 14" and lock in both the in and out positions.

RIGHT SIDE RUNNING BOARD -- SIDE MOUNT PANEL

The right side mount pump panel shall be equipped with side running board. The running board will extend along the width of the pump enclosure from the forward end of the body module to behind the chassis cab.

The running board shall be constructed of aluminum tread plate, bolted in place with stainless steel fasteners. The step surfaces shall be in compliance with applicable sections of NFPA requirements.

FLOATING HOSEWELL COMPARTMENT -- RIGHT SIDE

A floating hosewell shall be recessed in the right side running board of the apparatus pump panel. The hosewell shall be constructed of aluminum material and shall be provided with drain holes drilled in each bottom corner with plastic grating on the floor.

The hose and couplings shall be secured in compliance to applicable NFPA standards.

Capacity for the following purchaser supplied hose:

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HOSE WELL SECUREMENT

There shall be two (2) Velcro straps provided for the securement of the hose in the running board hose well.

LEFT SIDE PUMP PANEL ACCESS -- INTERMEDIATE STEP

An auxiliary step constructed of aluminum tread plate or equal surface, compliant with applicable sections of NFPA standards shall be installed. This step shall serve as an intermediate step on the left side of the pump panel.

RIGHT SIDE PUMP PANEL ACCESS -- INTERMEDIATE STEP

An auxiliary step constructed of aluminum tread plate or equal surface, compliant with applicable sections of NFPA standards shall be installed. This step shall serve as an intermediate step on the right side of the pump panel.

GAUGE PANEL -- LEFT SIDE UPPER

A gauge panel shall be provided on the upper left side of the side mount pump enclosure. The gauge panel shall be constructed of 14 gauge #304 brushed stainless steel and hinged. The gauge panel shall be held in the closed position with push button type latches.

PUMP ENCLOSURE ACCESS DOOR -- RIGHT SIDE UPPER

A pump panel access door shall be provided on the upper right side of the side mount pump enclosure. The door shall be constructed of 14 gauge #304 brushed stainless steel with push button type latches.

PUMP PANELS -- SIDE MOUNT

The pump operator's panel, along with the lower left hand and right hand pump panels shall be constructed of 14 gauge #304 brushed stainless steel.

LEFT SIDE PUMP PANEL -- BOLTED

The pump panel installed on the left hand side of the pump enclosure shall be fastened to the pump enclosure with 1/4" stainless steel bolts.

HINGED PUMP PANEL -- RIGHT SIDE

The pump panel installed on the on the right hand side of the pump enclosure shall be hinged with push-button latches.

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PUMP PANEL COLOR TRIM PANELS

Innovative Controls intake and discharge trim rings shall be installed to the apparatus with mounting bolts. These bezel assemblies will be used to identify intake and discharge ports with color and verbiage. These trim rings are designed and manufactured to withstand the specified apparatus service environment and shall be backed by a warranty equal to that of the exterior paint and finish. The specified assemblies feature a chrome-plated panel-mount bezel with durable UV resistant polycarbonate inserts. These UV resistant polycarbonate graphic inserts shall be sub-surface screen printed to eliminate the possibility of wear and protect the inks from fading. All insert labels shall be backed with 3M permanent adhesive (200MP), which meets UL969 and NFPA standards

LABELS

Safety, information, data, and instruction labels for apparatus shall be provided and installed at the operator's instrument panel.

The labels shall include rated capacities, pressure ratings, and engine speeds as determined by the certification tests. The no-load governed speed of the engine, as stated by the engine manufacturer, shall also be included.

The labels shall be provided with all information and be attached to the apparatus prior to delivery.

COLOR CODED PUMP PANEL LABELING AND NAMEPLATES

Discharge and intake valve controls shall be color coded in compliance to guidelines of applicable sections of NFPA standards.

All labels, instruction panels and warnings shall be installed on the pump panel for safe operation of the pumping equipment and controls using Innovative Controls labels and bezel assemblies. These bezel assemblies will be used to identify intake and discharge controls with color and verbiage. The label and bezel assemblies are designed and manufactured to withstand the specified apparatus service environment and shall be backed by a warranty equal to that of the exterior paint and finish. The specified assemblies feature a chrome-plated panel-mount bezel with durable UV resistant polycarbonate inserts. These UV resistant polycarbonate graphic inserts shall be sub-surface screen printed to eliminate the possibility of wear and protect the inks from fading. All insert labels shall be backed with 3M permanent adhesive (200MP), which meets UL969 and NFPA standards

MIDSHIP PUMP PANEL LIGHTS -- LEFT SIDE

Three (3) Techiq E10-W0001-1 or equal LED lights with clear lenses shall be installed under an instrument panel light hood on the left side pump panel. The lights shall be controlled by a switch located on the operator's instrument panel.

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MIDSHIP PUMP PANEL LIGHTS -- RIGHT SIDE

Two (2) Tecniq E10-W0001-1 or equal LED lights with clear lenses shall be installed under an instrument panel light hood on the right side pump panel. The lights shall be controlled by a switch located on the operator's instrument panel.

PUMP PANEL LIGHTS - ACTIVATE WITH PARK BRAKE

The pump panel lights shall automatically activate when the parking brake is applied.

MASTER DISCHARGE AND INTAKE GAUGES

Two (2) 4" diameter IC discharge pressure (0-600 PSI) and intake gauges (30"-0-600 PSI) shall be provided. The face of the gauge shall be a WHITE dial with black letters. The gauges will be located on the pump instrument panel.

The master gauges shall have clear scratch resistant molded crystals with captive O-ring seals shall be used to ensure distortion free viewing and to seal the gauge. The gauges shall be filled with a synthetic mixture to dampen shock and vibration, lubricate the internal mechanisms, prevent lens condensation and ensure proper operation from –40°F to +160°F. Each gauge shall exceed ANSI B40.1 Grade A requirements with an accuracy of +/- 1.5% full scale and include a size appropriate phosphorous bronze bourdon tube with a reinforced lap joint and large tube base to increase the tube life and gauge accuracy. A polished chrome-plated brass bezel shall be provided to prevent corrosion and protect the lens and gauge case.

TEST TAPS

Test taps for pump intake and pump pressure shall be provided on the pump instrument panel and be properly labeled.

WATER TANK GAUGE

A Fire Research TankVision Pro model WLA300-A00 tank indicator kit shall be installed on the pump panel. The kit shall include an electronic indicator module, a pressure sensor, and a 10' sensor cable. The indicator shall show the volume of water in the tank on nine (9) easy to see super bright RGB LEDs. A wide view lens over the LEDs shall provide for a viewing angle of 180 degrees. The indicator case shall be waterproof, manufactured of Polycarbonate/Nylon material, and have a distinctive blue label.

The program features shall be accessed from the front of the indicator module. The program shall support self-diagnostics capabilities, self-calibration, six (6) programmable colored light patterns to display tank volume, adjustable brightness control levels and a datalink to connect remote indicators. Low water warnings shall include flashing LEDs at 1/4 tank, down chasing LEDs when the tank is almost empty, and an output for an audio alarm.

The indicator shall receive an input signal from an electronic pressure sensor. The sensor shall be mounted from the outside of the water tank near the bottom. No probe shall be placed on the interior of the tank. Wiring shall be weather resistant and have automotive type plug-in connectors.

AIR HORN PUSH-BUTTON

A push button with a label shall be installed on the pump instrument panel to operate the air horns.

WATER TANK - 500 GALLON

The apparatus shall be equipped with a five-hundred (500) gallon polypropylene water tank. The tank shall be equipped with a four-inch (4") overflow pipe.

The apparatus shall be equipped with a polypropylene water tank. The tank body and end bulkheads shall be constructed of .75" thick, polypropylene, nitrogen-welded and tested inside and out. Tank construction shall conform to applicable NFPA standards. The tank shall carry a lifetime warranty.

The transverse and longitudinal .375" thick swash partitions shall be interlocked and welded to each other as well as to the walls of the tank. The partitions shall be designed and equipped with vent holes to permit air and liquid movement between compartments.

The .5" thick cover shall be recessed .375" from the top of the side walls. Hold down dowels shall extend through and be welded to both the covers and the transverse partitions, providing rigidity during fast fill operations. Drilled and tapped holes for lifting eyes shall be provided in the top area of the booster tank.

A combination vent/water fill tower shall be provided at front of the tank. The 0.5" thick polypropylene fill and overflow tower shall be equipped with a hinged lid and a removable polypropylene screen. The overflow tube shall be installed in fill tower and piped with a minimum schedule 40 PVC pipe through the tank.

The water tank sump shall be located in the forward area of the tank. There will be a schedule 40 polypropylene tank suction pipe from the front of the tank to the tank sump. The tank drain and clean out shall be located in the bottom of the tank sump. The sump shall have a minimum 3" threaded outlet on the bottom to be used for a combination clean out and drain.

The pump to tank refill connection shall be a sized to mate with tank fill discharge line. A deflector shield inside the tank will also be provided.

The tank shall rest on the body cross members in conjunction with such additional cross members, spaced at a distance that would not allow for more than 530 square inches of unsupported area under the tank floor. In cases where overall height of the tank exceeds 40 inches, cross member spacing must be decreased to allow for not more than 400 square inches of unsupported area.

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The tank must be isolated from the cross members through the use of hard rubber strips with a minimum thickness and width dimension of 1/4” x 1” and a hardness of approximately 60 durometer. The rubber must be installed so it will not become dislodged during normal operation of the vehicle. Additionally, the tank must be supported around the entire bottom outside perimeter and captured both in the front and rear as well as side to side to prevent tank from shifting during vehicle operation.

A picture frame type cradle mount with a minimum of 2" x 2" x 1/4” mild steel, stainless steel, or aluminum angle shall be provided or the use of corner angles having a minimum dimension of 4" x 4" x 1/4” by 6” high are permitted for the purpose of capturing the tank.

Although the tank is designed on a free floating suspension principle, it is required that the tank have adequate vertical hold down restraints to minimize movement during vehicle operation. If proper retention has not been incorporated into the apparatus hose floor structure, an optional mounting restraint system shall be located on top of the tank, half way between the front and the rear on each side of the tank. These stops can be constructed of steel, stainless steel or aluminum angle having minimum dimensions of 3" x 3" x 1/4” and shall be approximately 6” to 12” long. These brackets must incorporate rubber isolating pads with a minimum thickness of 1/4” inch and a hardness of 60 durometer affixed on the underside of the angle. The angle should then be bolted to the body side walls of the vehicle while extending down to rest on the top outside edge of the upper side wall of the tank.

Hose beds floors must be so designed that the floor slat supports extend full width from side wall to side wall and are not permitted to drop off the edge of the tank or in any way come in contact with the individual covers where a puncture could occur. Tank top must be capable of supporting loads up to 200 lbs per sq. foot when evenly distributed. Other equipment such as generators, portable pumps, etc. must not be mounted directly to the tank top unless provisions have been designed into the tank for that purpose. The tank shall be completely removable without disturbing or dismantling the apparatus structure.

Water Tank, Manufacturer, UPF, Poly

The tank construction shall include PolyProSeal™ technology wherein a sealant shall be installed between the plastic components prior to being fusion welded. This sealing method shall provide a liquid barrier, offering leak protection in the event of a weld compromise.

The tank shall be equipped with Polychromatic fill towers. The water fill tower shall be blue in color. The foam tank fill towers, if applicable, shall be yellow for foam A and green for foam B and black for any additional foam fill towers.

The water tank shall be certified for the capacity of the water tank prior to delivery of the apparatus. This capacity shall be recorded on the manufacturer's record of construction and the certification shall be provided to the purchaser when the apparatus is delivered.

The tank shall be manufactured by United Plastic Fabricating (UPF).

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WATER TANK FILL TOWER

A fill tower measuring approximately 10” x 10” square shall be provided on the water tank.
Water Tank Clean-out & Plug, 3"
Tank suction shall be located in a sump assembly located below the bottom of the tank, properly baffled to prevent surging of water. A 3" cleanout plug shall be provided in the bottom of the tank sump.

TANDEM AXLE REAR MOUNT AERIAL/PLATFORM BODY

A tandem axle rear mount aerial/platform body shall be provided and constructed as follows:

CHASSIS REQUIREMENTS FOR AERIAL APPARATUS

The following items shall be included with the chassis to operate the aerial device:

- Truck chassis with a selectable high idle system. High idle to be set at 1,200 rpm
- A red warning light installed in the driving compartment and visible to the driver to indicate if any outrigger is not in the stowed position.
- There shall be a (hot shift) PTO system mounted to the chassis transmission. The PTO assembly shall supply power to the hydraulic pump for all aerial operations. Electrical safety wiring shall be installed that requires the transmission be in neutral, or the fire pump engaged, and the parking brake set before the PTO will operate.
- A PTO engaged indicator light shall be installed in the cab of the apparatus.

BODY BUILDER REQUIREMENTS FOR AERIAL APPARATUS

The following items shall be installed by the body builder for the aerial device:

- Outrigger plates to be installed on heavy aluminum brackets and installed adjacent to each outrigger.
- A preset relief valve capable of protecting the waterway system by relieving pressure through the dumping of water to the environment. Relief valve shall be plumbed to dump excess water below chassis frame. (N/A if the rear connection is an inlet only)
- A 1-1/2-inch minimum drain valve shall be installed at the low point of the waterway inlet system.
- Reflective striping shall be installed on all stabilizers that protrude beyond the body of the apparatus.
- Warning signs for the aerial and outriggers shall be installed to meet the aerial manufacturer recommendations.

The following items are not required with the Smart Aerial application:

- A leveling bubble shall be installed on the rear of the truck, for side to side leveling.
- A leveling bubble shall be installed at the pump operator's panel, for front to rear leveling.

- There shall be a ladder alignment indicator provided on the turntable to indicate when the ladder is aligned with the travel support and may be lowered into it.

OUTRIGGER PAD STORAGE

Two (2) aluminum outrigger pad dual storage brackets capable of holding two (2) outrigger pads each shall be installed. There shall be one dual storage bracket located on each side of the apparatus in an easily accessible location.

SAFETY HARNESS

The aerial apparatus shall be equipped with four (4) Pac Mule AZ241 belts. Safety belts in the following sizes shall be provided by the apparatus body builder:
Size, Safety Harness, Large, 34"-40" Waist
One (1) Large (L) Size Belt (34" - 40").
Size, Safety Harness, X-Large, 42"-50" Waist
Two (2) Extra-Large (XL) Size Belt (42" - 50").
Size, Safety Harness, XX-Large, 52"& Up Waist
One (1) Extra-Extra-Large (XXL) Size Belt (52" and larger).

HEAVY DUTY EXTRUDED ALUMINUM BODY

To prevent possible interaction of dissimilar metals and to reduce the weight of the completed apparatus, the body and ALL STRUCTURAL SUPPORTS shall be constructed entirely of aluminum sheet and aluminum extrusions.

Aluminum extrusions or sheet aluminum of smaller thicknesses or lesser grades to those specified herein are not acceptable.

The aluminum extrusion alloy shall be 6061 with a temper rating of T6, and have a tensile strength of 45,000 PSI and yield strength of 40,000 pounds.

The smooth aluminum sheet material alloy shall be 5052 with a temper rating of H32, and have a tensile strength of 33,000 PSI and yield strength of 28,000 pounds.

The aluminum treadplate alloy shall be 3003 with a temper rating of H22, and have a tensile strength of 30,000 PSI and yield strength of 28,000 pounds.

All extrusions utilized in the body superstructure, substructure and framing shall be 6061-T6 alloy aluminum. All extrusions shall be beveled at each joint and all seams shall be electrically seam welded using #5356 alloy aluminum wire. For strength and rigidity, all aluminum sheets utilized in the apparatus body for structural support shall be a minimum of **3/16"** 5052-H32 alloy aluminum sheet.

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FASTENERS

All fasteners use in the apparatus body shall be attached with Ny-Lok type fasteners.

All aluminum and stainless-steel components shall be attached using stainless-steel fasteners. Zinc or cadmium plated fasteners are not acceptable for use with any aluminum or stainless-steel components on the vehicle.

Compartment door hinges, handrails and running boards shall be attached using a minimum of 1/4" diameter machine bolt fasteners. Fasteners used in nonstructural areas such as door handles, trim moldings, gauge mounting, etc. shall be 3/16" in diameter.

BODY SUPERSTRUCTURE CONSTRUCTION

All vertical and horizontal structural members of the outer apparatus body shall be constructed of no less than 4.00" by 12.00", 6061-T6 aluminum extrusions with a minimum .200" wall thickness fully welded together forming a unitized support system for the body and compartments. In order to provide a complete internal and integrated body super-structure, full height extruded structural members shall be provided at each corner of the apparatus and between each exterior equipment compartment.

EXTERIOR COMPARTMENT CONSTRUCTION

Compartment sides and walls shall be welded to the super-structure. Seams shall be sealed using an engineered grade polyurethane adhesive-sealant.

The compartments shall be designed to provide protected raceways for vertically hinged door fastener retention elements. This requirement shall eliminate the possibility of door hinge hardware from being damaged by or damaging equipment stored in the compartments.

The compartment door openings are to be full width of the compartment with no loss of space. The raceways shall be designed to allow door hardware removal by a single person with simple hand tools.

Full height access panels fastened with stainless steel fasteners shall be provided to access all wiring routed through vertical super-structure extrusions. There shall be no exposed wiring allowed within the compartment interiors.

Compartment flooring shall be constructed of a combination aluminum extrusion and aluminum treadplate welded in place to the extruded aluminum framework creating a double compartment floor for added strength. Due to the high usage and wear and tear caused by removal of equipment, only treadplate aluminum with a raised pattern will be acceptable for compartment flooring. Bolted or welded in smooth raw aluminum or painted aluminum does not meet the intent nor technical requirement of raised pattern treadplate.

The tops of the side exterior compartments shall be constructed of NFPA #1901 Standards compliant non-slip polished aluminum treadplate fastened to the body with stainless steel fasteners. Compartment tops that are welded in place do not meet the serviceability intent of this requirement.

SHELVING TRACKS

The vertical extrusions forming the framework of the side exterior compartmentation shall be designed to incorporate FULLY RECESSED adjustable shelving standards. Shelving tracks shall run full height of **ALL** side exterior equipment compartment.

The intent of this requirement is to allow full use of the available storage areas without the interference of shelving tracks extending into and reducing the interior widths of the compartments which will allow equipment to be stored within the full width of the compartment interiors.

Shelving, when specified, shall have a width of no less than .50" of the overall compartment width.

Adjustable shelving tracks welded or bolted onto interior walls of the compartments do not meet the intent of these specifications.

HOSE BODY CONSTRUCTION

To maintain strength and rigidity, the main hose body shall be completely framed with a minimum of 2.00" X 3.00" 6061-T6 alloy aluminum extrusions with a minimum wall thickness .156" on the three-inch legs and a minimum wall thickness of .188" on the two-inch legs. The hose body extrusions shall be welded to the super-structure framework, becoming an integral portion of a complete unitized support system. Sheet metal or sheet aluminum with double or triple formed breaks, does not meet the technical requirement of the specification in providing a complete hosebody framework and are not acceptable. Sides shall be constructed of aluminum sheet welded to the framework.

ELECTROLYSIS CORROSION CONTROL

The apparatus shall be assembled using ECK or electrolysis corrosion control, on all high corrosion potential areas, such as door latches, door hinges, trim plates, fenderettes, etc. This coating is a high zinc compound that shall act as a sacrificial barrier to prevent electrolysis and corrosion between dissimilar metals. This shall be in addition to any other barrier material that may be used.

All 1/4" diameter and smaller screws and bolts shall be stainless steel.

Due to the expected life of the vehicle, proposals will only be acceptable from manufacturers that include these corrosion features.

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SIDE BODY HEADER

All high side compartment tops shall be NFPA approved non-slip treadplate with the side body header area above the compartment doors a smooth aluminum painted surface.

Lower or rear face compartments, if specified shall be provided with polished aluminum drip rails.

TANDEM WHEEL WELL PANEL AND LINER

For ease of accessibility and maintenance, the tandem wheel well panels shall be constructed for ease of accessibility and maintenance, wheel well panels shall be double break formed painted smooth aluminum plate that is fully gasketed and bolted in place with stainless fasteners. Wheel wells shall be of the removable design so as to provide replacement in the event of damage. There shall be no visible bolt heads, retention nuts or fasteners on the exterior surface of the panel. Wheel well panel shall be isolated from the apparatus body utilizing .25" nylon spacer blocks.

To fully protect the wheel well area from road debris and to aid in cleaning, a full depth (minimum of 24.00") radius wheel well liner constructed of exterior grade .25" black polyethylene sheet shall be provided. For ease of removal, the liner shall be held in place via means of a self-tension retention system. Due to possible corrosion and contamination by road debris in the wheel well area, mechanical fasteners shall not be used to secure the wheel well liner.

FENDERETTES

The rear wheel wells shall be radius cut for a streamlined appearance. A polished type 304 stainless steel radius fenderette shall be furnished at each rear wheel well opening, held in place with concealed stainless-steel fasteners with nylon isolators to prevent contact of the fastener with the wheel well housing panel. A black rubber gasket shall be installed between the stainless fenderette and the apparatus body sides. Silicone caulking does not meet the intent nor the technical requirement of a solid gasket material in this area and is not acceptable.

HEAVY DUTY EXTRUDED ALUMINUM BODY SUB-STRUCTURE

A minimum of four (4) 4.00" high by 2.50" wide tubular "I" beam horizontal crosstubes with a .375" vertical wall thickness shall be provided on each side of the body. The horizontal "I" beams shall run from within 1.00" of the aerial torque box outward and shall be routed through and fully welded to the vertical and horizontal structural extrusions forming the body super-structure.

The exterior side equipment compartments shall be bolted to no less than three (3) horizontal formed steel channels welded directly to the aerial torque box. The channels shall be no less than 3.00" X 10.75" X .25" with a return lip of no less than 3.00" and shall be formed to "receive" the horizontal aluminum extruded I-beams incorporated into the body sub-structure system. The horizontal "I" beam shall be bolted to the

horizontal formed steel channels. All interface areas between the steel channels and aluminum extruded members shall be isolated by an elastomeric isolator.

OUTRIGGER BODY PANELS

Body panels shall be installed at each outrigger to provide a clean, finished look to the outrigger cavity. Outrigger panels shall be double break formed with a painted smooth aluminum plate that is fully gasketed and bolted in place with stainless fasteners.

OUTRIGGER COVERS

Aluminum covers, painted to match the body, shall be attached to the extending outrigger assemblies.

OUTRIGGER LIGHT ACTIVATION

LCS shall automatically activate the ourtrigger placement lights when the outrigger hydraulic system is active.

HOSEBED STORAGE AREA

The apparatus hosebody is to be properly reinforced without the use of angles or structural shapes, and free from all projections which might injure the fire hose.

The main hosebody of the aerial unit shall run along the right side of the apparatus body, above the lower body compartments. The approximate width of the hosebed shall be from the side wall of the aerial torque box to the side sheet of the apparatus body.

HOSEBED LOADING ACCESS DOOR

The side loading hosebed shall be supplied with a hinged flush double pan style door. The door shall be approximately 24" high x approximately 36" wide, depending on the hosebed structural configuration. There shall be no visible painted door edge surfaces when the door is in the closed position.

Door shall be fabricated of a minimum of 1/8" smooth aluminum. Full panel inner compartment door liners shall be provided and constructed from smooth aluminum. Exterior door panels shall be smooth with no welds visible on the exterior skin.

All compartment door hinges shall be full length piano type constructed of a minimum 14-gauge type 304 stainless steel with 1/4" stainless steel hinge pin with dual directional bolt holes for ease of adjustment. The door hinges shall not be visible from the outside of the body when the doors are in the closed position.

Striker plates shall be a minim of 12-gauge stainless steel and posts shall be positioned so they do not interfere with the clear door openings by pointing down. Door retention studs or posts on striker plates that extend into

the clear door frame opening do not meet the technical intent of these specifications and are not acceptable. Door hinges and striker plates shall be attached with minimum 5/16" stainless steel nuts and bolts.

When specified, horizontally hinged lift-up doors shall be equipped with heavy-duty gas filled dampeners to hold the door in the open position. All other hinged doors shall be equipped with spring loaded hold open devices specifically designed for use on vertically hinged doors. Door holders shall be bolted in position. The door ajar switches shall be fully enclosed within structural members and shall not extend into the clear door opening.

EXTERIOR DOOR HANDLES

All hinged compartment doors shall be furnished with a large Hanson Model #102 solid STAINLESS STEEL spring loaded D-handle with slam type latches. D-handles shall have the large style "bent" D-ring for ease of grabbing the handle even when wearing mitts or gloves. Chrome plated standard steel D-handles are not acceptable.

Door handles shall be held in place with four stainless steel stud fasteners secured on the interior of the door skin to eliminate bolt heads on the exterior latch ring. To prevent possible interaction between dissimilar metals, the studs shall not break any painted surface. A non-moisture absorbing gasket shall be installed between the door latch and the door skin panel.

Handles which are held in place with visible fasteners, two-sided tape or glue do not meet the intent of this requirement.

ALUMINUM HOSEBED GRATING

The hose bed compartment deck shall be constructed entirely from maintenance-free, extruded aluminum slats. The slats shall have an anodized, radiused ribbed top surface. The slats shall be of widths approximately 3/4" high x 6" wide, space 1/2" apart and shall be welded into a one-piece grid system to prevent the accumulation of water and allow ventilation to assist in drying hose.
The hose bed shall be designed to have storage capacity for 2.5” Double Jacket fire hose.
50-ft Hose Lengths
Capacity of ten (10) fifty-foot lengths of hose shall be supplied.
The hose bed shall be designed to have storage capacity for 5” LDH Single Jacket rubber fire.
Capacity for ten (10) one-hundred-foot lengths of hose.

ALUMINUM HOSEBED DIVIDER

One (1) adjustable hosebed divider constructed of .250" aluminum shall be installed on the apparatus.

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HOSBED COVER

The hosebed cover shall be secured utilizing a Velcro fastening system at the front and sides of the hosebed body.
The vinyl cover shall be red in color.

BODY WIDTH

The overall width of the aerial body shall not exceed 100". The overall width across the rub rails shall be 101".

COMPARTMENT DEPTH

The left side compartment above the front outrigger shall have an interior usable depth of not less than 24" with the specified doors in the closed position.

The left side compartment ahead of the tandem wheels shall have an interior usable depth of not less than 24" with the specified doors in the closed position.

The left side compartment above the tandem's front wheels shall have an interior usable depth of not less than 24" with the specified doors in the closed position.

The left side compartment above the tandem's rear wheels shall have an interior usable depth of not less than 22" with the specified doors in the closed position.

The left side compartment behind the tandem wheels shall have an interior usable depth of 22" with the specified doors in the closed position.

The left side compartment above the rear outrigger shall have an interior usable depth of not less than 22" with the specified doors in the closed position.

If specified, the left side compartment behind the rear outrigger shall have an interior usable depth of not less than 22" with the specified doors in the closed position.

The right side compartment ahead of the tandem wheels shall have an interior usable depth of not less than 24" with the specified doors in the closed position.

The right side compartment behind the tandem wheels shall have an interior usable depth of not less than 22" with the specified doors in the closed position.

If specified, the right side compartment behind the rear outrigger shall have an interior usable depth of not less than 22" with the specified doors in the closed position.

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HINGED COMPARTMENT DOORS

Any compartment calling for a hinged door shall be supplied with a flush style door, so that all hinged compartment doors shall be of the overlapping style so that the entire door fits flush against the apparatus body sides. Doors shall be designed, in the closed position, to have the painted edges protected from damage on the tops by forming the treadplate compartment tops into an extended drip edge, on the bottoms by the rub rail and on the front and rear by extending the front and rear vertical scuff plates into protective edges. There shall be no visible painted door edge surfaces when the doors are in the closed position. Doors shall not extend into the compartments thereby reducing the usable compartment depths.

Doors shall be a minimum 2" thick, fabricated of a minimum of 1/8" smooth aluminum. Full panel inner compartment door liners shall be provided and constructed from smooth aluminum. Exterior door panels shall be smooth with no welds visible on the exterior skin. Double door compartments shall not require nor be equipped with a secondary latch to hold the same in position.

All compartment door hinges shall be full length piano type constructed of a minimum 14-gauge type 304 stainless steel with 1/4" stainless steel hinge pin with dual directional bolt holes for ease of adjustment. Door hinges shall be fully recessed and protected from the environment by the door gasket. The door hinges shall not be visible from the outside of the body when the doors are in the closed position.

Striker plates shall be a minimum of 12-gauge stainless steel and posts shall be positioned so they do not interfere with the clear door openings by pointing down. Door retention studs or posts on striker plates that extend into the clear door frame opening do not meet the technical intent of these specifications and are not acceptable. Door hinges and striker plates shall be attached with minimum 5/16" stainless steel nuts and bolts.

On vertically hinged double door compartments, the secondary door shall have a nylon door holders, top and bottom of the interior of the door to hold the door in place when closed. When specified, horizontally hinged lift-up doors shall be equipped with heavy-duty gas filled dampeners to hold the doors in the open position. All other hinged doors shall be equipped with spring loaded hold open devices specifically designed for use on vertically hinged doors. Door holders shall be bolted in position. The door ajar switches shall be fully enclosed within structural members and shall not extend into the clear door opening.

All hinged compartment doors shall be provided with hollow core weather stripping to provide a weather tight seal at the door opening and to prevent road spray and debris from entering the compartment.

ROLL-UP COMPARTMENT DOORS

Any compartment calling out a roll up door shall be supplied with a door fabricated from aluminum. Exterior side equipment compartments so specified shall be equipped with roll-up shutter doors to be installed as specified herein. The door shall be located above and outside of the interior of the compartments thereby protecting the door in the raised position from possible damage by the shifting of equipment.

The door roll mechanism shall also be protected from possible damage should equipment shift while the vehicle is in transit with the door in the closed position.

When the door is raised, the location of the drum assembly shall not allow water drainage from the doors into any portion of the interior of the compartment, thereby preventing the accumulation of water, snow, or ice from damaging the equipment located therein.

The roll-up door drum assembly shall be fully enclosed and protected from the elements. Provisions shall be made on each end and each side of the apparatus for moisture to self-drain from the raised doors to below the apparatus body using integral drainage ports.

To provide access for repairs and adjustments without removing equipment from the compartments, the door roll assemblies shall be serviced from above the compartment. There shall be no need to remove any equipment nor to open the door to provide service to the same. Should a door be prohibited from being raised because of damage to or a defect in the roller assembly, service must be capable of being performed without the cutting, damaging or destroying of the door shutters to gain access. Access to the door mechanism shall be provided through the removable door roller assembly access panel that requires only the use of common hand tools to remove.

Pendent plates supporting the door roll assembly shall be bolted in place, adjustable and capable of being removed with common hand tools. Pendent plates and supports that are welded in place do not meet the maintenance and service criteria of these specifications.

In order to provide unlimited access to stored equipment and to help prevent damage to the tracks by removing equipment, the tracks shall not protrude into any portion of the door frame opening. The width of the door frame opening shall be the actual useable width available to store and remove equipment. No Exception.

Door openings shall match the compartment sizes as specified.

The roll up door(s) shall be fabricated from aluminum extrusions and be manufactured and assembled in the United States.

The door slats shall be double-wall extrusions with dimensions of 1.366" high x .315" thick. The exterior surface shall be flat and the interior surface concave to deflect loose equipment to prevent the door from jamming. Each slat shall have interlocking end shoes to prevent the slat from moving side to side resulting in binding of the door. Each slat shall be separated by a co-extruded PVC and rubber inner seal to prevent metal to metal contact and minimize dirt and moisture from entering the compartment. The inner seal shall not be visible from the exterior to maintain a clean appearance of door. The slats shall have interlocking joints with a folding locking flange to provide security and prevent penetration by sharp objects.

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The track shall be a one (1) piece aluminum assembly that has an attaching flange and finishing flange incorporated into the design that facilitates installation and provides a finished look to the door without additional trim or caulking. A low-profile side seal shall be utilized to maximize usable compartment space.

A drip rail designed to prevent water from dripping into the compartment shall be provided. The drip rail shall have a built in replaceable non-contacting seal to eliminate scratching of the surface of the door.

Bottom rail extrusion must have smooth back to prevent loose equipment from jamming the door and have "V" shaped double seal to prevent water and debris from entering the compartment. A two (2) inch wide finger pull shall be integrated into the bottom rail extrusion for easy one hand opening and closing. The door latch system shall be a full width one (1) piece lift bar that enables the user to operate with one hand.

A magnetic door ajar system shall be integrated in the lift bar handle and the lift bar handle retainer block to signal an open door.

The roll mechanism shall have a clip system that connects the curtain slats to the operator drum to allow for easy tension adjustment without tools. A four (4) inch diameter counterbalanced operator drum to shall be incorporated to assist in lifting the door.

All compartment door openings shall match the compartment sizes.

EZ-PULL DOWN STRAPS

Six (6) elastic nylon straps shall be provided and installed on each roll up door. The straps shall be secured to the side wall of the interior compartment in a way that will allow the EZ-Pull strap to contract automatically and tuck inside the compartment when closed to prevent the strap from dangling and hindering closing of the door. When the door is the open position, the straps shall be installed so that they are fully extended as to not interfere with removing items from the compartment. For the ease of locating, the straps shall be bright orange in color.

EXTERIOR DOOR HANDLES

All hinged compartment doors shall be furnished with a large Hanson Model #102 solid STAINLESS STEEL spring loaded D-handle with slam type latches. D-handles shall have the large style "bent" D-ring for ease of grabbing the handle even when wearing mitts or gloves. Chrome plated standard steel D-handles are not acceptable.

Door handles shall be held in place with four stainless steel stud fasteners secured on the interior of the door skin to eliminate bolt heads on the exterior latch ring. To prevent possible interaction between dissimilar metals, the studs shall not break any painted surface. A non-moisture absorbing gasket shall be installed between the door latch and the door skin panel.

Handles which are held in place with visible fasteners, two-sided tape or glue do not meet the intent of this requirement.

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LEFT FRONT COMPARTMENT - ABOVE FRONT OUTRIGGER

There shall be one (1) compartment located above the front outrigger. The compartment shall be equipped with a natural finish roll up door.

L1 - 24" Wide Compartment

A removable louvered vent shall be provided in the compartment.

COMPARTMENT LIGHTING

The compartment shall be provided with Rosenbauer InVisiLight LED Compartment lighting. The lighting shall be installed in the adjustable shelving track which shall be recessed into the side wall of the compartment. The lighting shall provide a continuous illumination from the compartment bottom to top and side to side while still allowing for full adjustment of any compartment provision (shelf/tray/etc.). To prevent damage, lights that protrude into the compartment in any fashion shall be deemed unacceptable.

The lights shall be installed in the shelving tracks; two (2) lights 17" in length shall be installed, one on each side of the compartment. The lights shall produce approximately 17 lumens per inch of lighting.

The lights shall be provided with a 5-Year warranty.
The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

LEFT FRONT COMPARTMENT - AHEAD OF REAR WHEELS

There shall be one (1) full height compartment located ahead of the rear wheels. The compartment shall be equipped with a full height single natural finish roll up door.

L2 - 34" Wide Compartment

Vents, Compts, Louvers (Ea)
A removable louvered vent shall be provided in the compartment.

ADJUSTABLE SHELVES

Two (2) compartment shelves shall be provided and constructed of .190" smooth aluminum and are to have formed upward breaks on front and rear for added strength. Shelve(s) shall be fully adjustable within the compartments. Lighter gauge shelf materials are not acceptable.

Shelves shall extend full width of the compartments, within .50" of the overall width, and adjust up and down in the integral shelf tracks.

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500# ROLLOUT TRAY

One (1) rollout equipment tray shall be installed in a standard depth compartment. The 500# rated tracks shall have roller bearings. The tray shall be constructed of .188" smooth aluminum plate, fabricated with four 3" sides.

The unit shall roll fully out of the compartment, with a gas operator to hold tray in both the "in and out" positions.

REFLECTIVE STRIPE

The outer edge and both sides of the shelf, slide-out tray, pull-out tool board, swing-out tool board, or pull-out and down tray shall have alternating red and white reflective DOT striping applied for safety.

PAC TRAC ON BACK WALL OF COMPARTMENT

There shall be three (3) lengths of 7000 Series Pac Trac provided in the upper compartment area on the back wall for the purpose of mounting equipment. PacTrac 3-Section Z-Mount brackets shall be used for in the installation.

Equipment brackets to be attached to the Pac Trac shall be provided by the purchaser or as listed elsewhere in these specifications.

COMPARTMENT LIGHTING

The compartment shall be provided with Rosenbauer InVisiLight LED Compartment lighting. The lighting shall be installed in the adjustable shelving track which shall be recessed into the side wall of the compartment. The lighting shall provide a continuous illumination from the compartment bottom to top and side to side while still allowing for full adjustment of any compartment provision (shelf/tray/etc.). To prevent damage, lights that protrude into the compartment in any fashion shall be deemed unacceptable.

The lights shall be installed in the shelving tracks; two (2) lights 45" in length shall be installed, one on each side of the compartment. The lights shall produce approximately 17 lumens per inch of lighting.

The lights shall be provided with a 5-Year warranty.
The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

LEFT UPPER COMPARTMENT - ABOVE FRONT TANDEM

There shall be one (1) compartment above the tandem's front wheels. The compartment shall be equipped with a single natural finish roll up door.

The compartment shall be equipped with the following:

L3 - 67" Wide Compartment

A removable louvered vent shall be provided in the compartment.

PULL-OUT AND DROP-DOWN

One (1) 250-pound capacity rollout and drop-down tray shall be installed in the specified compartment. The tray shall be constructed of aluminum with 3" edges on each side. The tray shall be equipped with roller bearing wheels.

The track assembly allows the tray to roll out of compartment while dropping downward at approximately a 30-degree angle.

REFLECTIVE STRIPE

The outer edge and both sides of the shelf, slide-out tray, pull-out tool board, swing-out tool board, or pull-out and down tray shall have alternating red and white reflective DOT striping applied for safety.

COMPARTMENT LIGHTING

The compartment shall be provided with Rosenbauer InVisiLight LED Compartment lighting. The lighting shall be installed in the adjustable shelving track which shall be recessed into the side wall of the compartment. The lighting shall provide a continuous illumination from the compartment bottom to top and side to side while still allowing for full adjustment of any compartment provision (shelf/tray/etc.). To prevent damage, lights that protrude into the compartment in any fashion shall be deemed unacceptable.

The lights shall be installed in the shelving tracks; two (2) lights 17" in length shall be installed, one on each side of the compartment. The lights shall produce approximately 17 lumens per inch of lighting.

The lights shall be provided with a 5-Year warranty.
An additional InVisiLight 62" in length shall be installed in the recessed track in the ceiling.
The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

LEFT UPPER COMPARTMENT - ABOVE REAR TANDEM

There shall be one (1) upper compartment above the above the tandem's rear wheels and the low compartment behind the tandem's rear wheels. The compartment shall be equipped with a single hinged lift up door.

The compartment shall be equipped with the following:

L4 - 49" Wide Compartment

A removable louvered vent shall be provided in the compartment.

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PULL-OUT AND DROP-DOWN

One (1) 250-pound capacity rollout and drop-down tray shall be installed in the specified compartment. The tray shall be constructed of aluminum with 3" edges on each side. The tray shall be equipped with roller bearing wheels.

The track assembly allows the tray to roll out of compartment while dropping downward at approximately a 30-degree angle.

REFLECTIVE STRIPE

The outer edge and both sides of the shelf, slide-out tray, pull-out tool board, swing-out tool board, or pull-out and down tray shall have alternating red and white reflective DOT striping applied for safety.

COMPARTMENT LIGHTS

Two (2) 18" long OnScene Solutions Access LED lights shall be installed, one on each side of the door opening. The lights shall contain 12 LEDs per light producing approximately 60 lumens (six LEDs and 30 lumens every 9"). The light stick shall be rated at 100,000 hours of service and shall be provided with a 5 year free replacement warranty. The light shall have a 5/8" LEXAN™ polycarbonate tube enclosure for severe duty applications.

The light stick shall be waterproof and be connectible via a jumper wire to add additional lights in series if required.
The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

LEFT FRONT COMPARTMENT - ABOVE FRONT OUTRIGGER

There shall be one (1) compartment located above the rear outrigger. The compartment shall be equipped with a single horizontal hinged lift up door.

The compartment shall be equipped with the following:

L6 - 24" Wide Compartment

A removable louvered vent shall be provided in the compartment.

ADJUSTABLE SHELF

One (1) compartment shelf shall be provided and constructed of .190" smooth aluminum and are to have formed upward breaks on front and rear for added strength. Shelf shall be fully adjustable within the compartments. Lighter gauge shelf materials are not acceptable.

Shelf shall extend full width of the compartments, within .50" of the overall width, and adjust up and down in the integral shelf tracks.

COMPARTMENT LIGHTS

Two (2) 18" long OnScene Solutions Access LED lights shall be installed, one on each side of the door opening. The lights shall contain 12 LEDs per light producing approximately 60 lumens (six LEDs and 30 lumens every 9"). The light stick shall be rated at 100,000 hours of service and shall be provided with a 5 year free replacement warranty. The light shall have a 5/8" LEXAN™ polycarbonate tube enclosure for severe duty applications.

The light stick shall be waterproof and be connectible via a jumper wire to add additional lights in series if required.
The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

LEFT REAR COMPARTMENT - BEHIND REAR WHEELS

There shall be one (1) full height compartment located behind the rear wheels. The compartment shall be equipped with a full height double hinged doors.

The compartment shall be equipped with the following:

L5 - 27" Wide Compartment

A removable louvered vent shall be provided in the compartment.

ADJUSTABLE SHELVES

Two (2) compartment shelves shall be provided and constructed of .190" smooth aluminum and are to have formed upward breaks on front and rear for added strength. Shelves shall be fully adjustable within the compartments. Lighter gauge shelf materials are not acceptable.

Shelves shall extend full width of the compartments, within .50" of the overall width, and adjust up and down in the integral shelf tracks.

500# ROLLOUT TRAY

One (1) rollout equipment tray shall be installed in a standard depth compartment. The 500# rated tracks shall have roller bearings. The tray shall be constructed of .188" smooth aluminum plate, fabricated with four 3" sides.

The unit shall roll fully out of the compartment, with a gas operator to hold tray in both the "in and out" positions.

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REFLECTIVE STRIPE

The outer edge and both sides of the shelf, slide-out tray, pull-out tool board, swing-out tool board, or pull-out and down tray shall have alternating red and white reflective DOT striping applied for safety.

COMPARTMENT LIGHTS

Two (2) 48" long OnScene Solutions Access LED lights shall be installed, one on each side of the door opening. The lights shall contain 30 LEDs per light producing approximately 150 lumens (six LEDs and 30 lumens every 9"). The light stick shall be rated at 100,000 hours of service and shall be provided with a 5 year free replacement warranty. The light shall have a 5/8" LEXAN™ polycarbonate tube enclosure for severe duty applications.

The light stick shall be waterproof and be connectible via a jumper wire to add additional lights in series if required.
The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

LEFT TURNTABLE ACCESS - BEHIND REAR OUTRIGGER

There shall be one (1) left side turntable access cavity, 25" wide, located behind the rear outrigger. The floor and sides of the turntable access cavity shall be finished with polished aluminum treadplate.

ACCESS LADDER

There shall be a swing out and down access ladder supplied and installed on the left side apparatus, for accessing the aerial turntable. It shall be of an all aluminum design and shall incorporate treads sixteen (16") wide spaced no more than eighteen (18") inches apart. The overall width shall be approximately seventeen (17") inches. The ground to the first step dimension, on level ground, shall be no more than eighteen (18") inches. When in the deployed position the ladder shall have an angle of approximately 75-degrees to facilitate ascending and descending the ladder. The ladder shall be retained in the stowed and deployed position by two (2) gas cylinders and shall not require the use of latches to hold it in position. A weatherproof switch shall sense the down position of the step and alert the driver should the vehicle emergency brake be released. This switch will be wired into the open-door warning system.

HANDRAIL EZ-CLIMB LADDER

Two (2) extruded aluminum non-slip handrails with offset brackets shall be installed on the EZ-Climb access ladder, one (1) on each side.

STEP LIGHT

Two (2) LED step light(s) with clear lens shall be installed.

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RIGHT FRONT COMPARTMENT - ABOVE FRONT OUTRIGGER

There shall be one (1) compartment located above the front outrigger. The compartment shall be equipped with a natural finish roll up door.

R1 - 24" Wide Compartment

A removable louvered vent shall be provided in the compartment.

COMPARTMENT LIGHTING

The compartment shall be provided with Rosenbauer InVisiLight LED Compartment lighting. The lighting shall be installed in the adjustable shelving track which shall be recessed into the side wall of the compartment. The lighting shall provide a continuous illumination from the compartment bottom to top and side to side while still allowing for full adjustment of any compartment provision (shelf/tray/etc.). To prevent damage, lights that protrude into the compartment in any fashion shall be deemed unacceptable.

The lights shall be installed in the shelving tracks; two (2) lights 17" in length shall be installed, one on each side of the compartment. The lights shall produce approximately 17 lumens per inch of lighting.

The lights shall be provided with a 5-Year warranty.
The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

RIGHT FRONT COMPARTMENT - AHEAD OF REAR WHEELS

There shall be one (1) full height compartment located ahead of the rear wheels. The compartment shall be equipped with a full height single natural finish roll up door.

The compartment shall be equipped with the following:

R2 - 34" Wide Compartment

A removable louvered vent shall be provided in the compartment.

ADJUSTABLE SHELVES

Two (2) compartment shelves shall be provided and constructed of .190" smooth aluminum and are to have formed upward breaks on front and rear for added strength. Shelves shall be fully adjustable within the compartments. Lighter gauge shelf materials are not acceptable.

Shelves shall extend full width of the compartments, within .50" of the overall width, and adjust up and down in the integral shelf tracks.

Oak Brook FD Body Spec
Rosenbauer/Sentinel Emergency Solutions

500# ROLLOUT TRAY

One (1) rollout equipment tray shall be installed in a standard depth compartment. The 500# rated tracks shall have roller bearings. The tray shall be constructed of .188" smooth aluminum plate, fabricated with four 3" sides.

The unit shall roll fully out of the compartment, with a gas operator to hold tray in both the "in and out" positions.

REFLECTIVE STRIPE

The outer edge and both sides of the shelf, slide-out tray, pull-out tool board, swing-out tool board, or pull-out and down tray shall have alternating red and white reflective DOT striping applied for safety.

PAC TRAC ON BACK WALL OF COMPARTMENT

There shall be three (3) lengths of 7000 Series Pac Trac provided in the upper compartment area on the back wall for the purpose of mounting equipment. PacTrac 3-Section Z-Mount brackets shall be used for in the installation.

Equipment brackets to be attached to the Pac Trac shall be provided by the purchaser or as listed elsewhere in these specifications.

COMPARTMENT LIGHTING

The compartment shall be provided with Rosenbauer InVisiLight LED Compartment lighting. The lighting shall be installed in the adjustable shelving track which shall be recessed into the side wall of the compartment. The lighting shall provide a continuous illumination from the compartment bottom to top and side to side while still allowing for full adjustment of any compartment provision (shelf/tray/etc.). To prevent damage, lights that protrude into the compartment in any fashion shall be deemed unacceptable.

The lights shall be installed in the shelving tracks; two (2) lights 45" in length shall be installed, one on each side of the compartment. The lights shall produce approximately 17 lumens per inch of lighting.

The lights shall be provided with a 5-Year warranty.
The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

RIGHT REAR COMPARTMENT - BEHIND REAR WHEELS

There shall be one (1) low compartment located behind the rear wheels. The compartment shall be equipped with low hinged double doors.

The compartment shall be equipped with the following:

R3 - 27" Wide Compartment

A removable louvered vent shall be provided in the compartment.

500# ROLLOUT TRAY

One (1) rollout equipment tray shall be installed in a standard depth compartment. The 500# rated tracks shall have roller bearings. The tray shall be constructed of .188" smooth aluminum plate, fabricated with four 3" sides.

The unit shall roll fully out of the compartment, with a gas operator to hold tray in both the "in and out" positions.

REFLECTIVE STRIPE

The outer edge and both sides of the shelf, slide-out tray, pull-out tool board, swing-out tool board, or pull-out and down tray shall have alternating red and white reflective DOT striping applied for safety.

COMPARTMENT LIGHTS

Two (2) 18" long OnScene Solutions Access LED lights shall be installed, one on each side of the door opening. The lights shall contain 12 LEDs per light producing approximately 60 lumens (six LEDs and 30 lumens every 9"). The light stick shall be rated at 100,000 hours of service and shall be provided with a 5 year free replacement warranty. The light shall have a 5/8" LEXAN™ polycarbonate tube enclosure for severe duty applications.

The light stick shall be waterproof and be connectible via a jumper wire to add additional lights in series if required.
The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

RIGHT REAR COMPARTMENT - BEHIND REAR OUTRIGGER

There shall be one (1) low compartment located behind the rear outrigger. The compartment shall be equipped with a low single hinged door.

The compartment shall be equipped with the following:

R4 - 25" Wide Compartment

A removable louvered vent shall be provided in the compartment.

Oak Brook FD Body Spec
Rosenbauer/Sentinel Emergency Solutions

500# ROLLOUT TRAY

One (1) rollout equipment tray shall be installed in a standard depth compartment. The 500# rated tracks shall have roller bearings. The tray shall be constructed of .188" smooth aluminum plate, fabricated with four 3" sides.

The unit shall roll fully out of the compartment, with a gas operator to hold tray in both the "in and out" positions.

REFLECTIVE STRIPE

The outer edge and both sides of the shelf, slide-out tray, pull-out tool board, swing-out tool board, or pull-out and down tray shall have alternating red and white reflective DOT striping applied for safety.

COMPARTMENT LIGHTS

Two (2) 18" long OnScene Solutions Access LED lights shall be installed, one on each side of the door opening. The lights shall contain 12 LEDs per light producing approximately 60 lumens (six LEDs and 30 lumens every 9"). The light stick shall be rated at 100,000 hours of service and shall be provided with a 5 year free replacement warranty. The light shall have a 5/8" LEXAN™ polycarbonate tube enclosure for severe duty applications.

The light stick shall be waterproof and be connectible via a jumper wire to add additional lights in series if required.
The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

REAR COMPARTMENT

There shall be one (1) compartment located at the rear of the apparatus. The compartment shall be located within the aerial torque box to accommodate the specified ladders and pike poles. The compartment shall be equipped with a natural finish roll up door.

COMPARTMENT LIGHTS

Two (2) 18" long OnScene Solutions Access LED lights shall be installed, one on each side of the door opening. The lights shall contain 12 LEDs per light producing approximately 60 lumens (six LEDs and 30 lumens every 9"). The light stick shall be rated at 100,000 hours of service and shall be provided with a 5 year free replacement warranty. The light shall have a 5/8" LEXAN™ polycarbonate tube enclosure for severe duty applications.

The light stick shall be waterproof and be connectible via a jumper wire to add additional lights in series if required.
The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

Oak Brook FD Body Spec
Rosenbauer/Sentinel Emergency Solutions

SLIDE OUT REAR LADDER AERIAL TORQUE BOX

Ground ladders and pike poles shall be accessed from the rear of the apparatus. All ladders shall be mounted on individual brackets and slide on composite material so as not to damage the main beams of the ladders. Pike poles and the folding ladder shall be stored in individual storage area. Ladders shall have stops provided on the front of all slides so ladders will not slide forward during emergency braking conditions.

LADDER SOURCE

New ground ladders shall be provided by the manufacturer.

ROOF LADDER

One (1) Duo Safety Model 875-A, 16-foot aluminum roof ladder with folding roof hooks on one end and spikes on the other end shall be provided on the apparatus. The ladder shall meet or exceed all latest NFPA Standards.

ROOF LADDER

One (1) Duo Safety Model 875-A, 18-foot aluminum roof ladder with folding roof hooks on one end and spikes on the other end shall be provided on the apparatus. The ladder shall meet or exceed all latest NFPA Standards.

EXTENSION LADDER

One (1) Duo-Safety Model 1200-A, 28-foot two (2) section aluminum extension ladder shall be provided on the apparatus. The ladder shall meet or exceed all the latest NFPA standards.

EXTENSION LADDER

One (1) Duo-Safety Model 1525-A, 40-foot three (3) section aluminum extension ladder shall be provided on the apparatus. The ladder shall meet or exceed all the latest NFPA standards.

EXTENSION LADDER

One (1) Duo-Safety Model 1200-A, 35-foot two (2) section aluminum extension ladder shall be provided on the apparatus. The ladder shall meet or exceed all the latest NFPA standards.

FOLDING ATTIC LADDER SOURCE

New folding attic ladders shall be provided by the manufacturer.

FOLDING LADDER

One (1) Duo Safety Model 585-A, 10-foot folding aluminum ladder shall be provided on the apparatus. The ladder shall meet or exceed all the latest NFPA Standards.

Oak Brook FD Body Spec
Rosenbauer/Sentinel Emergency Solutions

COMBINATION LADDER

One (1) Velocity Aluminum, Little Giant Ladder Model 15417-001, 9/15-foot combination aluminum extension ladder shall be provided on the apparatus. (Old model 17)

PIKE POLE MOUNTING BRACKET

Six (6) tube shall be provided for pike pole mounting. The tube shall have a 2-1/4" interior diameter and shall be mounted within the ladder compartment.

PIKE POLE SOURCE

The following pike poles shall be provided.

PIKE POLE

Two (2) 12' pike pole with round handle shall be provided. The pike pole shall be of fiberglass construction.

ROOF HOOK

Two (2) 6-foot Fire Hooks Unlimited NY style Roof Hook with double hook and grips shall be provided.

Mount in transverse compartment above pump panel w/Little Giant - One Ea Side

ROOF HOOK

Two (2) 8-foot Fire Hooks Unlimited NY style Roof Hook with double hook and grips shall be provided.

ROOF HOOK

Two (2) 10-foot Fire Hooks Unlimited NY style Roof Hook with double hook and grips shall be provided.

REAR RUB RAIL

A single piece full body width polished aluminum rub rail shall be bolted in place at the rear of the body. The rub rail is to be removable for ease of repair or replacement. The rear rub rail shall be a heavy extruded aluminum "C" channel.

WHEEL WELL COMPARTMENT LEFT SIDE AHEAD OF WHEELS

One (1) wheel well compartment shall be located on the left side in the rear wheel well panel ahead of the rear wheels of the type specified herein.
A breathing air cylinder storage compartment for three (3) SCBA cylinders (not supplied) shall be provided and located in the rear wheel well of the apparatus body.

Oak Brook FD Body Spec
Rosenbauer/Sentinel Emergency Solutions

The cylinder storage compartment shall be constructed entirely of aluminum. The door assemblies shall be provided with a gasket between door and body side, bolted in-place and removable for repair or replacement.

The compartment shall be provided with SCBA cylinder scuff protection. A brushed stainless-steel door shall be provided.
A one-inch (1") wide loop of black webbing shall be installed in each SCBA compartment to prevent the bottle from sliding out of the compartment in case of door failure. The loop shall be mounted, centered in the compartment and shall hang within one-inch (1") of the compartment floor to allow the bottle to pass by the strap when the bottle is placed in the compartment. The strap shall loop over the valve.

WHEEL WELL COMPARTMENT LEFT SIDE BETWEEN TANDEMS

A wheel well compartment shall be located on the left side in the rear wheel well panel between the rear tandem wheels of the type specified herein.
A fire extinguisher storage compartment shall be provided in the rear wheel well area of the apparatus body for two (2) extinguishers. The compartment shall be constructed of aluminum and removeable for repair or replacement. A brushed stainless-steel door shall be installed.
A one-inch (1") wide loop of black webbing shall be installed in each SCBA compartment to prevent the bottle from sliding out of the compartment in case of door failure. The loop shall be mounted, centered in the compartment and shall hang within one-inch (1") of the compartment floor to allow the bottle to pass by the strap when the bottle is placed in the compartment. The strap shall loop over the valve.

WHEEL WELL COMPARTMENT LEFT SIDE BEHIND WHEELS

A wheel well compartment shall be located on the left side in the rear wheel well panel behind the rear wheels of the type specified herein.

FUEL FILL DOOR

A Fire Shopp Inc. fuel fill access assembly shall be provided on the left side rear wheel well area. The assembly shall include a brushed stainless steel fuel fill enclosure door and a black polymer fuel assembly. A label indicating DIESEL FUEL ONLY shall be applied.

WHEEL WELL COMPARTMENT RIGHT SIDE AHEAD OF WHEELS

A wheel well compartment shall be located on the right side in the rear wheel well panel ahead of the rear wheels of the type specified herein.

A breathing air cylinder storage compartment for three (3) SCBA cylinders (not supplied) shall be provided and located in the rear wheel well of the apparatus body.

Oak Brook FD Body Spec
Rosenbauer/Sentinel Emergency Solutions

The cylinder storage compartment shall be constructed entirely of aluminum. The door assemblies shall be provided with a gasket between door and body side, bolted in-place and removable for repair or replacement.

The compartment shall be provided with SCBA cylinder scuff protection. A brushed stainless-steel door shall be provided.

A one-inch (1") wide loop of black webbing shall be installed in each SCBA compartment to prevent the bottle from sliding out of the compartment in case of door failure. The loop shall be mounted, centered in the compartment and shall hang within one-inch (1") of the compartment floor to allow the bottle to pass by the strap when the bottle is placed in the compartment. The strap shall loop over the valve.

WHEEL WELL COMPARTMENT RIGHT SIDE BETWEEN TANDEMS

A wheel well compartment shall be located on the right side in the rear wheel well panel between the rear tandem wheels of the type specified herein.

A fire extinguisher storage compartment shall be provided in the rear wheel well area of the apparatus body for two (2) extinguishers. The compartment shall be constructed of aluminum and removeable for repair or replacement. A brushed stainless-steel door shall be installed.

8" dia opening upper and lower
101 body 26" deep
98 body 24.50" deep
95 body 23" deep

A one-inch (1") wide loop of black webbing shall be installed in each SCBA compartment to prevent the bottle from sliding out of the compartment in case of door failure. The loop shall be mounted, centered in the compartment and shall hang within one-inch (1") of the compartment floor to allow the bottle to pass by the strap when the bottle is placed in the compartment. The strap shall loop over the valve.

WHEEL WELL COMPARTMENT RIGHT SIDE BEHIND WHEELS

A wheel well compartment shall be located on the right side in the rear wheel well panel behind the rear wheels of the type specified herein.

There shall be an open storage compartment provided and located in the rear wheel well of the apparatus body.

The storage compartment shall be constructed entirely of aluminum. A brushed stainless-steel door shall be provided with a gasket between door and body side, bolted in-place and removable for repair or replacement.

LEFT FRONT STEPS

The steps shall be mounted on the left front of the apparatus body.

Oak Brook FD Body Spec
Rosenbauer/Sentinel Emergency Solutions

FOLDING STEP

A folding step of die cast high-strength zinc/aluminum alloy, plated with a superior automotive grade chrome finish shall be provided. The greater than 42 sq. in. serrated non-skid step traction area also offers an oversized non-slip grasp handhold. A heavy-duty stainless-steel spring design firmly holds the step in the open or closed positions. A rubber stop prevents any transit noise and rattles in the closed position. Step lighting shall be from a LED light integrated in the step.

The step has been third part tested to assure conformation of NFPA 1901 and FHA, 49CFR specifications for stepping surfaces and handhold.

RIGHT FRONT STEPS

The steps shall be mounted on the right front of the apparatus body.

FOLDING STEP

A folding step of die cast high-strength zinc/aluminum alloy, plated with a superior automotive grade chrome finish shall be provided. The greater than 42 sq. in. serrated non-skid step traction area also offers an oversized non-slip grasp handhold. A heavy-duty stainless-steel spring design firmly holds the step in the open or closed positions. A rubber stop prevents any transit noise and rattles in the closed position. Step lighting shall be from a LED light integrated in the step.

The step has been third part tested to assure conformation of NFPA 1901 and FHA, 49CFR specifications for stepping surfaces and handhold.

HANDRAIL - TOP OF BODY SIDES

Two (2) extruded aluminum non-slip handrails, approximately 12" in length, shall be provided and mounted, one (1) each side at the top of the body sides, at the front of the apparatus body.

FRONT BODY PROTECTION PANELS

Aluminum tread plate overlays and panels shall be installed on the front of the body from the lower edge to the top of the compartment doors. The material shall be bolted in place and sealed to prevent any moisture entry between the overlay and the body structure.

REAR BODY PROTECTION PANELS

Smooth aluminum shall be installed on the rear of the body, to allow for the installation of a "Chevron" stripe on the rear.

Oak Brook FD Body Spec
Rosenbauer/Sentinel Emergency Solutions

EXTRUDED ALUMINUM RUB RAILS

Full body length polished aluminum rub rails shall be bolted in place on the lower right and left body sides. The side rub rails shall be a heavy extruded aluminum "C" channel. There shall also be a bolt on aluminum corner casting on each rear corner to blend the rear tail board assembly with the side rub rails.

120V ELECTRIC RECEPTACLE -- STRAIGHT BLADE

Six (6) 120-volt 20-amp straight blade, 3-prong duplex receptacle with spring-loaded weatherproof cover shall be provided.

Receptacle Location, Left Side, Ahead Rear Wheels Compartment, Ea

The electric receptacle shall be located inside the left side exterior body compartment ahead of the rear wheels.

Receptacle Location, Left Side, Over Wheel Compartment, Ea

The electric receptacle shall be located in the left side exterior body compartment over the rear wheels.

Receptacle Location, Left Side, Behind Rear Wheels Compartment, Ea

The electric receptacle shall be located inside the left side exterior body compartment behind the rear wheels.

Receptacle Location, Right Side, Ahead Rear Wheels Compartment, Ea

The electric receptacle shall be located inside the right side exterior body compartment ahead of the rear wheels.

Receptacle Location, Inside Cab, Crew Area, Ea

The electric receptacle shall be located inside the rear portion of the crew cab.

Shore Power Inlet, Wiring to Interior Cab Receptacles

SHORE POWER INLET

One (1) receptacle for a shore power inlet line shall be provided to supply the cab interior 120-volt outlets.

SHORE POWER INLET

One (1) receptacle for a shore power inlet line shall be provided to supply the body interior 120-volt outlets.

BODY PAINT PROCESS

While constructing the truck body, all aluminum parts that are to be finish painted shall be properly fitted on the body and then removed to be painted individually. The back side of all aluminum parts shall be sanded smooth of any burrs and sharp edges.

During reassembly of the apparatus, care shall be exercised in fitting and fastening the parts back in their respective position on the vehicle.

All aluminum parts shall be bolted to the body using stainless steel fasteners. Zinc or Cadmium plated fasteners are not acceptable. All bright metal fittings, if unavailable in stainless steel shall be heavily chrome plated. Iron fittings shall be copper plated prior to chrome plating.

Oak Brook FD Body Spec
Rosenbauer/Sentinel Emergency Solutions

All seams shall be caulked both inside and along the exterior edges with a urethane automotive sealant to prevent moisture from entering between any body panels.

The body and all parts shall be thoroughly washed with a grease cutting solvent (PPG DX330) prior to any sanding. After the body has been sanded and the weld marks and minor imperfections are filled and sanded, the body shall be washed again with (PPG DX330) to remove any contaminants on the surface.

A coating of epoxy sealer (PPG DP 48/50/90) shall be applied with a minimum of 1.0 mil dry film build. The epoxy sealer allows for maximum adhesion to the body material. A color coating of PPG Urethane Paint Direct Gloss with PPG Catalyst shall be applied with a minimum of 2.0 mil dry film build. The catalyst provides a base level UV barrier to prevent fading and chalking. A coating of PPG Clearcoat Topcoat Urethane with a minimum of 2.0 mil dry film build shall be applied. The clearcoat topcoat provides a maximum amount of UV barrier protection.

All products and technicians are certified by PPG every two (2) years.

INTERIOR COMPARTMENT FINISH

The interior of the ten (10) compartments shall be unpainted and have a D/A orbital sander finish.

TOUCH-UP PAINT

One (1) two (2) ounce bottle of touch-up paint shall be furnished with the completed truck at final delivery.

UNDERCOATING

The entire underside of the tandem axle apparatus body is to be cleaned and properly prepared for application of a sprayed on automotive type undercoating for added corrosion resistance. Undercoating is to be a solvent based, rubberized coating, black in color.

GOLD LEAF LETTERING

The lettering shall be applied in genuine gold leaf material, shaded in black and encapsulated in clear mylar.

A quantity of seventy-five (75), four (4) inch letters are to be placed on the cab and on the body as directed by the customer.

GOLD LEAF LETTERING

The lettering shall be applied in genuine gold leaf material, shaded in black and encapsulated in clear Mylar.

A quantity of fifty (50) letters are to be placed on the cab and on the body as directed by the customer. The letters shall be between eight and twelve inches in height.

Oak Brook FD Body Spec
Rosenbauer/Sentinel Emergency Solutions

REFLECTIVE STRIPING

A 1" x 6" x 1" wide 3M brand Scotchlite reflective multi-stripe shall be affixed to the perimeter of the vehicle. There shall be a 1" gap between each of the stripes. Striping shall conform to applicable NFPA requirements. At least 50% of the perimeter length of each side and width of the rear, and at least 25% of the perimeter width of the front of the vehicle shall have reflective striping.

The striping shall be applied in a large "Hockey Stick" pattern.

COLOR OF STRIPING MATERIAL

The color of the striping material shall be black.

CHEVRON STRIPING

The entire rear portion of the body shall have 3M reflective striping installed. The chevron style striping shall be applied at a 45-degree upward angle pointing towards the center upper portion of the rear panel.

COLOR OF STRIPING MATERIAL

The color of the striping material shall be red.

COLOR OF STRIPING MATERIAL

The color of the striping material shall be black.

REFLECTIVE TAPE ON OUTRIGGERS

The outriggers that extend beyond the side of the body shall have white diamond grade reflective tape applied to both the front and rear facing sides.

CHEVRON STRIPING

The rear door shall have 3M Diamond Grade reflective striping installed. The chevron style striping shall be applied at a 45-degree upward angle pointing towards the center on the rear roll up door.

COLOR OF STRIPING MATERIAL

The color of the striping material shall be black.

COLOR OF STRIPING MATERIAL

The color of the striping material shall be red.

Oak Brook FD Body Spec
Rosenbauer/Sentinel Emergency Solutions

INTERIOR CAB DOOR CHEVRON

Reflective striping shall be installed on the interior of each chassis door. The lower portion of the door shall have a scotchlite chevron striping applied to it. A reflective stripe shall also be applied on the vertical outer edge of each cab door.

COLOR OF STRIPING MATERIAL

The color of the striping material shall be red.

COLOR OF STRIPING MATERIAL

The color of the striping material shall be black.

YELLOW SAFETY TAPE - STANDING & WALKING SURFACES

The apparatus shall meet NFPA 1901 15.7.1.6 designating any horizontal standing or walking surface higher than 48-in (1220 mm) from the ground and not guarded by railing or structure at least 12-in (300 mm) high shall have at least a 1-in (25 mm) wide safety yellow line delineation that contrasts with the background to mark the outside perimeter of the designated standing or walking surface area, excluding steps and ladders.

AERIAL INSTRUCTION LABELS

Safety and instructional labels shall be applied at all necessary areas on the aerial device to identify points critical to the safe operation and maintenance of the aerial.

WHEEL CHOCKS WITH MOUNTS

A pair of Zico Model SAC-44 Quic-Chok folding wheel chocks shall be provided and mounted under the apparatus body with model SQCH-44H horizontal mounting brackets.

MISCELLANEOUS HARDWARE

Miscellaneous loose hardware consisting of bolts, nuts, washers, and screws shall be supplied with the apparatus at time of delivery.

QUOTATION

Sentinel Emergency Solutions

Village of Oak Brook Fire Department
Chief Kevin Fleege
1200 Oak Brook Rd.
Oak Brook, Illinois 60523
630-368-5200

Village of Oak Brook Fire Department
Chief Kevin Fleege
1200 Oak Brook Rd.
Oak Brook, Illinois 60523
630-368-5200

Quote No:	10030-0006	
VIPER RM:	109-RBA-18	109-4 RMA 1LCS
TECHNICAL:	109-RML-13	109' Technical Information -Smart-
BASE:	109-RML-02	109' Base Components -All-
FLY:	109-RML-03	109' Fly Components -All-
ROTATION:	109-RML-20	109' Aerial Rotation System -LCS-
TORQUE BOX:	109-RML-05	109' Torque Box Components -All-
OUTRIGGERS:	109-RML-21	109' Outrigger & Stabilizers -LCS-
WWAY & CAP:	109-RML-22	109' Waterway & Capabilities -LCS-
ELECTRICAL:	109-RML-08	109' Electical System -All-
HYDRAULIC:	109-RML-26	109' Hydraulic System -Smart/LCS-
EQUIPMENT:	EQUIPMENT	Aerial Service Equipment - All

04/13/2026

PART NO	S	DESCRIPTION	QTY	ID
		== 109' Technical Information -Smart- - 0.000 ==		**RKA**
00-00-0003		Pricing as of Rosenbauer QW Release 01.01.26 And Good Through 05.31.26	1	RKA
00-00-0501		Truck Information	1	RKA
		109' FOUR SECTION REAR MOUNT LADDER MODEL	**1**	**RKA**
00-00-2310		|-- 109' Four Section, Rear Mount, Straight Stick	1	RKA
00-00-2311		|-- 109' Four Section, Rear Mount, Base Section	1	RKA
00-00-2312		|-- 109' Four Section, Rear Mount, Lower-Mid Section	1	RKA
00-00-2313		|-- 109' Four Section, Rear Mount, Upper-Mid Section	1	RKA
00-00-2314		|-- 109' Four Section, Rear Mount, Fly Section	1	RKA
		AERIAL ENGINEERING DRAWINGS		**RKA**
00-03-1100		Technical Drawings, Aerial	1	RKA
00-03-3000		|-- Technical Drawings, 12V Electrical Wiring Schematic	1	RKA
00-03-3200		|-- Technical Drawings, Hydraulic Plumbing Schematic	1	RKA
		IN PROCESS PHOTOS		**RKA**
00-04-1030		In Process Photos	1	RKA
		OPERATIONAL INSTRUCTIONS		**RKA**
00-07-1220	>	Aerial Operation Instructions, By Aerial Mfg, At FD 3 Days	1	RKA
		AERIAL SERVICE and OPERATION MANUALS		**RKA**
00-08-1000		Ladder Manuals, Operation & Service Manuals, Electronic	1	RKA
		AERIAL WARRANTIES		**RKA**
00-09-1310		Aerial Warranty, 2 Years, Material & Workmanship	1	RKA
00-09-3030		|-- Waterway Extended Warranty, 3 Year Total	1	RKA
00-09-5150		|-- Hydraulic Extended Warranty, 3 Year Total	1	RKA
		AERIAL TESTING		**RKA**
00-10-1100		3rd Party Aerial Testing, NFPA 1900	1	RKA
00-10-2100		Performance Testing, Waterway Flow Test, 3rd Party	1	RKA
		AERIAL PAINTING & CORROSION PROTECTION		**RKA**
01-00-2120	>	Galvanized/Painted Ladder Sections: Match Upper Cab	1	RKA
00-09-2230		|-- Aerial Structural Design Warranty, 25 Years	1	RKA
00-09-7125		|-- Aerial Ladder Section, Paint Warranty, 5 Years	1	RKA
00-09-8200		|-- Aerial Ladder Sections, Galvanized Warranty, 25 Years	1	RKA
01-00-1270		|-- Egress Tip, Galvanized/Painted: Red	1	RKA
10-05-1200		|-- Aerial Ladder Bed, HD, S/S Scuff Plate	1	RKA
01-00-1410		Outriggers, Galvanized, Beam Inner, Jack Tube Pad	1	RKA

PART NO	S	DESCRIPTION	QTY	ID
00-09-8625		|-- Outrigger, Galvanized Warranty, 25 Year	1	RKA
01-00-1700		Torque Box Galvanized	1	RKA
00-09-8425		|-- Torque Box, Galvanized Warranty, 25 Year	1	RKA
		== 109' Base Components -All- - 0.000 ==		**RKA**
		BASE SECTION AERIAL COMPONENTS		**RKA**
10-03-1011		Rung Covers, High Traction, Neon Striping Down Center	1	RKA
10-05-1100		Aerial Wear Pads, Between Telescoping Sections	1	RKA
10-06-1200		Sign Panel Brackets, Aerial	1	RKA
10-06-1404	>	|-- Sign Panels, Aerial, 16"x120"	1	RKA
10-06-1730	>	|-- Painted, Match Ladder Sections	1	RKA
10-06-1800	>	Cylinder/Cradle Sign Brackets	1	RKA
10-06-1856		|-- Cylinder Covers, Painted	1	RKA
10-06-1930	>	|-- Painted, Match Ladder Sections	1	RKA
10-06-2020		Base Markings, Indicate Extension Position, Red	1	RKA
10-07-1210		Roof Ladder, Bolt On, Mnt Brackets Outside Base Section	1	RKA
10-07-1221		|-- Driver Side	1	RKA
10-07-3030	>	|-- Roof Ladder, Duo Safety, 775-A, 12', Alum	1	RKA
10-07-6125	>	Aluminum Box, Outside Base	1	RKA
10-07-6154		|-- Officer Side	1	RKA
10-07-6163	>	|-- Painted, Match Ladder Sections	1	RKA
10-07-6172		|-- Rescue Basket, Junkins, JSA-200	1	RKA
10-08-1100		=== NO Ladder Brthg Air System - PTS ===	1	RKA
		== 109' Fly Components -All- - 0.000 ==		**RKA**
45-01-1100		Folding Steps, (1)Set, Ladder, Upper End Fly	1	RKA
45-01-3100		Rope Rescue Eyelets	1	RKA
45-02-1000		=== NO Roof Ladder, Bolt On, Mnt Bracket, Inside Fly Section - PTS ===	1	RKA
45-03-1010		Axe and Pike Pole Welded Plates, Tip of Fly Section	1	RKA
45-03-1100		|-- === NO Axe Bolt On Mounting Brackets - PTS ===	1	RKA
45-03-3200		|-- Pike Pole Bolt On Mounting Brackets, Tip of Fly Section	1	RKA
45-03-3212		|-- Driver Side	1	RKA
45-03-4000		|-- Pike Pole, 12', Fiberglass Handle	1	RKA
45-03-1991		=== NO Halligan Bolt On Mounting Brackets - PTS ===	1	RKA
		== 109' Aerial Rotation System -LCS- - 0.000 ==		**RKA**
		AERIAL ROTATION SYSTEM		**RKA**
50-00-1300		Ladder Rotation System 44" Bearing, 60 Bolts	1	RKA
50-00-2010		Panel Language: English	1	RKA
50-01-1327		Smart Aerial Control LCS, Ladder, Turntable, Command Pedestal	1	RKA
50-01-1800		|-- Pedestal Location, Driver Side	1	RKA
50-01-1820		|-- === 6" Command Pedestal Riser - PTS ===	1	RKA
50-01-1900		|-- Aerial Gauges & Visual Display, Feet/Gallons	1	RKA
50-03-1300		|-- Monitor Controls at Pump Panel, Electric	1	RKA
50-04-1200		|-- Ladder Tip Remote Control Operation, Toggle Switches	1	RKA
50-04-1303		|-- Wireless Radio Remote: Platform, Monitor(s), & Outriggers	1	RKA
50-06-1100		|-- Turntable, Two Sided	1	RKA
01-00-2020		|-- Handrails on Turntable, Steel, Line-X Black	1	RKA
01-00-2055		|-- Handrail Orientation, Bent with Crossmember	1	RKA
50-08-1510		|-- One (1), Harness Storage Box, Line-X	1	RKA
50-08-1600		|-- ========= NO FLAG POLE MOUNT- PTS ==========	1	RKA
50-08-1205		|-- Safety Bars, FRC, (2) Swing Up at Turntable Openings	1	RKA
50-08-1410		|-- Mansaver Bar Color; Yellow	1	RKA
50-11-1220		|-- Turntable, Control Stand & Lid, Line-X Black	1	RKA
50-02-1010		|-- Command Pedestal Lid	1	RKA
50-11-1410		|-- Turntable Control Lid/Door Ajar	1	RKA
50-12-0000		|-- === No Bull Gear Beauty Ring - PTS ===	1	RKA
50-17-1200		Air Horn Button, Smart Screens	1	RKA
50-20-1100		=== NO Aerial Lubrication Automatic System - PTS ===	1	RKA
		== 109' Torque Box Components -All- - 0.000 ==		**RKA**
		TORQUE BOX COMPONENTS		**RKA**
60-00-1120		Torque Box	1	RKA
60-03-1030		Tow Eye Mounts	1	RKA

PART NO	S	DESCRIPTION	QTY	ID
		== 109' Outrigger & Stabilizers -LCS- - 0.000 ==		**RKA**
		OUTRIGGERS and STABILIZERS		**RKA**
65-01-1201		Outriggers, Smart Aerial Components, LCS	1	RKA
65-02-1040		Outriggers, (2) Front Out and Down, (2) Rear Out and Down	1	RKA
65-02-2170		|-- === NO Moving Front Outriggers to Directly Behind Cab - PTS ===	1	RKA
65-03-1300		Short Jacking, Smart Aerial	1	RKA
65-04-1439		Outrigger Control Valves, Electric, Proportional (4) Out-Down	1	RKA
65-06-1300		|-- Outriggers, Automatic Self-Leveling, (4)Extending Outriggers	1	RKA
65-06-1420		|-- All Jacks Up Switch	1	RKA
65-07-1100	>	Outrigger Plates, Auxiliary, 1/2" Alum	1	RKA
65-09-1200		Outrigger Stowed Indicator, Light in Cab	1	RKA
		== 109' Waterway & Capabilities -LCS- - 0.000 ==		**RKA**
		AERIAL PERFORMANCE CAPABILITIES		**RKA**
70-00-1170		Performance Capabilities, LCS, Ladder, 1250 GPM, -10/+75	1	RKA
70-00-1420		|-- Waterway 360 Degree 4" Swivel, 2-Port	1	RKA
70-01-1130		|-- Waterway, Alum, Lddr, 5"OD Base, 4.5"L-M, 4"U-M, 3.5"Fly	1	RKA
70-01-1720		|-- Waterway Color; Match Ladder Sections	1	RKA
70-01-1410		|-- Retractable Waterpan, Manual	1	RKA
70-02-1132		|-- Waterway, Akron 4" Butterfly Valve, Electrically Operated	1	RKA
70-17-1015		|-- Monitor, Akron, 3480, Elec, StreamMaster II	1	RKA
70-17-1110		|-- Nozzle, Akron, 5177, 1250 GPM	1	RKA
70-17-1200		|-- === NO Akron Hand Held - PTS ===	1	RKA
70-18-1300		|-- Stacked Tips, Akron, 2499, Straight Bore Tips	1	RKA
70-19-1300		|-- Stream Shaper, Akron, Mini	1	RKA
70-20-1020		|-- Pre-Connect Discharge, 2.5" x 1.5", Butterfly Hand Valve,Tip	1	RKA
70-03-1210		Waterway, Relief Valve, 2.5", Above Turntable	1	RKA
70-04-1100	>	Waterway, Relief Valve & Drain Valve	1	RKA
		== 109' Electical System -All- - 0.000 ==		**RKA**
80-01-1050		Aerial Converter Package	1	RKA
80-01-1020		|-- Step-Up Converter, H30-12-24	1	RKA
80-01-1030		|-- Turntable, Step-Down Converter: B30-24-13R8A	1	RKA
80-01-1060		|-- Aerial Fly, Step-Down Converter: B30-24-13R8A	1	RKA
80-01-3100	>	Intercom, 3-Station, Turntable, Fly & Pump Panel, Atkinson: AD26C & AD26D	1	RKA
80-09-1010		Light Housing Color; White	1	RKA
80-10-1240		|-- Tracking Light, Base Section, (1) Hi-Viz: FT-MB-33-FT-W	1	RKA
80-11-0000		|-- === NO 120V Tracking Lights - PTS ===	1	RKA
81-44-1001		|-- === NO Egress Scene Lights - PTS ===	1	RKA
81-44-1300		|-- Tip Lights, Tip of Ladder, (2), Whelen: Micro Pioneer MPPWCS	1	RKA
81-45-0000		|-- === NO 120V Tip Lights - PTS ===	1	RKA
80-14-1200		Ladder Bed Cradle Lights, (2), LED, Whelen: 3SC0CDCR	1	RKA
85-45-1100		=== NO, Ladder Receptacle, 120V, 20A, Tip - PTS ===	1	RKA
86-45-1211		Tip Marker Lights, (2), Tomar Strobe, Blue:470S-1280-B	1	RKA
87-10-2830		Ladder Rung Lights, LED, Blue (Fly), White (Upper Mid & Lower Mid), Red (Base)	1	RKA
88-01-1100		=== NO, Overload Warning, LED Light - PTS ===	1	RKA
88-01-4200		Cab Lift Interlock, Limit Switch	1	RKA
90-20-1001		=== Color Camera - PTS ===	1	RKA
90-20-1002		=== Thermal Camera - PTS ===	1	RKA
		== 109' Hydraulic System -Smart/LCS- - 0.000 ==		**RKA**
		AERIAL HYDRAULIC SYSTEM		**RKA**
90-00-1100		Hydraulic System, 30 Gallon Tank	1	RKA
90-01-1400		|-- Hydraulic System, Gated Drain Line	1	RKA
90-01-1450		|-- Hydraulic System, Gtd Suction Line, Btwn Hyd Tnk/Pmp	1	RKA
90-00-1510		Hydraulic Oil, Extreme ISO 32	1	RKA
90-01-2200		Hydraulic System, Filter, High Pressure	1	RKA
90-01-3210		Hydraulic System, Return Filter, Low Pressure	1	RKA
90-04-1400		Hyd Elevation System, 6" Cylinder, -10/+75 Deg	1	RKA
90-07-1100		Hydraulic System, (1) Emergency 12V, Stow/Outriggers	1	RKA
		== Aerial Service Equipment - All - 0.000 ==		**RKA**
90-01-3300		=== NO, Hydraulic System, Filter, Return Line, Ship Loose - PTS ===	1	RKA

PART NO	S	DESCRIPTION	QTY	ID
90-01-3500		=== NO, Hydraulic System, Filter, HP, Ship Loose - PTS ===	1	RKA
		=== Aerial Service Tools ===		**RKA**
90-10-1100		=== NO, Aerial Special Tools - PTS ===	1	RKA
90-10-1300		=== NO Torque Wrench - PTS ===	1	RKA
90-10-1310		=== NO 6 to 1 Torque Multiplier - PTS ===	1	RKA
90-10-1699		=== NO Quick- Check Tension Meter, Aerial Cables - PTS ===	1	RKA
90-10-1799		=== NO Aerial Service Kit, Cable Sockets	1	RKA
		=== Aerial Lubrication ===		**RKA**
90-10-2200		Aerial Lubrication, (2)Cans, Ship Loose	1	RKA

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109' FOUR SECTION REAR MOUNT LADDER

Aerial Ladder Design and Construction

A 109' four-section steel rear mount aerial ladder shall be provided. It shall have a maximum height of 108' 7.3" at the top rung of the fly section at 75-degrees elevation. The horizontal reach from the top rung to the center of the turntable shall be 101' 10.8".

Operation on grades

The aerial shall be capable of being operated with full rated capabilities in any plane up to 5-degrees out of level with the turntable leveled as much as possible by placement of the outriggers. Operation beyond this limit shall be at the operator's discretion.

Extension And Retraction System

Two [2] 5" inside diameter cylinders, each with 2-1/2" outside diameter rods and a 67-1/2" stroke, are used in the extension and retraction system. The specified extension cylinders shall not exceed the specified length. The required length cylinders shall place the cylinder weight closer to the base of the aerial device. Smaller size cylinders are required since they are easier to handle for removal for service reasons. In addition, the specified shorter stroke cylinders provide less potential for damage to the rod by hitting an obstacle when extended.

The extension cylinders shall have counterbalance valves mounted directly to them and shall extend and retract the aerial with a 4 to 1 cable cylinder arrangement from totally retracted to 109' at 75 degrees totally extended.

The extension and retraction system shall have six [6] pairs of cables. Lower-mid section cables shall have a .50" diameter, upper-mid section cables have a .375" diameter, and fly section cables shall have a .3125" diameter.

Each of the cylinders, cables, and sheave assemblies shall be completely independent of the other system, to provide a safety factor wherein a failure of one assembly shall not affect the function and operation of the other assembly. Each set of cables shall be capable of operating the ladder in the event of a failure of the other.

There are no restrictions on the waterway as the ladder is extended and retracted

State-of-the Art Technology

The aerial device materials, parts, technology, or procedures used in construction of the apparatus are subject to change at the manufacturer's discretion to provide "equal or better" products and must be in compliance to applicable NFPA #1901 standards and industry standard practice.

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BASE SECTION

The ladder base section length shall 32' 9", with inside dimension of 39.25"; distance between the top of the handrail and the centerline of the rungs shall be 28.375". The base rails shall be 100,000 PSI material and the handrails shall be 100,000 PSI material.

LOWER MID SECTION

The ladder lower-mid-section length shall be 32' 10", with inside dimension of 33.375"; the distance between the top of the handrail and the centerline of the rungs shall be 22.875". The base rails shall be 100,000 PSI material and the handrails shall be 70,000 PSI steel material.

UPPER MID SECTION

The ladder upper mid-section length shall be 32' 11", with inside dimension of 27.375"; the distance between the top of the handrail and the centerline of the rungs shall be 18.875". The base rails shall be 70,000 PSI material and the handrails shall be 70,000 PSI steel material.

FLY SECTION

The ladder fly section length shall be 36' 3" including the bolt-on egress, with inside dimension of 22.125"; the distance between the top of the handrail and the centerline of the rungs shall be 15.375". The handrails and base rails shall be 70,000 PSI steel material.

TECHNICAL DRAWINGS

Technical and engineering drawings shall be provided for the aerial ladder as follows: left side view, top view and rear view.

ELECTRICAL DRAWINGS

Technical and engineering drawings shall be provided for the 12 volt electrical system for the model of apparatus specified.

HYDRAULIC DRAWINGS

Technical and engineering drawings shall be provided for the aerial device hydraulic system.

IN PROCESS AERIAL PHOTOS

Photos shall be taken during production to provide updates to the Fire Department. The following set of photos shall be supplied:

- Aerial Sections in assembly

- Turntable in assembly
- Torque Box after galvanizing
- Platform in assmbly (if applicable)
- Aerial loaded and ready for shipping

AERIAL OPERATION INSTRUCTIONS

As required by applicable sections of NFPA #1901, operating instructions and demonstration of the aerial apparatus shall be provided at the purchaser's location. The aerial manufacturer shall provide these instructions and demonstration of the aerial apparatus.

Personnel providing the instructions shall be professionally trained by the aerial manufacturer prior to the delivery process. All costs of these instructions shall be borne by the bidder. The bidder shall notify the purchaser a minimum of 14 days prior to the instruction period. The bidder shall provide classroom instructions, operational instruction. The instructor shall provide all the necessary material to assure proper operation of the aerial device.

This instruction period shall be three (3) consecutive days at the purchaser's location.

AERIAL OPERATION MANUALS

At time of delivery, an aerial manual shall be supplied which shall include aerial operation overview, service documentation, wiring schematics and technical high-level bill of material drawings. The documentation shall address at a minimum the inspection, service, and operations of the fire apparatus and all major components thereof. This documentation and manuals shall be provided in the English language.

MATERIAL AND WORKMANSHIP TWO (2) YEAR WARRANTY TERMS AND CONDITIONS

Rosenbauer hereby warrants each new Rosenbauer Aerial to be free from defects in material and workmanship for a warranty period of two (2) years starting on the date the vehicle is delivered to original purchaser. Under this warranty, Rosenbauer agrees to furnish any item or items to replace those that have been found to be defective in material or workmanship where there is no indication of abuse, neglect or other than normal service. Such an item or items, at the option of Rosenbauer must be made available for our inspection at our request and returned to our factory or another location designated by Rosenbauer. Transportation of such an item or items will be arranged and covered by buyer within thirty (30) days after the date of failure and within two (2) years from the date of delivery of the apparatus to the original purchaser, whichever occurs first. The inspection must indicate that the failure was attributed to defective material or workmanship. Authorization for repair or item replacement must be sought from Rosenbauer customer service department prior to repair or item replacement occurring.

This warranty is applicable only if the aerial device is serviced annually by an authorized Rosenbauer service facility. The cost of the annual service is the responsibility of the purchaser.

THIS WARRANTY SHALL NOT APPLY TO OR COVER THE FOLLOWING

- Normal maintenance services or adjustments, including but not limited to, lubricants, cable adjustment, hoses, and other incidentals.
- Any item that has been repaired, replaced or altered by a facility not approved in advance by Rosenbauer, or in a manner which, at Rosenbauer's discretion, may adversely affect the safe operation or durability of the vehicle or item.
- Special, incidental or consequential damages including, but not limited to, loss of time, inconvenience, loss of use, lost profits or transportation fees or charges to or from any facility.
- Any malfunction resulting from misuse, negligence, alteration, accident or lack of operational knowledge, lack of normal or required maintenance or adjustments, exposure to corrosive agents, fire, severe environmental conditions or acts of God.

EXCLUSIONS OF DAMAGES BOTH INCIDENTAL AND CONSEQUENTIAL

At no time shall Rosenbauer be held liable for any incidental, consequential, indirect, special and/or punitive damages whatsoever, whether coming from breach of contract, warranty, tort or equity. Such items shall include the chassis or other items sold by Rosenbauer, or their operation or their failure to operate, or defects herein, or any undertakings, acts or omissions related to, regardless whether Rosenbauer's knowledge of the possibility of any such damage.

Without limitation of the generality of the preceding statements, Rosenbauer categorically disclaims any and all liability for property and personal injury, damages, penalties for lost revenue and/or profit, loss of aerial or products and associated pieces of equipment, the expense of substituting chassis and/or products, or the out of service expenses, resulting from damages and/or delays, that creates down time expenses and/or create economic losses, or any third party claims for damages.

This warranty is in lieu of all other warranties, expressed or implied, and all other obligations or liabilities on our part. We neither assume nor authorize any person to assume for us any liability or make any alteration to this warranty in connection with the sale of our apparatus unless expressly given in writing by Rosenbauer.

NOTE: Surety bond, if required, will cover standard one year warranty period only and will not cover any extended warranties allowed by seller or other component

WATERWAY WARRANTY THREE (3) YEAR
TERMS AND CONDITIONS

Rosenbauer hereby warrants each new Rosenbauer Aerial waterway to be free from defects in material and workmanship for a warranty period of three (3) years starting on the date the vehicle is delivered to original purchaser. Under this warranty, Rosenbauer agrees to furnish any item or items to replace those that have been found to be defective in material or workmanship where there is no indication of abuse, neglect or other than normal service. Such an item or items, at the option of Rosenbauer must be made available for our inspection at

our request and returned to our factory or another location designated by Rosenbauer. Transportation of such an item or items will be arranged and covered by buyer within thirty (30) days after the date of failure and within three (3) years from the date of delivery of the apparatus to the original purchaser, whichever occurs first. The inspection must indicate that the failure was attributed to defective material or workmanship. Authorization for repair or item replacement must be sought from Rosenbauer customer service department prior to repair or item replacement occurring. Waterway seals shall be covered for a period of three (3) years.

This warranty is applicable only if the aerial device is serviced annually by an authorized Rosenbauer service facility. The cost of the annual service is the responsibility of the purchaser.

THIS WARRANTY SHALL NOT APPLY TO OR COVER THE FOLLOWING

- Normal maintenance services or adjustments, including but not limited to, lubrication, greasing, cleaning, and other incidentals.
- Any item that has been repaired, replaced or altered by a facility not approved in advance by Rosenbauer, or in a manner which, at Rosenbauer's discretion, may adversely affect the safe operation or durability of the vehicle or item.
- Special, incidental or consequential damages including, but not limited to, loss of time, inconvenience, loss of use, lost profits or transportation fees or charges to or from any facility.
- Any malfunction resulting from misuse, negligence, alteration, accident or lack of operational knowledge, lack of normal or required maintenance or adjustments, exposure to corrosive agents, fire, severe environmental conditions or acts of God.

EXCLUSIONS OF DAMAGES BOTH INCIDENTAL AND CONSEQUENTIAL

At no time shall Rosenbauer be held liable for any incidental, consequential, indirect, special and/or punitive damages whatsoever, whether coming from breach of contract, warranty, tort or equity. Such items shall include the chassis or other items sold by Rosenbauer, or their operation or their failure to operate, or defects herein, or any undertakings, acts or omissions related to, regardless whether Rosenbauer's knowledge of the possibility of any such damage.

Without limitation of the generality of the preceding statements, Rosenbauer categorically disclaims any and all liability for property and personal injury, damages, penalties for lost revenue and/or profit, loss of aerial or products and associated pieces of equipment, the expense of substituting chassis and/or products, or the out of service expenses, resulting from damages and/or delays, that creates down time expenses and/or create economic losses, or any third party claims for damages.

This warranty is in lieu of all other warranties, expressed or implied, and all other obligations or liabilities on our part. We neither assume nor authorize any person to assume for us any liability or make any alteration to this warranty in connection with the sale of our apparatus unless expressly given in writing by Rosenbauer.

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NOTE: Surety bond, if required, will cover standard one year warranty period only and will not cover any extended warranties allowed by seller or other component manufacturers.

HYDRAULIC WARRANTY THREE (3) YEAR TERMS AND CONDITIONS

Rosenbauer hereby warrants each new Rosenbauer Aerial hydraulic to be free from defects in material and workmanship for a warranty period of three (3) years starting on the date the vehicle is delivered to original purchaser. Under this warranty, Rosenbauer agrees to furnish any item or items to replace those that have been found to be defective in material or workmanship where there is no indication of abuse, neglect or other than normal service. Such an item or items, at the option of Rosenbauer must be made available for our inspection at our request and returned to our factory or another location designated by Rosenbauer. Transportation of such an item or items will be arranged and covered by buyer within thirty (30) days after the date of failure and within three (3) years from the date of delivery of the apparatus to the original purchaser, whichever occurs first. The inspection must indicate that the failure was attributed to defective material or workmanship. Authorization for repair or item replacement must be sought from Rosenbauer customer service department prior to repair or item replacement occurring. Hydraulic seals shall be covered for a period of three (3) years.

This warranty is applicable only if the aerial device is serviced annually by an authorized Rosenbauer service facility. The cost of the annual service is the responsibility of the purchaser.

THIS WARRANTY SHALL NOT APPLY TO OR COVER THE FOLLOWING

- Normal maintenance services or adjustments, including but not limited to, lubrication, greasing, cleaning, and other incidentals.
- Any item that has been repaired, replaced or altered by a facility not approved in advance by Rosenbauer, or in a manner which, at Rosenbauer's discretion, may adversely affect the safe operation or durability of the vehicle or item.
- Special, incidental or consequential damages including, but not limited to, loss of time, inconvenience, loss of use, lost profits or transportation fees or charges to or from any facility.
- Any malfunction resulting from misuse, negligence, alteration, accident or lack of operational knowledge, lack of normal or required maintenance or adjustments, exposure to corrosive agents, fire, severe environmental conditions or acts of God.

EXCLUSIONS OF DAMAGES BOTH INCIDENTAL AND CONSEQUENTIAL

At no time shall Rosenbauer be held liable for any incidental, consequential, indirect, special and/or punitive damages whatsoever, whether coming from breach of contract, warranty, tort or equity. Such items shall include the chassis or other items sold by Rosenbauer, or their operation or their failure to operate, or defects herein, or any undertakings, acts or omissions related to, regardless whether Rosenbauer's knowledge of the possibility of any such damage.

Without limitation of the generality of the preceding statements, Rosenbauer categorically disclaims any and all liability for property and personal injury, damages, penalties for lost revenue and/or profit, loss of aerial or products and associated pieces of equipment, the expense of substituting chassis and/or products, or the out of service expenses, resulting from damages and/or delays, that creates down time expenses and/or create economic losses, or any third party claims for damages.

This warranty is in lieu of all other warranties, expressed or implied, and all other obligations or liabilities on our part. We neither assume nor authorize any person to assume for us any liability or make any alteration to this warranty in connection with the sale of our apparatus unless expressly given in writing by Rosenbauer.

NOTE: Surety bond, if required, will cover standard one year warranty period only and will not cover any extended warranties allowed by seller or other component manufacturers.

THIRD PARTY TESTING

The aerial ladder shall be inspected and tested by a third party. A non-destructive test shall be performed on each unit at a rate of 100% inspection by the Underwriters Laboratories inspector, exceeding the requirements applicable section of NFPA 1900 for new apparatus. All non-destructive procedures shall be fully documented and meet or exceed the requirements of applicable sections of NFPA 1900.

PERFORMANCE WATER FLOW TESTING

The waterway flow test shall be conducted by an accredited third party testing organization with certified results provided on delivery of the apparatus. If the aerial device is equipped with a permanent water system and has a rated vertical height of 110 ft (34 m) or less, standard model flow test data shall be provided to the purchaser.

If the water system has been modified from the standard model configuration, a new flow test shall be conducted to determine that the friction loss in the water system between the base of the swivel and the monitor outlet does not exceed 100 psi (700 kPa) with 1000 gpm (3748 L/min) flowing and with the water system at full extension.

A flow test shall be conducted on each vehicle to determine that the water system is capable of flowing 1000 gpm (3748 L/min) (or rating as specified in these specifications) at 100 psi (700 kPa) nozzle pressure with the aerial device at full elevation and extension.

Where the apparatus is equipped with a fire pump designed to supply the water system, the test shall be conducted using the onboard fire pump.

The intake pressure to the fire pump shall not exceed 20 psi (140 kPa).

AERIAL SECTIONS GALVANIZED & PAINTED

Prior to assembly, each aerial ladder section shall be hot dip galvanized. The galvanizing process will permeate each ladder section to prevent rust and corrosion and not be merely an over-coating The galvanized aerial ladder

sections shall be provided in the natural finish eliminating the requirement for finish paint and the subsequent requirements for touch up paint and/or total repaint after a period of time due to nicks, chips and corrosion resulting from hitting the ladder many times in use. The galvanized ladder shall reduce the maintenance requirement for grease once or twice a year, based on duty cycle.

The aerial ladder sections are galvanized inside and out, including base rails, hand rails, diagonals, rungs and K-Braces. This process eliminates the rusting, scratching or paint chips on the aerial sections. Galvanizing has been recognized as an effective way to protect steel from corrosion.

Galvanizing shall provide a barrier and cathodic protection from corrosion. During the galvanizing process, the complete aerial ladder sections shall be immersed in molten zinc. Through diffusion, the zinc shall bond to the steel at the molecular level. The resulting zinc coating shall provide a barrier that shields the steel from the environment

After the ladder sections are galvanized they shall be properly cleaned and prepared for paint. The galvanized ladder sections shall be painted to match the upper color of the cab.

STRUCTURAL DESIGN WARRANTY TWENTY FIVE (25) YEAR

TERMS AND CONDITIONS

Rosenbauer Aerials, LLC hereby shall declare the structural components shall be warranted for a period of twenty five (25) years or 100,000 miles starting on the date the vehicle is delivered to original purchaser and includes the following coverage:

- Free from structural failure caused by defective design and workmanship

Under this warranty, Rosenbauer Aerials, LLC agrees to repair or furnish any item(s) to replace those that have been found to be defective in material or workmanship where there is no indication of abuse, neglect or other than normal service. Such an item(s) at the option of Rosenbauer Aerials, LLC must be made available for our inspection at our request and returned to our factory or another location designated by Rosenbauer. Transportation of such an item or items will be arranged and covered by buyer within thirty (30) days after the date of failure and within two (2) years from the date of delivery of the apparatus to the original purchaser, whichever occurs first. The inspection must indicate that the failure was attributed to defective material or workmanship. Authorization for repair or item replacement must be sought from Rosenbauer customer service department prior to repair or item replacement occurring.

This warranty is applicable only if the aerial device is serviced annually by an authorized Rosenbauer service facility. The cost of the annual service is the responsibility of the purchaser.

Coverage Period
00 to 05 years = 100%
06 to 10 years = 50%
11 to 15 years = 25%
16 to 20 years = 10%

21 to 25 years = 5%

THIS WARRANTY SHALL NOT APPLY TO OR COVER:

- Normal maintenance services or adjustments, including but not limited to, filters, lubricants, cable adjustment, hoses, and other incidentals.
- Any item that has been repaired, replaced or altered by a facility not approved in advance by Rosenbauer, or in a manner which, at Rosenbauer's discretion, may adversely affect the safe operation or durability of the vehicle or item.
- Special, incidental or consequential damages including, but not limited to, loss of time, inconvenience, loss of use, lost profits or transportation fees or charges to or from any facility.
- Any malfunction resulting from misuse, negligence, alteration, accident or lack of operational knowledge, lack of normal or required maintenance or adjustments, exposure to corrosive agents, fire, severe environmental conditions or acts of God.

EXCLUSIONS OF DAMAGES BOTH INCIDENTAL AND CONSEQUENTIAL

At no time shall Rosenbauer be held liable for any incidental, consequential, indirect, special and/or punitive damages whatsoever, whether coming from breach of contract, warranty, tort or equity. Such items shall include the chassis or other items sold by Rosenbauer, or their operation or their failure to operate, or defects herein, or any undertakings, acts or omissions related to, regardless of whether Rosenbauer's knowledge of the possibility of any such damage.

Without limitation of the generality of the preceding statements, Rosenbauer categorically disclaims any and all liability for property and personal injury, damages, penalties for lost revenue and/or profit, loss of chassis or products and associated pieces of equipment, the expense of substituting chassis and/or products, or the out of service expenses, resulting from damages and/or delays, that creates down time expenses and/or create economic losses, or any third party claims for damages.

This warranty is in lieu of all other warranties, expressed or implied, and all other obligations or liabilities on our part. We neither assume nor authorize any person to assume for us any liability or make any alteration to this warranty in connection with the sale of our apparatus unless expressly given in writing by Rosenbauer.

NOTE: Surety bond, if required, will cover standard one year warranty period only and will not cover any extended warranties allowed by seller or other component manufacturers.

PAINT WARRANTY FIVE (5) YEAR
TERMS AND CONDITIONS

Rosenbauer hereby warrants the paint on the Rosenbauer aerial of each new fire & rescue vehicle to be free from blistering, peeling, corrosion or any other adhesion defect caused by defective manufacturing methods or paint material selection for a warranty period of five (5) years starting on the date the vehicle is delivered to original purchaser. Under this warranty, Rosenbauer agrees to furnish any item or items to replace those that have been

found to be defective in material or workmanship where there is no indication of abuse, neglect or other than normal service. Such an item or items, at the option of Rosenbauer must be made available for our inspection at our request and returned to our factory or another location designated by Rosenbauer. Transportation of such an item or items will be arranged and covered by buyer within thirty (30) days after the date of failure and within five (5) years from the date of delivery of the apparatus to the original purchaser. The inspection must indicate that the failure was attributed to an adhesion defect caused by defective manufacturing methods or paint material selection. Authorization for repair or item replacement must be sought from Rosenbauer customer service department prior to repair or item replacement occurring.

Coverage Period
00 to 01 years = 100%
02 to 04 years = 75%
05 year = 50%

This warranty is applicable only if the aerial device is serviced annually by an authorized Rosenbauer service facility. The cost of the annual service is the responsibility of the purchaser.

THIS WARRANTY SHALL NOT APPLY TO OR COVER THE FOLLOWING

- Any item that has been repaired, repainted or altered by a facility not approved in advance by Rosenbauer.
- Special, incidental or consequential damages including, but not limited to, loss of time, inconvenience, loss of use, lost profits or transportation fees or charges to or from any facility.
- Any defect resulting from misuse, negligence, alteration, accident or lack of normal or required maintenance or adjustments, exposure to corrosive agents, fire, severe environmental conditions or acts of God.
- Painted items which are manufactured by a party other than Rosenbauer and which are separately warranted by that party.

EXCLUSIONS OF DAMAGES BOTH INCIDENTAL AND CONSEQUENTIAL

At no time shall Rosenbauer be held liable for any incidental, consequential, indirect, special and/or punitive damages whatsoever, whether coming from breach of contract, warranty, tort or equity. Such items shall include the chassis or other items sold by Rosenbauer, or their operation or their failure to operate, or defects herein, or any undertakings, acts or omissions related to, regardless whether Rosenbauer's knowledge of the possibility of any such damage.

Without limitation of the generality of the preceding statements, Rosenbauer categorically disclaims any and all liability for property and personal injury, damages, penalties for lost revenue and/or profit, loss of chassis or products and associated pieces of equipment, the expense of substituting chassis and/or products, or the out of service expenses, resulting from damages and/or delays, that creates down time expenses and/or create economic losses, or any third party claims for damages.

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This warranty is in lieu of all other warranties, expressed or implied, and all other obligations or liabilities on our part. We neither assume nor authorize any person to assume for us any liability or make any alteration to this warranty in connection with the sale of our apparatus unless expressly given in writing by Rosenbauer.

NOTE: Surety bond, if required, will cover standard one year warranty period only and will not cover any extended warranties allowed by seller or other component manufacturers.

AERIAL GALVANIZING WARRANTY

Rosenbauer Aerials, LLC hereby declares the galvanized components shall be warranted for a period of twenty-five (25) years and includes the following coverage:

- The galvanized surfaces of the components shall be free from corrosion caused by dissimilar metals, adhesion, blistering or peeling.
- The galvanized surfaces of the components shall be free from any corrosion perforation.

Under this warranty Rosenbauer Aerials, LLC agrees to repair or refinish any galvanized surface that has been found to have a defect caused by defective manufacturing methods or galvanized material where there is no indication of abuse, neglect, unusual or other than normal service. Providing that such item or items are, at the option of Rosenbauer Aerials, LLC, made available for our inspection at our request, returned to our factory or other location designated by us with transportation prepaid within thirty days after the date of failure or within twenty five years from the date of delivery of the apparatus to the original purchaser, whichever occurs first. Inspection of damage must indicate the failure was attributed to a defect caused by defective manufacturing methods or galvanized material selection. Written authorization for repair or item replacement must be sought from Rosenbauer Aerials, LLC customer service prior to the repair or item replacement occurring.

Coverage Period
00 to 05 years = 100%
06 to 10 years = 50%
11 to 15 years = 25%
16 to 20 years = 10%
21 to 25 years = 5%

This warranty shall not apply to or cover:

- Normal maintenance services include cleaning and repair of surface corrosion caused by normal road salt/chemicals or debris contacting the components.
- Damage to the galvanized components caused by exposure to severe environmental or chemical conditions or acidic environment.
- Any item that has been repaired, replaced, or altered by a facility not approved in advance by Rosenbauer Aerials, LLC, or in a manner which, at Rosenbauer Aerials, LLC discretion, may adversely affect the safe operation or durability of the vehicle or item.

- Special, incidental, or consequential damages including, but not limited to, loss of time, inconvenience, loss of use, lost profits or transportation fees or charges to or from any facility.
- Any malfunction resulting from misuse, negligence, alteration, accident or lack of operational knowledge, lack of normal or required maintenance or adjustments, fire or acts of God.

This warranty is in lieu of all other warranties expressed or implied, and all other obligations or liabilities on our part. This warranty does not supersede the structural warranty. We neither assume nor authorize any person to assume for us any liability or make any alteration to this warranty in connection with the sale of our apparatus unless expressly given in writing by Rosenbauer Aerials, LLC, 870 S Borad St, Fremont NE 68025.

NOTE: Surety bond, if required, will cover the standard one-year warranty period only and will not cover any extended warranties allowed by seller or other component manufacturers.

EGRESS GALVANIZED & PAINTED

The fly section shall have a bolt-on egress section. The egress shall be galvanized and then painted Red.

LADDER BED

A heavy duty ladder bed shall provide support of the aerial in the travel position.

On the base section of the aerial device, a stainless steel scuff plate shall be installed where the aerial comes in contact with the travel support.

GALVANIZED OUTRIGGERS

The aerial outriggers assemblies, beam, outer jack tube, inner jack tube, jack cover plate, and jack pad shall be galvanized.

The outriggers shall be galvanized inside and out. The process shall eliminate the rusting, scratching or paint chips on the outriggers. The galvanizing process shall permeate the metal and shall not be an "over-coating only" on outside surfaces. The galvanized components shall lessen the potential for corrosion and eliminates the requirement for finish paint. The process shall negate any later requirement for touch-up paint or total repaint of the outrigger/stabilizer assemblies.

The galvanizing shall provide the steel outriggers with both barrier and cathodic protection from corrosion. The galvanizing process shall immerse the complete outrigger components in molten zinc. The galvanizing diffusion process shall allow the zinc to bond to the steel, at the molecular level. The galvanized zinc coating shall provide a barrier that shields the steel from the environment.

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OUTRIGGER GALVANIZING WARRANTY

Rosenbauer Aerials, LLC hereby declares the galvanized components shall be warranted for a period of twenty-five (25) years and includes the following coverage:

- The galvanized surfaces of the components shall be free from corrosion caused by dissimilar metals, adhesion, blistering or peeling.
- The galvanized surfaces of the components shall be free from any corrosion perforation.

Under this warranty Rosenbauer Aerials, LLC agrees to repair or refinish any galvanized surface that has been found to have a defect caused by defective manufacturing methods or galvanized material where there is no indication of abuse, neglect, unusual or other than normal service. Providing that such item or items are, at the option of Rosenbauer Aerials, LLC, made available for our inspection at our request, returned to our factory or other location designated by us with transportation prepaid within thirty days after the date of failure or within twenty five years from the date of delivery of the apparatus to the original purchaser, whichever occurs first. Inspection of damage must indicate the failure was attributed to a defect caused by defective manufacturing methods or galvanized material selection. Written authorization for repair or item replacement must be sought from Rosenbauer Aerials, LLC customer service prior to the repair or item replacement occurring.

Coverage Period
00 to 05 years = 100%
06 to 10 years = 50%
11 to 15 years = 25%
16 to 20 years = 10%
21 to 25 years = 5%

This warranty shall not apply to or cover:

- Normal maintenance services include cleaning and repair of surface corrosion caused by normal road salt/chemicals or debris contacting the components.
- Damage to the galvanized components caused by exposure to severe environmental or chemical conditions or acidic environment.
- Any item that has been repaired, replaced, or altered by a facility not approved in advance by Rosenbauer Aerials, LLC, or in a manner which, at Rosenbauer Aerials, LLC discretion, may adversely affect the safe operation or durability of the vehicle or item.
- Special, incidental, or consequential damages including, but not limited to, loss of time, inconvenience, loss of use, lost profits or transportation fees or charges to or from any facility.
- Any malfunction resulting from misuse, negligence, alteration, accident or lack of operational knowledge, lack of normal or required maintenance or adjustments, fire or acts of God.

This warranty is in lieu of all other warranties expressed or implied, and all other obligations or liabilities on our part. This warranty does not supersede the structural warranty. We neither assume nor authorize any person to

assume for us any liability or make any alteration to this warranty in connection with the sale of our apparatus unless expressly given in writing by Rosenbauer Aerials, LLC, 870 S Borad St, Fremont NE 68025.

NOTE: Surety bond, if required, will cover the standard one-year warranty period only and will not cover any extended warranties allowed by seller or other component manufacturers.

GALVANIZED TORQUE BOX

The torque box shall be hot dip galvanized inside and out. The galvanizing shall include the top and bottom and sides of the torque box, outrigger electrical compartment, and outrigger valve control compartment.

The torque box shall be totally hot dip galvanized. The galvanizing process shall not be an over-coating only to outside surfaces but shall permeate the metal. The galvanizing process shall prevent or greatly lessen rust and corrosion on the torque box and in areas between the torque box and chassis frame rails, as well as areas which cannot be reached when washing the unit and which cannot be visually inspected, and shall eliminate the need to finish paint the torque box.

The galvanizing process shall provide the steel torque box assembly with both barrier and cathodic protection from corrosion. The galvanizing process shall immerse the complete torque box component in molten zinc. The galvanizing diffusion process shall allow the zinc to bond to the steel, at the molecular level. The galvanized zinc coating shall provide a barrier that shields the steel from the environment.

TORQUE BOX GALVANIZING WARRANTY

Rosenbauer Aerials, LLC hereby declares the galvanized components shall be warranted for a period of twenty-five (25) years and includes the following coverage:

- The galvanized surfaces of the components shall be free from corrosion caused by dissimilar metals, adhesion, blistering or peeling.
- The galvanized surfaces of the components shall be free from any corrosion perforation.

Under this warranty Rosenbauer Aerials, LLC agrees to repair or refinish any galvanized surface that has been found to have a defect caused by defective manufacturing methods or galvanized material where there is no indication of abuse, neglect, unusual or other than normal service. Providing that such item or items are, at the option of Rosenbauer Aerials, LLC, made available for our inspection at our request, returned to our factory or other location designated by us with transportation prepaid within thirty days after the date of failure or within twenty five years from the date of delivery of the apparatus to the original purchaser, whichever occurs first. Inspection of damage must indicate the failure was attributed to a defect caused by defective manufacturing methods or galvanized material selection. Written authorization for repair or item replacement must be sought from Rosenbauer Aerials, LLC customer service prior to the repair or item replacement occurring.

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Coverage Period
00 to 05 years = 100%
06 to 10 years = 50%
11 to 15 years = 25%
16 to 20 years = 10%
21 to 25 years = 5%

This warranty shall not apply to or cover:

- Normal maintenance services include cleaning and repair of surface corrosion caused by normal road salt/chemicals or debris contacting the components.
- Damage to the galvanized components caused by exposure to severe environmental or chemical conditions or acidic environment.
- Any item that has been repaired, replaced, or altered by a facility not approved in advance by Rosenbauer Aerials, LLC, or in a manner which, at Rosenbauer Aerials, LLC discretion, may adversely affect the safe operation or durability of the vehicle or item.
- Special, incidental, or consequential damages including, but not limited to, loss of time, inconvenience, loss of use, lost profits or transportation fees or charges to or from any facility.
- Any malfunction resulting from misuse, negligence, alteration, accident or lack of operational knowledge, lack of normal or required maintenance or adjustments, fire or acts of God.

This warranty is in lieu of all other warranties expressed or implied, and all other obligations or liabilities on our part. This warranty does not supersede the structural warranty. We neither assume nor authorize any person to assume for us any liability or make any alteration to this warranty in connection with the sale of our apparatus unless expressly given in writing by Rosenbauer Aerials, LLC, 870 S Borad St, Fremont NE 68025.

NOTE: Surety bond, if required, will cover the standard one-year warranty period only and will not cover any extended warranties allowed by seller or other component manufacturers.

RUNG COVERS

For ease of climbing the ladder rungs shall be equally spaced on a maximum 14" centers and minimum 11.75" centers and shall have a skid-resistant surface or covering.

For added safety, skid-resistant rung covering shall be provided. The rung covering shall not twist and shall cover at least 60 percent of the climbing area of each rung.

Round rungs shall be provided and shall have a minimum outside diameter of 1-1/4", including the skid-resistant surface or covering.

For maximum strength, the minimum design load for each rung shall be 500lb distributed over a 3-1/2" wide area at the center of the length of the rung with the rung oriented in its weakest position.

Each aerial rung shall be covered with one (1) continuous piece of a protective, Hi-Traction safety walk non-skid material. There shall be neon glowing stripping to run down the center of the rung cover on all of the sections.

WEAR PADS

The aerial wear pads shall be "PET" type and shall incorporate semi-crystalline hardness, rigidity, mechanical strength with exceptional sliding properties and very low sliding wear. The pads shall be used between the telescoping sections for maximum weight distribution, strength, and smooth operation. Side wear pads shall be nylatron GSM, stainless steel adjustment screws shall be provided on the side wear pads to permit proper side clearance.

SIGN PANEL BRACKETS

The aerial manufacturer shall supply aerial sign brackets welded to the base section of the aerial. These brackets shall be located on both sides of the base section.

AERIAL SIGN PANELS

Sign panels shall be provided one on each side of the base section that are 16" high x 120".
Painted, Match Ladder Sections
Sign Panels shall be primed with two (2) coats of PPG or equal lead free primer and then shall be sprayed with one (1) coat of color using PPG paint. The color of the sign panels shall match the color of the ladder sections.

CRADLE COVER BRACKETS

Brackets shall be installed on the cradle of the aerial for the installation of the cover. Design shall be done by the final OEM.

AERIAL LIFT CYLINDER PROTECTIVE COVERS

There shall be aluminum protective covers provided, one over each of the two (2) aerial lift cylinder assemblies. The covers shall be constructed from .125 thick, smooth aluminum material and be designed to prevent damage to the lift cylinders due to impact from environmental factors. The protective covers shall be bolted in place using stainless steel fasteners and easily removable for service to the aerial lift cylinders. Lubrication points shall be accessible without the need to remove the protective covers. In addition to the added component protection, the lift cylinder covers shall provide added fire fighter safety from lift cylinder pinch point areas and superior aesthetic appearance to the aerial device.

PAINTED, MATCH LADDER SECTIONS

Cylinder covers shall be primed with two (2) coats of PPG or equal lead free primer and then shall be sprayed with one (1) coat of color using PPG paint. The color of the sign panels shall match the ladder sections.
Base Markings, Indicate Extension Position, Red

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EXTENSION MARKINGS

To improve safety and to provide the operator with vital information, extension markings shall be provided. For best visibility the base section of the ladder shall include markings on the outside of the driver side handrail and the inside of the officer side handrail to indicate extension position of the ladder in operation. The markings will be RED reflective numbers and mark every 10 feet with a hash mark between the numbers.

ROOF LADDER BRACKETS BASE

There shall be welded plates and bolt on roof ladder mounting brackets installed on the outside of the base section.

ROOF LADDER LOCATION

Install roof ladder on driver side of the base section.

GROUND LADDER

A Duo Safety Model 775-A, 12 foot aluminum roof ladder with folding steel roof hooks on one end and feet on the other end shall be provided on the outside of the base section. The ladder shall meet or exceed applicable NFPA standards. It shall be standard width 19" Duo-Safety roof ladder.

ALUMINUM BOX

An aluminum box mounted on the outside of the base section of the aerial ladder for storage of a rescue basket or loose equipment. The box shall have a hinged cover with latches to secure the cover.

RESCUE BASKET LOCATION

Install on officer side of the base section.

Painted, Match Ladder Sections

Aluminum box shall be primed with two (2) coats of PPG or equal lead free primer and then shall be sprayed with one (1) coat of color using PPG paint. The color of the aluminum box shall match the ladder sections.

RESCUE BASKET

One (1) Junkins Model JSA-200 shall be supplied on the base section of the aerial.

The JSA-200 is buitl with yellow high-density polyethylene shell, supported by a stainless steel outer rail, permanently attached with stainless steel semi-tubular rivets. Features molded runners, fully exposed outer rail,

non-absorbent foam pad secured to stretcher and four patient restraint straps. Ideal for unusually rugged rescue situations such as industrial, mining or construction. The dimensions are 84-1/2" L x 24" W x 7-1/2" H.

FOLDING STEPS

The ladder shall be equipped with two (2) folding steps, one on each side of the ladder at the upper end of the fly section. These steps are spring loaded to hold in the stowed position. Once lowered, steps lock in the lowered position for use.

When steps are in the use position there shall be approximately a 7-1/2" diameter circular space for a hose to be placed on the rungs. The folding steps shall comply to applicable standards of NFPA #1900.

ROPE RESCUE EYELETS

Two (2) rope rescue eyelets shall be installed one on each side at the tip of the fly section, each anchor being rated at 250 pounds, for a total combined weight rating of 500 pounds.

AXE & PIKE POLE WELDMENTS

Welded-in mounting plates shall be installed for an axe mounting and a pike pole mounting inside of the fly section.

PIKE POLE BRACKETS: FLY

Bolt on mounting brackets for a pike pole shall be installed in the tip of fly section.

PIKE POLE LOCATION

Install on driver side of the fly section.

PIKE POLE

One (1) 12' long fiberglass pike pole shall be provided in the tip of the fly section.

AERIAL ROTATION SYSTEM

The rotation system shall be powered by a hydraulic motor to drive an eccentric planetary gearbox, capable of field adjustment, to rotate the aerial.

A 43.6" pitch diameter external tooth bearing shall be provided for 360 degree continuous rotation in either direction. As turntable bearing bolts are required to be checked and re-torqued at regular intervals, to make this task relatively simple, the ability to re-torque all bolts from the top of the turntable is mandatory.

The bearing shall be bolted to the bearing base plate using sixty (60) 5/8" SAE Grade 8 bolts and shall also be bolted to the turntable using fifty five (55) 5/8" SAE Grade 8 bolts.

A hydraulic release spring applied brake shall provide a positive lock for the rotation.

Two [2] pressure relief valves shall control the force of the rotation to protect the aerial from excessive side loads.

CONTROL PANEL LANGUAGE

All panels including main operations stations, outrigger stations, warning labels and load charts shall be written in English.

COMMAND PEDESTAL

The Command Pedestal is monitored by programmable logic control. The programmable logic control operating system shall use absolute encoders for elevation and rotation to be able to monitor the following functions continuously to offer maximum safety. The monitored aerial control functions are as follows:

The turntable shall have a stand-up Command Pedestal. The following items shall appear on the panel at the main control station:

- One (1) aerial LCS Screen
- One (1) emergency stop button
- One (1) joystick controller
- Monitor switches

The system shall be capable of performing simultaneous aerial functions.

The aerial shall be programed so it shall not contact the cab or body, or any equipment as identified during the build process. Programmable cab and body collision protection shall alert the operator with aerial operation indicators on the LCS screen showing what function is inoperable. Each individual indicator shall illuminate when the corresponding aerial function(s) (right rotation, left rotation or lowering) are disabled. All three indicators shall illuminate when the E-STOP is pushed, or the outrigger interlock is active.

The aerial shall be able to be rotated 360 degrees over the short-jacked side of the truck. A programmable logic control system allows the aerial to rotate over the short-jacked outriggers while maintaining safe operating parameters. An indicator shall appear on all the smart screens to warn the operator that one or more outriggers have been short set. An operational pie chart shall also be on the smart screen to indicate the safe operating parameters depending on the short set outrigger. In the event the vehicle has been set up with one or more of the outriggers short set, any attempted operation outside the predetermined parameters shall automatically ramp the operation to a feather-soft stop. A corresponding aerial operation indicator shall appear on the screen to

alert the operator of the disabled function. The operator shall be able to return the aerial back to the safe operating parameters without the use of overrides.

Smart Screen

One (1) aerial smart screen shall be installed at the main control station and outrigger operation station. The screen shall consist of multiple pages. All screens shall have the same information.

The home page on the screen shall display the following information:

- Outrigger placement indicator: shows the operator how each outrigger is set up and gives you information on what areas are able to be worked in safely.
- Maintenance page button: a button on the side of the screen that is the only way to navigate to the maintenance page.
- Tip lights button (Optional): a button on the side of the screen shall turn all the tip lights on and off.
- Rung lights button (Optional): a button on the side of the screen shall turn all the rung lights on and off.
- Tracking lights button (Optional): a button on the side of the screen shall turn all the tracking lights and the panel lights on and off.
- Mayday horn button: a button on the side of the screen to sound the mayday horn.
- Outrigger set indicator: shows the operator when it is safe to operate the aerial.
- Aerial operation indicator: shows the operator where the aerial is safe to operate.
- Aerial placement view: shows the operator where the aerial is at in the operating zone.
- Marker lights button (Optional): a button on the side of the screen to activate marker lights.
- Load chart button: a button on the side of the screen to navigate to the load chart page.
- Radio remote enable button (Optional): a button on the side of the screen to activate the wireless radio remote.
- Auto bedding button: a button on the side of the screen indicating the ladder can now be automatically stowed. By pushing a momentary button on the side of the screen the aerial shall rotate, retract and lower into the bed while avoiding cab and body collision.
- Aerial high speed button: a button on the side of the screen to control the speed at which the aerial runs.

The load chart page shall display the following information:

- Aerial load chart: shows capabilities of the aerial apparatus for all reach and elevation positions.

- Aerial max flow and monitor restriction: gives you the max rating of flow for the aerial apparatus. The monitor restriction fives you the angle that you can work to from the centerline of the aerial apparatus.
- Mayday horn button: a button on the side of the screen that allows you to sound the mayday horn.
- Aerial indicator: shows the position of the aerial apparatus.
- Return button: a button on the side of the screen that allows you to return to the previous page.

The maintenance page shall display the following information:

- Engine hours: shows the total engine hours.
- Water pump hours: shows the total water pump hours.
- Setting button: a button on the side of the screen that allows you to navigate to the settings page.
- Engine button: a button on the side of the screen that allows you to navigate to the engine page.
- Aerial information button: a button on the side of the screen that allows you to navigate to the aerial information page.
- Service button: a button on the side of the screen that allows you to navigate to the service page.
- Power cycle button: a button on the side of the screen that allows you to reset power to the aerial PDS switch.
- Mayday horn button: a button on the side of the screen that allows you to sound the mayday horn.
- Return button: a button on the side of the screen that allows you to return to the previous page.

The settings page shall display the following information:

- Language button: a button on the side of the screen that allows you to change the language being used on the screens.
- Date & time button: a button on the side of the screen that allows you to adjust the date and time.
- Display mode button: a button on the side of the screen that allows you to change the display from light to dark.
- Units mode button: a button on the side of the screen that allows you to change the units display on the screens.
- License button: a button on the side of the screen that shows you the version of program your apparatus has.
- Return button: a button on the side of the screen that allows you to return to the previous page.

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The engine page shall display the following information:

- Engine RPM: shows the current engine RPM's.
- Battery voltage: shows how charged the battery is.
- Engine coolant temperature: shows you what your engine coolant temperature of the truck is running at.
- Engine oil level: shows you what oil level your engine is at. Green indicator states it is good to operate. Yellow indicator states caution, alerting operator it is okay to operate but close to low. Red indicator states warning, alerting operator that engine is low on oil and should not be operated.
- Engine oil pressure: shows you what pressure (PSI) the truck or turntable is running at.
- Def level: shows you how much DEF is left in the truck.
- Fuel level: shows you how much fuel is in the truck.
- Return Button: a button on the side of the screen that allows you to return to the previous page.

The aerial information page shall display the following information:

- High pressure dirty filter indicator: is to alert the operator that high pressure filter is dirty and needs to be changed.
- Outrigger hydraulic diverter valve indicator: shows operator when outrigger diverter valve is in use.
- Aerial hydraulic pressure indicator: shows you what pressure (PSI) the aerial is running at the "Turntable" location.
- Aerial hydraulic pump system pressure: shows you what pressure (PSI) the aerial is running at.
- Hydraulic temperature indicator: shows you what your hydraulic temperature of the aerial oil is at.
- Aerial hydraulic diverter valve indicator: shows operator when aerial diverter valve is in use.
- Low pressure dirty filter indicator: is to alert the operator that low pressure filter is dirty and needs to be changed.
- Return Button: a button on the side of the screen that allows you to return to the previous page.

The service page shall display the following information:

- This page can only be accessed with a code given by OEM. This is in place for OEM protection of the apparatus.

The warning screen page shall display the following information:

- This is an informational screen that gives you all your messaging codes for the apparatus. All messages are saved to this screen until cleared by an operator.

The warning lights page shall display the following information:

- Lightbar clear lights button: a button on the side of the screen that turns the warning light bar to clear lights.
- Lightbar red lights button: a button on the side of the screen that turns the warning light bar to red lights.
- Master warning lights button: a button on the side of the screen that turns on all master warning lights.
- Front warning lights button: a button on the side of the screen that turns on all front warning lights.
- Side warning lights button: a button on the side of the screen that turns on all side warning lights.
- Rear warning lights button: a button on the side of the screen that turns on all rear warning lights.
- Aerial marker lights (Optional): a button on the side of the screen that turns on the aerial marker lights.
- Mayday horn button: a button on the side of the screen that allows you to sound the mayday horn.

The outrigger screen page shall display the following information:

- Aerial view button: a button on the side of the screen that can be pushed to view the aerial position side view (Also available inside the cab).
- Front to back slope indicator: displays front to back leveling of the truck.
- Side to side slope indicator: displays side to side leveling of the truck.
- Outrigger configuration indicator: shows the configuration for outriggers.
- Outrigger enable button: a button on the side of the screen that allows the outriggers to be operated.
- All jacks up button (Optional): a button on the side of the screen that will automatically raise to the stowed position.
- Outrigger auto leveling (Optional): a button on the side of the screen that is used to automatically level the truck front to back and side to side.
- Mayday horn button: a button on the side of the screen that allows you to sound the mayday horn.

The scene lights page shall display the following information:

- All scene lights button: a button on the side of the screen that turns on all scene lights.

- Front scene lights button: a button on the side of the screen that turns on all front scene lights.
- Left scene lights button: a button on the side of the screen that turns on all left scene lights.
- Right scene lights button: a button on the side of the screen that turns on all right scene lights.
- Rear scene lights button: a button on the side of the screen that turns on all rear scene lights.
- Tip lights button (Optional): a button on the side of the screen that turns on tip lights.
- Rung lights button (Optional): a button on the side of the screen that turns on rung lights.
- Tracking light button (Optional): a button on the side of the screen that turns on tracking lights.
- Mayday horn button: a button on the side of the screen that allows you to sound the mayday horn.

The chassis page shall display the following information:

- Aerial PTO button: a button on the side of the screen that must be turned on before the outriggers can be operated.
- High idle button: a button on the side of the screen that will enable high idle if water pump is not engaged.
- Engine start/stop button: a button on the side of the screen that will start/stop the engine.
- Mayday horn button: a button on the side of the screen that allows you to sound the mayday horn.

Aerial Speed

The aerials speed functions are proportionally regulated by the elevation and extension of the aerial. The aerial shall have proportional slow down on full extension and full retraction. The elevation system shall proportionally reduce the speed at sixty (60) degrees and ramp to off at full elevation. Lowering shall proportionally reduce the speed at three (3) degrees and ramp to off at minus twelve (-12) degrees. When the aerial is fully retracted the aerial speed shall be 20 percent faster than when fully extended.

The controls are also proportionally regulated during rotation, extension and elevation operations. The aerial shall smoothly ramp up to full operation speed to prevent jerking of the aerial. Should the operator release the controller during any of the three operations, the aerial shall ramp to a smooth soft stop.

Joystick Controller

A single joystick controller shall control aerial left/right, extend/retract and raise/lower functions. The joystick shall operate with the natural movement of the operator's hand for rotation and elevation. There shall be a thumb lever on the joystick to operate extension and retraction. The joystick shall have built in ramp up and ramp down capabilities.

The safety interlock trigger on the back side of the joystick must be engaged to operate all aerial functions. With the trigger activated the RPMs shall increase to 1,250 RPM and maintain there for two (2) seconds after returning to the neutral position.

Lighting

LED Lights shall illuminate the main control station and turntable work area for added operator visibility and safety.

PEDESTAL LOCATION

The operators control pedestal shall be installed on the driver's side of the turntable.

GAUGES & VISUAL DISPLAY UNITS

All gauges and visual display on the aerial apparatuses at the operating positions shall readout in the following measurements:

- Distances shall be displayed in feet and inches
- Loads shall be displayed in pounds
- Flows shall be displayed in gallons/psi
- Engine information shall be displayed in F/PSI

PUMP PANEL CONTROLS

Three (3) remote monitor switch controls shall be installed at the pump panel control station connected through the collector ring swivel. The three (3) toggle switches for the monitorshall allow the operator to:

1. Shape and stream (fog or straight stream)
2. Monitor up and down operation
3. Monitor right and left operation

These controls shall be in addition to the monitor switches located at the turntable control console and the tip of the fly section switches located on the retractable waterway pan.

TIP CONTROLS

The ladder shall be capable of operation at the tip of the fly section with creeper controls. Operation of the fly section controls shall be enabled only when the turntable operator has engaged a momentary switch at the turntable. Three (3) toggle switches will be used to activate the aerial functions, raise/lower, extend/retract, and rotate, at 30% of the rated speed. A toe guard shall be installed at the front of the aerial to prevent the foot from slipping in between the rails as per NFPA.

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WIRELESS RADIO REMOTE

There shall be a radio receiver for the aerial, monitor and outriggers controls supplied at the aerial control panel and powered by the chassis 12-volt electrical system. The radio receiver shall have proportional outputs to drive the 12-volt electric proportional aerial and outrigger control hydraulic valves, as well as the on/off output for monitor control.

The radio remote control transmitter/receiver shall be powered by two AA batteries and shall operate approximately 300 feet from the truck, no tether shall be required. The transmitter / receiver shall have a belt strap for comfortable operations. The remote shall control following:

Aerial Controls	**Monitor Controls**	**Outrigger Controls**
Raise & Lower	Stream & Shape	Extend & Retract
Extend & Retract	Up & Down	Raise & Lower
Left & Right Rotation	Left & Right Rotation	

The following items shall be included on the remote:

Enable Switch: shall allow the remote to talk to the transmitter located at the main control station. Hitting the momentary enable switch shall allow the operator to begin operations of any function on the remote. If the operator does not choose a function after engaging the enable switch the remote will cease communication with the transmitter after 5 seconds. This switch serves as a dead man switch to the controls on the remote.

Full / Half Speed Switch: there shall be a turtle and rabbit indicator on the remote to allow the operator to run the aerial operations at full (rabbit) or half (turtle) speed.

Air Horn Switch: shall allow the operator to engage the air horn on the truck (if there is one).

Emergency Stop Button: if enabled, shall lock out all operations of all controls from every operator station. This serves as a safety back up in case the operator gets the aerial into an unsafe situation. The operator will have to disengage this switch before being able to operate the aerial from any control station.

Auto Bed Switch: is a momentary switch that when engaged will rotate, retract and lower the aerial into the bedded position while avoiding cab and body collision. Once the aerial is in the 20/20/20 zone (within 20 degrees left or right of the ladder bed, below 20 degrees elevation and 20 percent retraction remaining) the ladder can now be automatically stowed.

LCD Display: shall give the operator continuous readings of the aerial information. This information shall include:

- Aerial rotation: as the aerial is rotated 180 degrees left and right of the ladder bed, positive and negative numbers shall indicate how far right or left the aerial is rotated.

- Aerial height: as the aerial extends and elevates the distance from the top of the handrail to the ground shall be indicated on the screen.

- Aerial reach: as the aerial extends the reach shall be indicated on the screen from the tip of the aerial to the center of the turntable.

- Aerial elevation: as the aerial is elevated the elevation angle is indicated.

- Aerial extension remaining: as the aerial extends the amount of feet remaining to extend shall be indicated.

- Operational Envelop Disabled: shall be indicated on the screen if the left, right or down function is disabled.

- Overload Condition: shall display on the screen to alert the operator.

- Outrigger Not Set: is displayed if the outriggers still need to be set.

- Outrigger Not Extended: when any outrigger is not fully extended and the jack is not supporting some of the truck weight the operator shall be notified of the exact outrigger that needs to be adjusted.

- Breathing Air (optional): shall be reported if the breathing air is low or off.

TURNTABLE

The turntable shall be two sided (left and rear) with the corners cut to allow for personnel to enter and exit the turntable. The turntable walking area shall be covered with NFPA #1901 compliant skid resistant black Line-X, with a 2-1/2" lip. Two (2) 42" high, slip resistant handrails capable of withstanding a 225 pound force applied from any direction shall be installed on the turntable.

HANDRAIL STEEL LINE-X

The handrails shall be steel and coated in black line-x.

HANDRAIL ORIENTATION

The turntable handrails shall be bent outwards to allow for maximum room. A crossmember shall be installed roughly halfway up the handrail. The handrail shall have an opening that allows for equipment to pass through from the ground to the aerial.

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HARNESS STORAGE BOX

There shall be a box installed on the back of the center handrail for belt storage. The box shall have be hinged and approximately be 8-1/2” x 33-3/8” x 10-1/2”. The box shall be line-x. There shall be two dividers installed to make three "stalls". The stalls shall be labeled as follows: LARGE | X-LARGE | X-LARGE.

TURNTABLE MAN SAVER BARS

Two (2) Fire Research ManSaver bars shall be installed on the left and right side of the turntable. The safety bars shall lift either upward or inward to open, and be spring loaded to automatically return to the horizontal closed position. The safety bar assembly shall be made of aluminum and stainless steel.

MANSAVER BAR COLOR

The mansaver bar vinyl cover shall be yellow.

TURNTABLE FINISH

The aerial control console will be constructed from smooth aluminum and Line-X black. The back of the control panel will have one (1) full hinged door. The front of the control panel will have one (1) 8" x 8" hinged door. These doors are provided for maintenance and emergency operation of the aerial.

CONTROL STAND LID

There shall be a lid installed on the command pedestal to give extra protection to the screen and joystick.

TURNTABLE LID DOOR AJAR LIGHT

The cover of the turntable control console shall be designed to indicate when the lid is open. The light will be connected to the door ajar/outrigger extended light in the cab.

AIR HORN

A momentary button shall be provided for controlling the vehicle's air horn within Rosenbauer Aerials smart screens.

TORQUE BOX

The torque box connecting the turntable to the outriggers shall provide the rigidity needed for the aerial to be operated at -12 degrees to a +75 degrees elevation and full extension. The dimensions of the torque box will be unique to the truck and based upon customer requested specifications and engineering stability requirements. The back of the torque box shall be open for the option of ladder storage.

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TOW EYES

Two (2) tow eye mounts shall be installed on the rear of the torque box.

OUTRIGGER COMPONENTS

The aerial device outriggers and stabilizers shall be designed to function with the Smart Aerial operational components. The system shall have a pad that pivots left-to-right and front-to-rear.

Extension Beams

The extension beams shall entirely enclose the extension cylinders to prevent damage to the rods and hoses. Each outrigger shall be controlled with an independent controller which can extend and lower the outrigger at the same time or raise and retract the outrigger at the same time.

A double box design shall enclose the jack cylinders completely to protect the rods from damage that could result from exterior circumstances.

Jack Cylinders

The jack cylinders shall have pilot operated check valves for both the raised and lowered positions. Each jack tube shall be drilled for mechanical pin locks for a safety backup.

The outrigger jack cylinders shall be mounted so they can be removed from the top of the outrigger jack tube. Jack cylinders that are removed from the bottom of the outrigger jack tube will not be accepted.

Outrigger Deployment Alarm and Warning System

The outrigger deployment alarm, of not less than 87 DBA, shall sound at all times while the outrigger master switch is in the on position and stops sounding only when the outrigger switch is turned off. The audible alarm shall warn personnel that outrigger movement is possible at any time the switch is on.

Safety Features

The outrigger system provides the following safety features:

- A cradle interlock system shall be provided, to prevent the lifting of the aerial from the nested position until the operator has positions all the stabilizers in a load supporting configuration.
- There shall be a system on the truck that continually monitors the weight and balance on the truck and how that effects the associated operating parameter. This system allows operators to set up the truck up in a short-jacked position. The operator shall be allowed to operate the full 180 degrees off of the short-jacked side of the truck within the safe operating parameters without the need of a second operator. Operators shall be able to identify on the screen what quadrant each outrigger is set in as well as the associated safe operating parameters they are in.
- The outrigger not extended indicator on the screen shall have a warning indicator flashing if one or more outriggers has not been set.

- The monitoring system on the truck shall be able to identify if two or more adjacent outriggers come off the ground and shut down the current aerial operation. The monitoring system shall then only allow the operator to adjust the truck back into the safe operating parameters.

Lighting

A Whelen V-Series, model 5V3R, shall be mounted to the inside of the vertical outrigger jack beam. The warning light shall consist of 12 red Super-LED's installed on a V-light PC board with a TIR V-light reflector. The flashing lights shall alert personnel on either side of the outrigger of it's location. The V-light PC board shall have four white Super-LED's installed below that work independently as the ground illumination light. The lights shall activate with the master switch.

Outrigger and Stabilizer Specifications

The specified outriggers and torque box system shall provide a 1-1/2 to 1 stability safety factor when the aerial is in any operating position.

The stability requirements shall be met by the apparatus on which the aerial device is mounted when that apparatus is in a service-ready condition but with all normally removable items such as water, hose, ground ladders, and loose equipment removed.

The aerial device shall be capable of sustaining a static load 1-1/3 times its rated capacity in every position in which the aerial device can be placed when the apparatus is on a slope of 5 degrees downward in the direction most likely to cause overturning.

All outriggers and stabilizers that protrude beyond the body of the apparatus shall be striped or painted with reflective material so as to indicate a hazard or obstruction. Each outrigger or stabilizer shall also be provided with one or more red warning light(s) located either on the stabilizer or in the body panel visible on the side of the apparatus where the stabilizer is located.

Cradle Interlock System

A cradle interlock system shall be provided, to prevent the lifting of the aerial from the nested position until the operator has positions all the stabilizers in a load supporting configuration. A switch shall be installed at the cradle, to prevent operations of the stabilizers once the aerial has been elevated from the nested position.

Outrigger Control Panel

The outrigger control panel shall have a switch to energize the hydraulic system for outrigger functions. The control panel on the driver side shall include LCS logic that will display the same information as the other LCS screens on the aerial, no buttons shall be active that will allow for aerial operation (i.e. auto bedding). There shall be two (2) switches not located on the screen at the rear of the truck.

- Manual override system to override the outrigger/aerial interlock system.
- One (1) switch for the emergency power unit.

Outriggers, (2) Front Out and Down, (2) Rear Out and Down

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OUTRIGGERS

Two (2) front and two (2) rear out and down outriggers shall be provided on the apparatus. The rear outriggers shall be located directly behind the rear axle and the front outriggers shall be located front of the torque box connected to the frame.

The outrigger assemblies shall consist of the following components:

1. A 2" inside diameter cylinder with a 1.125" outside diameter rod shall extend and retract the outrigger 48".
2. A 5" inside diameter cylinder with a 3" outside diameter rod shall raise and lower each jack tube a distance of 22".

The total width from the center of pivot pin to center of pivot pin when the outriggers are fully extended shall be: 15' 6".

SHORT JACKING

The aerial device shall be able to be operated a full 360 degrees while any outrigger is short set. As the outriggers are set further out the operating parameters are adjusted to allow for more aerial operations. The outriggers shall be monitored and operations shall be displayed when the outriggers are in the following quadrants 25% - 49%, 50% - 74%, 75% - 95% and 96% - 100%. An operational graph shall be displayed outlaying the operational capabilities of the aerial within each quadrant. The outrigger along with the load on the aerial will continually be monitored so that the aerial is always within safe operating parameters. Devices that do not allow the aerial to operate 360 degrees while the truck is short jacked shall not be accepted, no exception.

PROPORTIONAL ELECTRIC OUTRIGGER CONTROLS

The aerial shall be equipped with four (4) out and down outriggers with proportionally control the electric outrigger valves activated by momentary rocker switches. The proportionally controlled outriggers shall allow the outrigger to deploy at full speed up until the very end of positioning at which time the valve shall back off and allow the outrigger to come to a smooth soft stop. The main controls shall be located at the rear and to the outside of the truck. The location shall give the operator a full view and control of each outrigger.

AUTOMATIC SELF-LEVELING

The apparatus shall be equipped with an automatic self-leveling system for four (4) outriggers. The system shall operate as follows:

3. A button shall be incorporated into the smart screen to be activate self-leveling
4. The operator will then need to manually extend the outriggers and manually lower the jacks until they touch the ground.

5. Once the outriggers are extended and the last outrigger jack touches the ground, the automatic jack leveling system will level the truck.

ALL JACKS UP SWITCH

There shall be a switch on the smart screen to raise all of the outrigger jacks up at the same time. Once all aerial operations are complete, the safety pins are pulled; activate the all jacks up button to stow the outrigger jacks. All the jacks will raise up until they are in their stowed position. The operator shall then manually retract the outriggers to the stowed position.

OUTRIGGER PLATES

An auxiliary outrigger plate shall be provided for each outrigger. The units shall be 2' x 2' in size, one for each outrigger made from 1/2" aluminum with a handle for easy movement.

OUTRIGGER STOWED INDICATOR LIGHT

An outrigger stowed indicator light will be provided in the cab. The light shall indicate if one or more outriggers are not fully retracted and fully raised. The light will be connected to the door ajar light in the cab.

PERFORMANCE CAPABILITIES

The following are aerial ladder and water capabilities for the operation of this unit in the unsupported configuration with the truck level, the outriggers fully extended and lowered to relieve the chassis weight from the axles. The capabilities are based upon 360-degree continuous rotation and up to full extension.

The following capabilities are based upon continuous 360-degree rotation and up to full extension. The aerial ladder and water system shall be designed to permit the following flows:

1,250 GPM: 45-degrees to the side of the ladder centerline
1,250 GPM: 135-degrees down from a line parallel to the centerline

Elevation	Capabilities DRY		Capabilities WET	
	Tip Load	Evenly Distributed	Tip Load	Evenly Distributed
-10 degrees to 30 degrees	500 lbs	1,000 lbs	500 lbs	750 lbs
30 degrees to 45 degrees	500 lbs	1,500 lbs	500 lbs	750 lbs
45 degrees to 60 degrees	750 lbs	2,000 lbs	500 lbs	1,500 lbs
60 degrees to 75 degrees	1,000 lbs	2,500 lbs	500 lbs	2,000 lbs

The ladder meets the 2:1 safety factor requirement for material based on the weight of the ladder plus a 500 pound live load at the tip of the aerial, flowing 1,250 GPM of water at 45 degrees to the side of the aerial at zero degrees elevation.

If a monitor is ordered that can elevate above 0 degrees the tip load shall be reduced to 250 lbs.

SWIVEL

There shall be a 4" waterway swivel with 360 degrees continuous rotation. It shall be installed through the turntable and torque box to connect the aerial waterway plumbing from the water pump to the aerial. The hydraulic oil for the aerial shall be directed through a two-port hydraulic swivel with 360 degrees continuous rotation.

The swivel will be a modular three component swivel. It shall have a separate electrical swivel, hydraulic swivel and waterway swivel that when connected shall form one component. The three individual swivels shall not affect the operations of any other part of the swivel. Individual replacement of each individual portion of the swivel shall be capable.

WATERWAY

A aerial waterway shall be provided from the base of the aerial device to the tip of the fly section. The aerial telescoping aluminum waterway shall be fabricated of aluminum and shall have four (4) tubes as follows:

1. 5" outside diameter at the base section
2. 4-1/2" outside diameter at the lower mid-section,
3. 4" outside diameter at the upper mid-section
4. 3.5" outside diameter at the fly section

WATERWAY COLOR

The waterway base tube color shall be painted to match the ladder sections. The inner telescopic tubes shall be left black.

RETRACTABLE WATERPAN

The monitor connected to a waterpan and shall be retractable allowing the monitor to be secured at the tip of the fly section for water tower operations or at the end of the next lower section for rescue operations. When the aerial is fully retracted the monitor, lock shall be quickly movable and easily accessible at the tip of the aerial. To improve safety of the truck and on the fire scene the smart system shall be able to sense and indicate on the screen the position the waterpan is in. Should the smart system lose the sensor an icon on the screen shall alert the operator and restrict operations until the waterpan is securely latched.

The rescue mode feature shall allow the tip of the fly section to be placed very close to the edge of a building or window minimizing the working and access heights on and off the ladder tip without worrying about the monitor being damaged.

Monitor controls shall be located on the retractable waterway pan and on the aerial control console. The retractable waterway pan electrical cable shall be guided by e-chain for protection of the cable when repositioning the monitor from the fly section to the next lower section. No manual hand plugs, external reels, or coiled self-retracting cable shall be needed. All electrical connections shall be directly connected to the monitor.

ELECTRICALLY OPERATED BUTTERFLY VALVE

An Akron 4" electric butterfly valve, style 7940, shall be installed below the swivel. The valve shall be controlled through a LCS screen at the pump panel in addition to all the LCS screens specified.

An electrically driven worm gear rotates a gear sector for smooth and easy operation with no switches inside the gear actuator to malfunction. The speed of the valve opening and closing is preset to comply with the current NFPA 1901 Standard. The valve will operate on a 12-volt apparatus electrical systems. It has a manual override with the gear driven ratio of 64:1.

MONITOR

One (1) Style 3480 StreamMaster™ II mid-range monitor shall be supplied on the aerial. These firefighting monitors have a unique waterway design that provide balanced forces on the outlet and reduced friction for the stream resulting in exceptional performance over a wide range of flows in a compact configuration. The onboard, fully sealed IP 67 CAN control system features “plug and play” installation with built-in wireless capability and a USB port for quick software updates in the field. The 355 degree rotation and 165 degree elevation range can be configured for deck or aerial applications making this high performance compact monitor truly universal.

Three (3) toggle switches shall be located at the turntable aerial control stand and at the tip of the aerial. The switches will control the raise/lower, stream/shape, and left/right functions of the monitor. The controls at the aerial control stand will override the controls at the tip of the aerial.

NOZZLE

An Akron Brass 5177 Akromatic 1250 gpm, electric combination fog and straight stream master nozzle with automatic flow mechanism shall be supplied. The nozzle shall be constructed of durable, lightweight Pyrolite and shall have electric pattern section from straight stream to wide fog controlled by a 12 volt motor and linear ball screw, a manual override pattern control knob, built-in stream shaper, and 3.5" NH swivel.

STACKED TIPS

One (1) set of Akron #2499 straight bore tips shall be provided for the monitor as follows:

6. One (1) 2"

7. One (1) 1-3/4
8. One (1) 1-1/2"
9. One (1) 1-3/8"
10. One (1) 3-1/2" female to 2-1/2" male NH adapter
11. One (1) 3-1/2" NH male threaded base mounting bracket.

STREAM SHAPER

An Akron Brass item 34854003 Mini Stream Shaper shall be shipped loose in the cab. It shall be constructed of Pyrolite, have a 3.5" NH knurled female inlet, a 3.5" NH male outlet, full length offset extruded vanes for stream shaping, shall not exceed 4" in length, or 2 lbs. in weight.

PRECONNECT

One (1) 4" handwheel operated butterfly valve shall be installed between the end of the waterway and the monitor. The butterfly valve shall direct water flow from the waterway to the 2-1/2" pre-connect discharge. A 2-1/2" quarter turn ball valve shall be installed ahead of the 2-1/2" pre-connect discharge. The 2-1/2" pre-connect discharge shall have a NH male thread with a 2-1/2" female to 1-1/2" NH male thread and shall be mounted on the retractable waterway pan. One (1) 1-1/2" cap and chain shall be supplied with pre-connect.

2.5" RELIEF VALVE

A 2.5” relief valve shall be installed above the turntable.

RELIEF VALVE & DRAIN VALVE

A 2-1/2" preset relief valve shall be placed in the aerial waterway system and shall be capable of dumping water to the environment to protect the waterway system.

One (1) 1-1/2" quarter turn drain valve shall be installed at the low point of the waterway plumbing system.

Converters

The aerial shall be supplied with converters to help allow proper voltage and amperage from the batteries to the turntable and tip.

Step-Up Converter, H30-12-24

Turntable, Step-Down Converter: B30-24-13R8A

Aerial Fly, Step-Down Converter: B30-24-13R8A

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INTERCOM

The three station intercom communication system shall have the master stations at the turntable and pump panel, and secondary monitor and speaker at the tip area.

The master stations shall have a volume control and a push-to-talk button. The remote station shall operate "hands free" and constantly transmit to the master stations and speaker, unless a master station push-to-talk button is pressed.

The intercom shall be designed for exterior aerial application. Each station shall have a weather resistant and protective housing and water resistant speakers.

Atkinson Intercom

The Atkinson Dynamics Intercom AD26C master intercom and the AD26D slave intercom are designed for use in rugged, physical conditions and challenging acoustic environments. The durable construction is ideal for use on fire apparatus, emergency vehicles or any other mobile command equipment. The Atkinson Intercom provides high volume, clear audio communication.

The system is designed to provide clear communication for all personnel with minimum connections.

The remote unit, installed at the ladder tip, continuously transmits to the base stations. Base station units include a Push-to-Talk (PTT) button to transmit to other intercom positions.

LIGHT HOUSING COLOR

All light housing shall be white in color.

TRACKING LIGHTS

A FireTech Hi-Viz, model number FT-MB-33-FT-W light bar shall be installed on the bottom of the cradle cross bar to serve as the tracking lights and illuminate the ladder sections. The lights shall be activated from the tracking light switch on the main control station.

TIP LIGHTS

Two (2) Whelen Micro Pioneer™ Model # MPPWCS shall be installed at the tip of the aerials. The 45 watt +12 DC, 3.25 Amp, Micro Pioneer lighthead configuration shall incorporate 12 white Super-LED® with a TIR reflector and a polycarbonate cover with a chrome finish. The MPPWCS lights shall be activated from the tip light switch on the main control station and have an On/Off switch covered by a rubber boot and a black fiberglass enforced polycarbonate handle. The MPPWCS shall have a standard 8° spot light lens. The MPPWCS light shall have 4,100 usable lumens.

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LADDER BED CRADLE LIGHTS

Two (2) LED Whelen 3SC0CDCR, 12 volt lights shall be installed on ladder bed facing back toward the turntable. The steady burn illumination light shall incorporate six white Super-LED and a clear non-optic hard coated polycarbonate lens for maximum output. The hard coated sealed lens shall provide extended life/luster protection against UV and chemical stresses. The light shall be wet sealed and vacuum tested to ensure proper sealing. The conformal coated PC board, powder coated die cast housing, and exterior rubber gasket shall provide additional protection against environmental elements. The 3SC0CDCR shall provide 360 usable lumens. The solid state illumination light shall be vibration resistant. These lights shall be activated from the aerial master switch. The lights will draw 0.3 amps.

TIP MARKER LIGHTS

Two (2) blue Tomar strobe lights, model# 470S-1280-B, shall be installed at the tip of the fly section. These lights shall be activated from a switch on the turntable.

RUNG LIGHTING

The ladder rungs of each aerial section shall be equipped with 12-volt LED luma-bar lighting. The luma-bar shall run the full length of the climbing portion of the aerial. These lights shall be activated from the turntable tracking light switch. The ladder rung lights shall be blue (fly), white (upper mid & lower mid) and red (base).

CAB LIFT INTERLOCK SWITCH

A limit switch shall be installed on the aerial boom support to inhibit cab tilt unless the aerial is raised from the ladder travel support.

HYDRAULIC SYSTEM

The hydraulic system shall have a load sensing, variable gallonage, hydraulic piston pump with a 12-volt pressure reducing system. To reduce the normal time for aerial set up, the hydraulic pump shall be of the load sensing design. The hydraulic system shall have sufficient oil flow to provide the capability of performing multiple functions simultaneously without reducing operating speeds of the selected functions.

The hydraulic oil for the aerial shall be directed through a hydraulic swivel with 360 degrees continuous rotation. Enclosed in the hydraulic swivel shall be a minimum of twenty (20) electrical collector rings and a maximum of thirty-six (36) electrical collector rings with 360-degrees continuous rotation.

The hydraulic pump shall be large enough to provide oil to meet all of the requirements needed for aerial and outrigger operation standards.

A pressure reducing valve set at 500 PSI above the system pressure shall be connected to the hydraulic pump. This pressure reducing valve shall be a safety device for hydraulic pump failure. The hydraulic oil shall be directed through high pressure hydraulic hose and tubing.

The hydraulic system shall be designed to direct oil to the outriggers only while the ladder is in the bedded position. The oil can be directed to the aerial operation only when all of the outriggers are supporting sufficient load. This operation is made available through the use of electrical diverter valves with a manual override system for safety backup.

Hydraulic System Installation

The non-sealing moving parts of all hydraulic components, whose failure results in motion of the aerial device, shall have a minimum bursting strength of four times the maximum operating pressure to which the component is subjected.

Dynamic sealing parts of all hydraulic components, whose failure results in motion of the aerial device, shall not begin to extrude or otherwise fail at pressures at or below two times the maximum operating pressure to which the component is subjected.

Static sealing parts of all hydraulic components, whose failure results in motion of the aerial device, shall have a minimum bursting strength of four times the maximum operating pressure to which the component is subjected.

All hydraulic hose, tubing, and fittings shall have a minimum bursting strength of at least three times the maximum operating pressure to which the components are subjected. All hydraulic hoses shall have a stamped embedded on one end of the metal fitting to include the date, technicians creating the hose identification number, PSI of hose and the company the hose was made by. This shall assist a mechanic in determining the age of the hydraulic hose.

All other hydraulic components shall have a minimum bursting strength of at least two times the maximum operating pressure to which the components are subjected.

The hydraulic system shall be provided with an oil pressure gauge at the control station position.

Hydraulic Reservoir

The hydraulic system shall be supplied by a 30 gallon oil tank with a 100 mesh filter on the pump inlet side.

A means for checking and filling the hydraulic reservoir shall be readily accessible.

The fill location shall be conspicuously marked with a label that reads “Hydraulic Oil Only.”

Instructions for checking and filling the hydraulic reservoir shall be provided.

The hydraulic system components shall be capable of maintaining, under all operating conditions, oil cleanliness and temperature that comply with the component manufacturer's recommendations.

HYDRAULIC GATED DRAIN LINE

One (1) quarter turn shut-off valve shall be connected in the drain line of the hydraulic oil tank.

HYDRAULIC GATED DRAIN LINE

One (1) quarter turn shut-off valve shall be supplied between the suction line of the hydraulic oil tank and the inlet of the hydraulic pump.

HYDRAULIC OIL ISO 32

United MV Extreme Hydraulic Oil is a multi-grade hydraulic lubricant engineered for extreme temperature ranges. The low pour point of -58° F enables this fluid to flow quickly in extreme cold climates, avoiding pump cavitation that results in pump wear. The high viscosity index of this fluid addresses the extreme hot climates and operating temperatures, thinning out less at high temperatures than typical hydraulic fluids.

United MV Extreme Hydraulic Oil is formulated with rust inhibitors, oxidation inhibitors, anti-wear agents and anti-foam additives. This fluid is fortified with a friction modifier lubricity agent necessary in hydraulic systems operating wet clutches and/or wet brakes, commonly found in industrial cranes and other off-road equipment. United MV Extreme Hydraulic has very good water separation so that contaminant water may be drained from the reservoir when the machine is at rest. In-plant filtration system ensure ISO cleanliness standards during blending and container filling, providing a clean product for your expensive hydraulic system.

HYDRAULIC HIGH PRESSURE FILTER

The hydraulic system shall be equipped with a 'high pressure' hydraulic oil filter between the pump and the control valve designed to meet the flow requirements of the system. There shall be a filter replacement light on the outrigger control panel for the convenience of the mechanic. The return filter and pressure filter shall be connected together to the same light on the outrigger control panel to indicate replacement of filters.

HYDRAULIC RETURN FILTER

A 10 micron low pressure return line filter element shall be connected to the hydraulic reservoir. The 10 micron return line replaceable filter. There shall be a filter replacement light on the outrigger control panel for the convenience of the mechanic. The return filter and pressure filter shall be connected together to the same light on the outrigger control panel to indicate replacement of filters.

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ELEVATION SYSTEM

The hydraulic elevation system shall have two (2) 6" inside diameter cylinders that have 3-1/2" diameter rods and a 36" stroke. The elevation system shall elevate the aerial from -10 degrees to +75 degrees. The cylinders shall be equipped with spherical bushings to minimize cylinder rod wear. Each cylinder shall have lock valves connected directly to the barrel of the cylinder.

A pressure-reducing valve shall limit the force of the aerial when lowering and the system pressure limits the force when elevating the aerial.

All hydraulic cylinders utilized in the aerial elevation and extension system shall be commercially available and shall be of standard sizes and lengths rather than special sizes or of proprietary manufacture. This requirement is important since it assures quicker parts availability, shorter down time, and less costly replacement parts for cylinders.

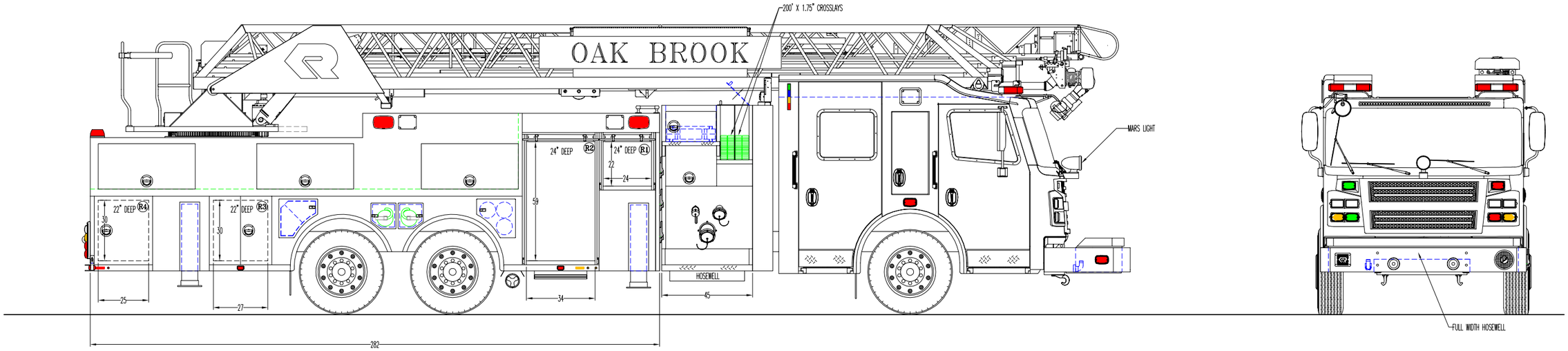
EMERGENCY BACK UP PUMP

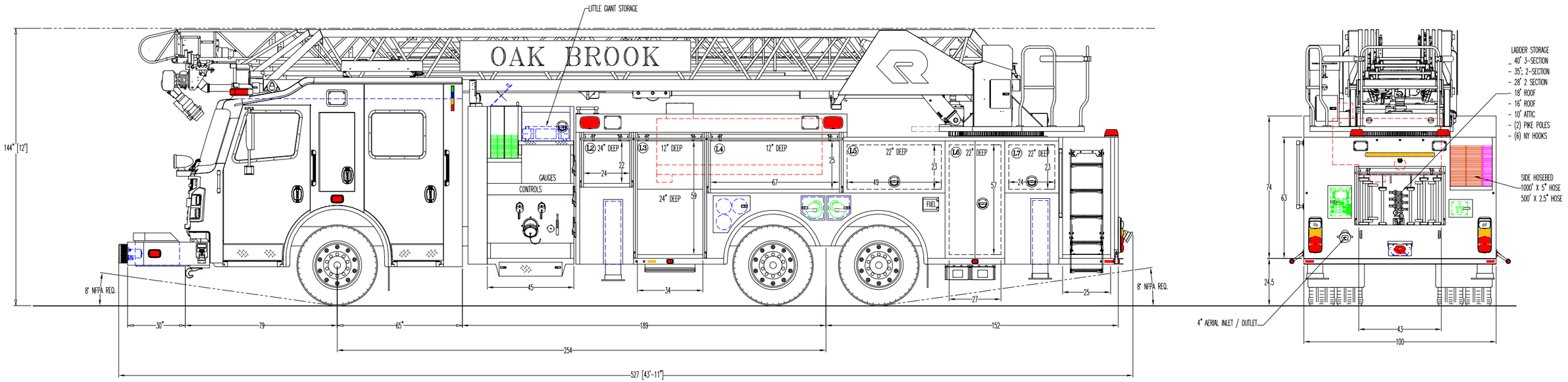
An emergency hydraulic system shall be provided for capability for limited ladder functions and to stow the ladder and outriggers in case of prime motor failure.

The emergency system shall be powered from the 12-volt electrical system from the apparatus battery system and shall not be load managed.

LUBRICATION CANS SHIPPED LOOSE

Two (2) cans of aerial lubrication shall be shipped loose.





NOTES:
1. OVERALL HEIGHT IS IN LOADED CONDITION. UNLOADED HEIGHTS MAY BE 4" ABOVE HEIGHTS SHOWN.
2. DO NOT SCALE DRAWING.
3. ALL DIMENSIONS ARE APPROXIMATE AND SUBJECT TO ENGINEERING CHANGES.
4. DRAWING MAY OR MAY NOT SHOW ALL ITEMS AS DESCRIBED IN THE WRITTEN DETAIL SPECIFICATIONS.
5. INCLUSION OF AN ITEM ON THE DRAWING DOES NOT CONSTITUTE INCLUSION OF THAT ITEM WITH THE FINAL DELIVERED UNIT.

REVISED: -	DATE: -	
REVISED: -	DATE: -	
REVISED: TAA	DATE: 04-14-2026 (R-02)	
DRAWN: ATG	DATE: 04-09-2026 (BASE 101'-3 COBRA TB)	

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ROSENBAUER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ROSENBAUER IS PROHIBITED.

APPROVED BY:

MAXIMUM HEIGHT	–
MAXIMUM LENGTH	–
BODY WIDTH	100"

CHASSIS: COMMANDER R6511
PUMP: WATEROUS CSUC22 2000 GPM
TANK: 500
TYPE: AERIAL
AERIAL: 109' VIPER

=PROPOSED=
OAK BROOK

rosenbauer

ROSENBAUER EXT

JOB NUMBER	DRAWING NUMBER	REV
–	D01089	02

Rosenbauer Minnesota, LLC

DEPARTMENT: **OAKBROOK, IL**

Wheel Base	254
C A	189
Cab to Pump Compartment	13
Pump Compartment	45
Tank Length Lower	86
Tank Length Upper	86
Body Length	282
Tank Capacity	515
Aerial Size	109-4 RMSS-TA-TB-ACP (91" RA-2-CL)

Percent of Weight to Front Axle		
Water	Body	Pump
17.72%	-6.69%	60.43%
	Aerial	Hose Bed
	6.30%	-18.11%

	TOTAL WT	FRONT WT	REAR WT
Water	4764	844	3920
Body	6971	-467	7438
Pump	3800	2296	1504
Aerial	22800	1436	21364
SUB TOTAL	**38335**	**4110**	**34225**
Chassis	25376	16345	9031
SUB TOTAL	**63712**	**20455**	**43257**
NFPA Equipment Load	2500	-113	2613
NFPA Personnel Load	1000	935	65
Hose Load	2105	239	1866
Ground Ladders	711	-48	759
Miscellaneous Equipment	1423	841	582
TOTAL	**71,450**	**22,309**	**49,141**
GAWR	**78,000**	**24,000**	**54,000**
% Load		**93.0%**	**91.0%**
% Distribution		**31.22%**	**68.78%**
Recommended GAWR		**24,000**	**54,000**

NOTE: Weights shown are approximate. Chassis weights MUST BE VERIFIED by the DEALER.
Dealer will be responsible for confirming that the axles are adequate for the proposed apparatus.

Village of Oak Brook
Procurement
Rania Serences, Purchasing & Budgeting Coordinator
1200 Oak Brook Road, Oak Brook, IL 60523

[FIRE SERVICE, INC.] RESPONSE DOCUMENT REPORT

GEN No. TBD

Aerial Ladder Truck

RESPONSE DEADLINE: April 16, 2026 at 10:00 am

Report Generated: Thursday, April 16, 2026

Fire Service, Inc. Response

CONTACT INFORMATION

Company:
Fire Service, Inc.

Email:
tbucci@fireserviceinc.com

Contact:
Tony Bucci

Address:
9545 N. Industrial Dr
St. John, IN 46373

Phone:
N/A

Website:
fireserviceinc.com

Submission Date:
Apr 16, 2026 8:14 AM (Central Time)

ADDENDA CONFIRMATION

No addenda issued

QUESTIONNAIRE

1. Respondent Submittals (without Cost)*

Please Upload your COMPLETE response, including any and all required forms listed in the solicitation and the corresponding attachments.

(Do not upload cost information in here)

Fire_Service_Questionnaire.pdf
Fire_Service_RFP_for_Oak_Brook.pdf

2. I certify that I have read, understood and agree to the terms in this solicitation, and that I am authorized to submit this response on behalf of my company.*

Confirmed

PRICE TABLES

Pricing information has not been unsealed yet

Attachment A - Proposer Questionnaire

FIRM NAME: Fire Service Inc

CONTACT PERSON: Tony Bucci

ADDRESS: 9545 N. Industrial Dr St. John, IN 46373

PHONE NUMBER: 847-721-8669

EMAIL ADDRESS: tbuci@fireserviceinc.com

WHEN ORGANIZED: June 11, 1991

WHERE ORGANIZED: St. John, IN

LICENSED IN ILLINOIS? Yes-DL # - DL6911

NUMBER OF YEARS IN PRACTICE? 35

HAS THE FIRM EVER REFUSED TO ENTER INTO AN CONTRACT? No
If yes, please submit details

HAS THE FIRM EVER DEFAULTED ON AN CONTRACT? No
If yes, please submit details

WHERE IS YOUR NEAREST OFFICE TO OAK BROOK? 1743 Quincy Ave Naperville, IL 60540

HOW MANY PEOPLE ARE EMPLOYED IN THE NEAREST OFFICE TO OAK BROOK? 16

VILLAGE OF OAK BROOK
Purchasing Division
1200 Oak Brook Road
Oak Brook, IL 60523

(630) 368-5164

REQUEST FOR PROPOSALS

AERIAL LADDER TRUCK PURCHASE

MARCH 2026

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Section 1. Request for Proposals

A. Notice

Posted on OpenGov Procurement Module October 29, 2025

The Village of Oak Brook is soliciting proposals from qualified vendors for the Fire Department Aerial Ladder Truck Purchase

Qualified vendors interested in submitting a proposal must obtain the detailed Request for Proposals (RFP) package from the Village's eProcurement Portal at https://procurement.opengov.com/portal/oak-brook.

Firms intending to respond to this opportunity must create a FREE account with OpenGov by signing up at https://procurement.opengov.com/signup. This step is necessary to establish a communication link with the Village.

The closing date and time for receipt of proposals is **Thursday, April 16, 2026 at 10:00 A.M. prevailing time**, after which time, additional submittals will not be accepted.

The Village reserves the right to reject any or all Proposals, to waive technical or legal deficiencies, to proceed or not to proceed with any subsequent proposal process, or to negotiate, without further process, and to make an award that, in its judgment, is the best and most favorable to the interests of the Village and the public.

All inquiries regarding this RFP must be submitted via the Village's eProcurement Portal at https://procurement.opengov.com/portal/oak-brook.

B. General Information

The Village of Oak Brook is a suburban community located in the western suburbs of Illinois, approximately 15 miles west of Chicago. Oak Brook is a premier community known for its beautiful neighborhoods, vibrant business district, and exceptional public amenities—including world-class shopping, fine dining, and abundant green space. The Oak Brook Fire Department protects a wide variety of hazards including a large commercial and mercantile district made up of high-rises, big box stores, warehouses, light industrial, multi-family dwellings, hotels, and large residential structures. In addition, the fire department protects several miles of high-speed roadways which include IL Route 83, Interstate 88, and Interstate 294.

In 2025, the Oak Brook Fire Department continued to see a year after year call volume increase, answering 3,322 calls for service, delineated by a nature of 65% emergency medical service and 35% fire service-related calls.

The Village of Oak Brook is seeking responsible vendors to submit proposals to build our next aerial ladder truck. The Village of Oak Brook is looking to award the next aerial ladder build to a vendor who can build a high-quality vehicle, exceeding our minimum custom-build requirements, that services the citizens of the Village of Oak Brook for at least the next fifteen years. The Oak Brook Fire Department is looking for a reliable aerial fire apparatus that consistently remains in-service, but when maintenance is needed, can be taken to a local dealer for efficient, cost effective, and dependable repair. Apparatus build time and a vehicle that meets or exceeds the fire department's vehicle requirements will be key when selecting the next vendor.

Some key components the Oak Brook Fire Department is seeking in our next aerial ladder build, but not limited to:

- minimum 95' aerial ladder length (however more vertical/horizontal/below grade reach better i.e. 100', 105', 110', 135', etc.)
- the ability to short-jack the aerial set-up in confined spaces

- minimum 500 on board water storage
- minimum 1500 GPM fire pump
- the ability to carry a full ground ladder compliment, including a 28', 35', and 45' (Bangor) ladders
- total compartment space (cubic foot of storage) is an important consideration
    - Identify total cubic foot of available storage given specific design components (on board water, hose, ladder, etc.)

C. Anticipated Timeline

The Village plans to adhere to the following schedule regarding this RFP:

Distribute Request for Proposals	March 19, 2026
Deadline for vendor questions or clarifications via OpenGov	April 7, 2026 @ 12:00 pm
Village's response to questions via OpenGov	As answered
RFP Due Date	April 16, 2026 @ 10:00 am
Evaluation Period	Apri 16, 2026 – May 4, 2026
Recommendation to Village Board/Final Award	May 12, 2026
Contract Effective Date	May 12, 2026

Section 2. Specifications

The Village of Oak Brook, IL, is seeking proposals from qualified vendors for the purchase of a new aerial ladder truck for the Oak Brook Fire Department. The aerial ladder truck will be used for firefighting, rescue operations, and other emergency services. The selected vendor will be responsible for providing a fully equipped and operational aerial ladder truck that meets the specifications outlined below:

Detailed Specifications
The aerial ladder truck must meet or exceed the latest NFPA standards as well as the following specifications and standards:

Chassis and Engine

1. Custom fire apparatus chassis with a minimum of 500 horsepower diesel engine.
2. Automatic, heavy-duty transmission (Allison 4000 or similar) and an auxiliary cooler.
3. Heavy-duty suspension system suitable for emergency response operations.
4. Minimum 50-gallon fuel tank capacity.
5. Anti-lock braking system (ABS).
6. Power steering and tilt/telescoping steering wheel.
7. Auto-lube system.
8. Crossfire rear-dual air monitoring system (or similar).
9. Jacobs compression brake (or similar).
10. Exhaust system modified for Plymovent.

Cab and Body

1. Four-door cab with seating for a minimum of four firefighters.
2. Air conditioning and heating system.
3. Ergonomically designed seating with seat belts and SCBA brackets.
4. Seatbelt warning system, SRS, backup and blind-spot cameras.
5. Aluminum or stainless-steel body construction for durability and corrosion resistance.
6. Ample custom compartment space for equipment storage with weather-resistant roll-up doors and custom shelves/trays/pull outs/etc. with line-x where applicable. (Identify total available cubic foot of storage available given specifications listed).
7. LED lighting for interior and exterior illumination.
8. Underbody corrosion protection.
9. Extended steel front bumper (with front 1.75" hose storage and storage for extrication equipment such as spreaders/cutters).
10. Heated remote mirrors.
11. Bumper mirror.
12. Remote windows (with multiple control points).
13. Sigtronics headset system (or similar).
14. Mounting provisions and power for mobile radios, portable chargers, hand-lights, mobile-data computer, thermal imaging camera, etc.
15. Custom paint (including aerial) with warranty (specify) and decals.

Aerial Ladder

1. Minimum 95-foot aerial ladder with a rated load capacity of at least 500 pounds. (Identify options/cost for longer reach)
2. Hydraulic or electric-powered ladder operation with automatic leveling system.
3. Ability to short-jack aerial set-up.
4. Waterway system capable of delivering a minimum of 1,000 gallons per minute (GPM) and providing a remote standpipe.
5. Integrated ladder controls at both the base and tip of the ladder.
6. Heat-resistant and slip-resistant ladder rungs.

7. Emergency lighting and communication system integrated into the ladder.

Pump and Water Tank

1. Minimum 1,500 GPM fire pump.
2. Onboard water tank with a minimum capacity of 500 gallons.
3. Minimum two large-diameter intakes near pump panels (electronically controlled if remote), plus a rear intake.
4. Pre-connected hose lines (2 cross-body mid-ship and 1 front bumper) for rapid deployment.
5. Minimum hose bed capacity of 1000' of 5" LDH and 800' of 2.5".
6. Pressure relief valve and pump panel controls.

Electrical and Lighting

1. 12-volt and 120-volt electrical systems with circuit protection, shoreline powered.
2. LED emergency warning lights and sirens compliant with NFPA 1901 standards. 360-degree lighting package needs to exceed minimum standards and allow for ample warning, including during tollway/interstate operations.
3. LED scene lighting/floodlights for nighttime operations (minimum front and both sides).
4. LED cab and compartment lighting.
5. Battery charging system with shoreline connection and a minimum of four heavy-duty batteries.

Additional Equipment

1. Ground ladders including a minimum of one 45-foot 3-section Bangor ladder, one 35-foot two-section extension ladder, one 28-foot two-section extension ladder, one 18-foot roof ladder, one 16-foot roof ladder, one Little-Giant combination ladder, and one 10-foot folding ladder.
2. Storage and mounting provisions for 12', 10', 8', 6' New York hooks including rear, aerial, and mid-ship cross-body storage.
3. Storage and mounting provisions for hydraulic e-rescue tools, including spreaders, cutters, and rams.
4. Storage and mounting provisions for portable lighting and ventilation equipment.
5. Storage and mounting provisions medical equipment (in-cab).
6. Fire extinguishers and hand tools.
7. Spare SCBA bottle storage.
8. Storage and mounting provisions for misc. rescue equipment (small hand/power tools).

9. Storage and mounting provisions for misc. firefighting equipment including high-rise hose packs, standpipe kits, assorted appliances, etc.

Build Requirements
The selected vendor must:

1. Specify time for build and delivery.
2. Specify a list of authorized service centers and maximum travel distance.
3. Provide for build/design, in-progress, and final inspections.

Service Requirements
The selected vendor must provide the following services:

1. Comprehensive training for Oak Brook Fire Department personnel on the operation and maintenance of the aerial ladder truck.
2. Detailed maintenance and service manuals, both in print and digital formats.
3. Warranty coverage for a minimum of one year on all components, with extended warranty options available.
4. Access to technical support and service representatives for troubleshooting and repairs.
5. Availability of replacement parts and consumables for a minimum of 10 years from the date of delivery.

Delivery Requirements
The aerial ladder truck must be delivered to the Oak Brook Fire Department at the following address:

Oak Brook Fire Department
Village of Oak Brook
1200 Oak Brook Road
Oak Brook, IL 60523

The delivery must include the following:

1. Complete inspection and testing of the aerial ladder truck to ensure it meets all specifications and is fully operational.
2. Documentation of all inspections, tests, and certifications.
3. On-site training for Oak Brook Fire Department and on-site maintenance personnel.
4. All necessary registration and titling paperwork completed and submitted to the appropriate authorities.

Section 3. Proposal Cost

In compliance with this Request for Proposals, and subject to all conditions thereof, the undersigned offers and agrees, if this proposal is accepted, to furnish the Aerial Ladder Truck as outlined herein for the Village of Oak Brook at the amount indicated, subject to modification through negotiations. The not-to-exceed cost proposed shall include all anticipated expenses.

AERIAL LADDER TRUCK PURCHASE

Total Project Cost $ 1,840,000.00 E-One CR100 Rear Mount Ladder

In Words One million eight hundred forty thousand

The Village of Oak Brook reserves the right to reject any or all proposals and to waive any informalities and to accept the proposal deemed most advantageous to it.

*See attached documents for additional apparatus proposal for KME 103 Ladder

Section 4. Submittal Procedures

A. RFP Submittals

The closing date and time for receipt of the Request for Proposals is **Thursday, April 16, 2026, at 10:00 A.M. prevailing time,** after which time, additional submittals will not be accepted. All proposals must **be** delivered via the Village's eProcurement Portal at https://procurement.opengov.com/portal/oak-brook.

The Village reserves the right to reject any or all Proposals, to waive technical or legal deficiencies, to proceed or not to proceed with any subsequent proposal process, or to negotiate without further process any Contract as may be in the best interest of the Village.

B. Questions and Clarifications

All inquiries regarding this RFP must be submitted in writing through the Village's eProcurement Portal in the Questions/Answer tab. Questions will be accepted until **12:00 p.m. CST on Tuesday, April 7, 2026. To ensure that questions asked are responded to correctly, please include the section title for each question.**

All questions submitted and responses provided will be electronically distributed to the Firms following this solicitation on the Village's eProcurement Portal. You must click the **"Following"** button on the top right-hand side of the main project page in the Village's OpenGov eProcurement portal.

Section 5. Review Process

A. Evaluation of Proposals and Selection

The proposals received will be evaluated by the Village on the basis of professional qualifications, previous experience on similar projects, satisfaction of previous clients on work performed forthem, current billing

rates of the firm, and the proposal that best meets the needs of the Village. Vendors will be contacted during the evaluation if further information is needed. The Village may choose to interview one or more firms before final selection is made.

This Request for Proposal does not commit the Village to award a contract, to pay any costs incurred in the preparation of a proposal based on this request, or to procure or contract for services. All proposals submitted in response to this Request for Proposal become the property of the Village. The Village reserves the right to accept or reject any or all proposals received as a result of this request, to negotiate with qualified proposers, or to cancel in part or in its entirety the Request for Proposal, if it is in the best interest of the Village to do so. The Village may require the proposer selected to participate in negotiations concerning Contract price or the nature and extent of services to be provided. The results of such negotiations shall be incorporated into the final Contract between the Village and its proposer.

B. Basis of Award

The Village uses the Request for Proposals (RFP) process. A short list of firms will be drawn up and interviews with those firms may take place. The Village will then attempt to negotiate a satisfactory Contract with the firms deemed most qualified.

The Village of Oak Brook reserves the right to waive any informality or technical error and to accept the firm deemed by the Village to be in its best interests. In reviewing Proposals, the Village will consider the following factors:

1. The ability, capacity, and skill of the firm to provide the required commodity.
2. The character, integrity, reputation, judgment, experience, and efficiency of the firm.
3. The quality of the performance on previous Contracts.
4. The previous and existing compliance by the vendor with laws and ordinances relating to the vendor's services.
5. The sufficiency of the financial resources and ability of the firm to perform the Contract or provide the commodity.
6. Proposed Cost
7. The ability of the vendor to provide future service for the use of the subject of the Contract.
8. The number and scope of conditions attached to the Proposal submitted.

Additional criteria to be considered in reviewing Proposals:

1. The Proposers' experience.
2. Understanding of the Village's current and future needs.
3. Oral interview (at Village option).
4. Demonstrated experience.

The Village will then select the top preferred Proposer, with whom the Contract, on a form to be provided by the Village, will be negotiated. The Village Board of Trustees has the ultimate authority to approve

any proposal and to authorize execution of the negotiated Contract.

The Village reserves the right to make clarifications, corrections, or changes in this RFP at any time prior to the deadline for the submission of proposals.

Section 6. Terms and Conditions

1. Any contract resulting from the acceptance of this Request for Proposals by the Village shall be on forms supplied by the Village.

2. If, through any cause, the firm fails to fulfill any of the obligations agreed to in a timely and proper manner, the Village shall have the right to terminate the Contract by notifying the firm in writing of such termination at least 30 calendar days in advance of such termination.

3. The Village reserves the right to request clarification of information submitted and request additional information as needed.

4. Proposers may attach separate sheets to the proposal for the purpose of explanation, exception, alternate proposal and to cover unit prices, if needed.

5. Proposers may withdraw their proposal either personally or by written request at any time before the time set for the proposal opening and may resubmit it. No proposal may be withdrawn or modified after the receipt of proposals except where the award of Contract has been delayed for a period of more than **ninety (90) days**.

6. In submitting this proposal, the proposer further declares that the only person or party interested in the proposal as principals are those named herein, and that the proposal is made without collusion with any other person, firm or corporation.

7. The proposer further understands and agrees that if their proposal is accepted, the individual/company is to furnish and provide all necessary materials and/or equipment and other means to do all of the work and to furnish all of the materials specified in the Contract, except such materials as are to be furnished by the Village, in the manner and at the time therein prescribed, and in accordance with the requirements therein set forth.

8. The proposer further agrees to execute all documents within this Proposal Package, obtain a Certificate of Insurance for this work and present all of these documents to the Village within fifteen (15) days after the receipt of the Notice of Award and the Contract by the company.

9. The proposer further agrees to begin work not later than fifteen (15) days after receipt of the Notice to Proceed, unless otherwise provided, and to execute the work in such a manner and with sufficient materials, equipment and labor.

10. By submitting a proposal, the proposer understands and agrees that, if the proposal is accepted, and the proposer fails to enter into a Contract forthwith, the company shall be liable to the Village for any damages the Village may thereby suffer.

11. The Village is exempt from Federal excise tax and the Illinois Retailer's Occupation Tax. This proposal cannot include any amounts of money for these taxes.

12. The Village authorizes the payment of invoices on the second and fourth Tuesday of the month. For consideration on one of these dates, payment request must be received no later than fourteen (14) days prior to the second or fourth Tuesday of the month.

13. **Indemnification** – The Proposer shall protect, indemnify, save, defend and hold forever harmless the Village and/or its officers, officials, employees, volunteers and agents from and against all liabilities, obligations, claims, damages, penalties, causes of action, costs and expenses, including without limitation court costs, insurance deductibles and attorney's fees and expenses, which the Village and/or its officers, officials, employees, volunteers and agents may incur, suffer or sustain, or for which the Village and/or its officers, employees and agents may become obligated by reason for any accident, injury to or death of persons or loss of or damage to property, or civil and/or constitutional infringement of rights (specifically including violations of the Federal Civil Right Statutes), arising indirectly or directly in connection with or under, or as a result of, this or any Contract by virtue of any act or omission of any of the Proposer's officers, employees, subcontractors, and/or agents, provided that the Proposer shall not be liable for claims, obligations, damages, penalties, causes of action, costs and expenses arising solely from any act or omission of the Village's officers, officials, employees, volunteers and/or agents.

    The proposer shall hold the Village harmless for any and all claims for labor, material, apparatus, equipment, fixtures or machinery furnished to the proposer for the purpose of performing the work under the Contract; and the payment of all direct and indirect damages to any person, firm, company or corporation suffered or sustained on account of the performance of such work during the time the Contract is in force.

14. **Insurance** – Certificates of Insurance and Additional Insured Endorsement shall be presented to the Village within fifteen (15) days after the receipt by the proposer of the Notice of Award and the unexecuted Contract, it being understood and agreed that the Village will not approve and execute the Contract or will the bid guarantee be returned until acceptable insurance certificates are received and approved by the Village.

    Each proposer performing any work pursuant to an Contract with the Village and each permittee working under a permit as required pursuant to the provisions of Title 1, Chapter 8 of the Code of Ordinances of the Village (hereinafter referred to as "Insured") shall be required to carry such insurance as specified herein. Such proposer and permittee shall procure and maintain for the duration of the Contract or permit insurance against claims for injuries to persons or damages to property, which may arise from or in connection with the performance of the work under the Contract or permit, by either the proposer, permittee, or their agents, representatives, employees or subcontractors.

    A contractor or permittee shall maintain insurance with limits no less than:

    a) General Liability - $1,000,000 combined single limit per occurrence for bodily injury, personal injury and property damage, provided that when the estimated cost of the work in question does not exceed $5,000 the required limit shall be $500,000;

    b) Automobile Liability (if applicable) - $1,000,000 combined single limit per accident for bodily injury and property damage;

    c) Worker's Compensation and Employer's Liability - Worker's Compensation limits as required by the Labor Code of the State of Illinois and Employer's Liability limits of $1,000,000 per accident.

    Any deductibles or self-insured retention must be declared to and approved by the Village. At the option of the Village, either the insurer shall reduce or eliminate such deductible or self-insured retention as respects the Village, its officers, officials, employees and volunteers; or the Insured shall procure a bond

guaranteeing payment of losses and related investigations, claim administration and defense expenses to the extent of such deductible or self-insured retention.

The policies shall contain, or be endorsed to contain, the following provisions:

d) General Liability and Automobile Liability Coverage -

I. The Village, its officers, officials, employees and volunteers are to be covered as additional insureds as respects: liability arising out of activities performed by or on behalf of the Insured; premises owned, occupied or used by the Insured. The coverage shall contain no special limitations on the scope of protection afforded to the Village, its officers, officials, employee's volunteers or agents.

II. The Insured's insurance coverage shall be primary insurance as respects the Village, its officers, officials, employees, volunteers and agents. Any insurance or self-insurance maintained by the Village, its officers, officials, employees, volunteers or agents shall be in excess of the Insured's insurance and shall not contribute with it.

III. Any failure to comply with reporting provisions of the policies shall not affect coverage provided to the Village, its officers, officials, employees, volunteers or agents.

IV. The Insured's insurance shall apply separately to each covered party against whom claim is made or suit is brought except with respect to the limits of the insurer's liability.

e) Worker's Compensation and Employer's Liability Coverage

The policy shall waive all rights of subrogation against the Village, its officers, officials, employees, volunteers and agents for losses arising from work performed by the insured for the Village.

Each insurance policy shall be endorsed to state that coverage shall not be suspended, voided, canceled by either party, reduced in coverage or in limits except after thirty (30) days prior written notice by certified mail has been given to the Village. Each insurance policy shall name the Village, its officers, officials and employees, volunteers and agents as additional Insureds. Insurance is to be placed with insurers with a Best's rating of no less than A: VII.

Each Insured shall furnish the Village with certificates of insurance and with original endorsements affecting coverage required by this provision. The certificate and endorsements for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. The certificates and endorsements are to be on forms approved by the Village and shall be subject to approval by the Village Attorney before work commences. The Village reserves the right to require complete, certified copies of all required insurance policies, at any time.

Each insured shall include all subcontractors as insureds under its policies or shall furnish separate certificates and endorsements for each subcontractor. All coverages for subcontractors shall be subject to all of the requirements stated herein.

15. **Equal Opportunity** – The Proposer will not discriminate against any employee or applicant for employment because of race, color, religion, sex, ancestry, national origin, place of birth, age or handicap unrelated to bona fide occupational qualifications.

16. **Execution of Documents** – The Proposer, in signing his Proposal on the whole or on any portion of the work, shall conform to the following requirements:

    Proposals signed by an individual other than the individual represented in the Proposal documents shall have attached thereto a power of attorney, evidencing authority to sign the Proposal in the name of the person for whom it is signed.
    Proposals that are signed for a partnership shall be signed by all of the partners or by an attorney-in-fact. If signed by an attorney-in-fact, there shall be attached to the Proposal a power of attorney evidencing authority to sign the proposal, executed by the partners.

    Proposals that are signed for a corporation shall have the correct corporate name thereof and the signature of the President or other authorized officer of the corporation manually written below the corporate name.

    If an official other than the President of the Corporation manually signs such Proposal, a certified copy of a resolution of the board of directors evidencing the authority of such official to sign the Proposal shall be attached to it. Such Proposal shall also bear the attesting signature of the Secretary of the corporation and the impression of the corporate seal.

    The Contract shall be deemed as have been awarded when formal notice of award shall have been duly served upon the intended awardee.

17. **Non-Discriminating** – The Proposer, its employees and subcontractors, agrees not to commit unlawful discrimination and agrees to comply with applicable provisions of the Illinois Human Rights Act, the U.S. Civil Rights Act and Section 504 of the Federal Rehabilitation Act, and rules applicable to each.

18. **Negotiations** – The Village reserves the right to negotiate specifications, terms, and conditions that may be necessary or appropriate to the accomplishment of the purpose of the RFP. The Village may require the entire proposal be made an integral part of the resulting Contract. This implies that all responses, supplemental information, and other submissions provided by the proposer during discussions or negotiations will be held by the Village as contractually binding on the successful proposer.

19. **Incurred Costs** – The Village will not be liable in any way for any costs incurred by respondents in replying to this RFP. Proposer agrees to comply with all laws, ordinances, and rules of the Village and the State of Illinois.

20. **Proposer Responsibilities** – The selected Proposer will be required to assume responsibility for all services offered in this proposal. The Village will consider the selected Proposer to be the sole point of contact with regard to contractual matters, including payment of any and all charges resulting from the Contract.

21. **Default** – The Contract may be canceled or annulled by the Village in whole or in part by written notice of default to the Proposer upon nonperformance or violation of Contract terms. An award may be given to another proposer with services similar to those so terminated. Failure of the Proposer to deliver services within the time stipulated on his offer, unless extended in writing by the Village, shall constitute Contract default.

22. **Independent Contractor** – There is no employee/employer relationship between the Proposer and the Village. Proposer is an independent contractor and not the Village's employee for all purposes, including, but not limited to, the application of the Fair Labors Standards Act minimum wage and overtime payments, Federal Insurance Contribution Act, the Social Security Act, the Federal Unemployment Tax Act, the Worker's Compensation Act (820 ILCS 305/1, et *seq.*). The VILLAGE will not (i) provide any form of insurance coverage, including but not limited to health, worker's

compensation, professional liability insurance, or other employee benefits, or (ii) deduct any taxes or related items from the monies paid to Proposer. The performance of the services described herein shall not be construed as creating any joint employment relationship between the Proposer and the Village, and the Village is not and will not be liable for any obligations incurred by the Proposer, including but not limited to unpaid minimum wages and/or overtime premiums, nor does there exist an agency relationship or partnership between the Village and the Proposer.

23. **Governing Law** – The laws of the State of Illinois as to interpretation, performance and enforcement shall govern this Contract. The forum for resolving any disputes concerning the parties' respective performance or failure to perform under this Contract shall be the Circuit Court for the Eighteenth Judicial Circuit, DuPage County, Illinois.

24. **Substitutions:**

A. Certain materials and equipment are specified by a manufacturer or trade name to establish standards of quality and performance and not for the purpose of limiting competition. Proposers are invited to submit proposals not only on named items but also on items which they propose for substitution of named items. Products of other manufacturers may be substituted, if, in the opinion of the Village, they are equal to those specified in quality, performance, design and suitability for intended use. Where two or more items are specified, the selection among those specified is the Proposer's option, or he may submit his proposal on all such items.

B. Proposals shall be based on materials included in the specifications. Substitutions for the purpose of evaluating proposals will be considered only if proposed substitutions are set forth in the sealed proposal and will only be accepted prior to the award of the contract. The offer of substitutions shall be an integral part of the proposal, appearing immediately after all requested proposals and before the signature of the Proposer.

C. Substitutions of materials other than those specified will not be considered in the base proposal price. However, other substitutions may be listed in the specified place in the Proposal Form, with the indication of the change in the base proposal price for the total cost.

D. In addition to the requirements heretofore mentioned, in order for substitutions to qualify for consideration, the following shall accompany each proposal:

1. Each proposed substitution shall be itemized showing manufacturer name, catalog number, quantity, unit cost and total cost. The Proposer shall prepare the necessary forms to list his substitutions in the manner outlined.

2. Each proposal offering substitutions shall be accompanied by descriptive literature, catalog data, complete technical specifications and reports of all pertinent tests concerning the Proposer's proposed substitutions

25. **Guarantee** – Successful Proposer will guarantee his own work for a period of one (1) year against faulty material and/or workmanship. If any defects(s) appear(s) within the one (1) year guarantee period, the contractor will repair any such defect(s) solely at his cost and at no cost to the Village of Oak Brook. The Contractor will also forward copies of all applicable manufacture's warranties for all equipment/commodities supplied by the Contractor as a part of the Contract.

26. **Warranty** – Successful Proposer will also forward copies of all applicable manufacturer's warranties for all equipment/commodities supplied as part of a Contract.

27. **Assignment** – Neither the Village nor the successful proposer shall assign or transfer any rights or obligations under this Contract without the prior written consent of the other party, which consent shall not be unreasonably withheld.

28. **Governing Law** – This Contract shall be governed by the laws of the State of Illinois as to interpretation, performance and enforcement. The forum for resolving any disputes concerning the parties' respective performance or failure to perform under this Contract shall be the Circuit Court for the Eighteenth Judicial Circuit, DuPage County, Illinois.

29. **Inspection/Testing/Rejection** – The Village shall have the right to inspect all or any part of the Work and to reject all or any part of the Work that is, in the Village's judgment, defective or damaged or that in any way fails to confirm strictly to the requirements of this proposal, without limiting its other rights or remedies, may require correction or replacement at Proposer's cost, perform or have performed all Work necessary to complete or correct all or any part of the Work that is defective, damaged, or nonconforming and charge Proposer with any excess cost incurred thereby, or cancel all or any part of any order or this proposal/contract. Work so rejected may be returned or held at Proposer's expense and risk.

30. **Performance Clause** – In the event the quality of service becomes unacceptable, the Village reserves the right to cancel the contract after giving seven (7) days written notice.

31. **Safety** – The successful proposer and any subcontractors shall comply with all provisions of the Federal Occupational Safety and Health Act of 1970 (84 Stat. 1590), as amended.

32. **Force Majeure** – A force majeure occurrence is an event or effect that cannot be reasonably anticipated or controlled and is not due to the negligence or willful misconduct of the affected party.

    Unless otherwise agreed in the Contract between the parties expressly or impliedly, where a party to a Contract fails to perform one or more of its contractual duties, the consequences set out in this clause will follow if and to the extent that the party proves: (a) that its failure to perform was caused by an impediment beyond its reasonable control; (b) that it could not reasonably have been expected to have taken the occurrence of the impediment into account at the time of the signing of the contract; and (c) that it could not reasonably have avoided or overcome the effects of the impediment.

    A party invoking this clause **shall** be presumed to have established the conditions described in the preceding paragraph in the case of the occurrence including, but not limited to, one or more of the following impediments or other similar causes beyond the control of the Contractor or the Village in the performance of the Contract where non-performance, by exercise of reasonable diligence, cannot be prevented:

    - acts of God or natural disaster such as but not limited to violent storm, cyclone, typhoon, hurricane, tornado, blizzard, earthquake, volcanic activity, landslide, tidal wave, tsunami, flood, damage or destruction by lightning, drought;

    - acts of war (whether declared or not), armed conflict or the serious threat of the same (including but not limited to hostile attack, blockade, military embargo), hostilities, invasion, act of a foreign enemy, extensive military mobilization;

- civil war, riot, rebellion, revolution, military or usurped power, insurrection, civil commotion or disorder, mob violence, act of civil disobedience;

- acts of public enemies, acts of terrorism, sabotage or piracy;

- **plague, epidemic, pandemic, outbreaks of infectious disease or any other public health crisis, including quarantine or other employee restrictions;**

- act of authority whether lawful or unlawful, compliance with any law or governmental order, rule, regulation or direction, curfew restriction, expropriation, compulsory acquisition, seizure of works, requisition, nationalization;

- explosion, fire, destruction of machines, equipment, factories and of any kind of installation, prolonged break down of transport, telecommunication or electric current;

- general labor disturbance such as but not limited to boycott, strike and lock-out, go-slow, occupation of factories and premises;

- shortage or inability to obtain critical material or supplies to the extent not subject to the reasonable control of the subject Party.

The affected party **shall** provide the other party with written notice of any force majeure occurrence as soon as the delay is known and provide the other party with a written contingency plan to address the force majeure occurrence. Furthermore, the affected party **shall** use its commercially reasonable efforts to resume proper performance within an appropriate period of time. Notwithstanding the foregoing, if the force majeure condition continues beyond 30 days, the parties to the Contract **shall** jointly decide on an appropriate course of action that will permit fulfillment of the parties' objectives under the contract.

Contractor **shall not** be entitled to an adjustment in Contract price or other non-price related items caused by or within the control of Contractor. Delay, disruption, and interference attributable to and within the control of a subcontractor or supplier shall be deemed to be within the control of Contractor.

Section 7. Attachments

Attachment A – Proposer Questionnaire

Attachment B – Statement of Proposer's Qualifications

Attachment C – Proposal Certification

Attachment D – Contract

Attachment E – Performance and Payment Bonds

Attachment A - Proposer Questionnaire

FIRM NAME: Fire Service Inc

CONTACT PERSON: Tony Bucci

ADDRESS: 9545 N. Industrial Dr St. John, IN 46373

PHONE NUMBER: 847-721-8669

EMAIL ADDRESS: tbuci@fireserviceinc.com

WHEN ORGANIZED: June 11, 1991

WHERE ORGANIZED: St. John, IN

LICENSED IN ILLINOIS? Yes-DL # - DL6911

NUMBER OF YEARS IN PRACTICE? 35

HAS THE FIRM EVER REFUSED TO ENTER INTO AN CONTRACT? No
If yes, please submit details

HAS THE FIRM EVER DEFAULTED ON AN CONTRACT? No
If yes, please submit details

WHERE IS YOUR NEAREST OFFICE TO OAK BROOK? 1743 Quincy Ave Naperville, IL 60540

HOW MANY PEOPLE ARE EMPLOYED IN THE NEAREST OFFICE TO OAK BROOK? 16

Attachment B – Statement of Proposer's Qualifications

All questions must be answered, and the data given must be clear and comprehensive. This statement must be notarized. If necessary, questions may be answered on separate attached sheets. The Proposer may submit any additional information he or she desires.

1. Name of Proposer: Fire Service Inc

2. Permanent main office address: 9545 N Industrial Dr St. John, IN

3. When organized: June 11, 1991

4. If a corporation, where incorporated: Indiana

5. How many years have you been engaged in the contracting business under your present firm or trade name: 35

6. Contracts on hand: (Schedule these, showing amount of each contract and the appropriate anticipated dates of completion) City of Chicago 106,000,000.00 Completed 2027 -Extended through 2029 with additional 96,000,000.

7. General character of work performed by your company: Sales of Fire apparatus and ambulance with heavy focus on service and repair throught 5 service centers

8. Have you ever defaulted on a contract: No

9. List, on an attached sheet, the more important projects recently completed by your company, stating the approximate cost for each, and the month and year completed. Include a contact person and phone # for each.

10. List your major equipment ***available for this contract***:

11. Experience in work similar in importance to this project: We have sold fire apparatus and ambulances for the last 20 years of well over 2000 units

12. Background and experience of the principal members of your organization, including the officers. Owner-Shawn Junker 40 years experience in industry

13. Credit available: E-ONE 352-237-1122

14. Bank reference: BMO Harris -Contact Randy Labelle 312-636-0002

15. Will you, upon request, fill out a detailed financial statement and furnish any other information that may be required by the Village of Oak Brook: yes

16. The undersigned hereby authorizes and requests any person, firm, or corporation to furnish any information requested by the Village of Oak Brook in verification of the recitals comprising this Statement of Proposer's Qualifications.

DATED at St. John, ~~Illinois~~ Indiana this 14 day of April, 2026.

By: _____
President
Title

STATE OF ~~ILLINOIS~~ Indiana)
) SS.
COUNTY OF Lake)

Shaun Jurs being duly sworn deposes and says that he is the President of Fire Service Inc and that the answers to the foregoing questions and all statements therein contained are true and correct.

SUBSCRIBED and sworn to before me this 14TH day of APRIL, 2026.

Rachel K. Suggs
Notary Public

RACHEL K. SUGGS
Notary Public - Seal
Lake County - State of Indiana
Commission Number NP0636692
My Commission Expires Jul 10, 2028

Attachment C – Proposer's Certification

The undersigned, being first duly sworn an oath, deposes and states that he has the authority to make this certification on behalf of the Proposer for the construction, product, commodity, or service briefly described as follows:

"Aerial Ladder Truck Purchase"

(A) The undersigned certifies that, pursuant to Chapter 720, Section 5/33E of the Illinois Compiled Statutes, 1993, the Proposer is not barred from submitting a proposal on this contract as a result of a conviction for the violation of State of Illinois laws prohibiting bid-rigging or bid-rotating.

(B) The undersigned states under oath that, pursuant to Chapter 65, Section 5/11-42.1-1 of the Illinois Compiled Statutes, 1993, the Proposer is not delinquent in the payment of any tax administered by the Illinois Department of Revenue.

(C) The undersigned certifies that, pursuant to Chapter 775, Section 5/2-105. of the Illinois Compiled Statutes, 1993, the Proposer has a written sexual harassment policy in place including the following information:

1. An acknowledgment of the illegality of sexual harassment.
2. The definition of sexual harassment under State law.
3. A description of sexual harassment, utilizing examples.
4. The contractor's internal complaint process including penalties.
5. The legal recourse, investigative and complaint process available through the Illinois Department of Human Rights and the Human Rights Commission.
6. Directions on how to contact the Department or the Commission.

(D) The undersigned states and certifies it will provide a drug free workplace by complying with Section 3 of the Illinois Drug Free Workplace Act, being 30 ILCS 580/3.

This business firm is: (check one)

X Corporation _____ Partnership _____ Individual

Firm Name: Fire Service Inc

Address: 9545 N Industrial Dr

City, State, ZIP: St. John, IN 46373

Signature: _____

Name Printed: Shawn Junker

Title: President

Telephone: 219-365-7157 Date: 4/14/2026

ATTEST:

-SEAL-

SUBSCRIBED AND SWORN TO
before me this 14TH day
of APRIL, 2026.

Rachel K. Suggs
Notary Public

RACHEL K. SUGGS
Notary Public - Seal
Lake County - State of Indiana
Commission Number NP0636692
My Commission Expires Jul 10, 2028

Attachment D – Contract

Aerial Ladder Truck Purchase

1. THIS CONTRACT, made and concluded this _____ day of _____, 2026, between the Village of Oak Brook, a municipal corporation, acting by and through its President and Board of Trustees, known as VILLAGE, and _____
his executors, administrators, successors or assigns, known as CONTRACTOR.

2. WITNESSETH: That for and in consideration of the payments and Contracts mentioned in the Proposal hereto attached, to be made and performed by the VILLAGE, and according to the terms expressed in the Bond (if applicable) referring to these presents, the CONTRACTOR agrees, at their own proper cost and expense, to do all work, furnish all materials and all labor necessary to complete the work in accordance with the plans and specifications hereinafter described, and in full compliance with all of the terms of this Contract.

3. PERIOD OF CONTRACT: This Contract will be in full force for the current calendar year, beginning on the date of the Contract. This Contract is subject to the right of the VILLAGE to cancel and terminate the same at any time, with or without cause, by giving not less than ten (10) day notice to the CONTRACTOR. In the event of such cancellation, the CONTRACTOR shall be entitled to receive payment for services and work performed and materials and equipment furnished under the terms of the Contract prior to the effective date of such cancellation but shall not be entitled to receive any damages on account of such cancellation or any further payment whatsoever.

4. And it is also understood and agreed that the entire Proposal Package hereto attached, approved by the VILLAGE this _____ day of _____, 2026, are all essential documents of this contract and are a part hereof.

5. IN WITNESS WHEREOF, the said parties have executed these presents on the above mentioned date.

ATTEST: VILLAGE OF OAK BROOK

_____ By_____
Village Clerk Village Manager

ATTEST: CORPORATE NAME:

_____ _____

_____ By_____ Secretary
Contractor

Partners doing Business under
the firm name of

(If a Co-Partnership)

_____

_____

_____

_____

Party of the Second Part

(If an Individual)

_____

Party of the Second Part

Attachment E – Performance and Payment Bonds

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS: that ***[FULL NAME, ADDRESS AND ORGANIZATION OF CONTRACTOR]***, as Principal, hereinafter called Contractor, and ***[FULL NAME AND ADDRESS OF SURETY]***, as Surety, a corporation organized and existing under the laws of the State of ***[INCORPORATION]***, hereinafter called Surety, are held and firmly bound unto the Village of Oak Brook, as Obligee, hereinafter called Owner, in the full and just sum of ***[CONTRACT PRICE]*** Dollars, for the payment of which sum of money well and truly to be made, Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents, said amount to include payment of actual costs and damages and for attorneys' fees, architectural fees, design fees, engineering fees, accounting fees, testing fees, consulting fees, administrative costs, court costs, interest and any other fees and expenses resulting from or incurred by reason of Contractor's failure to promptly and faithfully perform its contract with Owner, said contract being more fully described below, and to include attorneys' fees, court costs and administrative and other expenses necessarily paid or incurred in successfully enforcing performance of the obligation of Surety under this bond.

WHEREAS, Contractor has entered into a written Contract dated ***[DATE OF CONTRACT AGREEMENT]***, with Owner entitled "Contract Agreement Between Village of Oak Brook and ***[CONTRACTOR'S NAME]*** for the "Oak Brook Aerial Ladder Purchase" (the "Contract"), the terms and conditions of which are by this reference incorporated herein as though fully set forth herein.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH THAT if Contractor shall well, truly, and promptly perform all the undertakings, covenants, terms, conditions, and Contracts of said otherwise, under the Contract, including, but not limited to, Contractor's obligations under the Contract: (1) to provide, perform and complete at the Work Site and in the manner specified in the Contract all necessary work, labor, services, transportation, equipment, materials, apparatus, machinery, tools, fuels, gas, electric, water, waste disposal, information, data, and other means and items necessary for the design, if any, construction, and delivery of the **Oak Brook Aerial Ladder Purchase,** together with related attachments, equipment, and appurtenances thereto; (2) to procure and furnish all permits, licenses, and other governmental approvals and authorizations necessary in connection therewith except as otherwise expressly provided in the Special Conditions of Contract; (3) to procure and furnish all bonds and certificates and policies of insurance specified in the Contract; (4) to pay all applicable federal, state, and local taxes; (5) to do all other things required of Contractor by the Contract; and (6) to provide, perform, and complete all of the foregoing in a proper and workmanlike manner and in full compliance with, and as required by and pursuant to, the Contract; all of which is herein referred to as the "Work," whether or not any of said Work enter into and become component parts of the improvement contemplated, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

Surety, for value received, hereby stipulates and agrees that no changes, modifications, alterations, omissions, deletions, additions, extensions of time, or forbearances on the part of either Owner or Contractor to the other in or to the terms of said Contract; in or to the schedules, plans, drawings, or specifications; in or to the method or manner of performance of the Work; in or to Owner-furnished facilities, equipment, materials, services, or sites; or in or to the mode or manner of payment therefor, shall in any way release Contractor and Surety or either or any of them, or any of their heirs, executors, administrators, successors, or assigns, or affect the obligations of Surety on this bond, all notice of any and all of the foregoing changes, modifications, alterations, omissions, deletions, additions, extensions of time, or forbearances, and

notice of any and all defaults by Contractor or of Owner's termination of Contractor being hereby waived by Surety.

Notwithstanding anything to the contrary in the foregoing paragraph, in no event shall the obligations of Surety under this bond in the event of Contractor's default be greater than the obligations of Contractor under the Contract in the absence of such Contractor default.

In the event of a default or defaults by Contractor, Owner shall have the right to take over and complete the Contract upon 30 calendar days' written notice to Surety, in which event Surety shall pay Owner all costs incurred by Owner in taking over and completing the Contract.

At its option, Owner may instead request that Surety take over and complete the Contract, in which event Surety shall take reasonable steps to proceed promptly with completion no later than 30 calendar days from the date on which Owner notifies Surety that Owner wants Surety to take over and complete the Contract.

Owner shall have no obligation to actually incur any expense or correct any deficient performance of Contractor in order to be entitled to receive the proceeds of this bond.

No right of action shall accrue on this bond to or for the use of any person or corporation other than Owner or the heirs, executors, administrators, or successors of Owner.

Signed and sealed this ___ day of _____, 2026.

Attest/Witness:	PRINCIPAL: ***[NAME OF CONTRACTOR]***
By: _____	By: _____ ***[NAME OF CONTRACTOR'S EXECUTING OFFICER]***
Title: _____	Title: ***[TITLE OF CONTRACTOR'S EXECUTING OFFICER]***
Attest/Witness:	SURETY: ***[NAME OF SURETY]***
By: _____	By: _____
Title: _____	Title: _____
	Telephone: _____

LABOR AND MATERIAL PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS: that ***[FULL NAME, ADDRESS AND ORGANIZATION OF CONTRACTOR]***, as Principal, hereinafter called Contractor, and ***[FULL NAME AND ADDRESS OF SURETY]***, as Surety, a corporation organized and existing under the laws of the State of ***[INCORPORATION]***, hereinafter called Surety, are held and firmly bound unto the Village of Oak Brook, as Obligee, hereinafter called Owner, for the use and benefit of itself and of claimants as hereinafter defined, in the full and just sum of ***[CONTRACT PRICE]*** Dollars ***[CONTRACT PRICE]***, to be paid to it or the said claimants or its or their assigns, to which payment well and truly to be made Contractor and Surety bind themselves, their heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents, said amount to include attorney's fees, court costs, and administrative and other expenses necessarily paid or incurred in successfully enforcing performance of the obligation of Surety under this bond.

WHEREAS, Contractor has entered into a written Contract dated ***[DATE OF CONTRACT AGREEMENT]***, with Owner entitled "Contract Agreement Between Village of Oak Brook and ***[CONTRACTOR'S NAME]*** for the "Oak Brook Aerial Ladder Purchase" (the "Contract"), the terms and conditions of which are by this reference incorporated herein as though fully set forth herein.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH THAT if Contractor shall promptly pay or cause to be paid all sums of money that may be due to any claimant with respect to Contractor's obligations under the Contract: (1) to provide, perform, and complete at the Work Site and in the manner specified in the Contract all necessary work, labor, services, transportation, equipment, materials, apparatus, machinery, tools, fuels, gas, electric, water, waste disposal, information, data, and other means and items necessary for design, if any, construction, and delivery of Oak Brook Aerial Ladder Purchase and together with related attachments, equipment, and appurtenances thereto; (2) to procure and furnish all permits, licenses, and other governmental approvals and authorizations necessary in connection therewith except as otherwise expressly provided in the Special Conditions of Contract; (3) to procure and furnish all bonds and certificates and policies of insurance specified in the Contract; (4) to pay all applicable federal, state, and local taxes; (5) to do all other things required of Contractor by the Contract; and (6) to provide, perform, and complete all of the foregoing in a proper and workmanlike manner and in full compliance with, and as required by and pursuant to, the Contract; all of which is herein referred to as the "Work," whether or not any of said Work enter into and become component parts of the improvement contemplated, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

For purpose of this bond, a claimant is defined as one having a direct contract with Contractor or with a subcontractor of Contractor to provide, perform or complete any part of the Work.

Contractor and Surety hereby jointly and severally agree that every claimant who has not had all just claims for the furnishing of any part of the Work paid in full, including, without limitation, all claims for amounts due for materials, lubricants, oil, gasoline, rentals of, or service or repairs on, machinery, equipment, and tools consumed or used in connection with the furnishing of any part of the Work, may sue on this bond for the use of such claimant, may prosecute the suit to final judgment for such sum or sums as may be justly due such claimant, and may have execution therein; provided, however, that Owner shall not be liable for the payment of any costs or expenses of any such suit. The provisions of 30 ILCS 550/1 and 30 ILCS 550/2 shall be deemed inserted herein, including the time limits within which notices of claim must be filed and actions brought under this bond.

Contractor and Surety hereby jointly agree that Owner may sue on this bond if Owner is held liable to, or voluntarily agrees to pay, any claimant directly, but nothing in this bond shall create any duty on the part of Owner to pay any claimant.

Surety, for value received, hereby stipulates and agrees that no changes, modifications, alterations, omissions, deletions, additions, extensions of time, or forbearances on the part of Owner or

Contractor to the other in or to the terms of said Contract; in or to the schedules, plans, drawings, or specifications; in or to the method or manner of performance of the Work; in or to Owner-furnished facilities, equipment, materials, services, or sites; or in or to the mode or manner of payment therefor shall in any way release Contractor and Surety or either or any of them, or any of their heirs, executors, administrators, successors, or assigns, or affect the obligations of said Surety on this bond, all notice of any and all of the foregoing changes, modifications, alterations, omissions, deletions, additions, extensions of time, or forbearances and notice of any and all defaults by Contractor or of Owner's termination of Contractor being hereby waived by Surety.

Signed and sealed this ___ day of _____, 2026.

Attest/Witness: PRINCIPAL: ***[NAME OF CONTRACTOR]***

By: _____ By: _____
[NAME OF CONTRACTOR'S EXECUTING OFFICER]

Title: _____ Title: ***[TITLE OF CONTRACTOR'S EXECUTING OFFICER]***

Attest/Witness: SURETY: ***[NAME OF SURETY]***

By: _____ By: _____

Title: _____ Title: _____

Telephone: _____

State of Illinois)
) SS.
County of _____)

I, _____, a Notary Public in and for said county, do hereby certify that _____ (names of individuals signing on behalf of Principal and Surety) who are each personally known to me to be the same persons whose names are subscribed to the foregoing instrument on behalf of PRINCIPAL and SURETY, appeared before me this day in person and acknowledged respectively, that they signed and delivered said instrument as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this ____ day of _____, 2026.

_____
Notary Public

My commission expires:

_____

Fire Service, Inc.
experienced equipment sales & service professionals

April 15, 2026

Oak Brook Fire Department
1200 Oak Brook Rd
Oak Brook, IL 60523

Dear Village of Oak Brook and Oak Brook Fire Department:

We are pleased to present our proposal for purchasing (1) E-One 100' CR Rear Mount Ladder detailed in specifications #151280. Payment for the truck is due upon final inspection. An invoice will be provided 30 days before shipment. This proposal is valid until 07/30/2026. Delivery time frame is approximately 42 months form order date.

- E-One Typhoon Chassis, Aluminum Body Aerial with 500-gallon tank
- A 100' heavy duty Aluminum Aerial Ladder, 2.5 to 1 Safety factor
- Final inspection E-One Facility.
- Delivery to Oak Brook, IL
- Three days of training at your facility
- Various extended warranties available

The price for this unit, as specified at delivery and acceptance, is:

$1,840,000.00

E-One does offer a 137' ladder, in the CR model line, same body configuration for an additional:

$55,000.00

Thank you for your interest in E-One and Fire Service Inc.

Sincerely,

Anthony Bucci

Sales Rep.- Fire Service Inc.
847-721-8669
tbucci@fireserviceinc.com

OAK BROOK FIRE DEPARTMENT

OAK BROOK, IL

QUOTE 151280

AERIAL BODY

E-ONE TYPHOON CHASSIS

CR100 AERIAL

THIS DRAWING IS FOR REFERENCE PURPOSES. ALL DIMENSIONS ARE SUBJECT TO MINOR VARIATIONS DUE TO MANUFACTURING PROCESSES.

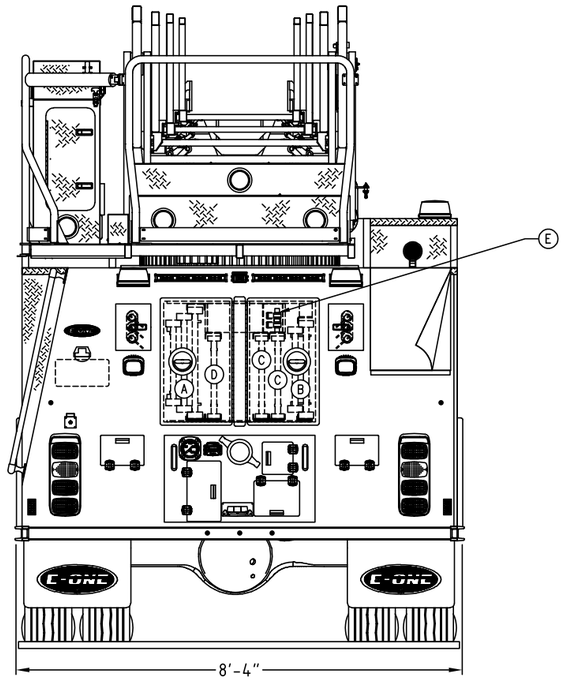
This print is the property of E–ONE, Inc. and is loaned to you subject to return on demand, unless otherwise agreed to in writing by E–ONE, Inc. Its contents are confidential and must not be copied or submitted to third parties for use or examination.

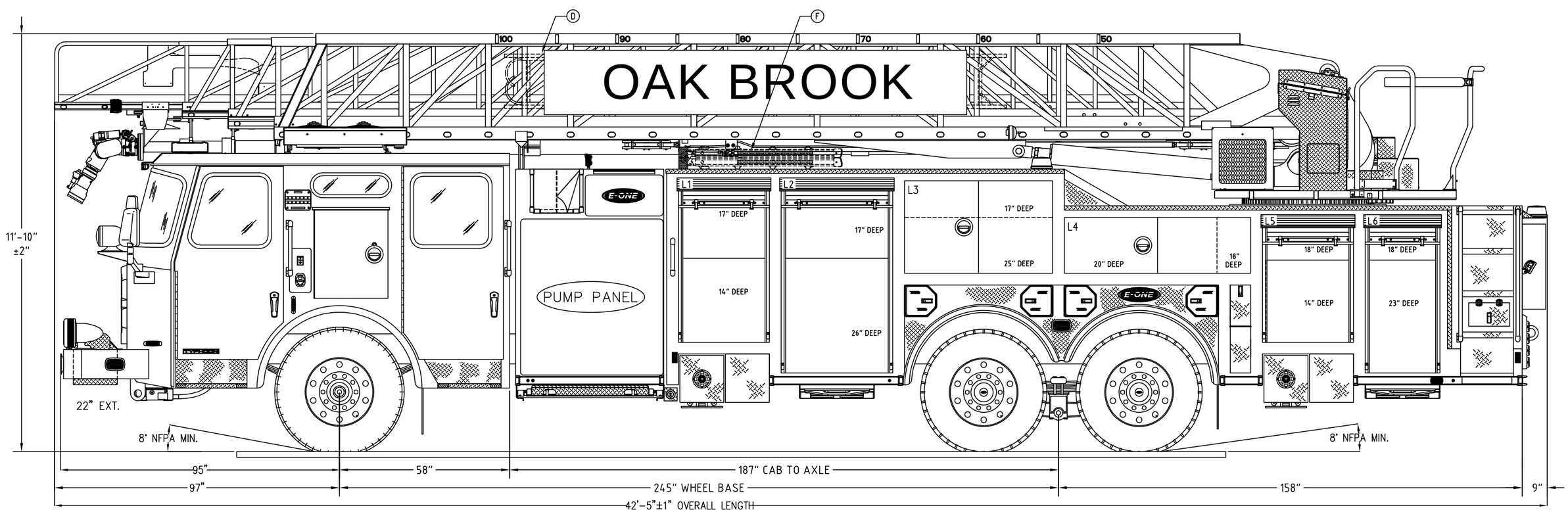
1500 GPM HALE QMAX PUMP 500 GALLON WATER TANK	HOSE LOAD: 550' OF 5.00" LDH 1000' OF 2.50" DJ

COMPT.	OPENING	INTERIOR DIMENSION
L1/R1	29W 46H	31W 26H 17D UPPER 31W 29H 14D LOWER
L2/R2	36W 56H	38W 26H 17D UPPER 38W 39H NOTED LOWER
L3	50W 31H	50W 12H 17D UPPER 50W 19H 26D LOWER
R3	31W 19H	30W 19H 14D
L4	63W 19H	63W 19H NOTED
R4	49W 30H	49W 30H 23D
L5	29W 42H	31W 14H 18D UPPER 30W 28H 14D LOWER
L6	23W 44H	25W 14H 18D UPPER 25W 38H 23D LOWER

GROUND LADDERS

ITEM	LADDER LENGTH	MODEL NUMBER	QTY	
A	35' 3–SECT.	PEL3–35	1	
B	28' 2–SECT.	PEL–28	1	
C	16' ROOF	PRL–16	2	
D	14' ROOF	PRL–14	2	ONE ON AERIAL
E	10' FOLDING	FL–10	1	
F	LITTLE GIANT	MODEL 17	1	





MNAVETTA	A	INITIAL REVIEW	2026-APR-14	MNAVETTA
DRAWN BY	REV	DESCRIPTION	DATE	APPROVED
		APPROVAL REVISIONS		SHEET 1 OF 2

OAK BROOK FIRE DEPARTMENT

OAK BROOK, IL

QUOTE 151280

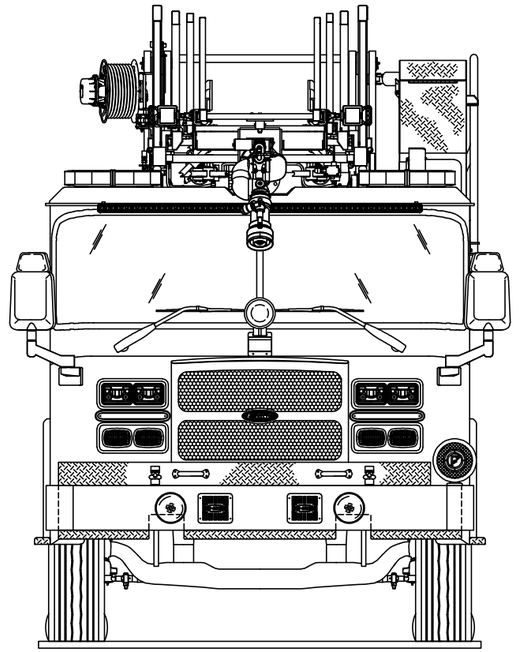
AERIAL BODY

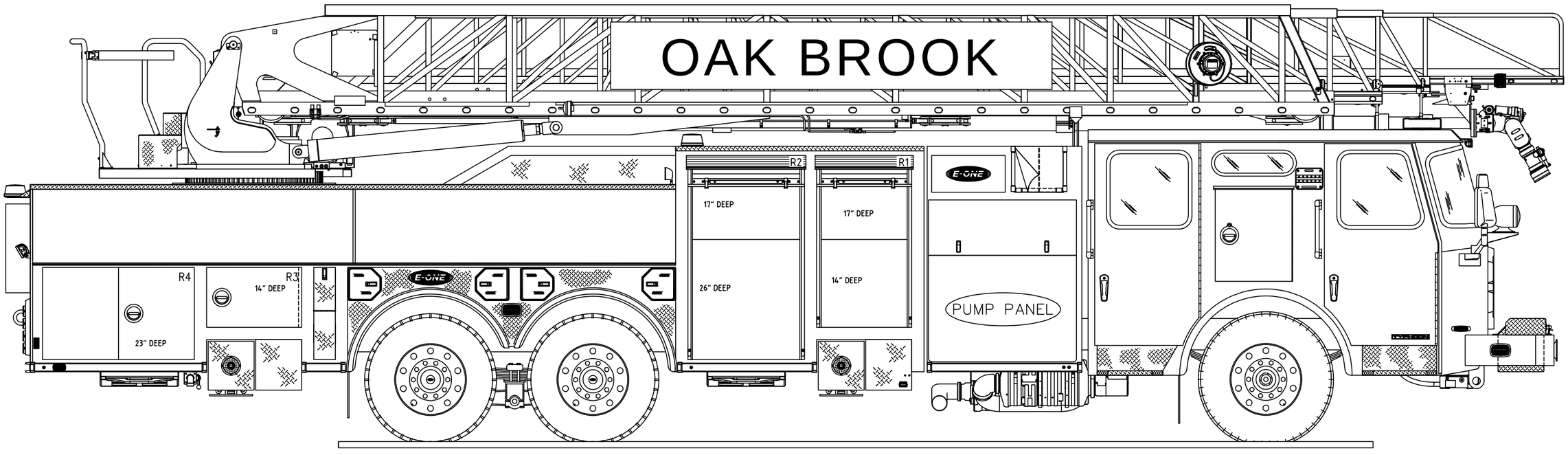
E-ONE TYPHOON CHASSIS

CR100 AERIAL

THIS DRAWING IS FOR REFERENCE PURPOSES. ALL DIMENSIONS ARE SUBJECT TO MINOR VARIATIONS DUE TO MANUFACTURING PROCESSES.

This print is the property of E–ONE, Inc. and is loaned to you subject to return on demand, unless otherwise agreed to in writing by E–ONE, Inc. Its contents are confidential and must not be copied or submitted to third parties for use or examination.





MNAVETTA	A	INITIAL REVIEW	2026-APR-14	MNAVETTA
DRAWN BY	REV	DESCRIPTION	DATE	APPROVED
		APPROVAL REVISIONS		SHEET 2 OF 2

Fire Service, Inc.
experienced equipment sales & service professionals

April 15, 2026

Oak Brook Fire Department
1200 Oak Brook Rd
Oak Brook, IL 60523

Dear Village of Oak Brook and Oak Brook Fire Department:

We are pleased to present our proposal for purchasing (1) KME Tuff Truck 103' Rear Mount Ladder detailed in specifications #11575. Payment for the truck is due upon final inspection. An invoice will be provided 30 days before shipment. This apparatus is coming off the line in 2nd quarter of 2026.

- Predator Chassis, 103' Steel ladder with 650-gallon tank
- 12-foot jack spread with no restrictions on ladder operations
- Final inspection at KME Facility.
- Pre-delivery inspection by Fire Service Inc.
- Delivery to Oak Brook, IL
- Up to three days of training at your facility
- Various extended warranties available

The price for this unit, as specified at delivery and acceptance, is:

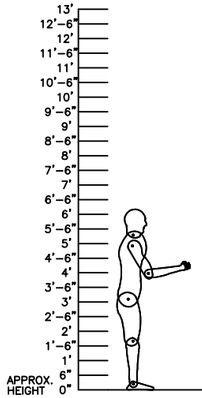
$1,790,000.00

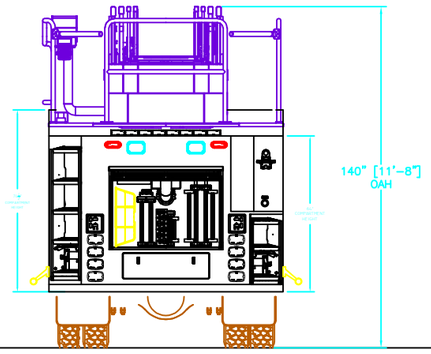
Thank you for your interest in E-One and Fire Service Inc.

Sincerely,

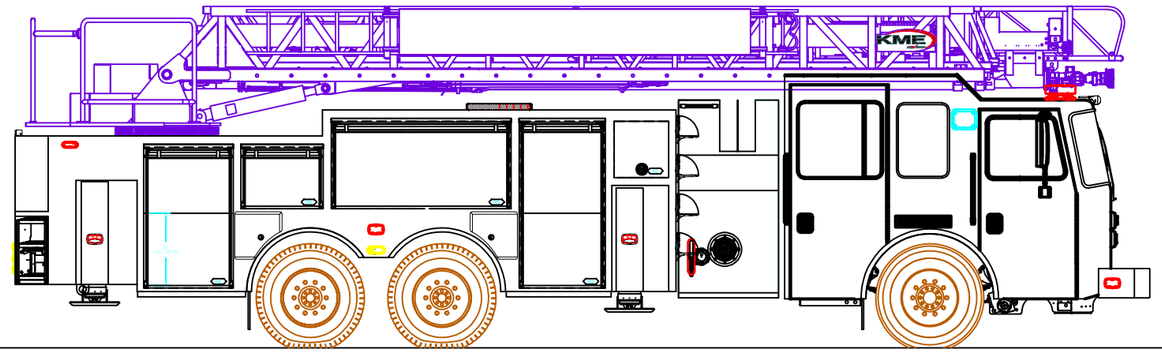
Anthony Bucci

Sales Rep.- Fire Service Inc.
847-721-8669
tbucci@fireserviceinc.com

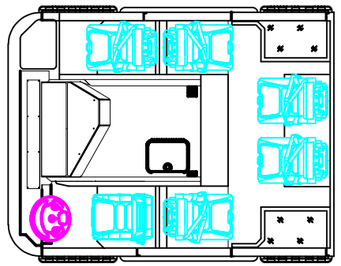


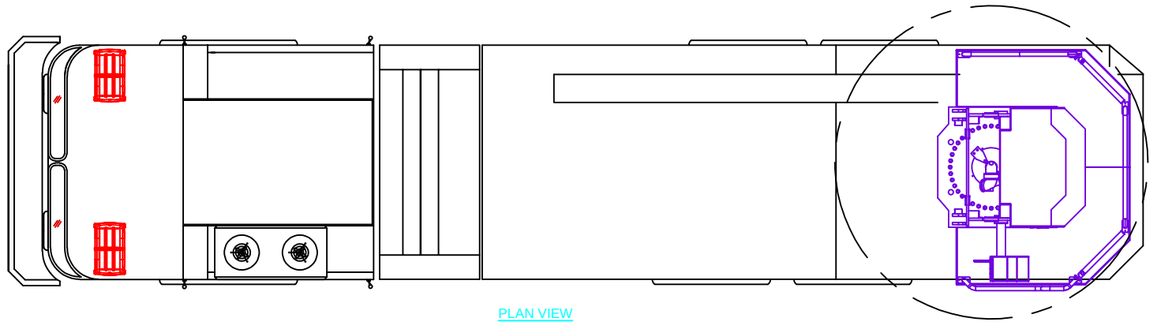


REAR VIEW

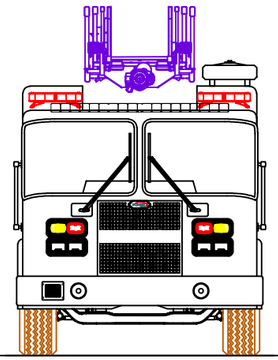


OFFICER'S SIDE VIEW

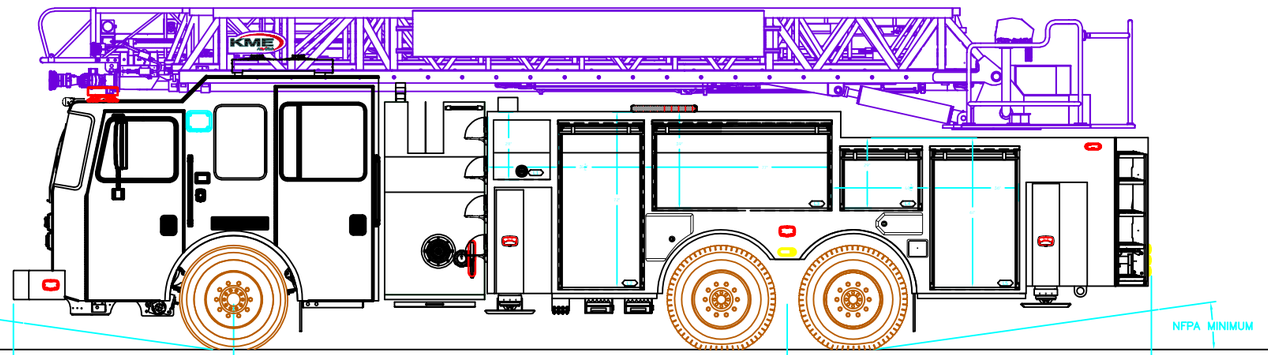




PLAN VIEW



FRONT VIEW



DRIVER'S SIDE VIEW

SYM	DATE	REVISION DESCRIPTION	APP'D

SALES ENGINEER : TBD

DIMENSIONS ARE APPROXIMATE & MAY VARY DUE TO BUILD ADJUSTMENTS

SCALE	DWG SIZE	DRAWN BY	DATE
NONE	B	Z.ZSCHUNKE	01/27/24
		APPROVED BY Z.ZSCHUNKE	

103' REAR MOUNT LADDER

GROSSE ILE, MI

GSO 11575

KME
REV GROUP
KME
ONE INDUSTRIAL COMPLEX - NESQUEHONING, PA 18240

Start of E-One Specs

Fire Apparatus Quotation for:
OAK BROOK FIRE DEPARTMENT

Quotation Number: 151280 Rev: 21

Unit Description: AERT-TYPN-100L

Quote Description: Aerial, RM, Aluminum, Tandem Axle, Typhoon, 100 Foot Ladder Salesperson: TBUCCI

Salescode	Extended Description	Qty	
TESTING COMPLIANCE STANDARD			
1001-0103	The E-ONE supplied components of the vehicle shall meet the requirements of NFPA 1900, 2024 edition.	1	
3090-0002	OAH. Unit has no overall height restrictions.	1	
3090-0004	OAL. Unit has no overall length restrictions.	1	
3090-0006	The hose bed is to have the capacity for the following hose. Hose load shall be listed from driver to officer.	1	Lay 1 - 550 ft. of 5.00 LDH Lay 2 - 1000 ft. of 2.50 DJ Estimated Weight - 1175 lbs.
3340-1137-12C	Equipment allowance on the apparatus shall be 2500 lbs. This allowance is in addition to the weight of the hoses and ground ladders listed in the shop order as applicable.	1	
BUMPERS			
1160-0008	3/16" Front Bumper Gravel Shield.	1	
1160-0208	22" Front Bumper Gravel Shield Extension.	1	
1160-0345	Heavy duty, formed, 10" front bumper with full wrap around. Corners to be tapered for up to an 8.5" wide mounting area (Units with drop style frame extension and recess notch mayl reduce size of mounting area). Includes support wings for outboard sides (as applicable). To be painted job color unless otherwise specified.	1	
BUMPER TRAYS			
1150-0147	Diamond plate lid for driver, center, and officer hose trays. 5.25" high with dual chrome grab handles, SS butterfly latches and gas shocks.	1	
1150-0368	Bumper tray with floor/bottom slotted to allow drainage (no slats). Extending full width of the bumper as applicable based on outboard options. Includes notched frame extensions to provide maximum available depth directly above the extensions. Tray to be 12" deep on all three sections.	1	
FRAME ASSEMBLY			

Salescode	Extended Description	Qty	
FRAME ASSEMBLY			
1250-0005	Frame - Torque box for tandem axle RM aerial.	1	
1250-0092	GEOMET coated frame assembly fasteners.	1	
AXLE OPTIONS			
1025-0023	Meritor RT-50-160 rear tandem axle 54,000 lb. capacity.	1	
1025-0028	Koni shock absorbers for front axle - adjustable.	1	
1025-0030	Stemco sight glass for front axle hubs. Inboard wheel seals will be Chicago Rawhide (or equivelant).	1	
1025-0171	Dana D-2200W 24,000 lb. front axle. Includes maintenance free bushings. For use with disc brakes only.	1	
SUSPENSIONS			
1070-0002	Rear suspension springs rated equal to the capacity of the axles.	1	
WHEEL OPTIONS			
1050-0001	Alcoa aluminum wheels for front axle (2).	1	
1050-0005	Alcoa aluminum wheels for rear axles (8).	1	
1050-0007	Front axle wheel trim kit. Includes stainless steel lug nut covers (chrome plated plastic if applicable) and center cap with E-ONE logo. Note: Center cap will have an inspection port IPO a logo if equipped with Stemco oil seals.	1	
1050-0009	Rear axle (tandem) wheel trim kit. Includes stainless steel lug nut covers (chrome plated plastic if applicable) and center caps with E-ONE logo. E-ONE custom chassis w/steel wheels will have chrome plated plastic lug covers.	1	
TIRE OPTIONS			
1060-0043	Two Michelin 425 tires model XZY3 for front axle.	1	
1060-0113	Intermittent service tire rating.	1	
1060-0119	RWC AirGuard LED tire pressure monitoring valve stem caps (10) for tandem rear axle applications.	1	
1060-0213	Eight Michelin 12R rear tires with Mud and Snow X MULTI GRIP D tread.	1	
BRAKE SYSTEMS			
1100-0006	Parking brake release mounted on the driver's side lower dash.	1	
1100-0008	Brake system air 6X4/6X6.	1	
1100-0014	ArvinMeritor 16-1/2" x 7" S-cam brakes with cast brake drums for a tandem rear axle.	1	
1100-0026	G4 Electronic Stability Control (6x4), Includes RSC and ATC. Not available on 6x6	1	

Salescode	Extended Description	Qty	
BRAKE SYSTEMS			
	or commercial chassis.		
1100-0031	Dana/Bendix ADB22X 17" disc brakes for front axle.	1	
AIR SYSTEM OPTIONS			
1110-0000-001	Inlet for air system. Location: driver door jamb.	1	
1110-0002	Air dryer Bendix AD-9.	1	
1110-0004	Air tank drains w/pull cords.	1	
1110-0005	Automatic moisture ejectors, heated.	1	
1110-0006	Air lines nylon.	1	
1110-0026	Air horns Hadley e-tone recessed in bumper (PR).	1	
1110-0027	Isolated air tank. Includes pressure protection valve.	1	
1110-0043	Auxiliary air tank to be plumbed to the following optional accessories (if equipped): Chassis air horns, brake system air outlet, air reel, light tower, air primer, air operated devices and or customer/dealer installed pneumatic add-on(s).	1	
1110-0096	Stainless steel mounting straps for air tank.	4	
1110-0129	Diamond plate flip cover for air inlet or outlet with label mounted in driver's door jamb.	1	
ENGINES & TRANSMISSIONS			
1200-0017	Push-button transmission shift selector.	1	
1200-0021	TranSynd, Shell Spirax S6ATF A295, or equivalent synthetic transmission fluid for EVS4000 series.	1	
1200-0096	Electronic speed limiting set at 60 MPH. Note: Axle gear ratio will be as low as possible while allowing for 60 MPH top speed to improve acceleration.	1	
1200-0491	Eng/Trans Cummins X15 565HP/1850TQ with EVS4000P transmission. 2027 EPA Compliant. Includes Acumen telematics and Certified Clean Idle holographic decal. Note: Until the 2027 EPA engine integration is finalized, option availability and body design relative to engine and aftertreatment are subject to change. Additional costs associated with the 2027 EPA engine will be passed on to the end user. No exceptions.	1	
1200-0495	Transmission cooler. Required with 2027 EPA engine/trans w/o trans retarder.	1	
SECONDARY BRAKING			
1125-0002	Jacobs engine compression brake. Note: Brake lights will illuminate when auxiliary brake is activated.	1	

Salescode	Extended Description	Qty	
SECONDARY BRAKING			
1125-0023	Transmission to seek second gear when Jacobs engine brake or Telma retarder is engaged. N/A with Trans retarder.	1	
EXHAUST OPTIONS			
1225-0086	Firwin exhaust blanket from the turbo down to the DPF and between the DPF and SCR. Required on 2027 EPA engines.	1	
COOLING PACKAGE			
1800-0041	Cooling system for use with Typhoon and Cyclone chassis. For use with 2027 EPA engines. Includes fan clutch.	1	
FUEL SYSTEMS			
1350-0004	Fuel system 50 gallon saddle tanks.	1	
1350-0022	Fuel line hose rubber.	1	
1350-0101	Fleetguard fuel/water separator (or equivalent). Shall include indicator light and audible alarm.	1	
1350-0102	Fuel shut-off valves (3). Locate each side of fuel / water separator and at tank.	1	
ALTERNATOR			
1700-0005	Alternator Leece Neville 320 amp. 320 amp SAE/272 amp NFPA.	1	
BATTERIES			
1400-0002	Battery four group 31 1000 CCA.	1	
CHASSIS OPTIONS			
1680-0007	Drivelines 1810. Required on 1550 lb/ft torque or greater engines. N/A with EVS3000 transmission.	1	
1680-0008	Tow eyes front painted below bumper/cab (PR). Tow eyes will be integral when used with a drop style frame extension.	1	
1680-0012	Tow eyes rear frame painted black.	1	
1680-0017	Hot shift PTO.	1	
1680-0188	Aerial hydraulics installed on bottom port of EVS4000/4500 transmission (to allow for flat rear cab floor).	1	
1680-0250-M58	Diesel Exhaust Fluid (DEF) 5 gallon tank. Location: left side below rear of cab.	1	
1680-0284	Radiator mounted power steering cooler.	1	
1680-0520	JA Lube auto lube system for chassis points (up to 26) and jack system points (up to 12). Note: for HP75/78 use 1680-0519.	1	
CAB MODEL			

Salescode	Extended Description	Qty	
CAB MODEL			
1520-0219	Typhoon medium cab with radial wipers (58" CA).	1	
CAB ROOF TYPE			
1615-0004	Cab roof to be "flat" with trough for waterway. Required with HM100 (with waterway), HP100 (all), CR100/92 Pltfm (SdStckr and W/O/P) or HP/HPS100 Pltfrm (all).	1	
CAB BADGE PACKAGE			
1610-0000	Cab and body to have applicable E-ONE logos.	1	
CAB DOOR OPTIONS			
1550-0003	Rear crew cab doors in the medium position.	1	
1550-0081	Cab door locks - electric. Includes driver side exterior touchpad, (2) remote key fobs, barrel style key lock on exterior of each door and manual interior lock on each door.	1	
1550-0084	All cab exterior entry doors to have 1250 keyed locks.	1	
1550-0178-000-J7	Red/Fluorescent Yellow Green Reflexite V98 chevron "A" stripe on lower cab door panel approx 12" high. Stainless steel/painted door panels only. E-ONE cabs only.	1	
1550-0185	Cab door panels aluminum painted multi-tone to match cab interior paint. Includes upper and lower panels with seam below handrail.	1	
1550-0245	Anodized aluminum trim on the vertical edge of the exterior cab compartment openings. Includes wheel well and rear compartments (as applicable).	1	
1550-0265	Anodize aluminum trim on bottom edge of the exterior cab compartment openings. Includes wheel well and rear compartments (as applicable).	1	
1550-0285	Driver and officer door windows to be power actuated with HD regulators. Switches to be located at center dash. For use with new Typhoon and 100" wide Cyclone cabs.	1	
1550-0286	Rear crew cab door windows to be power actuated with HD regulators. Switches to be located on each door with add'l switches accessible by driver. For use with new Typhoon and 100" wide Cyclone cabs.	1	
1550-0287	Cab doors to be barrier style. For use with new Typhoon and Cyclone only.	1	
1550-0378	All cab doors shall have exterior pull style handles with chrome metal base and integral key lock.	1	
CAB STEP OPTIONS			
1640-0047	Lower steps to extend 3.5" past cab. For use with legacy Typhoon / Cyclone with barrier style doors and new Typhoon / Cyclone with barrier style or extended doors.	1	

Salescode	Extended Description	Qty	
MIRRORS			
1670-0002-274	Ramco 8001MCR mirrors. Remote controlled with bottom manual convex. Location: mounted on front corners of cab.	1	
1670-0031	2" extension for Ramco mirrors.	1	
1670-0088	Driver and officer Ramco cab mirrors to be heated. Includes all surfaces (flat and convex, as applicable).	1	
MISC EXTERIOR CAB OPTIONS			
1550-0035	No window on the driver side of the cab	1	
1550-0036	No window on the officer side of the cab.	1	
1675-0022	Pair of 18" handrails located just behind driver and officer front door one each side.	1	
1675-0023	Pair of 18" handrails located just behind driver and officer rear door (ALS doors if equipped) one each side.	1	
1675-0030	Mud flaps, front, black with E-ONE logo.	1	
1675-0047	Rear cab wall to be 3/16" aluminum diamond plate.	1	
1675-0201	Large radius cab wheel well. Includes bolt-on adjustable wheel well trim.	1	
1675-0202	Mounting plate for battery charger receptacle, indicator, air inlet, etc (if applicable). Plate to be removable brushed stainless steel.	1	
HVAC			
1515-0133	Air conditioning with roof top mounted condenser. Includes reduced profile evaporator w/powder coated cover, brushless motors and a rear fan speed switch on the driver side of the rear air distribution housing. Requires A/C controls in multiplex display.	1	
1685-0057	Heaters cab rear with covers (PR), and front heater with heat to the feet for the driver and officer.	1	
SEATS			
1510-0004	Seats, Bostrom brand.	1	
1510-0008	Seat color gray.	1	
1510-0037	Seat cover material Durawear.	1	
1510-0063	Two man bench centered on rear wall with Bostrom SCBA. Includes angled corners.	1	
1510-0116-130	Fold-down seat located driver's side outboard.	1	
1510-0116-132	Fold-down seat located officer's side outboard.	1	
1510-0124	Officer seat fixed Bostrom with SCBA back and integral seat belt.	1	

Salescode	Extended Description	Qty	
SEATS			
1510-0211	Driver seat to be Bostrom air ride with integral seat belt. 400 Series	1	
1685-0033	Seating capacity tag of six occupants.	1	
MEDICAL CABINETS			
1535-0202	Finish. Cab medical/storage cabinet(s) finish to be multi-tone gray. Includes interior/exterior of cabinet and shelves/trays if equipped.	1	
1535-0319	Driver side cab wheel well medical cabinet with external locking pan door painted job color. No interior access. Cabinet is approximately 30H x 28W x 24D on Typhoon and Cyclone and 30H x 28W x 27D on 100" wide Cyclone and Quest (viewed from exterior).	1	
1535-0320	Officer side cab wheel well medical cabinet with external locking pan door painted job color. No interior access. Cabinet is approximately 30H x 28W x 24D on Typhoon and Cyclone and 30H x 28W x 27D on 100" wide Cyclone and Quest (viewed from exterior).	1	
MISC INTERIOR CAB OPTIONS			
1685-0006	Padded sun visors, driver and officer's side overhead.	1	
1685-0114	Integrated Head Curtain (IHC) for RollTek air bag system.	4	
1685-0115	Integrated Belt Pretensioner (IBP) for RollTek air bag system.	6	
1685-0187	Severe duty engine cover, molded polyurethane.	1	
1685-0291	4Front air bag system with steering wheel bag, driver knee bag and officer knee bag. Requires RollTek option.	1	
1685-0365	Air ride seat pull down (S4) for RollTek air bag system.	1	
1685-0446	Severe duty overhead console. Includes driver, center and officer overhead ahead of air conditioning plenum. Center overhead includes siren mounting locations. Overhead to match cab interior.	1	
1685-0449	3/16" aluminum plate on top engine cover forward of access door approx. 32"W x 12.5"L. Finish to match cab interior and be spaced up approx 1/2". Not available with cup holders. (C2X or T2X only)	1	
1685-0490	Control lanyard Y type with "Heavy-Duty" (keyring) attachment for air horns. Aircraft style cable (1/8" wire cable covered with clear plastic/nylon tubing).	1	
1685-0669	Severe duty dash package with low profile center section. Cast alum construction. Includes smooth plate alum lower kick panels; all painted to match cab interior.	1	
1685-0683	Exterior access cabinets only to not be vented to cab interior. For use with, but not limited to, clean cab configurations.	1	
1685-0692	Cab insulation package. Includes insulation for ceiling, front wall, rear wall, side	1	

Salescode	Extended Description	Qty	
MISC INTERIOR CAB OPTIONS			
	walls, below seat risers and in doors.		
1685-0891	Cab interior padding to be gray.	1	
1685-0992	Integrated Roll Sensor (IRS) for RollTek air bag system.	1	
CAB ELECTRICAL OPTIONS			
1750-0024-179-04	Auto-Eject receptacle inlet 20 amp located outside driver's door next to handrail with a Yellow cover.	1	
1750-0032	Switch horn button three position DOT/air horn/electronic siren.	1	
1750-0046-194	Cab Headlights. Position: upper.	1	
1750-0073-585	Antenna base Tessco P/N 90942 (NMO Motorola Style - also called MATM style) on cab roof. Location: driver side forward with coaxial cable terminating at the center of the dash board.	1	
1750-0073-586	Antenna base Tessco P/N 90942 (NMO Motorola Style - also called MATM style) on cab roof. Location: driver side rearward with coaxial cable terminating at the center of the dash board.	1	
1750-0166	ATC override switch.	1	
1750-0198-A31	Battery charger to be located behind driver's seat.	1	
1750-0343	Battery charger E-ONE LPC 20. 120 volt inlet, 20 amp output. Includes status indicator panel located next or close to electrical inlet receptacle or otherwise specified.	1	
1750-0449	Momentary DPF regeneration override switch.	1	
1750-0450	Steering wheel with switch pods IPOS. Includes wiper functions, master warning sw, air horn sw, aux brake on/off and (3) aux switches. Required with Typhoon and Cyclone equipped with 4Front and all Quest. (Requires seperate programming options to activate aux switches)	1	
1750-0482	Control push-button switch officer switch panel for Q2B siren.	1	
1750-0483	Control push-button switch on officer's switch panel for Q2B siren brake.	1	
1750-0554	FireTech LED cab headlights.	1	
1750-0768	TecNiq D07 LED cab door step area lighting. Includes (2) lights at each door area. Lights to be switched with door ajar.	1	
1750-0796	Turn signal TecNiq LED strip (PR) with clear lens and polished alum housing located between quad headlight bezels (New Typhoon and Cyclone only).	1	
1750-1013-339	Dual port USB charging receptacle in the cab wired battery hot. Includes USB-A and USB-C ports. Location: center of dash.	2	
1750-1013-593	Dual port USB charging receptacle in the cab wired battery hot. Includes USB-A and USB-C ports. Location: officer side dash.	2	

Salescode	Extended Description	Qty	
CAB ELECTRICAL OPTIONS			
1750-1016	Digital dash display for driver.	1	
5400-0057	Dome lts red/white 4" LED (4). Lights to be located two front and two rear. White light wired through door and light assembly mounted rocker switch. Red light through light assembly mounted rocker switch.	1	
AERIAL BODY			
3060-0028	Body aerial CR100/137/95-Platform SideStacker for use with 500 tank. Includes driver and officer side full height compartments, extended height L1/L2/L3 and R1/R2 compartments, extended hosebed (to rear), individual rear side compartments, left rear staircase with pocket style drop down step and 34" wide ladder tunnel. Requires separate pump module option.	1	
BODY COMPT REAR			
3110-0360	Rear of body to have un-painted smooth plate overlay style body panels to facilitate rear body striping.	1	
AERIAL BODY OPTIONS			
3310-0032	Recessed tubes for (6) pike poles. Not available on HP75 SideStacker.	1	
3310-0051	Crosslay double to hold up to 200' of 2.0" DJ (each). Includes storage pan to rear of crosslays (if applicable).	1	
3310-0071	Boxed out rear ladder tunnel doors. Vertically hinged smooth plate. Doors and exterior surfaces of extension to match rear body finish.	1	
3310-0096	Doors for rear master and jack control controls. Doors will match rear body finish.	1	
3310-0162	Jack leg opening covers diamond plate (4) sets. Includes diamond plate outrigger covers and fixed diamond plate filler panels. HM100/HR100/110 requires surface mount warning lights.	1	
3310-0303	Auxiliary jack pad 24X24 (4) with 20 degree formed handle. Includes (4) mounting brackets.	1	
3310-0513	Fuel fill hinged door and fixed panel below door each side to rear of rear axle to be diamond plate.	1	
3310-0611	Storage box for handheld jack control. Approx size: 14"wide x 8" high x 12" deep. Includes hinged access door with push button latch. Locate in driver side rear staircase above second step from bottom recessed in back wall. Door material to match staircase platework finish.	1	
DOORS			
3300-0007-017	Door single vertical hinged painted. Location(s): R3	1	
3300-0021-007	Door roll up short (up to 45") with painted finish ROM. Location(s): L5.	1	

Salescode	Extended Description	Qty	
DOORS			
3300-0022-003	Door roll up tall (greater than 45") with painted finish ROM. Location(s): L1.	1	
3300-0022-004	Door roll up tall (greater than 45") with painted finish ROM. Location(s): L2.	1	
3300-0022-008	Door roll up tall (greater than 45") with painted finish ROM. Location(s): L6.	1	
3300-0022-015	Door roll up tall (greater than 45") with painted finish ROM. Location(s): R1.	1	
3300-0022-016	Door roll up tall (greater than 45") with painted finish ROM. Location(s): R2.	1	
3300-0066-003	Drip pan for a ROM roll-up door (EA). Location(s): L1.	1	
3300-0066-004	Drip pan for a ROM roll-up door (EA). Location(s): L2.	1	
3300-0066-007	Drip pan for a ROM roll-up door (EA). Location(s): L5.	1	
3300-0066-008	Drip pan for a ROM roll-up door (EA). Location(s): L6.	1	
3300-0066-015	Drip pan for a ROM roll-up door (EA). Location(s): R1.	1	
3300-0066-016	Drip pan for a ROM roll-up door (EA). Location(s): R2.	1	
3300-0289-005	Door double vertical hinged w/rotary latches - painted . Location(s): L3 Includes latch handle extension installed on secondary door's interior latch with "PULL" tags using .125 plate.	1	
3300-0289-006	Door double vertical hinged w/rotary latches - painted . Location(s): L4 Includes latch handle extension installed on secondary door's interior latch with "PULL" tags using .125 plate.	1	
3300-0289-018	Door double vertical hinged w/rotary latches - painted . Location(s): R4 Includes latch handle extension installed on secondary door's interior latch with "PULL" tags using .125 plate.	1	
3300-0368	Pull-down bungee type straps for full height and high side roll-up door(s) on body / pump module. For use with ROM and AMDOR doors only.	1	
SHELVES			
3370-0246	Adjustable shelf for non-transverse compartments. Location:	8	
TRAYS / TOOLBOARDS			
3380-0498	Tray, floor mounted roll-out with gas spring. 500 lbs. capacity. Location:	2	
3380-0625	Vertical hinged heavy duty swing-out smooth aluminum toolboard with PAC TRAC model PM-1000 pivot mount assembly hinge along forward compartment wall (unless otherwise stated in location) and position centered between door and back wall. Includes latch to secure in the closed position that is accessible from the ground. Location:	1	
COVERS			
3305-0007-000-13	Vinyl Black hose bed cover with attached rear flap(s).	1	

Salescode	Extended Description	Qty	
COVERS			
3305-0008-000-13	Vinyl Black crosslay cover with attached side flaps.	1	
PUMP MODULE			
3130-0723	Pump panel opening is 46" wide.	1	
3130-1087	Side mount pump module for aerials. Extruded aluminum with runningboards.	1	
PUMP PANELS			
3134-0016	Stainless steel driver and officer side pump panels.	1	
3134-0055	Officer side upper pump access panel to be horizontally hinged with stainless steel door. Includes (2) push button latches and (2) hold open devices.	1	
MISC PUMP PANEL OPTIONS			
4460-0003	Pump panel tags color coded per NFPA compliance.	1	
PUMP MODULE OPTIONS			
3136-0000-202	Air horn switch at pump panel. Switch to be labeled "Evacuation Alert". Location: driver side pump panel.	1	
3136-0011	P-Rubber in flex joint(s) between pump module and/or body modules.	1	
WATER TANK			
4010-0033	500 Gallon Water "T" Tank. For use with Aerial applications only.	1	
TANK PLUMBING			
4450-0010	2" tank fill Akron manual valve.	1	
4450-0022	3" tank to pump Akron manual valve.	1	
LADDER STORAGE / RACKS			
3340-0111-701	Horizontal ladder bracket. Location and type of ladder: over L1 for Little Giant model 17 Revolution 2.0 (any other model will require special request).	1	
3365-0013-600	Center mounted ladder tunnel. Ladder rack to hold: PEL3-35, PEL-28, (2)PRL-16, PRL-14 and FL-10.	1	
HANDRAILS / STEPS			
3330-0075-050	Slideout platform - SlideMaster. Location: below driver side pump panel.	1	
MISC BODY OPTIONS			
3340-0090-000-13	Turtle Tile Brand Black Floor Matting covering all applicable Compartment Floors, Shelves, and Rollout Trays. Does not include roof top compartments (Added separately)	1	

Salescode	Extended Description	Qty	
MISC BODY OPTIONS			
3340-0093	Mud flaps, rear, black with E-ONE logo.	1	
3340-0145	Rub rail for the body and pump area module(s) (as applicable).	1	
3340-0653	Diamond plate tandem axle wheel well. Includes bolt-on composite wheel well liners and bolt-on polished alum fenderettes.	1	
3340-1632	Diamond plate corner guard for the rear compartment face forward of staircase(s). Guard to wrap around the corner. SideStacker or NPNT w/ side staircase aerial bodies only.	1	
3340-1648	Anodized aluminum trim on bottom edge of all body compartment openings including pump enclosure if applicable with painted edges.	1	
3340-2746	The painted SideStacker aerial body side panels shall be FRP overlays.	1	
SCBA BOTTLE STORAGE			
3320-0009	SCBA Bottle Storage. (8) Cast Product SCBA bottle storage with gasketed doors. (4) each side in rear wheel well area.	1	
3320-0100	Strap, loop style to retain SCBA bottle(s). Locate one per bottle in each exterior body storage compartment.	1	
PUMPS			
4005-0031	Rating 1500 GPM.	1	
4005-0196	Hale QMAX 1000-2250 GPM single stage pump. Requires primer option.	1	
PUMP CERTIFICATION			
4475-0000	Pump certification 750-2250 GPM (or metric/imperial equivalent).	1	
PUMP OPTIONS			
4015-0013	Fire Research ThrottleXcel engine throttle. Includes engine gauges.	1	
4015-0018-202	Valve Inlet MIV-E - Hale. Location: driver side pump panel.	1	
4015-0018-203	Valve Inlet MIV-E - Hale. Location: officer side pump panel.	1	
4015-0022	Mechanical pump seal - Hale.	1	
4015-0029	Hale pressure relief valve. Hale Qmax, or Qflo only.	1	
4015-0045	Throttle Selection Switch on Pump Operator's Panel for Back-Up of Relief and Throttle System.	1	
4015-0053-198	Steamers to be Flush + 1". Location: driver's side.	1	
4015-0053-199	Steamers to be Flush + 1". Location: officer's side.	1	
4015-0073	Manual operated master pump drain. The master drain shall be clearly marked and placed in accessible location below running board on driver side (or area directly to rear of panel if no room below panel).	1	

Salescode	Extended Description	Qty	
PUMP OPTIONS			
4015-0210	Pump cooler with Innovative Control 1/4 turn valve with "T" handle and label.	1	
4015-0238	Hale electric primer (oil-less).	1	
4015-0384	2-Button electric pump shift.	1	
INTAKES			
4440-0005	2.5" Left Intake Akron Manual Valve.	1	
4440-0006	2.5" Right intake Akron manual valve.	1	
DISCHARGES AND PRECONNECTS			
4415-0008	1.5" Front bumper discharge Akron manual valve.	1	
4415-0012-654	1.5" Crosslay with Akron manual valve. Location: crosslay 1 & 2.	2	
4415-0014-581	2.5" Left Pump Panel Discharge Akron Manual Valve. Location: left side discharge 1.	1	
4415-0014-582	2.5" Left Pump Panel Discharge Akron Manual Valve. Location: left side discharge 2.	1	
4415-0016-584	2.5" Right Pump Panel Discharge Akron Manual Valve. Location: right side discharge 2.	1	
4415-0051	4" Waterway Discharge with 3" Akron Manual Valve.	1	
4415-0054-583	4" Right Pump Panel Discharge with 3" Akron Manual Valve (Waterous pumps noted location to be forward lower port). Location: right side discharge 1.	1	
4415-0176-211	Brass Swivel in Tray officer side front bumper for Front Bumper Discharge.	1	
DISCHARGE OPTIONS			
4417-0175	Innovative Controls push/pull valve controls with locking T handles.	1	
4417-0177	Innovative Controls 3/4" bleeder/drain valve include 1/4 turn T-handle.	8	
4417-0185	Innovative Controls discharge and intake bezels with integral color code and verbiage for side mount pump panel.	1	
PRESSURE GOVERNORS			
4465-0047	FRC PumpBoss Max pressure governor (PBA500 series). Includes engine monitor gauges.	1	
GAUGES			
4435-0083	Innovative Controls 10 LED SL series water tank level gauge. On pump panel.	1	
4435-0451	Innovative Controls TC Series 2.5" (63MM) pressure gauge with chrome bezel.	8	
4435-0453	Innovative Controls TC Series 4" (100MM) Master pressure gauges with dual chrome bezel. Includes integrated test ports and alarm.	1	

Salescode	Extended Description	Qty	
GAUGES			
4435-0458	Pump panel pressure gauges to be 0-400 / Master Intake gauge if applicable to be 30-0-400.	1	
ELECTRICAL SYSTEMS			
5010-0049	Vehicle data recorder - 2009 / 2016 / 2024 NFPA compliant. Includes occupant detection shown in multiplex display. E-ONE chassis only.	1	
5010-0094	Nanoprotech (or equivalent) corrosion inhibiting spray coating to be applied on all exposed electrical connections.	1	
5010-0145	HVAC Controlled through multiplex display(s).	1	
5010-0154	ControlMaxx Electrical system for aerials.	1	
5010-0158-649	10" display for multiplex electrical system. Location: driver's side engine cover.	1	
LIGHT BARS			
5300-0506-000-4T	Front light bar LED color: RED with CLEAR lenses (If applicable, includes side facing when colors are the same.)	1	
5300-0514	Whelen MK9S short slide bolt bracket mount for mini front light bars (4).	1	
5300-0524-034	Whelen F4 Mini-Freedom LED light bars (PR) 21.5" with 5 LEDs in each bar. Location: front cab corners.	1	
WARNING LIGHTS			
5600-0105-170	Hazard (door ajar) light 2" LED. Location: center overhead.	1	
5600-0385-479-4T	Whelen Super LED ROTA-BEAM beacon (PR) model R316 Series RED with CLEAR lenses domes. Location rear upper body on aerial style brackets.	1	
5600-0385-C63-4T	Whelen Super LED ROTA-BEAM beacon (PR) model R316 Series RED with CLEAR lenses domes. Location each side to rear of L2/R2 on aerial style brackets, top of light even with top of body.	1	
5600-0787-3RH-4U	Warning light Whelen M2W Wide Angle Super LED (PR). Surface mounted w/chrome flanges (if applicable). Location: (1) each side NFPA/ULC required lower zone rear side facing, color will be RED with RED lenses.	1	
5600-0940	Mars 888 LED pedestal mounted traffic clearing light on front of cab centered below windshield. Lens color: clear.	1	
5600-0948-3RE-4U	Warning light Whelen M6 series Linear Super LED (PR) RED with RED lenses. Location: (1) each side NFPA/ULC required lower zone front facing.	1	
5600-0948-3RF-4U	Warning light Whelen M6 series Linear Super LED (PR) RED with RED lenses. Location: (1) each side NFPA/ULC required lower zone forward side facing.	1	
5600-0948-3RG-4U	Warning light Whelen M6 series Linear Super LED (PR) RED with RED lenses. Location: (1) each side NFPA/ULC required lower zone midship side facing.	1	
5600-0948-3RI-4U	Warning light Whelen M6 series Linear Super LED (PR) RED with RED lenses.	1	

Salescode	Extended Description	Qty	
WARNING LIGHTS			
	Location: (1) each side NFPA/ULC required lower zone rear facing.		
5600-0948-463-4T	Warning light Whelen M6 series Linear Super LED (PR) RED with CLEAR lenses. Location: (1) each side in front quad inboard of NFPA warning light.	1	
DIRECTIONAL LIGHT BARS			
5310-0020-170	Directional light bar control is to be located center overhead.	1	
5310-0116	Whelen split traffic advisor model TAM83S2 LED - (2) 14" long, with clear lenses.	1	
SIRENS			
5500-0009	Federal PA300 electronic siren recessed (if applicable) mounted.	1	
5500-0011-209	Federal Q2B siren - Pedestal mounted on bumper. Location: driver side front bumper. Requires activation switch.	1	
5500-0024-846	The primary electronic siren control is to be located center overhead console offset to driver side.	1	
SPEAKERS			
5510-0029-B21	Speaker, Federal Signal Dynamax ES100 with "E-ONE" grille through bumper. Location: driver side front bumper inboard of frame.	1	
5510-0029-B22	Speaker, Federal Signal Dynamax ES100 with "E-ONE" grille through bumper. Location: officer side front bumper inboard of frame.	1	
DOT LIGHTING			
5150-0017	License plate light LED with chrome housing located at the rear of the body.	1	
5150-0232	Marker light package cab / body LED. Body lights to be .75" Dia for custom cab with aerial ladder or Mid-Mount platform only.	1	
5150-0299-5WB	Front (if applicable) and rear turn signal flash pattern: populated full light.	1	
5150-0302	Whelen M6 series LED vertical mount tail lights. Includes LED stop/tail, turn and back-up lights with vertical 4 light housing and weatherproof connectors. Requires turn signal flash pattern.	1	
LIGHTS - COMPARTMENT, STEP & GROUND			
5380-0280	Ground light package TecNiq T440 4" LED - large.	1	
5380-0285	Step light package body TecNiq T440 4" LED - small.	1	
5380-0325	EON LED ladder tunnel light (EA).	2	
5380-0475	Compartment light package TecNiq E45 LED for large bodies. Includes two lights per compartment (four if transverse).	1	
5380-0476	Compartment light TecNiq E45 LED for medical cabinet (EA).	2	

Salescode	Extended Description	Qty	
LIGHTS - DECK AND SCENE			
5390-0076	Hose bed light Truck-Lite 81 Series LED. Locate at front of hose bed. Switched with work light switch in cab.	1	
5390-0169-457	Deck light FireTech, model FT-WL3500-FT LED (PR) with black housing. Switched with work light switch in cab. Location: (1) each side of body rear facing up high.	1	
5390-0217	Crosslay light Optronics LED model TLL44. Locate to rear of crosslay (SM) and forward of crosslay (TM as applicable). Switched with work light switch in cab.	1	
5390-0264-397	FireTech FT-GESM scene lights (PR) with chrome flange (when required) and weatherproof connectors. Switch in cab (driver and officer side lights switched separately). Locate: (1) each side of cab, rearward of forward doors, up high.	1	
LIGHTS - NON-WARNING			
5400-0185	LED pump compartment light (EA).	1	
5400-0224	Engine compartment light Optronics LED Series ILL22 (EA).	1	
5400-0259	TecNiq model E10 pump panel LED light package with (3) lights per side pump panel. Pump panels over 45" may require additional lights. Side mount only.	1	
CONTROLS / SWITCHES			
1750-0034-A24	Switch, additional 12 volt/15 amp. Location and function: driver rear of body for rear work lights.	1	
5100-0000-198	Foot switch to control air horns located driver's side.	1	
5100-0006-198	Foot switch to control Q2B located driver's side.	1	
5100-0165	Audible door ajar alarm wired through door ajar light. For use with multiplex display(s) only.	1	
CAMERAS / INTERCOM			
5350-0156	FRC ACT 2-way aerial intercom.	1	
5350-0192	Safety Vision back-up camera wired through multiplex display. Video displays automatically when transmission is in reverse. Camera only - does not include monitor.	1	
5350-0549	Setcom intercom kit to include a intercom model IM-950 and (4) plug in modules shall be installed within the cab. Headsets are not included and ordered separately (misc loose equip).	1	
MISC ELECTRICAL			
5110-0017	Back-up alarm 97 dB.	1	
5110-0219-762	Blue Sea 12V power distribution module model 5032. Location: behind officer's seat.	1	

Salescode	Extended Description	Qty	
LIGHTS - AREA			
5450-0321	FireTech 75" 12V brow light with integrated marker lights and black housing. Includes switch accessible to driver. Replaces front brow marker lights. Requires special bracket 5450-0340 on aerials with waterway trough. Not available on aerials with deep trough.	1	
5450-0340	Extended brow light brackets for use with FireTech front brow light with standard cab trough.	1	
RECEPTACLES			
5470-0004-763	Receptacle household 20A/110V duplex 3-prong NEMA 5-20 with cover plate interior mounted wired to inlet receptacle. Location: rear wall of driver side medical compartment up high.	1	
5470-0004-764	Receptacle household 20A/110V duplex 3-prong NEMA 5-20 with cover plate interior mounted wired to inlet receptacle. Location: rear wall of officer side medical compartment up high.	1	
AERIAL MODEL			
6100-0170	Ladder CR100 with waterway. Includes fabricated SideStacker style turntable deck, left side console with cover, turntable mansaver bars, split steps at tip and jack leg flood lights.	1	
AERIAL HYDRAULIC SYSTEM OPTIONS			
6150-0003-216	Gauge aerial hydraulic oil level. Electronic display to be located on pump operator's panel.	1	
6150-0014	Aerial hydraulic pump to be upgraded to a variable displacement style pump	1	
AERIAL CONTROLS			
6850-0050-1H5	Auto level system for aerial jacks. Includes handheld jack controller (tethered). Requires deluxe AACS on ladders. Controller location: in storage box for handheld jack control (box is a separate option).	1	
6850-0107	Advanced Aerial Control System - Ladder. Includes 7" display, wway flow / pressure, cradle and rung alignment indicators, air horn sw and monitor stow / deploy.	1	
MONITORS			
6300-0017	Monitor painted silver from OEM.	1	
6300-0250	Monitor Akron StreamMaster II for ladder (w/o nozzle). Includes tip and base controls. Requires separate nozzle option and OEM paint color option. (Note: HR100 ladder will have restrictions over 1000 GPM)	1	
6300-0256	Nozzle Akron 1250 GPM automatic (electric).	1	

Salescode	Extended Description	Qty	
WATERWAY OPTIONS			
6350-0000	Pinned waterway - upgrade. Waterway pins to section 2 or 3 on HP75 / HP78 and to section 3 or 4 on LTH100, HM100, HR100 and CR100.	1	
6350-0005	Rear 4" NST waterway inlet for rear mounted aerials. Includes chrome cap.	1	
6350-0164	Innovative Controls TC Series 4" (100MM) waterway inlet pressure gauge (0-400) with chrome bezel.	1	
6350-0175	Waterway shut-off valve - 3" electric Akron with Navigator Pro Mini controller. Mounted to allow waterway inlet to be used as a discharge. (Due to 3" valve waterway flow may be limited to 1250 GPM - N/A with Waterous CS or CM pumps on 4-jack aerials).	1	
AERIAL WARNING LIGHTS			
6550-0002	Outrigger warning lights (4) LED. Truck-Lite model 91R.	1	
AERIAL LIGHTING			
6560-0041	Whelen LED model PFBP12C at base (PR).	1	
6560-0080-000-03	Ladder climbing lights Luma Bar Pathfinder LED strip for 4 section aerial (one side). Color: Blue.	1	
6560-0203-231	FireTech model FT-WL-X-9-FT-B-SH2 LED flood/spot light with black housing. Includes switch on lighthead and turntable console. Location: left side tip.	1	
6560-0203-232	FireTech model FT-WL-X-9-FT-B-SH2 LED flood/spot light with black housing. Includes switch on lighthead and turntable console. Location: right side tip.	1	
AERIAL EQUIPMENT			
6500-0019-138	Axe bracket mounted on aerial. Includes pick cover. For use with a 6 lb axe only. Location: left side fly section.	1	
AERIAL LADDER BRACKETS			
6600-0035-248	Lift out slim profile style roof ladder bracket. Locate outside base section for a PRL/DRL-14 on left side of base section. Available on 95RM, 110, CR100/137, HR100 and LTH100.	1	
SIGN PLATES			
6750-0002-000-39	Aerial sign plates 22 x 144 (PR) painted non-metallic color. Does not include lettering. Color: Job Color.	1	
AERIAL TESTING			
6900-0000	Aerial flow test - 3rd party.	1	
6900-0007	Aerial NFPA certification.	1	
MISC LOOSE EQUIPMENT			

Salescode	Extended Description	Qty	
MISC LOOSE EQUIPMENT			
7900-0014	DOT Required Drive Away Kit - Kit includes three (3) triangular warning reflectors with carrying case. This kit is for the end user and is to remain with the truck.	1	
EXTERIOR PAINT			
8100-0062	Paint Sample Spray Out - Dealer is responsible for returning written approval prior to order release. Base color of cab / chassis. Qty one in BOM will supply a pair of paint samples (one for dealer/customer, one for factory).	1	
8100-0063	Cab paint break - standard. Break is 31.5" inches below the drip rail on Typhoon and Cyclone cabs. (100" wide Cyclone cab with 4" front raised roof to use 8100-0716).	1	
8100-0084	All applicable pump/pre-connect application modules are to have a job color finish. Includes upper and lower pump modules, crosswalk module and/or speedlay/pre-connect module (as applicable). Rear mounted body/pump module to be painted job color.	1	
8100-0087	Paint Sample Spray Out - Dealer is responsible for returning written approval prior to order release. Two-tone cab color. Qty one in BOM will supply a pair of paint samples (one for dealer/customer, one for factory).	1	
8100-0116	Rear body surface to have a sanded finish (not painted job color). Includes hinged doors that do not have discrete sales codes and removable panels.	1	
8100-0222	Paint roll up door header plate(s) job color for all painted roll-up doors.	1	
8100-0355	Paint lift cylinders, extension cylinders and upper turntable steelwork to match the "two tone" sale code color (does not apply to TT deck).	1	
8100-0396	Undercoating E-ONE. To be applied after customer final inspection.	1	
8100-0421-000-BZ	Paint air conditioning condenser cover (Non-metallic color). Paint color: to match upper cab color.	1	
8100-0595	Paint front cab grille black.	1	
8100-0838	PPG brand paint will be used on the E-ONE supplied components.	1	
8100-0841	Paint Body - Large - For Aerials, T/A Tankers, Rear Mounts and Rescues (non-metallic) paint. Color:	1	
8100-0851	Paint E-ONE cab - (non-metallic) paint. Color:	1	
8100-0853	Paint cab two-tone (non-metallic) color. Upper area of cab to be painted:	1	
INTERIOR PAINT			
8150-0011	The interior of the cab to be painted multi-tone gray finish.	1	
8150-0024	The lower area of the painted cab interior door panels to be masked off and left un-painted for reflective material.	1	
PROTECTIVE COATINGS			

Salescode	Extended Description	Qty	
PROTECTIVE COATINGS			
8175-0086-000-39	The top perimeter of the bumper to have Job Color Scorpion finish. Includes top lip, radius, and approx. 1" down. Requires formed heavy duty bumper.	1	
STRIPING			
8200-0016	White reflective tape on (4) outriggers.	1	
8300-0042	White rubrail scotchlite insert.	1	
8300-0273-000-J7	Chevron "A" style 6" Reflexite V98 striping on front bumper. Colors to be Red/Fluorescent Yellow Green.	1	
8300-0274-000-J7	Chevron "A" style 6" Reflexite V98 striping full width on rear of body. Includes rear facing extrusions, panels and doors. Colors to be Red/Fluorescent Yellow Green.	1	
8300-0331	Single NFPA Scotchlite Stripe - up to 6" wide with hockey style, Z or S style or other customer specific design style. Stripe to be installed on cab and the body. Size, color and location as specified by the customer.	1	
8300-0334	Additional NFPA Scotchlite Stripe - up to 3" wide on cab and the body. Design, size, color and location as specified by the customer.	2	
8300-0338	Paint break Scotchlite cab stripe - 3/4" wide with customer specified color. To be located above existing paint break.	1	
8300-0381	Yellow perimeter marking to indicate designated standing / walking areas above 48" high in compliance with NFPA 1900/1901 consisting of individual Reflexite diamonds approximately 1" wide. Steps, ladders and areas with a railing or structure at least 12" high are excluded from this requirement.	1	
GRAPHICS			
8400-0060	Graphics drawing showing striping, lettering and logos. Requires E-ONE installed graphics.	1	
8400-0067	E-ONE logo with grey backing on M6 series vertical tail light housing (PR).	1	
WARRANTY / STANDARD & EXTENDED			
9100-0102	Meritor 5 year unlimited miles, parts and labor rear drive single or rear drive tandem axle warranty.	1	
9100-0104	Dana 5 year unlimited miles, parts and labor front axle warranty.	1	
9100-0117	General One (1) year or 24,000 Miles Limited Warranty (RFW0001)	1	
9100-0126	Custom chassis One (1) Year or 18,000 Miles Limited Warranty (RFW0101).	1	
9100-0132	Electrical One (1) Year or 18,000 Miles Limited Warranty (RFW0201).	1	
9100-0135	Aerial Ladder Structure Twenty (20) years or 100,000 Miles Limited Warranty (RFW0403).	1	

Salescode	Extended Description	Qty	
WARRANTY / STANDARD & EXTENDED			
9100-0136	Body Structure Aluminum Ten (10) years or 100,000 Miles Limited Warranty (RFW0502).	1	
9100-0138	Cab Structural Ten (10) Years or 100,000 Miles Limited Warranty (RFW0602).	1	
9100-0139	Plumbing and piping (Stainless Steel) Ten (10) years or 100,000 Miles Limited Warranty (RFW0800).	1	
9100-0140	Paint and Finish (Exterior Clear coated) Ten (10) Years Limited Warranty (RFW0710).	1	
9100-0165	Frame Rail Lifetime (50) Years or 250,000 Miles Limited Warranty (RFW0305).	1	
9100-0168	Regulated Emissions Systems Ten (10) Years or 450,000 Miles or 22,000 Engine Hours Limited Warranty (RFW0144).	1	
9100-0169	Regulated Emissions Two (2) Year or 24,000 Miles Tire Warranty (RFW0145).	1	
9100-0170	Regulated Emissions Five (5) Year or 100,000 Miles AC Leak Warranty (RFW0146).	1	
SUPPORT, DELIVERY, INSPECTIONS AND MANUALS			
9300-0000	Vehicle familiarization aerial (Domestic). 3 consecutive days. Use 9300-0315 for additional days.	1	
9300-0009	Manuals, Operator and Service in digital format.	1	
9300-0012	Pump panel approval drawings. Will be provided on purchased units prior to construction.	1	
9300-0016	Approval Drawings-Standard.	1	
9300-0018	Manuals, Operator and Service in digital format (additional).	1	
9300-0031	Dash/Console panel layout approval drawings. Will be provided on purchased units prior to construction.	1	
9300-0304	Manuals printed (1).	1	
9300-0316	Fire Apparatus Safety Guide published by FAMA, latest edition.	1	
Dealer Supplied Equipment			

E-One Long Description Specifications 151280

Customer: OAK BROOK FIRE DEPARTMENT

TESTING COMPLIANCE STANDARD

Hose Bed Capacity

The hose bed shall have the capacity to store the following hose from the driver side to the officer side.

Overall Height Restriction

The apparatus shall have no overall height restrictions.

Overall Length Restriction

The unit has no overall length restrictions.

NFPA Compliance

The E-ONE supplied components of the apparatus shall be compliant with NFPA 1900, 2024 edition.

Equipment Capacity

Equipment allowance on the apparatus shall be 2500 lbs. This allowance is in addition to the weight of the hoses and ground ladders listed in the shop order as applicable.

BUMPERS

Front Bumper Extension

The bumper shall be extended approximately 22” from the face of the cab as required.

Bumper Gravel Shield

The extended front bumper gravel shield shall be made of 3/16” (.375”) aluminum tread plate material.

Heavy Duty Bumper

A heavy duty 10" high formed type front bumper constructed of 1/4" (.250") ASTM A36 steel shall be provided with 2 7/16" (2.4") top and bottom flanges. The front corners of the bumper shall be provided with a 45 degree tapered to produce up to an 8.5" wide mounting surface and to reduce swing clearance.

Additional support (as applicable) shall be provided from the frame rails for the outboard side areas on bumper extensions greater than 12in.

The bumper shall be painted job color unles otherwise specified.

BUMPER TRAYS

Lid, Bumper Tray

There shall be a full width diamond plate lid covering driver, center, and officer hose trays. It shall be approximately 87" wide and 5.25" high. It shall include dual chrome grab handles, stainless steel butterfly latches and gas shocks.

Recessed Bumper Tray

Hose tray constructed of 1/8” aluminum diamond plate shall be recessed into the front bumper extension with floor/bottom slotted to allow drainage (no slats). The tray shall extending full width of the bumper as applicable based on outboard options. The tray shall have multiple depth that are all 12" deep. Frame extensions shall be notched to provide maximum available tray depth above the frame rails.

FRAME ASSEMBLY

Frame Rail Construction

The chassis frame shall utilize an integral torque box type design. The integral torque box shall combine the chassis frame and aerial torque box into a single structure. The integral torque box shall provide an optimized design that lowers vehicle center of gravity, eliminates the need to torque aerial frame attachment bolts, and permits underslung outriggers to maximize body compartmentation.

The 19” high x 34” wide torque box shall be fabricated of 50,000 psi minimum yield, high strength, low alloy steel. The frame and torque box shall be made of 42.7 lbs. per foot structural channel with .500” thick top and bottom plates and .500” integral bulkhead supports. Certified welders shall construct the torque box. The design shall utilize 100% welded joints for a totally sealed box. Skip welding shall not be acceptable. Complete Finite Element Analysis and strain gauge testing shall be employed to verify minimum safety factors for road traveling (5:1) and aerial operation (2.5:1).

The completed torque box shall have the following attributes:

Resistance to bending moment 14,350,000 in. lbs.

Section modulus 287 cu. in.

The frame section immediately forward of the torque box shall have the following attributes:

Resistance to bending moment 4,907,000 in. lbs.

Section modulus 98.14 cu. in.

The torque box shall incorporate a stainless steel schedule 40 4” water pipe through the torque box for the aerial waterway discharge. In addition, the torque box shall have two (2) 3” conduits full length to encapsulate the hydraulic, air and electrical lines.

The entire assembly shall be sand-blasted and painted black before chassis assembly.

The custom chassis frame shall have a **WHEEL ALIGNMENT** in order to achieve maximum vehicle road performance and to promote long tire life. The alignment shall conform to the manufacturer`s internal specifications. All wheel lug nuts and axle U-bolt retainer nuts shall be tightened to the proper torque at the time of alignment. The wheel alignment documentation shall be made available at delivery upon request.

Coated Fasteners

The custom chassis frame assembly shall be assembled using GEOMET 720 coated fasteners for corrosion resistance.

AXLE OPTIONS

Shock Absorbers Front

Koni model 90 shock absorbers shall be provided for the front axle. The shocks shall be three way adjustable.

The shocks shall be covered by the manufacturer`s standard warranty.

Front Axle Sight Glass

The front axle shall have a Stemco sight glass on the hubs to check the lubricant level of the axle spindles.

The inboard wheel seals shall be Chicago Rawhide brand (or equivalant).

Rear Axles

The vehicle shall utilize an Meritor RT-50-160, 54,000 lb. capacity rear tandem axle with single reduction hypoid gearing.

The axle shall be equipped with oil-lubricated wheel bearings with Meritor oil seals.

An Inter-Axle Differential (IAD) shall be provided for the rear axles. The IAD shall allow for speed differences between the forward and rear axles in a tandem while also providing equal pulling power from each axle of the tandem. The IAD shall be controlled by a switch accessible by the driver.

Front Axle

The vehicle shall utilize a Dana D-2200W drop beam front axle with a rated capacity of 24,000 lbs. It shall have 71” kingpin centers. The axle shall be of I-beam construction and utilize grease-lubricated wheel bearings. The vehicle shall have a nominal cramp angle of 42 degrees, plus two (+ 2) degrees to minus three (- 3) degrees including front suction applications.

The front axle hubs shall be made from ductile iron and shall be designed for use with 10 hole hub-piloted wheels in order to improve wheel centering and extend tire life.

The front springs shall be parabolic tapered, minimum 4” wide x 54” long (flat), minimum four (4) leaf, progressive rate. The springs shall have Berlin style eyes and rubber maintenance free bushings on each end with an additional standard wrap at the front eye. The capacity shall be 24,000 lbs. at the ground.

Tapered leaf springs provide a 20% ride improvement over standard straight spring systems. Supporting documentation/data shall be provided upon request.

The vehicle shall be equipped with a Sheppard integral model M-110 power steering gear, used in conjunction with a power assist cylinder. The steering assembly shall be rated to statically steer up to a maximum front axle load of 24,000 lbs. Relief stops shall be provided to reduce system pressure upon full wheel cut. The system shall operate mechanically should the hydraulic system fail.

SUSPENSIONS

Rear Suspension

The rear suspension shall be a Hendrickson RT series steel leaf spring suspension, utilizing ”bar pin” type beam end connections for simplified vehicle alignment and end bushing serviceability. The spring hangers shall be used in a four point mounting arrangement to help eliminate a concentration of stress in any one point of the frame, thus preserving the integrity of the frame. Equalizer beams with bronze center bushings, cross tubes and torque rods shall be provided to maintain proper alignment during cornering and to absorb driving and braking forces. The suspension shall be rated for the maximum axle capacity.

WHEEL OPTIONS

Front Wheels

The vehicle shall have two (2) polished (on outer wheel surfaces only) Alcoa aluminum disc wheels. They shall be forged from one-piece corrosion-resistant aluminum alloy and sized appropriately for the tires.

Front Wheel Trim Package

The front wheels shall have stainless steel lug nut covers (for use with aluminum wheels) or chrome plated plastic (for use with steel wheels). The front axle shall be covered with American made Real Wheels brand mirror finish, 304L grade, non-corrosive stainless steel universal baby moons. All stainless steel baby moons shall carry a lifetime warranty plus a 2 year re-buffing policy. There shall be two (2) baby moons and twenty (20) lug nut covers.

Rear Wheels

The vehicle shall have eight (8) polished (on outer wheel surfaces only) Alcoa aluminum disc wheels. They shall be forged from one-piece corrosion-resistant aluminum alloy and sized appropriately for the tires.

Rear Wheel Trim Package, Tandem Axle

The rear wheels shall have stainless steel lug nut covers (chrome plated steel lug nut covers not acceptable), or American made chrome plated plastic lug nut covers. The rear axle shall be covered with American made Real Wheels brand mirror finish, 304L grade, non-corrosive stainless steel, spring clip band mount high hats, DOT user friendly. All stainless steel high hats shall carry a lifetime warranty plus a 2 year rebuffing policy. There shall be four (4) high hats and forty (40) lug nut covers.

TIRE OPTIONS

Front Tires

The front tires shall be two (2) Michelin 425/65R 22.5 tubeless type 20 PR radial tires with XZY3 Wide Base aggressive tread.

The tires with wheels shall have the following weight capacity and speed rating:

Max front rating 22,800 @ 65 mph.

Max front rating with Alco aluminum wheels - 24,400 @ 65 MPH (intermittent fire service rating if GAW is over 22,800)

The wheels and tires shall conform to the Tire and Rim Association requirements.

Intermittent Tire Service Rating

The front and / or rear tires shall be provided with and intermittent emergency vehicle service rating. Tires rating shall conform to manufacturers` service rating as applicable.

Tire Pressure Indicators

The apparatus shall be provided with Real Wheels AirGuard LED tire pressure indicating valve stem caps. When the tire is under inflated by 5-10 PSI, the LED indicator on the cap shall flash red. The indicator housings shall be shock resistant and constructed from polished stainless steel. The indicators shall be calibrated by attaching to valve stem of a tire at proper air pressure per load ratings and easily re-calibrated by simply removing and re-installing them during service.

Real Wheel Part number RWC1234 was superseded by RWC1235 as of June 2015

Rear Tires

The rear tires shall be Michelin 12R 22.5 tubeless type radial tires with X MULTI GRIP D mud and snow tread.

The tires with wheels shall have the following weight capacity:

54,000 lbs. (tandem duals) @ 68 MPH.

The wheels and tires shall conform to the Tire and Rim Association requirements.

BRAKE SYSTEMS

Front Brakes

The front axle shall be equipped with Dana / Bendix ADB22X 17 inch disc brakes.

A 3 year/unlimited miles parts and 3 year labor brake warranty shall be provided as standard by Dana. The warranty shall include bushings and seals.

Rear Brakes

The rear axle shall be equipped with ArvinMeritor 16-1/2” x 7” S-cam brakes with cast brake drums. Q-Plus shoes shall be provided with up to 48,000 lb. axle ratings and P-Type shoes with over 48,000 lb. axle ratings.

The rear axle brakes shall be furnished with automatic slack adjusters. ArvinMeritor brand shall be supplied on RT-40-145, RT-46-160 and RT-50-160 axles, and Haldex brand shall be supplied on RT-58-185 axles.

A 3 year/unlimited miles parts and 3 year labor rear brake warranty shall be provided as standard by ArvinMeritor Automotive. The warranty shall include bushings, seals, and cams.

Brake System

The vehicle shall be equipped with air operated brake system. The system shall meet or exceed the design and performance requirements of current FMVSS-121 and test requirements of current NFPA 1901 Standard.

Each wheel shall have a separate integral brake chamber. A dual treadle valve shall split the braking power between the front and rear systems.

The air system shall be provided with a rapid build-up feature, designed to meet current NFPA 1901 requirements. A 1/4" brass quick-release air inlet with male connection shall be located inside the driver door on the left side of the cab. The inlet shall allow a shoreline air hose to be connected to the vehicle, discharging into the wet tank.

A pressure protection valve shall be installed to prevent use of air horns or other air operated devices should the air system pressure drop below 80 psi.

One (1) reservoir shall serve as the wet tank and a minimum of one (1) tank shall be supplied for each of the front and rear axles. The total system shall carry a sufficient volume of air to comply with FMVSS-121.

The following tank sizes shall be installed:

Tank Sizes in Cubic Inches

Suspension	Wet	Front	Rear	Rear Extension	Total
34-54K	1738	1738	2988	0	6464
58K	1738	1738	2988	1738	8202

An automatic drain valve shall be installed on the wet tank. All other tanks shall be equipped with manual drain valves.

A Wabco ABS system shall be provided to improve vehicle stability and control by reducing wheel lock-up during braking. This braking system shall be fitted to axles and all electrical connections shall be environmentally-sealed, water-, weather-, and vibration-resistant.

The system shall constantly monitor wheel behavior during braking. Sensors on each wheel transmit wheel speed data to an electronic processor, which shall sense approaching wheel lock and instantly modulate brake pressure up to five (5) times per second to prevent wheel lock-up. Each wheel shall be individually controlled. To improve field performance, the system shall be equipped with a dual circuit design. The system circuits shall be configured in a diagonal pattern.

Should a malfunction occur, that circuit shall revert to normal braking action. A warning light at the driver`s instrument panel shall indicate malfunction to the operator.

The system shall consist of a sensor clip, sensor, electronic control unit, and solenoid control valve. The sensor clip shall hold the sensor in close proximity to the tooth wheel. An inductive sensor consisting of a permanent magnet with a round pole pin and coil shall produce an alternating current with a frequency proportional to wheel speed. The unit shall be sealed, corrosion-resistant and protected from electro-magnetic interference. The electronic control unit shall monitor the speed of each wheel sensor and a microcomputer shall evaluate in milliseconds wheel slip. A deviation shall be corrected by cyclical brake application and release. If a malfunction occurs, the circuit shall signal the operator and the malfunctioning half of the system shall shut down. The system is installed in a diagonal pattern for side to side control. The system shall ensure that each wheel is braked in optimum efficiency up to five (5) times a second.

The system shall also interface with the application of the auxiliary engine, exhaust, or driveline brakes to prevent wheel lock.

To improve service trouble-shooting, provisions in the system for an optional diagnostic tester shall be provided. The system shall test itself each time the vehicle is started and a dash-mounted light shall go out once the vehicle is moving above 4 MPH.

A 3 year/300,000 mile parts and labor Anti-Locking Braking System (ABS) warranty shall be provided as standard by Meritor Automotive.

Park Brake Release

One (1) Bendix-Westinghouse PP-5 parking brake control valve shall be supplied on the lower dash panel within easy reach of the driver.

Electronic Stability Control

The apparatus shall be equipped with a G4 6S6M Electronic Stability Control (ESC) system that combines the functions of Roll Stability Control (RSC) with the added capability of yaw - or rotational – sensing.

RSC focuses on the vehicle’s center of gravity and the lateral acceleration limit or rollover threshold. When critical lateral acceleration thresholds are exceeded, RSC intervenes to regulate the vehicle’s deceleration functions. The added feature of ESC is to automatically intervene to reduce the risk of the vehicle rotating while in a curve or taking evasive action, prevents drift out through selective braking, and controlling and reducing vehicle speed when lateral acceleration limits are about to be exceeded.

Intervention by the system occurs in three forms - engine, retarder and brake control. The ESC system uses several sensors to monitor the vehicle. These include a steering wheel angle sensor, lateral accelerometer, and yaw position sensor. ESC constantly monitors driving conditions and intervenes if critical lateral acceleration is detected or if the vehicle

begins to spin due to low friction surfaces. The system provides control of engine and retarder torque as well as automatically controlling individual wheels to counteract both over steer and under steer.

To further improve vehicle drive characteristics, the unit shall be fitted with Automatic Traction Control (ATC). This system shall control drive wheel slip during acceleration from a resting point. An extra solenoid valve shall be added to the ABS system. The system shall control the engine and brakes to improve acceleration slip resistance. The system shall have a dash mounted light that shall come on when ATC is controlling drive wheel slip.

3 year/300,000 miles parts and labor warranties for ESC, RSC, and ATC shall be provided as standard by Meritor Automotive.

AIR SYSTEM OPTIONS

Air Dryer

The chassis air system shall be equipped with a Bendix-Westinghouse AD-9 air dryer to remove moisture from the air in order to help prevent the air lines from freezing in cold weather and prolong the life of the braking system components.

Air Inlet

A 1/4” brass quick-release air inlet with a male connection shall be provided. The inlet shall allow a shoreline air hose to be connected to the vehicle, discharging air directly into the wet tank of the air brake system. It shall be located driver door jamb.

Air Inlet/Outlet Cover

There shall be diamond plate flip cover for air inlet or outlet with label provided in the driver`s door jamb.

Air Tank Drain Pull Cords

Manual drain valves with pull cords routed to side of cab/body shall be provided for all air brake system tanks. Labels shall be provided at the side of the cab/body that read "Air Tank Drain".

Isolated Air Reservoir

The air system shall have an additional 1738 cu. in. isolated reservoir. The supply side of the reservoir shall be equipped with a check valve and an 85 psi pressure protection valve.

Specified options shall be plumbed to the isolated air tank.

Auxiliary Air Tank Plumbing

The auxiliary air tank shall be plumbed to the following optional accessories, if equipped: Chassis air horns, brake system air outlet, air reel, light tower, air primer, air operated devices and or customer/dealer installed pneumatic add-on(s).

Heated Moisture Ejectors

All air reservoirs shall be equipped with a Bendix DV-2 automatic reservoir drain valve which shall automatically eject moisture and contaminants from the reservoirs. The moisture ejectors shall be heated.

Air Lines

Air brake lines shall be constructed of color coded nylon tubing routed in a manner to protect them from damage. Brass fittings shall be provided.

Air Horns

Dual Hadley e-tone air horns shall be provided, connected to the chassis air system. The horns shall be mounted through the front bumper. The front bumper shall have two (2) holes punched to accommodate the air horns. A pressure protection valve shall be installed to prevent the air brake system from being depleted of air pressure.

Stainless Steel Mounting Straps [Qty: 4]

Stainless steel mounting straps shall be provided for an air tank.

ENGINES & TRANSMISSIONS

Transmission Selector

A push-button transmission shift module, Allison model 29538373, shall be located to the right side of the steering column within easy reach of the driver. The shift position indicator shall be indirectly lit for after dark operation. The shift module shall have a “Do Not Shift” light and a “Service” indicator light. The shift module shall have means to enter a diagnostic mode and display diagnostic data including oil life monitor, filter life monitor, transmission health monitor and fluid level. A transmission temperature gauge with warning light and buzzer shall be installed on the cab instrument panel.

Transmission Fluid

The transmission fluid shall be TranSynd, Shell Spirax S6ATF A295, or equivalent synthetic.

Vehicle Speed

Electronic speed limiting set at 60 MPH as required by NFPA 1901.

Engine/Transmission Package

Engine

A Cummins X15 Next Generation 6 cylinder diesel engine with 565 horsepower and 1850 foot-lbs of peak torque shall power the chassis. Emissions shall be compliant with EPA 2027 ultra-clean regulations using selective catalyst reductant and diesel particulate filter technology.

The engine shall include Acumen telematics to improve diagnostic troubleshooting.

The engine air filter intake shall be located above the radiator to minimize the risk of water ingestion during high water. The air filter shall use a replaceable dry type element designed to prevent dust and debris from being ingested into the engine.

A multilayered screen trap shall protect the air filter from embers and water.

A restriction indicator light shall activate when the air cleaner element requires replacement.

The engine exhaust piping shall be a minimum of 4” diameter welded stainless steel tubing.

Note: Until the 2027 EPA engine integration is finalized, option availability and body design relative to engine and aftertreatment are subject to change. Additional costs associated with the 2027 EPA engine will be passed on to the end user. No exceptions.

Transmission

An Allison model EVS 4000P automatic transmission shall be provided. The transmission shall include electronic controls and be equipped with a fluid level sensor (FLS) system, providing direct feedback of transmission oil level information to the driver.

The transmission shall feature two (2) 10-bolt PTO pads located on the converter housing.

A transmission oil temperature gauge with warning light and buzzer shall be installed on the cab instrument panel to warn the driver of high oil temperatures that may damage the transmission.

Automatic Shift to Neutral

The transmission shall be programmed to comply with NFPA 1900 and automatically shift to neutral upon application of the parking brake.

Transmission Cooler

The cooling system shall include a liquid-to-liquid transmission cooler capable of cooling the heat generated from the transmission.

SECONDARY BRAKING

Jacobs Engine Brake

One (1) Jacobs engine brake shall be installed to assist in slowing and controlling the vehicle as required by NFPA 1901 for vehicles with gross vehicle weight ratings (GVWR) of 36,000 lbs. or greater. An on-off control switch and a high-medium-low selector switch shall be mounted in the cab accessible to the driver.

When activated, the Jacobs engine brake shall cut off the flow of fuel to the cylinders and alter the timing of the exhaust valves. This shall transform the engine into a high-pressure air compressor, driven by the wheels, and the horsepower absorbed by the engine in this mode shall slow the vehicle. The selector switch allows the driver to select the amount of retarding power.

When the on-off switch is in the "on" position, the engine brake shall be automatically applied whenever the accelerator is in the idle position and the automatic transmission is in the lock-up mode. If the accelerator is depressed or if the on-off switch is placed in the "off" position, the engine brake shall immediately release and allow the engine to return to its normal function.

The rear brake lights shall illuminate when the Jacobs engine brake is activated.

Transmission Programming

The transmission shall include the Allison 2nd gear Pre-Select feature. This option will direct the transmission to down shift to second gear when the throttle is released and the Jacobs engine brake (or Telma retarder wired to activate with release of throttle) is engaged. This feature is designed to increase brake life and aid vehicle braking.

EXHAUST OPTIONS

Exhaust Blanket

The exhaust shall be covered with an insulation blanket specifically designed for high temperature usage. The blanket shall have a silicone impregnated fiberglass sewn outer cover with a stainless steel knitted wire mesh inner liner. The cover shall be retained with stainless steel capstan rivets and stainless steel lacing wire. The blanket shall be a 2-piece design installed from the engine turbo to the DPF and from the DPF to the SCR.

COOLING PACKAGE

Engine Cooling Package

Radiator

There shall be a heavy-duty aluminum cooling system designed to meet the demands of the emergency response industry. The cooling system shall have the capacity to keep the engine properly cooled under all conditions of road and pumping operations in compliance with the engine and transmission OEMs and all EPA regulations. The complete cooling system shall be mounted to isolate it from vibration or stress. The individual cores of the cooling system shall be mounted in a manner to allow expansion and contraction caused by temperature variation.

The surge tank shall be equipped with a low coolant probe and rearward oriented sight glass to monitor the level of the coolant.

All radiator tubes shall be formed from aluminized steel tubing.

All charge air cooler tubes shall be formed from aluminized steel tubing and installed with silicone hump hoses and stainless steel “constant torque” style clamps.

Recirculation shields shall be installed where required to prevent heated air from reentering the cooling package and affecting performance.

The radiator and charge air cooler shall be removable through the bottom of the chassis.

Silicone Hoses

All radiator and heater hoses shall be silicone. Pressure compensating band clamps shall be used to eliminate hose pinching on all hoses 3/4" diameter and larger. All radiator hoses shall be routed, loomed, and secured so as to provide maximum protection from chafing, crushing, or contact with other moving parts.

Fan / Shroud

A 30 inch diameter fan shall be used to move cooling air through the radiator. It shall have eleven (11) blades to minimize noise while providing maximum airflow and dynamic balance. It shall be made of nylon for strength and corrosion resistance.

A fan shroud and baffling shall be provided to direct air flow and minimize hot air recirculation during operation. The shroud shall be formed with curved surfaces to improve air flow and cooling.

Fan Clutch

The engine fan shall be mounted to the engine using a variable speed fan clutch. The clutch will vary the fan speed based on the need for engine and transmission cooling. If the fan clutch were to fail it shall fail in the ON condition to ensure continued cooling for the engine.

FUEL SYSTEMS

Fuel Tanks

Dual 25 gallon side-mounted fuel tanks shall be provided. Each tank shall be of an all-welded aluminized steel construction with anti-surge baffles and shall conform to all applicable Federal Highway Administration (FHWA) 393.65 and 393.67 standards. The tanks shall be mounted behind the rear axle. Each tank shall be secured by a wrap-around T-bolt type stainless steel strap. Each strap shall be fitted with protective rubber insulation and shall be secured with grade 8 hardware. This design allows for tank removal from below the chassis.

Each tank shall be equipped with a 2" filler neck, two (2) additional 80% draw pick-up/return connections, a vent with overturn leak protection, and a .50" NPT magnetic drain plug. The full 50 gallon capacity can be filled from either side of the vehicle. Fuel shall be drawn from one tank and returned to the other. The tanks shall be connected with a 1.0" crossover line for equalization.

A mechanical fuel pump sized to meet the engine requirements shall be provided.

Fuel Line

All fuel lines shall be rubber.

Fuel Filter/Water Separator

The fuel system shall have a Fleetguard FS20121 (or equivalent) fuel filter / water separator as a primary filter. The fuel filter shall have a drain valve.

A water in fuel sensor shall be provided and wired to an instrument panel lamp and audible alarm to indicate when water is present in the fuel/water separator.

Fuel Shutoff Valves

There shall be three (3) fuel shutoff valves installed. The valves shall be located one (1) each side of the fuel / water separator to allow the fuel filter to be changed without loss of fuel to the fuel pump.

A third fuel shutoff valve shall be installed in the fuel draw line, near the fuel tank to allow maintenance to be performed with minimal loss of fuel.

ALTERNATOR

320 Amp Alternator

There shall be a 320 amp Leece Neville alternator installed as specified. The alternator shall be a Leece Neville 4890JB series brushless type with integral rectifier and adjustable voltage regulator with an output of 272 amps per NFPA 1901 rating (320 amps per SAE J56).

BATTERIES

Battery System

The manufacturer shall supply four (4) heavy duty Group 31 12-volt maintenance-free batteries. Each battery shall be installed and positioned so as to allow easy replacement of any single battery. Each battery shall be equipped with carrying handles to facilitate ease of removal and replacement. There shall be two (2) steel frame mounted battery boxes, one (1) on the left frame rail and one (1) on the right frame rail. Each battery box shall be secured to the frame rail with Grade 8 hardware. Each battery box shall hold (2) batteries. The batteries shall have a minimum combined rating of 4,000 (4 x 1000) cold cranking amps (CCA) @ 0 degrees Fahrenheit and 820 (4 x 205) minutes of reserve capacity for extended operation. The batteries shall have 3/8-16 threaded stud terminals to ensure tight cable connections. The battery stud terminals shall each be treated with concentrated industrial soft-seal after cable installation to promote corrosion prevention. The positive and negative battery stud terminals and the respective cables shall be clearly marked to ensure quick and mistake-proof identification.

Batteries shall be placed on non-corrosive rubber matting and secured with hold-down brackets to prevent movement, vibration, and road shock. The hold-down bracket J-hooks shall be cut to fit and shall have all sharp edges removed. The batteries shall be placed in plastic trays to provide preliminary containment should there be leakage of hazardous battery fluids. There shall be two (2) plastic trays, each containing (2) batteries. Each battery tray shall be equipped with a rubber vent hose to facilitate drainage. The rubber vent hose shall be routed to drain beneath the battery box. The batteries shall be positioned in well-ventilated areas.

One (1) positive and one (1) negative jumper stud shall be provided.

Batteries shall have a warranty of twelve (12) months that shall commence upon the date of delivery of the apparatus.

CHASSIS OPTIONS

Drivelines

Drivelines shall have a heavy duty metal tube and shall be equipped with Spicer 1810 series universal joints to allow full-transmitted torque to the axle(s). Drive shafts shall be axially straight, concentric with axis and dynamically balanced.

Front Tow Eyes

Two (2) 3/4” thick heavy duty steel tow eyes shall be securely attached to the chassis frame rails at the front of the apparatus. They shall be mounted down below the bumper / cab.

Tow eyes will be integral when used with a drop style frame extension.

Rear Tow Eyes

Two (2) heavy duty tow eyes made of 3/4" (0.75") thick steel having 2.5" diameter holes shall be bolted directly to the rear of the frame to allow towing (not lifting) of the apparatus. The tow eyes shall be protruding into the rear compartment or out the rear of the body. The tow eyes shall be painted chassis black.

Hot Shift PTO

Power take-off for the automatic transmission shall be a 6 bolt mounted hydraulic shift with a switch located in the cab. Hydraulic shift will allow the PTO to be shifted while the unit is in motion and without having to shut down the water pump.

Bottom Port Aerial Hydraulics

The aerial hydraulics shall be provided off of the bottom port of the Allison EVS4000/4500 transmission.

DEF Tank

A diesel exhaust fluid (DEF) tank with a five (5) gallon capacity shall be provided.

The DEF tank shall include a heater fed by hot water directly from the engine block to prevent the DEF from becoming too cool to operate correctly per EPA requirements. The tank shall include a temperature sensor to control the heater control valve that controls the feed of hot water from the engine to the DEF tank heater.

A sender shall be provided in the DEF tank connected to a level gauge on the cab dash.

The tank shall be located left side below rear of cab.

Power Steering Cooler

A heat exchanger (cooler) shall be installed to maintain desired power steering fluid temperature. The cooler shall be a model DH-073-1-1 with air / oil design rated at 6300 BTU/HR @10 GPM. The cooler shall be mounted in front of the radiator and plumbed with #10 lines.

Auto Lubrication System

A JA Lube Central automatic lubrication system shall be installed to provide automatic grease application to the following lubrication wear points:

- Spring Pins and Spring Hanger Pins (If applicable)
- King Pins, Upper and Lower
- Steering Linkage
- Tie Rod Ends

• Brake S-Cams (If applicable)
• Steering Assist Cylinder (If applicable)
• Automatic Slack Adjusters
• Tilt Cab Lift Assembly (If applicable)
• Criss-Cross Under-Slung Aerial Outriggers (top and bottom of lift cylinder and beam pivot)

The lubrication system shall utilize the post lubrication principle and shall be powered by an electrically driven, 12V gear pump. The gear pump shall be top mounted to a reservoir assembly with a capacity sized to the application. The electronic control unit shall be connected through the ignition and park brake circuits to provide power to the pump when the engine is running and the park brake is released.

The gear pump and reservoir shall be located in an accessible location.

The electronic control module shall include system monitoring capabilities for the main line and operating cycle with an indicator light visible from the driver`s seat. The control module shall have LED`s and a system reset button to initiate a lube cycle for diagnostic purposes and/or reset the control module in the event a system fault has occurred. Upon a fault, the system shall be inoperable until the fault has been corrected and a system reset has been initiated by the operator or serviceman.

CAB MODEL

Cab Typhoon Medium

The vehicle shall be distinguished by an all-welded aluminum and fully enclosed tilt cab. The cab shall be designed exclusively for fire/rescue service and shall be pre-engineered to ensure long life. It shall incorporate an integral welded substructure of high-strength aluminum alloy extrusions that creates an occupant compartment that is essentially a protective perimeter. The end result is a distinctive structure that is aesthetically appealing, functionally durable, and characterized by increased personnel safety.

The cab shall be constructed from 3/16” (0.188”) 3003 H14 aluminum alloy plate roof, floor, and outer skins welded to a high-strength 6063-T6 aluminum alloy extruded subframe. Wall supports and roof bows are 6061 T6 aluminum alloy. This combination of a high-strength, welded aluminum inner structure surrounded on all sides by load-bearing, welded aluminum outer skins provides a cab that is strong, lightweight, corrosion-resistant, and durable.

The inner structure shall be designed to create an interlocking internal ”roll-cage” effect by welding two (2) 3” x 3” x 0.188” wall-thickness 6063-T5 aluminum upright extrusions between the 3” x 3” x 0.375” wall-thickness 6061-T6 roof crossbeam and the 2.25” x 3” x 0.435” wall-thickness 6063-T6 subframe structure in the front. An additional two (2) aluminum upright extrusions within the back-of-cab structure shall be welded between the rear roof perimeter extrusion and the subframe structure in the rear to complete the interlocking framework. The four (4) upright extrusions -- two (2) in the front and two (2) in the rear -- shall be designed to effectively transmit roof loads downward into the subframe structure to help protect the occupant

compartment from crushing in a serious accident. All joints shall be electrically seam welded internally using aluminum alloy welding wire.

The subframe structure shall be constructed from high-strength 6061-T6 aluminum extrusions welded together to provide a structural base for the cab. It shall include a side-to-side 3” x 1.5” .375 thick C-channel extrusion across the front, with 3/4” x 2-3/4” (.75” x 2.75”) full-width crossmember tubes spaced at critical points between the front and rear of the cab.

The cab floor shall be constructed from 3/16” (0.188”) 3003 H14 smooth aluminum plate welded to the subframe structure to give the cab additional strength and to help protect the occupants from penetration by road debris and under-ride collision impacts.

The cab roof shall be constructed from 3/16” (0.188”) 3003 H14 aluminum treadplate supported by a grid of fore-aft and side-to-side aluminum extrusions to help protect the occupants from penetration by falling debris and downward-projecting objects. Molded fiberglass or other molded fiber-reinforced plastic roof materials are not acceptable.

The cab roof perimeter shall be constructed from 4” x 6-5/8” (4” x 6.625”) 6063-T5 aluminum extrusions with integral drip rails. Cast aluminum corner joints shall be welded to the aluminum roof perimeter extrusions to ensure structural integrity. The roof perimeter shall be continuously welded to the cab roof plate to ensure a leak-free roof structure.

The cab rear skin shall be constructed from 3/16” (0.188”) 3003 H14 aluminum plate. Structural extrusions shall be used to reinforce the rear wall.

The left-hand and right-hand cab side skins shall be constructed from 3/16” (0.188”) 3003 H14 smooth aluminum plate. The skins shall be welded to structural aluminum extrusions at the top, bottom, and sides for additional reinforcement.

The cab front skins shall be constructed from 3/16” (0.188”) 3003 H14 smooth aluminum plate. The upper portion shall form the windshield mask, and the lower portion shall form the cab front. Each front corner shall have a full 9” outer radius for strength and appearance. The left-hand and right-hand sides of the windshield mask shall be welded to the left-hand and right-hand front door frames, and the upper edge of the windshield mask shall be welded to the cab roof perimeter extrusion for reinforcement. The cab front shall be welded to the subframe C-channel extrusion below the line of the headlights to provide protection against frontal impact.

Cab Exterior

The exterior of the cab shall be 94” wide x 130” long to allow sufficient room in the occupant compartment for up to eight (8) fire fighters. The cab roof shall be approximately 101” above the ground with the flat roof option. The back-of-cab to front axle length shall be a minimum of 58”.

Front axle fenderette trim shall be brushed aluminum for appearance and corrosion resistance. Bolt-in front wheel well liners shall be constructed of 3/16” (0.188”) composite material to

provide a maintenance-free, damage-resistant surface that helps protect the underside of the cab structure and components from stones and road debris.

A large stainless steel cooling air intake grille with an open area of no less than 81% shall be at the front of the cab.

The cab windshield shall be of a two-piece replaceable design for lowered cost of repair. The windshield shall be made from 1/4" (0.25") thick curved, laminated safety glass with a 75% light transmittance automotive tint. A combined minimum viewing area of 2,561-sq. in. shall be provided. Forward visibility to the ground for the average (50th percentile) male sitting in the driver`s seat shall be no more than 11 feet 7 inches from the front of the cab to ensure good visibility in congested areas.

Windshield Wipers

Two (2) opposed radial style windshield wipers with two (2) separate electric motors shall be provided for positive operation. The wipers shall be tested beyond the minimum SAE requirement to a total of 3.3 million cycles. The wipers shall be a wet-arm type with a one (1) gallon washer fluid reservoir, an intermittent-wipe function, and an integral wash circuit. Wiper arm length shall be approximately 20", and the blade length approximately 21". Each arm shall have a 90 degree sweep for full coverage of the windshield. The wipers shall be synchronized so as to wipe each windshield simultaneously.

Cab Mounts and Cab Tilt System

The cab shall be independently mounted from the body and chassis to isolate the cab structure from stresses caused by chassis twisting and body movements. Mounting points shall consist of two (2) forward-pivoting points, one (1) on each side; two (2) intermediate rubber load-bearing cushions located midway along the length of the cab, one on each side; and two (2) combination rubber shock mounts and cab latches located at the rear of the cab, one (1) on each side.

An electric-over-hydraulic cab tilt system shall be provided to provide easy access to the engine. It shall consist of two (2) large-diameter, telescoping, hydraulic lift cylinders, one (1) on each side of the cab, with a frame-mounted electric-over-hydraulic pump for cylinder actuation.

Safety flow fuses (velocity fuses) shall be provided in the hydraulic lift cylinders to prevent the raised cab from suddenly dropping in case of a burst hydraulic hose or other hydraulic failure. The safety flow fuses shall operate when the cab is in any position, not just the fully raised position.

The hydraulic pump shall have a manual override system as a backup in the event of an electrical failure. Lift controls shall be located in a compartment to the rear of the cab on the right side of the apparatus. A parking brake interlock shall be provided as a safety feature to prevent the cab from being tilted unless the parking break is set.

The entire cab shall be tilted through a 42-45 degree arc to allow for easy maintenance of the engine, transmission and engine components. A positive-engagement safety latch shall be provided to lock the cab in the full tilt position to provide additional safety for personnel working under the raised cab.

In the lowered position, the cab shall be locked down by two (2) automatic, spring-loaded cab latches at the rear of the cab. A ”cab ajar” indicator light shall be provided on the instrument panel to warn the driver when the cab is not completely locked into the lowered position.

Cab Interior

The interior of the cab shall be of the open design with an ergonomically-designed driver area that provides ready access to all controls as well as a clear view of critical instrumentation.

The engine cover between the driver and the officer shall be a low-rise contoured design to provide sufficient seating and elbow room for the driver and the officer. The engine cover shall blend in smoothly with the interior dash and flooring of the cab. An all-aluminum subframe shall be provided for the engine cover for strength. The overall height of the engine enclosure shall not exceed 23” from the floor at each side and 27” in the center section. The engine cover shall not exceed 41” in width at its widest point.

The engine cover insulation shall consist of 1/2” closed cell elastomeric compound foam with aluminum foil faced fiberglass fabric manufactured to specifically fit the engine cover. All edges and seams shall be sealed using aluminum foil faced fiberglass tape. The insulation shall meet or exceed DOT standard FMVSS 302-1 and V-0 (UI subject 94 Test).

All cab floors shall be covered with a black rubber floor mat that provides an aggressive slip-resistant surface in accordance with current NFPA 1901.

The rear engine cover area shall be covered with molded 18 lb/cu. ft. (+/-0.5) flexible integral skinned polyurethane foam at a Durometer of 60 (+/- 5.0) per ASTM F1957-99. The cover shall be approximately .5" thick with a minimum skin thickness of 0.0625 inches. The cover shall be provided to reduce the transmission of noise and heat from the engine. The cover shall be black with a pebble grain finish for slip resistance.

A minimum of 57.25” of floor-to-ceiling height shall be provided in the front seating area of the cab and a minimum of 55.25” floor-to-ceiling height shall be provided in the rear seating area. A minimum of 36” of seated headroom at the "H" point shall be provided over each fenderwell.

The interior side to side dimensions shall be 87" from wall padding to wall padding and 89.5" from door to door.

The floor area in front of the front seat pedestals shall be no less than 24" side to side by up to 25” front to rear for the driver and no less than 24" side to side by up to 27” front to rear for the officer to provide adequate legroom.

Battery jumper studs shall be provided to allow jump-starting of the apparatus without having to tilt the cab.

All exposed interior metal surfaces shall be pretreated using a corrosion prevention system.

The interior of the cab shall be insulated to ensure the sound (dbA) level for the cab interior is within the limits stated in the current edition of NFPA 1901. The insulation shall consist of 2 oz. wadding and 1/4” (0.25”) foam padding. The padding board shall be backed with 1/4” (0.25”) thick reflective insulation. The backing shall be spun-woven polyester. Interior cab padding shall consist of a rear cab headliner, a rear wall panel, and side panels between the front and rear cab doors.

The vehicle shall use a seven-position tilt and telescopic steering column to accommodate various size operators. An 18” padded steering wheel with a center horn button shall be provided.

The driver and officer seat risers shall be welded to the main cab floor structure. Depending on the make and model of the seats, a storage compartment with a hinged door shall be provided in the risers.

The lower front cab steps shall be a minimum of 11.5” deep x 24” wide. The lower rear cab steps shall be a minimum 16” deep x 21” wide. The first step at the front and rear cab doors shall be no more than 24.0” above the ground with standard tires in the unloaded condition per NFPA 1901 standards. The front and rear steps shall incorporate full width intermediate steps for easy access to the cab interior. The intermediate step at the front doors shall be approximately 6" deep (minimum). The intermediate step at the rear doors shall be approximately 10.75" deep (minimum). The step surfaces shall be aluminum diamond plate with a multi-directional, aggressive gripping surface incorporated into the aluminum diamond plate in accordance with current NFPA 1901.

A black grip handle shall be provided on the interior of each front door below the door window to ensure proper hand holds while entering and exiting the cab. An additional black grip handle shall be provided on the left and right side windshield post for additional handholds.

Cab Doors

Four (4) side-opening cab doors shall be provided. Doors shall be constructed of a 3/16” (0.188”) aluminum plate outer material with an aluminum extruded inner framework to provide a structure that is as strong as the side skins.

Front cab door openings shall be approximately 36” wide x 72.5” high, and the rear cab door openings shall be approximately 33.75” wide x 72.5” high. The front doors shall open approximately 85 degrees, and the rear doors shall open approximately 80 degrees.

The doors shall be securely fastened to the doorframes with full-length, stainless steel piano hinges, with 3/8” (0.375”) diameter pins for proper door alignment, long life, and corrosion

resistance. Mounting hardware shall be treated with corrosion-resistant material prior to installation. For effective sealing, an extruded rubber gasket shall be provided around the entire perimeter of all doors.

The front door windows shall provide a minimum viewing area of 518 sq. in. each. The rear door windows shall provide a minimum viewing area of 554 sq. in. each. All windows shall have 75% light transmittance automotive safety tint.

The door handles on the exterior of the cab shall be a pull type with vertical orientation. The handles shall be made with corrosion free material and have a black finish. Each exterior door handle shall have an integral keyed lock.

Recessed paddle-style door latches shall be provided on the interiors of the doors. The latches shall be designed and installed to protect against accidental or inadvertent opening as required by NFPA 1901. The rear cab door handles shall have a vertical orientation making them easily accessible from forward or rearward outboard seating positions. Each cab door shall have a manually operated door lock actuated from the interior of each respective door.

Cab Instruments and Controls

Cab controls shall be located on the cab instrument panel in the dashboard on the driver`s side where they are clearly visible and easily reachable. Chassis operation switches shall be installed in removable panels for ease of service. The following gauges and/or controls shall be provided:

- Speedometer/Odometer
- Tachometer
- Engine hour meter
- Engine oil pressure gauge with warning light and buzzer
- Engine water temperature gauge with warning light and buzzer
- Transmission oil temperature gauge
- Two (2) air pressure gauges with a warning light and buzzer (front air and rear air)
- Fuel gauge with low fuel indicator light
- Voltmeter
- Master battery/ignition switch (rocker with integral guard)
- Engine start switch (rocker)
- Heater and defroster controls with illumination
- Marker light/headlight control switch (rocker)
- Panel light dimmer switch (rocker)
- Self-canceling turn signal control with indicators
- Windshield wiper switch with variable speed and washer controls
- Pump shift control with green ”pump in gear” and ”o.k. to pump” indicator lights
- Parking brake controls with red indicator light on dash
- Automatic transmission shift console
- Electric horn button at center of steering wheel
- Master warning light switch

• Cab ajar warning indicator
• Air filter restriction indicator

Controls and switches shall be identified as to their function by backlit wording adjacent to each switch, or indirect panel lighting adjacent to the controls.

Electrical System

The cab and chassis system shall have designated electrical distribution areas. All electrical components shall be located such that standard operations shall not interfere with or disrupt vehicle operation. An access cover shall be provided for maintenance access to the electrical distribution area. Circuit protection shall be provided by fuses, thermal reset breakers and / or solid state controls.

A 6 place, constantly hot, and 6 place ignition switched fuse panel and ground for customer-installed radios and chargers shall be provided at the electrical distribution area. Radio suppression shall be sufficient to allow radio equipment operation without interference.

All wiring shall be mounted in the chassis frame and protected from impact, abrasion, water, ice, and heat sources. The wiring shall be color-coded and functionally-labeled every 3” on the outer surface of the insulation for ease of identification and maintenance. The wiring harness shall conform to SAE 1127 with GXL temperature properties. Any wiring connections exposed to the outside environment shall be weather-resistant. All harnesses shall be covered in a loom that is rated at 280 degrees F to protect the wiring against heat and abrasion.

Daytime Running Lights

Two (2) dual rectangular chrome plated headlight bezels shall be installed on the front of the cab. The low beam headlights shall activate with the release of the parking brake to provide daytime running lights (DRL) for additional vehicle conspicuity and safety. The headlight switch shall automatically override the DRL for normal low beam/high beam operation.

Fast Idle System

A fast idle system shall be provided and controlled by a switch accessible by the driver. The system shall increase engine idle speed to a preset RPM for increased alternator output.

Cab Crashworthiness Requirement

The apparatus cab shall meet and/or exceed relevant NFPA 1901 load and impact tests required for compliance certification with the following:

Side Impact Dynamic Pre-Load per SAE J2422 (Section 5).

Testing shall meet and/or exceed defined test using 13,000 ft-lbs of force as a requirement. The cab shall be subject to a side impact representing the force seen in a roll-over. The cab shall

exhibit minimal to no intrusion into the cab's occupant survival space, doors shall remain closed and cab shall remain attached to frame.

Cab testing shall be completed using 13,776 ft-lbs of force **exceeding** testing requirements.

Quasi-static Roof Strength (proof loads) per SAE J2422 (Section 6) / ECE R29, Annex 3, paragraph 5.

Testing shall meet and/or exceed defined test using 22,046 lbs of mass as a requirement. Testing shall be completed using platen(s) distributed uniformly over all bearing members of the cab roof structure.

Cab testing shall be completed using 23,561 lbs of mass **exceeding** testing requirements. The cab shall exhibit minimal to no intrusion into the cab's occupant survival space and doors shall remain closed.

Additional cab testing shall be conducted using 117,336 lbs of mass **exceeding** testing requirements by **over five (5) times**. The cab shall exhibit minimal to no intrusion into the cab's occupant survival space and the doors shall remain closed.

Frontal Impact per SAE J2420.

Testing shall meet and/or exceed defined test using 32,549 ft-lbs of force as a requirement. The cab shall be subject to a frontal impact as defined by the standard. The cab shall exhibit minimal to no intrusion into the cab's occupant survival space, doors shall remain closed and cab shall remain attached to frame.

Cab testing shall be completed using 34,844 ft-lbs of force **exceeding** testing requirements.

Additional cab testing shall be conducted using 65,891 ft-lbs of force **exceeding** testing requirements by **over two (2) times**.

The cab shall meet all requirements to the above cab crash worthiness; **NO EXCEPTIONS**.

A copy of a certificate or letter verifying compliance to the above performance by an independent, licensed, professional engineer shall be provided upon request.

For any or all of the above tests, the cab manufacturer shall provide either photographs or video footage of the procedure upon request.

Seat Mounting Strength

The cab seat mounting surfaces shall be third party tested and in compliance with FMVSS 571.207.

Seat Belt Anchor Strength

The cab seat belt mounting points shall be third party tested and in compliance with FMVSS 571.210.

ISO Compliance

The manufacturer shall ensure that the construction of the apparatus cab shall be in conformance with the established ISO-compliant quality system. All written quality procedures and other procedures referenced within the pages of the manufacturer`s Quality Manual, as well as all Work Instructions, Workmanship Standards, and Calibration Administration that directly or indirectly impacts this process shall be strictly adhered to. By virtue of its ISO compliance the manufacturer shall provide an apparatus cab that is built to exacting standards, meets the customer`s expectations, and satisfies the customer`s requirements.

CAB ROOF TYPE

Cab Roof Notch

The cab roof shall be notched front to rear of the cab to minimize overall travel height of the vehicle. The cab roof notch shall not affect the interior cab ceiling or cab structure.

CAB BADGE PACKAGE

Logo Package

The apparatus shall have manufacturer logos provided on the cab and body as applicable.

CAB DOOR OPTIONS

Rear Cab Door Position

The cab rear doors shall be moved to the rear of the wheel opening. This door placement facilitates easier entry and egress by reducing the rear facing seat protrusion into the door opening.

Rear door position to the 58” or (medium cab).

Cab Door Locks

A four-way locking system shall be provided for the cab doors. The system shall include a main module, electric solenoids each cab door, key less touch pad, wireless key fobs, barrel style key lock on exterior and manual interior locks.

Main Module

A main remote entry module shall be installed in the cab. The module shall allow for locking and unlocking of the cab doors either from interior mounted switch(es), touch pad or wireless remotes. The module shall have the capability to also control other electric locks on cab EMS compartment or body doors (optional).

Electric Cab Door Locks

An electric actuator shall be installed in each cab door to provide remote locking capability. Master lock / unlock switch(es) shall be provided for the driver and officer.

Touch Pads

One (1) Key less numeric touch pad shall be installed. The touch pad shall have five (5) buttons to allow control of electric locks on the cab doors as well as electric locks on other cab EMS compartments or body doors (optional). The touch pad shall be mounted on the exterior of the cab adjacent to the driver cab door.

Key Fobs

Two (2) wireless remote key fobs shall be supplied.

Manual Locks

Each exterior door shall be provided with a barrel style key lock to lock or unlock each door individually. Each interior door handle shall be fitted with a manual lock mechanism to lock or unlock each door individually. The locks shall be designed to prevent the door from closing if the door is inadvertently locked while open.

Cab Door Locks

The cab shall have 1250 keyed door locks provided on the exterior entry doors to secure the apparatus.

Cab Door Panels

The inner door panels shall be made from 1/8" (.125") aluminum plate painted multi-tone (to match cab interior paint) for increased durability. The cab door panels shall be split just below the handrail and incorporate an easily removable panel for access to the latching mechanism and window regulator for maintenance or service.

Cab Door Reflective Material

Reflexite V98 Red/Fluorescent Yellow Green striping shall be provided approximately 12" high on the lower cab door panels. The stripes shall run from the top outer corner to the bottom inside corner of the lower door area, forming a "A" shape when viewed from the rear. The reflective material shall meet NFPA 1901 requirements.

Cab Cabinet Door Trim

An anodized aluminum trim shall be located at the vertical edge of the over cab wheel exterior compartment opening and/or rear cab compartment. The trim shall provide added protection of the painted surface of the cab when equipment is placed or removed from the compartment.

Cab Compartment Door Trim

A anodize aluminum trim shall be located at the bottom edge of the cab exterior compartment openings. The trim shall provide added protection of the painted surface of the cab when equipment is placed or removed from the compartments.

Cab Front Door Windows

Full roll-down windows shall be provided for the front cab doors with power operated heavy duty regulators. The regulators shall have worm gear drive cable operation for positive movement and long life. Scissors or gear-and-sector drives are not acceptable. Window switches shall be located at the center dash for access by the driver or officer.

Cab Rear Door Windows

Full roll-down windows shall be provided for the rear crew doors with power operated heavy duty regulators. The regulators shall have worm gear drive cable operation for positive movement and long life. Scissors or gear-and-sector drives are not acceptable. Window switches shall be located on each door with additional switches accessible by driver.

Cab Door Style

The cab doors shall be barrier style with exposed lower steps.

Door Handles

The door handles on the exterior of the cab shall be a pull type with vertical orientation. The handles shall have a chrome plated zinc die-cast base with corrosion free glass reinforced nylon pull handle with a black finish. The handles shall have clearance for a gloved hand.

Each exterior door handle shall have an integral keyed lock.

CAB STEP OPTIONS

Cab Steps

The lower cab steps shall extend 3.5" past the side of the cab to provide increased surface area.

MIRRORS

Mirror Extension

There shall be a 2” extension provided for each Ramco mirror.

Mirrors, Heated

Driver and officer cab mirrors to be heated. Includes all surfaces (flat and convex, as applicable).

Cab Mirrors

Two (2) Ramco model 8001MCR remote controlled polished aluminum mirrors shall be installed. The mirrors shall incorporate a top main section with a manually adjustable convex lower mirror. The adjustment of main sections shall be through switches accessible by the driver.

Location: mounted on front corners of cab.

Note: Option was previously for a model 6001MCR. Ramco implemented a running change from 6000 series to 8000 series in 2023.

MISC EXTERIOR CAB OPTIONS

Front Mud Flaps

Black linear low density polyethylene (proprietary blend) mud flaps shall be installed on the rear of the cab front wheel wells. The design of the mud flaps shall have corrugated ridges to distribute water evenly.

Handrails

Cab door assist handrails shall consist of two (2) 1.25” diameter x 18” long 6063-T5 anodized aluminum tubes mounted directly behind the driver and officer door openings one each side of the cab. The handrails shall be machine extruded with integral ribbed surfaces to assure a good grip for personnel safety. Handrails shall be installed between chrome end stanchions and shall be positioned at least 2” from the mounting surface to allow a positive grip with a gloved hand.

Handrails

Cab door assist handrails shall consist of two (2) 1.25” diameter x 18” long 6063-T5 anodized aluminum tubes mounted directly behind the driver and officer rear door openings each side of the cab. The handrails shall be machine extruded with integral ribbed surfaces to assure a good grip for personnel safety. Handrails shall be installed between chrome end stanchions and shall be positioned at least 2” from the mounting surface to allow a positive grip with a gloved hand.

Rear Cab Wall Construction

The rear cab wall shall be constructed with the use of 3/16" aluminum diamond plate interlocking in aluminum extrusions.

Cab Wheel Well

The cab wheel well shall be increased in size to provide additional clearance for larger tires. The fender trim shall be adjustable in and out to better accommodate various wheel / tire offsets.

Receptacle Mounting Plate

A mounting plate shall be provided for the battery charger receptacle, battery charger indicator and if applicable the air inlet, etc. The plate shall be constructed of 14 gauge brushed finish stainless steel and be removable for service access to the receptacle(s) and indicator.

HVAC

Heat, Supplemental

A single 40,000 BTU water heater shall be supplied in the front area of the cab. The unit shall heat the lower section of the driver`s and officer`s footwell.

Dual 23,000 BTU water heaters shall be supplied in the rear of the cab to heat the rear cab lower section. The heaters shall have a fabricated aluminum cover (if applicable).

The heater controls shall be on the dash accessible by the driver. On units with optional multiplex display climate control, the floor heaters shall be controlled through the HVAC screen in the display.

Air Conditioning

An overhead air-conditioner / heater system with a roof mounted condenser shall be supplied.

The unit shall be mounted to the cab interior headliner in a mid-cab position, away from all seating positions. The unit shall provide fourteen (14) comfort discharge louvers, eight (8) to the back area of the cab, six (6) to the front area of the cab including one (1) each side outboard in the forward overhead console. These louvers will be used for both AC and heated air delivery. Two (2) additional large front louvers shall be damper controlled to provide defogging and defrosting capabilities to the front windshield as necessary.

The unit shall consist of a high output evaporator coil and heater core with one (1) high output dual blower for front air delivery, and two (2) high performance single wheel blowers for rear air delivery. For improved corrosion resistance the evaporator shall have a hydrophilic blue fin coating.

The air-distribution system shall use electric actuators and allow blended airflow to both the comfort air vents and defrost vents. The system shall allow for independently controlled air speed for the front and rear blowers. A separate switch shall be provided for the rear crew to control the rear fan speed.

The condenser shall be roof mounted and have a minimum capacity of 65,000 BTUs and shall include a receiver drier.

Performance Data: (Unit only, no ducting or louvers)
• AC BTU: 55,000
• Heat BTU: 65,000
• CFM: 1300 @ 13.8V (All blowers)

The compressor shall be a ten-cylinder swash plate type Seltec model TM-31HD with a capacity of 19.1 cu. in. per revolution.

The system shall be capable of cooling the interior of the cab from 100 degrees ambient to 75 degrees or less with 50% relative humidity in 30 minutes or less.

SEATS

Cab Seats

All cab seats shall be Bostrom brand.

Seat, Officer

One (1) Bostrom Tanker 450 ABTS seat with high back SCBA storage shall be provided in the officer position.

The ABTS (All-Belts-To-Seat) design shall include a bright red 3-point integrated seat belt with an additional 8-12″ of additional useable belt webbing for easy access and comfort—increasing seat belt usage amongst firefighters and rescue personnel.

Seat features shall include:

- Removable “Store-All” side cushions
- Auto-pivot and return headrest to open for improved exit with SCBA
- 12.5” wide SCBA cavity to store leading SCBA brands
- Shoulder strap holder
- Replaceable seat, side and headrest cushions

Seat Cover Material

All seats shall have Durawear seat cover material.

Seat Fabric Color

All seats shall be gray in color.

Seating Capacity Tag

A tag that is in view of the driver stating seating capacity of six (6) personnel shall be provided.

Seat, Rear Wall

Two (2) Bostrom SCBA backs and a two (2) person bench style seat with a single bottom cushion shall be mounted on an aluminum seat riser or the rear wall of the cab. Each side of the seat riser shall be angled, providing sufficient legroom when entering and exiting the cab.

Features shall include:

• Removable ”Store-All” side cushions.
• Auto-pivot and return headrest to open for improved exit with SCBA.
• 12.5” wide SCBA cavity to store leading SCBA brands.
• Built-in lumbar support.
• Replaceable seat, side and headrest cushions.

All seat positions shall have a bright red retractable 3-point lap and shoulder harness, providing additional safety and security for personnel. Extensions shall be provided with the seat belts so the male end can be easily grasped and the female end easily located while sitting in a normal position.

Seat, Rear Wall

One (1) fold down jump seat shall be provided.

The seat shall be located on the rear wall driver's side outboard, officer's side outboard.

Features to include:

• Seat bottom cushion shall be constructed of high density foam with a heavy duty, wear resistant material.
• Seat bottom automatically folds up when not in use to provide increased room in the rear of the cab.

All seat positions shall have a bright red retractable 3-point lap and shoulder harness, providing additional safety and security for personnel. Extensions shall be provided with the seat belts so the male end can be easily grasped and the female end easily located while sitting in a normal position.

Seat, Driver

One (1) H. O. Bostrom 400 Series Sierra Air-30RX4 suspension seat with ABTS and high back styling shall be supplied for the driver position.

The ABTS (All-Belts-To-Seat) design shall include a bright red 3-point integrated seat belt with an additional 8-12″ of additional useable belt webbing for easy access and comfort—increasing seat belt usage amongst firefighters and rescue personnel.

Features shall include:

- Air-30 suspension assembly with weight, height and ride adjustment
- Built in lumbar support.
- 1.5” vertical suspension motion
- 5” fore and aft adjustment

MEDICAL CABINETS

Medical Storage Cabinet Finish

The medical storage cabinet(s) shall have a multi-tone gray finish. The finish shall be applied to the interior, exterior, shelves (if equipped) and trays (if equipped) of the cabinet.

Medical Storage Cabinet

There shall be one (1) medical storage cabinet provided over the driver side wheel well of the cab with exterior access. The medical storage cabinet shall be constructed of 1/8” (.125”) smooth aluminum plate.

The medical cabinet dimensions shall be based on cab style (viewed from the exterior):
94” Wide Typhoon / Cyclone: 30” high x 28” wide x 24” deep.
100” Wide Cyclone and Quest: 30” high x 28” wide x 27” deep.

The medical storage cabinet shall be accessible externally of the cab by a locking double pan door.

The exterior door shall be constructed using a box pan configuration. The outer door pan shall beveled and shall be constructed from 3/16” (0.188”) aluminum plate. Inner door pan shall be constructed from 3/32" (0.090”) smooth aluminum plate and shall have nutsert fittings to attach hold-open hardware. The inner pan shall have a 95-degree bend to form an integral drip rail.

The exterior door shall have a 1” x 9/16” (1” x 0.43”) closed-cell ”P” EPDM sponge gasket meeting ASTM D-1066 2A4 standards installed around the perimeter of the door to provide a seal that is resistant to oil, sunlight, and ozone.

A drain hole shall be installed in the lower corner of the inside door pan to assist with drainage.

A polished stainless steel Hansen D-ring style twist-lock door handle with a #459 latch shall be provided on the door. The 4-1/2” (4.5”) D-ring handle shall be mounted directly to the door latching mechanism with screws that do not penetrate the door material for improved corrosion resistance.

The exterior door shall be securely attached to the apparatus cab with a full-length stainless steel 1/4” (0.25”) rod piano-type hinge isolated from the cab and exterior door with a dielectric barrier. The door shall be attached with machine screws threaded into the door frame. The door shall have a gas shock-style hold-open device.

An anodized aluminum drip rail shall be mounted over the compartment opening to assist in directing water run-off away from the compartment.

Medical Storage Cabinet

There shall be one (1) medical storage cabinet provided over the officer side wheel well of the cab with exterior access. The medical storage cabinet shall be constructed of 1/8” (.125”) smooth aluminum plate.

The medical cabinet dimensions shall be based on cab style (viewed from the exterior):
94” Wide Typhoon / Cyclone: 30” high x 28” wide x 24” deep.
100” Wide Cyclone and Quest: 30” high x 28” wide x 27” deep.

The medical storage cabinet shall be accessible externally of the cab by a locking double pan door.

The exterior door shall be constructed using a box pan configuration. The outer door pan shall beveled and shall be constructed from 3/16” (0.188”) aluminum plate. Inner door pan shall be constructed from 3/32" (0.090”) smooth aluminum plate and shall have nutsert fittings to attach hold-open hardware. The inner pan shall have a 95-degree bend to form an integral drip rail.

The exterior door shall have a 1” x 9/16” (1” x 0.43”) closed-cell ”P” EPDM sponge gasket meeting ASTM D-1066 2A4 standards installed around the perimeter of the door to provide a seal that is resistant to oil, sunlight, and ozone.

A drain hole shall be installed in the lower corner of the inside door pan to assist with drainage.

A polished stainless steel Hansen D-ring style twist-lock door handle with a #459 latch shall be provided on the door. The 4-1/2” (4.5”) D-ring handle shall be mounted directly to the door latching mechanism with screws that do not penetrate the door material for improved corrosion resistance.

The exterior door shall be securely attached to the apparatus cab with a full-length stainless steel 1/4” (0.25”) rod piano-type hinge isolated from the cab and exterior door with a dielectric

barrier. The door shall be attached with machine screws threaded into the door frame. The door shall have a gas shock style hold-open device.

An anodized aluminum drip rail shall be mounted over the compartment opening to assist in directing water run-off away from the compartment.

MISC INTERIOR CAB OPTIONS

Cab Interior Padding Color

Cab interior padding to be gray color. Includes ceiling, side and rear walls as applicable.

Sun Visors

Padded sun visors shall be provided for the driver and officer matching the interior trim of the cab and shall be flush mounted into the underside of the overhead console.

Cab Rollover Protection - Side Air Bags [Qty: 4]

RollTek Integrated Head Curtains (IHC) shall be installed in the apparatus cab. The pillow-shaped side air bags shall be attached either to the ABTS seats or the rear cab wall. The air bags shall be optimally placed to deploy across the window and side of the vehicle interior to protect the occupants heads during impact. The air bags shall use a combination of high-pressure stored argon and oxygen (and a pyrotechnic charge for initiation) to inflate the bags to a relatively cool (120° Fahrenheit) inflation temperature and remain inflated for several seconds.

Cab Rollover Protection - Seat Belt Pretensioners [Qty: 6]

RollTek Integrated Seat Belt Pretensioners (ISB) shall be installed in the apparatus cab. The special seat belt buckles shall be designed to receive a signal from the Integrated Roll Sensor during a roll for the pretensioners on the buckles to tighten the seat belts to the occupant, better positioning the occupant in the seats.

Cab Rollover Protection - Air Bag Sensor Module

A RollTek rollover occupant protection system shall be installed in the apparatus cab. The system shall include an Integrated Roll Sensor, Integrated Head Curtains and Integrated Seat Belt pretensioners.

The Integrated Roll Sensor (IRS) shall be a microprocessor-controlled solid-state sensing device that utilizes vehicle-specific calibrations to detect rollovers. The IRS shall be equipped with up to sixteen (16) pyrotechnic loops for connection to the protective countermeasures (Integrated Head Curtains and Integrated Seat Belt pretensioners).

The IRS shall continually monitor the truck`s acceleration and angle, and upon detection of an imminent roll-over, shall activate protective countermeasures in a pre-programmed sequence. The entire process from activation to deployment shall take less than ¼ of a second (.234).

Engine Cover

The engine cover shall blend in smoothly with the interior dash and flooring of the cab. The upper left and right sides shall have a sloped transition surface running front to rear providing increased space for the driver and officer.

The engine cover and engine service access door cover shall be molded 18 lb/cu. ft. (+/-0.5) flexible integral skinned polyurethane foam at a Durometer of 60 (+/- 5.0) per ASTM F1957-99. The cover shall be approximately .5" thick with a minimum skin thickness of 0.0625 inches. The cover shall be provided to reduce the transmission of noise and heat from the engine. The cover shall be black and feature a pebble grain finish for slip resistance.

Front Occupant Protection

A 4Front occupant protection system shall be installed in the apparatus cab. The system shall inflate three (3) air bags in the following locations:

- Steering wheel air bag to protect the head and neck of the driver
- Knee bolster air bag to protect the driver's legs
- Knee bolster air bag to protect the officer's legs

The air bags shall use a combination of high-pressure stored argon and oxygen (and a pyrotechnic charge for initiation) to inflate the bags to a relatively cool (120° Fahrenheit) inflation temperature and remain inflated for several seconds.

The system shall be connected to the crash detection sensor that will also activate the driver and first officer Integrated Belt Pretensioners if it detects a frontal crash.

Cab Rollover Protection - Seat Pull-Down

A seat pull-down (S4) shall be installed on the air suspension seat(s) in the apparatus cab. The pull-down shall be designed to receive a signal from the Integrated Roll Sensor during a roll (or frontal impact if equipped with 4Front) lowering the air ride seat(s) to provide maximum survivable space for the occupant.

Overhead Console

An overhead console shall be provided in the front of the cab for the driver and officer. The areas in front of the driver and officer shall be removable panels that can be used for switches and other electrical items. The entire overhead console shall be hinged for service access.

The center of the overhead console shall have a lowered area for mounting of up to three (3) electrical components like siren heads, directional bar controllers, etc.

The overhead console shall be constructed of aluminum smooth plate painted to match the cab interior. The console shall be installed using stainless steel fasteners.

Mounting Plate on Engine Cover

An equipment mounting plate shall be provided between the driver and officer on the chassis engine cover. The plate shall be mounted to the engine cover forward of the access door spaced approximately 1/2" up to provide clearance for equipment mounting hardware. The plate shall be approximately 32"W x 12.5"L (front to rear), constructed of 3/16" aluminum plate and finish shall match cab interior.

Air Horn Lanyard

There shall be a ”Y” style lanyard mounted in the center of the cab with a "Heavy-Duty" (keyring) attachment that allows the driver and officer to operate the air horns. The lanyard shall activate an electrical air switch. Aircraft style cable (1/8" wire cable covered with clear plastic/nylon tubing) shall be used.

Cab Dash - Low Profile Severe Duty

The driver side and center dash shall be constructed from cast aluminum for durability and long life.

The driver side cast aluminum dash shall enclose the instrument cluster.

The center dash area shall be a low profile design to provide optimal forward visibility. The driver and officer sides shall be angled for ergonomic access and designed for either a color display or switches. Access panels shall be provided on the top, front and officer side for easy service access.

The officer side dash shall be low profile and constructed from .125" smooth aluminum plate. A service access panel shall be provided in the top surface.

The driver, center and officer side dash shall be painted to match the cab interior.

The lower kick panels below the dash to be constructed from .125 aluminum plate painted to match the cab interior. The panels shall be removable to allow for servicing components that may be located behind the panels.

Clean Cab Vent Removal

Any vent or louver shall be removed for all exterior access only cabinets that get vented to the cab interior. This option shall be used, but not limited to, clean cab configurations.

Cab Insulation Package

The cab shall be insulated to mitigate noise and ensure maximum cooling/heating capacity. The insulation package shall include 1" Polyester foam with Mylar facing for the front wall, rear wall, side walls, and ceiling, Reflectex (or equal) inside each cab door and 1" closed cell foam insulation below the front and rear facing seat risers.

CAB ELECTRICAL OPTIONS

Cab Dome Lights

Four (4) ceiling mounted dome light assemblies shall be provided.

Each light shall consist of a three-position assembly mounted rocker switch, LED (light emitting diode) 4” grommet mount white dome light, LED (light emitting diode) 4” grommet mount red dome light, and a plastic housing.

The white light activates with appropriate cab door and light assembly mounted rocker switch, the red light activates with assembly mounted rocker switch only.

Two (2) lights shall be located in both the front and rear of the cab.

Push-Button Switch

A heavy duty metal push-button switch shall be installed on the officer`s side switch panel to operate the Q2B siren.

Push-Button Switch

A heavy duty metal push-button switch shall be installed on the officer`s side switch panel to operate the Q2B siren brake.

Auto-Eject Inlet Receptacle

The inlet receptacle shall be a Kussmaul 20 amp NEMA 5-20 Super Auto-Eject #091-55-20-120 with a cover. The Super Auto-Eject receptacle shall be completely sealed and have an automatic power line disconnect.

The receptacle shall be located outside driver's door next to handrail and the cover color shall be Yellow.

Horn Button Switch

A three (3) position rocker switch shall be installed in the cab accessible to driver and properly labeled to enable operator to activate the OEM traffic horn, air horn or electronic siren from the steering wheel horn button.

ATC Override

An Automatic Traction Control (ATC) override switch shall be provided. The switch shall be located within reach of the driver and allow for momentary disabling of the ATC system due to mud or snow conditions.

Headlights

The front of the cab shall have four (4) headlights. The headlights shall be mounted on the front of the cab in the upper position.

Antenna Base

There shall be a Tessco P/N 90942 universal antenna base mounted on the cab roof with a weatherproof connector. The antenna base shall be NMO Motorola Style (equivalent to a MATM style) with RG58U coax cable. The antenna shall be located driver side forward with coaxial cable terminating at the center of the dash board, driver side rearward with coaxial cable terminating at the center of the dash board.

Battery Charger Location

The battery charger shall be located behind driver's seat.

Battery Charger

An E-ONE LPC 20 battery charger with remote mounted LED display shall be installed.

A fully automatic charging system shall be installed on the apparatus. The system shall have a 120 volt, 60 hertz, 7 amp AC input with an output of 20 amps 12 volts DC. The battery charging system shall be connected directly to the shoreline to ensure the batteries remain fully charged while the vehicle is in the fire station or firehouse.

The system shall include a remote charging status indicator panel. The panel shall consist of two (2) LED lights to provide a visual signal if battery voltage is good or drops below 11.5 volts. The microprocessor shall be continuously powered from the battery to provide the charge status.

DPF Regeneration Override

A momentary override switch shall be provided for the Diesel Particulate Filter (DPF) regeneration. The switch will inhibit the regeneration process until the switch is reset or

the engine is shut down and restarted. The switch shall be located within reach of the driver.

Steering Wheel Switches

The steering wheel shall be supplied with two (2) switch pods. Each switch pod shall include five (5) switches. The pods shall include switching for wipers, master warning, air horns and auxiliary engine brake (on/off). In addition there shall be three (3) auxiliary switches that can be programmed to meet department specified functions.

The wiper switches shall include high / low speed, intermittent, wipe / wash and off. The wiper motors shall shall be synchronized so as to wipe each windshield simultaneously.

Cab Headlights

FireTech model FT-4x6-4KIT LED headlights shall be provided. The headlights shall include low beam, high beam, elliptical beam and an integrated halo ring park lamp. When not equipped with separate daytime running lights, the low beam headlights shall activate with the release of the parking brake for additional vehicle conspicuity and safety.

Cab Door Step Area Lighting

There shall be eight (8) clear TecNiq model D07 LED lights provided to illuminate the cab step well areas. Two (2) lights shall be located at each door area, one (1) above each step. The lights shall have polished stainless steel housings. The lights shall be activated by the cab door ajar circuit.

Cab Turn Signals

A pair of TecNiq LED (Light Emitting Diode) turn signal lights with clear lens shall be installed on the front of the cab. The strip type lights shall be 1.25" high x 15" long and be mounted in a polished cast aluminum housing between the quad bezels.

Dual USB Charging Receptacle in Cab [Qty: 2]

A dual port USB charger receptacle shall be provided in the cab. Includes (1) USB-C and (1) USB-A socket for charging cell phones and other portable electronics.

The receptacle shall be wired battery hot and located center of dash, officer side dash

Digital Dash

A digital LED cab dash display shall be provided for the driver. The display shall include gauges, telltales, warning messages and advanced diagnostic capabilities into a single 12.3 inch

digital display. The display shall communicate to other chassis components via the vehicle J1939 databus and provide plain text messages for engine fault codes as required by the EPA for 2027.

Gauges represented in the display shall include:

- Speedometer with odometer
- Tachometer
- Engine water temperature gauge with warning light and buzzer
- Engine oil pressure gauge with warning light and buzzer
- Transmission oil temperature gauge
- Air brake system pressure (front and rear) with low air alarm
- Fuel level gauge with low fuel indicator light
- DEF level gauge
- Voltmeter
- Engine hour meter

Units of measure for the display shall be selectable between English and Metric.

AERIAL BODY

Aerial Equipment Body

Performance

The aerial body shall be designed to permit the reloading of fire hose without raising the aerial from the stored position. This requirement is essential to the effective operation of the apparatus when pumper operations are required. **NO EXCEPTIONS**.

The apparatus body shall be constructed entirely of aluminum extrusions with interlocking aluminum plates. An extruded modular aluminum body is required due to the high strength-to-weight ratio of aluminum, corrosion-resistant body structure, easy damage repair, and lighter overall body weight to allow for increased equipment carrying capacity.

The apparatus shall incorporate a rescue style body design to maximize compartment space. The rescue style left and right side body shall combine upper and lower compartments to provide more efficient use of body storage capacity. The body design shall provide 181.6 cubic feet of storage, which exceeds the minimum NFPA 1901 Chapter 8.5 requirement of 40 cubic feet.

The entire vehicle shall be constructed of aluminum extrusions. Body designs that incorporate steel sub-frames connected to aluminum compartments are not as corrosion-resistant and not acceptable.

Body Mainframe

The body mainframe shall be entirely constructed of aluminum. The complete framework shall be constructed of 6061T6 and 6063T5 aluminum alloy extrusions welded together using 5356 aluminum alloy welding wire.

The mainframe shall incorporate a series of vertical frame components connected in series. Each vertical frame assembly shall be constructed with 3” x 3” extrusions welded together in a square frame configuration. The open center shall permit the installation of a tunnel for ground ladder storage. The mainframe shall be held together from front to rear by two (2) solid 1/2” x 3” aluminum braces on each side of the vertical frame components. The braces shall also serve as the connection point between the torque box and body frame. The body side compartments shall be connected and supported by the extruded aluminum mainframe assembly.

Body Side Assemblies

The left and right side body assemblies shall be framed with 6063T5 1 1/2” x 4” 3/16” wall extrusions. The left side body compartments shall be framed to make full height compartments ahead and behind the wheel well opening. The body side assemblies shall be designed so that the compartment walls are not required to support the body. The compartments shall be interlocked and welded to the side assembly extrusions.

The top of the body side assemblies shall be supplied with embossed diamond plate covers with polished corners to minimize maintenance and provide service access to electrical components.

Stabilizer Openings

The body shall be designed to accommodate a four (4) stabilizer aerial system. One (1) opening shall be supplied behind the rear axle as close to the wheel well opening as possible to maximize rear angle of departure and to prevent the stabilizer pads from contacting the ground during driving. The second set shall be mounted just behind the pump compartment. The openings shall be framed in aluminum extrusions. A stabilizer cover shall be supplied on the extendable stabilizer. The cover shall provide a pleasing appearance and mounting location for a red stabilizer warning light as outlined in NFPA 1901.

The stabilizer openings shall be supplied with clear LED lights to illuminate the stabilizers and the ground surrounding the openings. The lights shall illuminate when any stabilizer is moved from the stored position.

Body Mounting System

The body shall attach to the integral torque box with grade 8 bolts connected through steel mounts welded on the side of the torque box. To isolate dissimilar metals a 1/4” fiber- reinforced rubber dielectric barrier between the aluminum body and steel torque box shall be supplied. Body designs that weld to the aerial torque box or chassis frame rails shall not be acceptable due to the stress imposed on the vehicle during road travel and aerial operations.

Rear Body Design

The rear body shall be designed to provide ground ladder storage, hose deployment, and service access to aerial components. The center rear of the body shall be open for ground ladder storage. The area below the ground ladder storage shall be for a waterway inlet (if applicable), the stabilizer control panel and have access doors to hydraulic components.

The aerial master control panel that is located on the rear of the body shall consist of a master switch, interlock light, and indicators that illuminate when each stabilizer is deployed. The stabilizer controls shall be divided into two (2) boxes located one (1) each side on the rear body so the operator may observe the stabilizers being deployed on each side of the apparatus as outlined in NFPA 1901.

Side Aerial Access Staircase

A single access staircase shall be supplied on the driver`s side of the apparatus to the aerial turntable. The staircase shall incorporate a pocket-style drop-down step in the body rubrail to reduce ground to staircase step height when the unit is up on jacks. The angled staircase shall be supplied with extruded aluminum handrails on both sides of the staircase frame.

Dual Fuel Fills

The apparatus shall be supplied with a fuel fill on each side of the body. The fuel fills shall have hinged doors attached with a 1/8” stainless steel hinge and a latch to keep the doors closed.

Water Tank Mounting System

The body design shall allow the booster tank to be completely removable without disturbing or dismounting the apparatus body structure. The water tank shall rest on top of a 3” x 3” frame assembly covered with rubber shock pads and corner braces formed from 3/16” angled plate to support the tank.

The booster tank mounting system shall utilize a floating design to reduce stress from road travel and vibration. To maintain low vehicle center of gravity, the water tank bottom shall be mounted within 5” of the frame rail top. Designs that store ground ladders under the water tank and raise center of gravity shall not be acceptable.

Upper Body

The upper forward area of the body shall have embossed diamond plate covering the water tank. To the rear of the water tank shall be an open storage area with embossed diamond plate flooring.

Fire Hose Storage

The hosebed shall contain 50 cubic feet. The hosebed shall measure 23” deep by 18” wide and 210” long.

The hosebed compartment deck shall be constructed entirely from maintenance-free extruded aluminum. Extrusions shall have an anodized ribbed top surface for maintenance-free service life. Extruded aluminum slats shall be 3/4” x 2 3/4” and shall be riveted into a one-piece grid system to prevent the accumulation of water and allow ventilation to assist in drying hose. The hosebed compartment shall be free of sharp edges and projections to prevent hose damage. The compartment deck design shall incorporate a track for the installation of adjustable hosebed dividers. The track shall hold the nut straight so only a Torx head driver is required to adjust the divider from side to side.

Compartments

All body compartment walls and ceilings shall be constructed from 1/8” formed aluminum 3003 H14 alloy plate. Each compartment shall be modular in design and shall not be part of the body support structure.

Compartment floors shall be constructed of 1/8” aluminum diamond plate welded in place. Compartment floors that are over 15” deep shall be supported by a minimum 1.5” x 3” x 1/8” walled aluminum extrusions. The compartment seams shall be sealed using a permanent pliable silicone caulk. A series of louvers shall be supplied to facilitate ventilation of each compartment. Each louver shall be 3” wide by 3/4” tall and 1/2” deep.

Compartment Sizes

The approximate compartment sizes and locations shall be as follows:

Left Side:
There shall be one (1) compartment (L1) over the forward stabilizer. The compartment shall be approximately 31” wide x 26.5” high x 17” deep (upper) and 31” wide x 28.5” high x 14” deep (lower) and contain approximately 15.24 cubic feet of storage space. The door opening shall be approximately 31” wide x 55” high.

There shall be one (1) compartment (L2) behind the forward stabilizer. The compartment shall be approximately 38” wide x 26.5” high x 17” deep (upper) and 38” wide x 39” high x 26” deep (lower) and contain approximately 32.21 cubic feet of storage space. The door opening shall be approximately 38” wide x 65” high.

There shall be one (1) compartment (L3) over rear wheels. The compartment shall be approximately 50.5” wide x 12.5” high x 17” deep (upper) and 50.5” wide x 19” high x 25” deep (lower) and contain approximately 20.09 cubic feet of storage space. The door opening shall be approximately 50.5” wide X 31.5” high.

There shall be one (1) compartment (L4) over rear wheels. The compartment shall be approximately 52” wide x 19” high x 20” deep (forward) and 11.5” wide x 19” high x 18” deep (rearward) and contain approximately 13.72 cubic feet of storage space. The door opening shall be approximately 63.5” wide x 19” high.

There shall be one (1) compartment (L5) over the rear stabilizer. The compartment shall be approximately 31” wide x 14.5” high x 18” deep (upper) and 30” wide x 28” high x 14” deep (lower) and contain approximately 11.49 cubic feet of storage space. The door opening shall be approximately 31” wide x 42.5” high.

There shall be one (1) compartment (L6) behind the rear stabilizer. The compartment shall be approximately 25.5” wide x 14.5” high x 18” deep (upper) and 25.5” wide x 38.5” high x 23” deep (lower) and contain approximately 16.72 cubic feet of storage space. The door opening shall be approximately 25.5” wide x 53” high.

Right Side:
There shall be one (1) compartment (R1) over the forward stabilizer. The compartment shall be approximately 31” wide x 26.5” high x 17” deep (upper) and 31” wide x 28.5” high x 14” deep (lower) and contain approximately 15.24 cubic feet of storage space. The door opening shall be approximately 31” wide x 55” high.

There shall be one (1) compartment (R2) behind the forward stabilizer. The compartment shall be approximately 38” wide x 26.5” high x 17” deep (upper) and 38” wide x 39” high x 26” deep (lower) and contain approximately 32.21 cubic feet of storage space. The door opening shall be approximately 38” wide x 65” high.

There shall be one (1) compartment (R3) over the rear stabilizer. The compartment shall be approximately 30” wide x 19.5” high x 14” deep and contain approximately 4.74 Cubic feet of storage space. The door opening shall be approximately 31” wide x 19.5” high.

There shall be one (1) compartment (R4) behind the rear stabilizer. The compartment shall be approximately 49.5” wide x 30” high x 23” deep and contain approximately 19.77 Cubic feet of storage space. The door opening shall be approximately 49.5” wide x 30” high.

Handrails

Access handrails shall be provided at all step positions, including, but not limited to, the rear turntable access steps and installed to NFPA 1901 15.8. All body handrails shall be constructed of maintenance-free, corrosion-resistant, extruded aluminum. Handrails shall be a minimum of 1.25” OD and shall be installed between chrome end stanchions at least 2” from the mounting surface to allow for access with a gloved hand. The extruded aluminum shall be ribbed to assure a good grip for personnel safety.

Steps, Standing, and Walking Surfaces

The maximum stepping distance shall not exceed 18”, with the exception of the ground to first step. The ground to first step shall not exceed 24”. The ground to first step shall be maintained when the stabilizers are deployed by an auxiliary set of steps installed at the aerial access staircase. All steps or ladders shall sustain a minimum static load of 500 lbs. without deformation as outlined in NFPA 15.7.2.

All exterior steps shall be designed with a minimum slip resistance of 0.52 when tested wet using the Brungraber Mark II tester in accordance with the manufacturer's instructions.

Apparatus Warning Labels

A label shall be supplied on the rear body to warn personnel that riding in or on the rear step is prohibited as outlined in NFPA 1901 15.7.5. A label shall be applied to both sides of the apparatus and the rear to warn operators that the aerial is not insulated.

Rubrail

The body shall have a rubrail along the length of the body on each side and at the rear. The rubrail shall be constructed of minimum 3/16” thick anodized aluminum 6463T6 extrusion. The rubrail shall be a minimum of 2.75” high x 1.25” deep and shall extend beyond the body width to protect compartment doors and the body side.

The rubrail shall be of a C-channel design to allow marker and warning lights to be recessed inside for protection. The top surface of the rubrail shall have a minimum of five (5) serrations raised .1” high with cross grooves to provide a slip-resistant edge for the rear step and running boards. The rubrail shall be spaced away from the body using 3/16” nylon spacers. The ends of each section shall be provided with a rounded corner piece. The area inside the rubrail C-channel shall be inset with a reflective material for increased side and rear visibility.

ISO Compliance

The manufacturer shall ensure that the construction of the apparatus aerial body shall be in conformance with the established ISO-compliant quality system. All written quality procedures and other procedures referenced within the pages of the manufacturer`s Quality Manual, as well as all Work Instructions, Workmanship Standards, and Calibration Administration that directly or indirectly impacts this process shall be strictly adhered to. By virtue of its ISO compliance the manufacturer shall provide an apparatus aerial device that is built to exacting standards, meets the customer`s expectations, and satisfies the customer`s requirements.

BODY COMPT REAR

Rear Body Panels

The rear body panels shall be smooth 1/8” un-painted aluminum plate to facilitate rear body striping. The panels shall be bolt-on for a clean appearance and easier repair in the event of damage.

AERIAL BODY OPTIONS

Double Crosslay Hosebed

Two (2) crosslay hosebeds shall be provided at the front area of the body. Each of the two (2) crosslay sections shall have a capacity for up to 200` of 2.0” double-jacket fire hose double stacked and preconnected to the pump discharge. The crosslay decking shall be constructed entirely of maintenance-free 3/4” x 2-3/4” hollow aluminum extrusions.

Stainless steel rollers with nylon guides set in aluminum extrusions shall be installed horizontally and vertically on each end of the crosslay to allow easy deployment of the hose and help protect the body paint.

Dunnage Pan

A dunnage pan constructed of 3/16” (.188”) aluminum treadplate shall be located rearward of the crosslays. The dunnage pan shall be sized to maximize available storage space.

Outrigger Covers

Two (2) piece outrigger covers constructed of .125" aluminum treadplate shall be provided for the jack leg openings. One piece of the cover shall be sized to cover just the extending outrigger in order to require a minimal amount of set-up space. The second piece of the cover shall be fixed and mounted to the body to cover the remaining outrigger opening.

Auxiliary Ground Pads

Four (4) auxiliary ground pads shall be provided. The pads shall be 24” x 24” x 1/2” thick aluminum plate with a 20 degree formed handle with cutout for hand hold. The pads shall be stored in brackets that are welded below the body.

Rear Pike Pole Storage

Pike poles storage shall be provided at the rear of the body for six (6) pike poles. The storage area shall be labeled for two (2) 6` poles, two (2) 8` poles, and two (2) 12` poles. The pike poles shall be secured by either ”J” slotted locking tubes and/or hinged door(s) that matches the rear body finish.

Ladder Tunnel Doors

A pair of 3/16” (.188) aluminum smooth plate doors with D-ring style handles shall be installed for access to the rear ladder tunnel. Each door shall open a full 90 degrees to allow easy removal of ground ladders. The doors shall match the rear body finish.

The doors shall be boxed out as required for the ladder compliment optioned.

Rear Control Doors

The driver/officer jack and master control switch panels at the rear of the body shall be provided with access doors. The doors shall have the same finish as the rear of the body.

Fuel Fill Door

The fuel fills shall have hinged treadplate doors with a 1/4” stainless steel hinge and a latch to keep the doors closed. The doors shall be labeled ”Diesel Fuel Only”.

Outrigger Control Storage Box

A storage box shall be provided for the handheld aerial outrigger control. The box shall be approximately 14" wide x 8" high x 12" deep. The box shall include a hinged access door with push button latch. The box shall be located in the driver side rear staircase above second step from the bottom recessed in the back wall. Door material to match staircase platework finish.

DOORS

Single Compartment Door

A single compartment door shall be constructed using a box pan configuration. The outer door pan shall beveled and shall be constructed from 3/16” (0.188”) aluminum plate. The inner door pan shall be constructed from 3/32" (0.090”) smooth aluminum plate and shall have nutsert fittings to attach hold-open hardware. The inner pan shall have a 95-degree bend to form an integral drip rail.

The compartment door shall have a 1” x 9/16” (1” x 0.43”) closed-cell ”P” EPDM sponge gasket meeting ASTM D-1066 2A4 standards installed around the perimeter of the door to provide a seal that is resistant to oil, sunlight, and ozone.

A drain hole shall be installed in the lower corner of the inside door pan to assist with drainage.

A polished stainless steel Hansen D-ring style twist-lock door handle a with #459 latch shall be provided on the door. The 4-1/2” (4.5”) D-ring handle shall be mounted directly to the door latching mechanism with screws that do not penetrate the door material for improved corrosion resistance.

The compartment door shall be securely attached to the apparatus body with a full-length stainless steel 1/4” (0.25”) rod piano-type hinge isolated from the body and compartment door with a dielectric barrier. The door shall be attached with machine screws threaded into the doorframe. The door shall have a gas shock-style hold-open device.

An anodized aluminum drip rail shall be mounted over the compartment opening to assist in directing water runoff away from the compartment.

The door(s) shall be installed in the following location(s): R3

Painted Roll Up Compartment Door

A ROM brand roll up door painted job color shall be provided on a compartment up to 45” tall. The door(s) shall be installed in the following location(s): L5.

The Robinson door slats shall be double wall box frame and manufactured from anodized aluminum. The slats shall have interlocking end shoes on each slat. The slats shall have interlocking joints with a PVC/vinyl inner seal to prevent any metal to metal contact and inhibit moisture and dust penetration.

The track shall be painted aluminum with a finishing flange incorporated to provide a finished look around the perimeter of the door without additional trim or caulking. The track shall have a replaceable side seal to prevent water and dust from entering the compartment.

The doors shall be counterbalanced for ease in operation. A full width latch bar shall be operable with one hand, even with heavy gloves. Securing method shall be a positive latch device.

A magnetic type switch integral to the door shall be supplied for door ajar indication and compartment light activation.

The door opening shall be reduced by 2” in width and approximately 8-9” in height depending on door height.

Painted Roll Up Compartment Door

A ROM brand roll up door painted job color shall be provided on a compartment greater than 45” tall. The door(s) shall be installed in the following location(s): L1, L2, L6, R1, R2.

The Robinson door slats shall be double wall box frame and manufactured from anodized aluminum. The slats shall have interlocking end shoes on each slat. The slats shall have interlocking joints with a PVC/vinyl inner seal to prevent any metal to metal contact and inhibit moisture and dust penetration.

The track shall be painted aluminum with a finishing flange incorporated to provide a finished look around the perimeter of the door without additional trim or caulking. The track shall have a replaceable side seal to prevent water and dust from entering the compartment.

The doors shall be counterbalanced for ease in operation. A full width latch bar shall be operable with one hand, even with heavy gloves. Securing method shall be a positive latch device.

A magnetic type switch integral to the door shall be supplied for door ajar indication and compartment light activation.

The door opening shall be reduced by 2” in width and approximately 8-9” in height depending on door height.

Drip Pan

A ROM drip pan shall be supplied for each roll-up door. The drip pan shall be made from a high strength aluminum alloy. The splashguard and end caps shall be made from extruded and injection molded high-impact plastic. Drip pan location(s): L1, L2, L5, L6, R1, R2.

Double Compartment Door

Double compartment doors shall be constructed using a box pan configuration. The outer door pans shall beveled and shall be constructed from 3/16” (0.188”) aluminum plate. The inner door pans shall be constructed from 3/32" (0.090”) smooth aluminum plate and shall have nutsert fittings to attach hold-open hardware. The inner pans shall have a 90-degree bend to form an integral drip rail.

The compartment doors shall have a 1” x 9/16” (1” x 0.43”) closed-cell ”P” EPDM sponge gasket meeting ASTM D-1066 2A4 standards installed around the perimeter of the doors to provide a seal that is resistant to oil, sunlight, and ozone.

A drain hole shall be installed in the lower corner of the inside door pan to assist with drainage.

A polished stainless steel Hansen D-ring style twist-lock door handle a with #459 latch shall be provided on the primary door. The 4-1/2” (4.5”) D-ring handle shall be mounted directly to the door latching mechanism with screws that do not penetrate the door material for improved corrosion resistance.

The secondary door shall have a dual stage rotary latch with a 750 lb rating to hold the door in the closed position. The latch shall be mounted at the top of the door. A stainless steel paddle style handle shall be mounted on the interior pan of the door to actuate the rotary latch. The paddle handle shall be connected to the rotary latch by a 5/32" (.156") diameter rod. Cable actuation shall be deemed un-acceptable due to the potential for cable stretch and slippage. The striker pin shall be 3/8" (.38") diameter with slotted mounting holes for adjustment.

Double door latch to have latch brackets fabricated from .125 aluminum smooth plate, installed with "PULL" tags #1032993 for left side and #1032294 for right side.

The compartment doors shall be securely attached to the apparatus body with a full-length stainless steel 1/4” (0.25”) rod piano-type hinge isolated from the body and compartment doors with a dielectric barrier. The doors shall be attached with machine screws threaded into the doorframe.

The doors shall have a gas shock-style hold-open device. The gas shocks shall have a 30 lb rating and be mounted near the top of the door (when possible).

An anodized aluminum drip rail shall be mounted over the compartment opening to assist in directing water runoff away from the compartment.

The door(s) shall be installed in the following location(s): L3, L4, R4

Strap for Roll-Up Door

A bungee type strap shall be provided on the roll-up doors to assist in closing the door. The strap shall be affixed to both the door and the interior so the strap stays inside the compartment when lowering. The strap shall be provided on full height and high side (upper) compartments.

SHELVES

Adjustable Shelf [Qty: 8]

There shall be an aluminum adjustable shelf provided for a compartment as specified.

The shelf shall be constructed of 3/16” (.187”) smooth aluminum plate. The shelf shall have a minimum 2” front and rear lips to accommodate optional plastic interlocking compartment tile systems and shall be capable of holding 100 lbs on compartments with tracks mounted on back wall (compartments up to appoximately 12" deep) or shall be capable of holding 250 lbs with tracks mounted on forward and rearward walls.

The shelf shall be sized, width and depth, to match the size and location in the compartment.

TRAYS / TOOLBOARDS

Roll-Out Tray [Qty: 2]

There shall be a floor mounted roll-out tray provided in a compartment as specified.

The roll-out tray shall be constructed of 3/16” (.187”) smooth aluminum plate with a sanded finish and welded corners for increased strength and rigidity. The tray shall be sized in width and depth as applicable.

For greater tray accessibility, the drawer slides shall feature one hundred percent extension. The tray shall utilize a gas spring to secure the tray in the open or closed position.

The tray shall have a total capacity of 500 lbs.

Swing-out Tool Board

A swing out aluminum tool board shall be provided for a compartment as specified.

The tool board shall be constructed of 1/4” (.25”) smooth aluminum plate, aluminum extrusions and PAC TRAC model PM-1000 pivot mount assembly. The tool board shall have a sanded finish and be sized in height and depth as applicable. A postivive latching mechanism shall be provided to hold the tool board in the closed prosition.

The tool board shall be mounted centered front to rear of the compartment and hinged to the forward wall (unless otherwise specified).

Toolboard shall be rated to support up to 100 lbs.

COVERS

Hose Bed Cover

A cover constructed of Black 18 oz. PVC vinyl coated polyester shall be installed over the apparatus hose bed. The base fabric shall be 1000 x 1300 Denier Polyester with a fabric count of 20 x 20 square inch.

The front edge of the cover shall be mechanically attached to the body. The sides of the cover shall be held in place with heavy duty Velcro strips running the length of the hose bed. The rear of the cover shall have an integral flap that extends down to cover the rear of the hose bed.This flap shall be secured in place along the lower edge with flexible cord that fasten to steel hook(s) mounted to body to comply with the latest edition of NFPA 1901.

Vinyl Crosslay Cover

A cover constructed of Black 18 oz. PVC vinyl coated polyester shall be installed on the crosslay. The base fabric shall be 1000 x 1300 Denier Polyester with a fabric count of 20 x 20 per square inch.

The cover shall be held in place across the top of the body by chrome snaps. The sides of the cover shall have integral flaps that extend down to cover the sides of the crosslay. The side flaps shall be secured in place to comply with the latest edition of NFPA 1901.

PUMP MODULE

Pump Panel Opening

Pump panel opening is 46" wide.

Pump Module

Pump Module Frame

An extruded aluminum pump module shall be provided and located forward of the apparatus body. The pump module shall be constructed entirely of welded aluminum alloy extrusions and interlocking aluminum plates. The pump module framework shall consist of 1.5" x 3" x .188" wall, 1.5" x 3" x .375" wall with center web and 3" x 3" x .188" wall extrusions.

The pump module design and mounting shall be separate from the body to allow the pump module and body to move independently of each other in order to reduce stress from frame twisting and vibration.

Pump Module Mounting

The pump module shall be attached to the chassis using four (4) center bonded isolation mounts and a steel mounting frame. The isolation mounts shall be 2.75" diameter and mount to the chassis with two (2) 4" x 4" x .312" A36 steel angles.

Pump Access

A pump service access opening shall be provided at the front of the pump module.

Pump Module Running Boards

A side running board formed from 1/8” aluminum diamond plate shall be provided and shall extend the full length of the pump module on each side of the apparatus. The running board shall be bolted to the pump compartment for rigidity and to provide easy removal for replacement in the case of damage.

Stepping Surface

Each running board shall include a multi-directional, aggressive gripping surface incorporated into the treadplate. The surface shall extend vertically from the diamond plate sheet a minimum of .125”. Gripping surfaces shall be circular in design, a minimum of 1” diameter and on centers not to exceed 4”. Each running board shall be bolted on to the pump module and be easily removable for replacement in the case of damage.

PUMP PANELS

Side Mount Pump Panels

The driver and officer side pump panels shall be constructed of 14 gauge stainless steel. Each panel shall have the ability to be removed from the module for easier access and for maintenance in the pump area.

Pump Access Door

The officer side pump module shall include an upper horizontal hinged pump access door.

The door shall be constructed of 14 gauge brushed stainless steel. The compartment door shall be securely attached with a full-length stainless steel piano type hinge with 1/4" pins. The hinge shall be "staked" on every other knuckle to prevent the pin from sliding. The door shall include two (2) push-button style latches to secure the door in the closed position and two (2) hold-open devices to hold the door in the open position.

MISC PUMP PANEL OPTIONS

Pump Panel Tags

Color coded pump panel labels shall be supplied to be in accordance with NFPA 1901 compliance.

PUMP MODULE OPTIONS

Flex Joint

The area between the pump modules and body shall include a rubber flex joint.

Air Horn Switch

A heavy duty weatherproof push-button switch shall be installed at the pump operator`s panel to operate the air horns.

The switch shall be labeled ”Evacuation Alert”.

Location: driver side pump panel.

WATER TANK

Booster Tank

The booster tank shall be T-shaped in configuration and shall have a useable capacity of 500 gallons (U.S.). The tank sides, top, and bottom shall be constructed of 1/2” (0.50”) black UV-stabilized copolymer polypropylene for high strength, corrosion resistance, and long life.

The tank shall be constructed utilizing latest thermoplastic welding technology. A clean, hot air controlled temperature process shall ensure that the weld reaches its plasticized state without cold or hot spots.

The tank shall undergo extensive testing prior to installation in the truck. The process shall include an electronic spark and waterfill test after both the internal and external tank shell welds are completed.

The tank shall have a combination vent and manual fill tower. The tower shall be located in the left front corner of the tank. The tank overflow shall be 4” diameter (3" may be provided on aerial applications with up to 1.5" tank fill only) and shall dump behind the rear wheels to permit maximum traction. The tower shall have a hinged cover and a 1/4” (0.25”) thick polypropylene screen.

There shall be two (2) standard tank openings; one (1) for the tank-to-pump suction line with an anti-swirl plate, and one (1) for the tank fill line.

Baffles, both longitudinal and latitudinal, shall be interlocking and thermo welded to minimize water surge during travel, enhancing road handling stability. Openings in the baffles shall be positioned to allow waterflow to NFPA standards during filling or pumping operations.

The tank shall be supported in an aluminum cradle resting on the frame on fiber-reinforced rubber strips to prevent wear and galvanic corrosion caused when two dissimilar metals come it contact. The tank shall be completely removable without disturbing or dismounting the apparatus body structure.

A lifetime manufacturer`s limited warranty shall be included.

TANK PLUMBING

Tank Fill 2 Akron Valve

One (1) 2” pump-to-tank fill line having a 2” manually operated full flow valve. The valve control shall be located at the pump operator`s panel and shall visually indicate the position of the valve at all times. The fill line shall be controlled using a chrome handle with an integral tag.

The valve shall be an Akron 8800HD series with a 316 stainless steel ball and dual polymer seats for ease of operation and increased abrasion resistance. The valve shall have a self-locking ball feature using an automatic friction lock design to balance the stainless steel ball when in a throttle position with water flowing through it.

The valve shall be of unique Akron swing-out design to allow the valve body to be removed for servicing without disassembling the plumbing.

All fabricated piping shall be a minimum of Schedule 10 stainless steel for superior corrosion resistance and decreased friction loss.

Tank to Pump, 3" Akron Valve

One (1) manually operated 3” Akron valve shall be installed between the pump suction and the booster tank in order to pump water from the tank. The valve control shall be located at the pump operator`s panel and shall visually indicate the position of the valve at all times.

The valve shall be an Akron 8800HD series with a 316 stainless steel ball and dual polymer seats for ease of operation and increased abrasion resistance. The valve shall have a self locking ball feature using an automatic friction lock design to balance the stainless steel ball when in a throttle position and water is flowing through it.

The valve shall be of the unique Akron swing-out design to allow the valve body to be removed for servicing without disassembling the plumbing.

All fabricated piping shall be a minimum of Schedule 10 stainless steel for superior corrosion resistance and decreased friction loss.

LADDER STORAGE / RACKS

Rear Ladder Storage

A ladder storage tunnel shall be provided beneath the aerial device frame work. There shall be access to the ladders via an opening at the rear.

This tunnel shall be lined with .090” aluminum. The ladders will be held captive top and bottom by aluminum tracks and slide on friction reducing material. All ladders shall be removable individually without having to remove any other ladder.

The ladder tunnel shall hold: PEL3-35, PEL-28, (2)PRL-16, PRL-14 and FL-10

Bracket Horizontal Ladder

Extension ladder mounting assembly shall consist of a 1/8” diamond plate boot bolted to the compartment top and a chrome plated handle to secure the ladder into the boot.

Location and type of ladder: over L1 for Little Giant model 17 Revolution 2.0 (any other model will require special request).

HANDRAILS / STEPS

Slide-out Platform

An Innovative Industries SlideMaster slide-out platform shall be provided. The platform shall utilize a SM3-MP-STEP slide assembly with a 600 lb. capacity and a 100% extension (or equivalent). Dual locks shall be provided to hold the step in the closed or open position.

The top surface of the step shall be constructed of 1/8" aluminum tread plate. The stepping surface shall consist of a multi-directional, aggressive gripping surface incorporated into the tread plate. The surface shall extend vertically from the diamond plate sheet a minimum of 1/8” (.125”). Gripping surfaces shall be circular in design, a minimum of 1” diameter and on centers not to exceed 4”.

The NFPA pump throttle height requirement shall be measured from the top of the slide out platform on all aerials and from the ground on side mounted pump operator panels on non-aerial apparatus.

The slide-out step shall be located below driver side pump panel.

MISC BODY OPTIONS

Mud Flaps

Black mud flaps with E-ONE logo shall be provided for the body wheel wells.

Floor Matting

This unit shall have all applicable compartment floors, shelves, and trays covered with a heavy duty Turtle Tile brand Black floor matting.

Rub Rail

The pump area module(s) and body shall have rub rails mounted along the sides and at the rear. **

The rub rail shall be C-channel in design and constructed of 3/16" thick 6463T6 anodized aluminum extrusion. The rub rail shall be 2.75" high x 1.25" deep and shall extend beyond the body width to protect compartment doors and the body side. The rub rail depth shall allow marker and/or warning lights to be recessed inside for protection.

The top surface of the rub rail shall have minimum of five (5) raised serrations. Each serration being a minimum of .1" in height and with cross grooves to provide a slip-resistant edge for the tailboard step and pump module running board areas. The rub rail shall be mounted a minimum of 3/16" off the pump module and body with nylon spacers. The ends of each section shall be provided with a finished rounded corner piece.

** 4x4 applications with 30 degree departure angle and flip down tailboard shall omit the rear body rub rails as noted above and shall have the trailing piece of the side rub rails behind rear axle attached in 2 pieces with the rearward piece mounted on an upward angle to match departure angle body. Rearward side marker light as located in rear rub rail shall be mounted angled in the rearward rail as added.

Anodize Aluminum Trim

A anodize aluminum trim shall be located at the bottom edge of all body compartment openings including pump enclosure with painted edge (as applicable). The trim shall provide added protection of the painted surface of the body when equipment is removed from the compartment.

Body Wheel Well

The body wheel well frame shall be constructed from 6063-T5 aluminum extrusion with a slot the full length to permit an internal fit of 1/8" (0.125") aluminum treadplate.

The fenderettes shall be bolt-on and shall be easily removable. The fenderette shall be constructed from .080" aluminum with a mirror finish. The fenerette shall be 2 1/2" (2.5") wide x 2 1/4" (2.25") tall with a 26 7/8" (26.875") radius. A "P" shaped rubber gasket shall be provided between the fenerette and wheel well body panel (as applicable).

The wheel well liners shall be constructed of a 3/16” (.187”) composite material. The liners shall be bolt-on and shall provide a maintenance-free and damage-resistant surface.

Corner Guard

Diamond plate corner guard for the rear compartment face forward of the side facing staircase(s) constructed of (.063”) aluminum treadplate. Guard shall wrap around corner.

Side Body Panels

The smooth body sides shall be Fiberglass Reinforced Panels (FRP). The panels shall be bonded and mechanically attached to the supporting extruded aluminum body structure. The panels shall be painted job color.

SCBA BOTTLE STORAGE

SCBA Storage

Eight (8) SCBA bottle storage compartments shall be provided. The compartments shall be 8” diameter by 25” deep and located four (4) each side in the body wheel well area.

Each SCBA bottle shall be held in place by a hinged cast aluminum door with a positive latch and shall include an inner door seal for increased protection against the elements.

The inner SCBA storage tube shall be made of high strength polyethylene to provide additional protection to the surface of the SCBA bottles.

SCBA Strap

Straps shall be provided in each exterior storage compartment to provide secondary means to hold each SCBA bottle in the compartment. The straps shall be constructed from 1" nylon webbing formed in a loop. The strap(s) shall be mounted to the storage compartment ceiling directly inside the door opening at each bottle location.

PUMPS

Pump Rating

The fire pump shall be rated at 1500 GPM.

Fire Pump System

The pump shall be a midship-mounted Hale QMAX single stage centrifugal pump. The pump shall be mounted on the chassis frame rails of commercial or custom truck chassis and have the capacity of 1,250 to 2,250 gallons per minute (U.S. GPM) NFPA 1901 rated performance, and shall be split-shaft driven from the truck transmission.

The entire pump body and related parts shall be of fine grain alloy cast iron, with a minimum tensile strength of 30,000 psi (207 MPa). All metal moving parts in contact with water shall be of high quality bronze or stainless steel. Pump body shall be horizontally split in two sections, for easy removal of impeller assembly including wear rings and bearings from beneath the pump without disturbing pump mounting or piping.

The pump impeller shall be hard, fine grain bronze of the mixed flow design and shall be individually ground and hand balanced. Impeller clearance rings shall be bronze, easily renewable without replacing impeller or pump volute body, and of wrap-around double labyrinth design for maximum efficiency.

The pump shaft shall be heat-treated, corrosion-resistant stainless steel and shall be rigidly supported by three (3) bearings for minimum deflection. The sleeve bearing is to be lubricated by a force fed, automatic oil lubricated design, pressure-balanced to exclude foreign material. The remaining bearings shall be heavy-duty, deep groove ball bearings in the gearbox and shall be splash-lubricated. Pump shaft must be sealed with double-lip oil seal to keep road dirt and water out of the gearbox.

Two (2) 6” diameter suction ports with 6” NST male threads and removable screens shall be provided, one each side. The ports shall be mounted one (1) on each side of the midship pump and shall extend through the side pump panels. Inlets shall come equipped with long handle chrome caps.

Gearbox – G Gearbox

Pump gearbox shall be of sufficient size to withstand up to 16,000 lbs. ft. of drive through torque of the engine system. The drive unit shall be designed of ample capacity for lubrication reserve and to maintain the proper operating temperature. The gearbox drive shafts shall be of heat-treated chrome nickel steel and at least 2-3/4 inches in diameter, on both the input and output drive shafts. They shall withstand the full torque of the engine. All gears, both drive and pump, shall be of highest quality electric furnace chrome nickel steel. Bores shall be ground to size and teeth integrated and hardened, to give an extremely accurate gear for long life, smooth, quiet running, and higher load carrying capability. An accurately cut spur design shall be provided to eliminate all possible end thrust. (No exceptions.) The pump ratio shall be selected by the apparatus manufacturer to give maximum performance with the engine and transmission selected. If the gearbox is equipped with a power shift, the shifting mechanism shall be a heat treated, hard anodized aluminum power cylinder, with stainless steel shaft. An in-cab control for rapid shift shall be provided that locks in road or pump. For automatic transmissions, three green warning lights shall be provided to indicate to the operator(s) when the pump has completed the

shift from Road to Pump position. Two green lights to be located in the truck driving compartment and one green light on pump operators panel adjacent to the throttle control. For manual transmissions, one green warning light will be provided for the driving compartment. All lights to have appropriate identification/instruction plates.

Discharge Manifold

The pump system shall utilize a stainless steel discharge manifold system that allows a direct flow of water to discharge valves. The manifold and fabricated piping systems shall be constructed of a minimum of Schedule 10 stainless steel to reduce corrosion.

Pump Shift

The pump shift shall be pneumatically-controlled using a power shifting cylinder.

The power shift control shall be mounted in the cab and be labeled ”PUMP SHIFT”.

A green indicator light shall be located in the cab and be labeled ”PUMP ENGAGED”. The light shall not activate until the pump shift has completed its full travel into pump engagement position.

A second green indicator light shall be located in the cab and be labeled ”OK TO PUMP”. This light shall be energized when both the pump shift has been completed and the chassis automatic transmission has obtained converter lock-up (4th gear lock-up).

Test Ports

Two (2) test plugs shall be pump panel mounted for third party testing of vacuum and pressures of the pump.

Gearbox Cooler

A gearbox cooler shall be provided to maintain safe operating temperatures during prolonged pumping operations for pump rating 1500 GPM and over.

PUMP CERTIFICATION

Pump Certification

The pump, when dry, shall be capable of taking suction and discharging water in accordance with with the edition of NFPA documented elsewhere in these specifications. The pump shall be tested at the manufacturer`s facility by an independent, third-party testing service. The conditions of the pump test shall be as outlined in NFPA.

The tests shall include, at a minimum, a piping hydrostatic test, pump test, pumping engine overload test, pressure control system test, priming device tests, vacuum test, and the water tank to pump flow test as outlined in NFPA.

The pump shall deliver the percentage of rated capacities at pressures indicated below:

- 100% of rated capacity at 150 psi net pump pressure
- 100% of rated capacity at 165 psi net pump pressure
- 70% of rated capacity at 200 psi net pump pressure
- 50% of rated capacity at 250 psi net pump pressure

A test plate, installed at the pump panel, shall provide the rated discharges and pressures together with the speed of the engine as determined by the certification test, and the no-load governed speed of the engine.

A Certificate of Inspection certifying performance of the pump and all related components shall be provided at time of delivery. Additional certification documents shall include, but not limited to, Certificate of Hydrostatic Test, Electrical System Performance Test, Manufacturer`s Record of Pumper Construction, and Certificate of Pump Performance from the pump manufacturer.

PUMP OPTIONS

Steamers, Flush+1

The pump 6" steamer intake(s) shall be mounted approximately 1” from the pump panel to back of cap when installed. The "Flush+1" dimension can vary + or - 1-1/4" or as practicable depending on the pump module width and options selected. (Example 72" or 76" modules.)

Location: driver's side, officer's side.

Engine Throttle

Fire Research ThrottleXcel engine throttle and monitoring display shall be installed at the pump operator`s panel. The case shall be waterproof and have dimensions not to exceed 6-3/4” high by 4-5/8” wide by 1-3/4” deep. The engine throttle control knob shall be 2” in diameter with a serrated grip, with a red idle push button in the center, and no mechanical stops. Inputs for engine information shall be from a J1939 databus, other inputs shall be 12 volts DC or from independent sensors.

The engine RPM shall be set to idle when the pump engaged interlock signal is recognized regardless of the throttle control knob position. Optical technology shall be used to detect the direction and speed that the control knob rotated for RPM control.

The following continuous displays shall be provided:

• Engine RPM; shown with four daylight bright LED digits more than 1/2” high, updated in 10 RPM increments
• Engine oil pressure; shown on an LED bar graph display in 10 psi increments
• Engine coolant temperature; shown on an LED bar graph display in 10 degree increments
• Battery voltage; shown on an LED bar graph display in 0.5 volt increments
• Time and date; shown on a dot matrix message display
• Interlock; OK TO PUMP LED is green to indicate throttle ready

A dot-matrix message display shall show diagnostic and warning messages as they occur. It shall show monitored apparatus information, stored data, and program options when selected by the operator. Operator selections and inputs shall be via push buttons on the front panel.

The program shall store the accumulated operating hours for the pump and engine, previous incident hours, and current incident hours in a non-volatile memory. Stored elapsed hours shall be displayed at the push of a button. The program shall have calibration and self-diagnostic capabilities. It shall monitor inputs and support audible and visual warning alarms for the following conditions:

• Low Oil Pressure
• High Engine Coolant Temperature
• High Transmission Temperature
• Low Battery Voltage (Engine Off)
• Low Battery Voltage (Engine Running)
• High Battery Voltage
• High Engine RPM

The engine throttle and monitoring display shall be programmed at installation for a specific engine.

Throttle Selection Switch

A throttle selection switch shall be provided and mounted on the pump operator`s panel. The switch shall be provided to allow the operator to toggle between the pump/throttle relief system and the pressure governor.

The throttle selection switch and pump discharge relief valve controller shall be provided as a back-up to the pressure governor.

Inlet Valve

A Hale Master Intake Valve (MIV-E) shall be provided for the specified intake. The large diameter inlet valve shall be capable of achieving an NFPA test rating of 1500 GPM through a single 6” suction hose.

The inlet valve shall be operated by a 12 VDC electric motor with a remote switch provided at the pump operator`s position. The 12 VDC motor shall be provided with an automatic resetting,

thermally-compensated over-current protection circuit breaker to protect the 12 VDC motor and apparatus electrical system. The gear actuator on the valve will cycle from full closed to full open in not less than three (3) seconds. A hand controlled pump panel mounted manual override (knob style) shall be provided.

An indicator light panel shall be located at the pump operator`s position to show valve open, closed, or traversing from open to closed.

A built-in adjustable pressure relief valve shall be provided. The pressure relief valve shall be factory set to 125 psi. The pressure relief valve shall provide overpressure protection for the suction hose even when the intake valve is closed.

A 3/4" air bleeder valve shall be provided and controlled at the pump operator`s position.

A 1/4" water bleeder shall be supplied and controlled at the pump operator`s position.

Location: driver side pump panel, officer side pump panel.

Mechanical Pump Seal

The midship pump shall be equipped with a high quality, spring loaded, self-adjusting mechanical seal capable of providing a positive seal to atmosphere under all pumping conditions. This positive seal to atmosphere must be achievable under vacuum conditions up to 26 Hg (draft) or positive suction pressures up to 250 psi.

The mechanical seal assembly shall be 2 inches in diameter and consist of a carbon sealing ring, stainless steel coil spring, Viton rubber boot, and a tungsten carbide seat, with a Teflon back-up seal provided.

Only one mechanical seal shall be required, located on the first stage suction (inboard) side of the pump and be designed to be compatible with a one piece pump shaft (no exceptions). A continuous cooling flow of water from the pump shall be directed through the seal chamber when the pump is in operation.

Manual Master Drain

A manual master drain valve shall be installed and operated from the driver side. The master pump drain assembly shall consist of a Class 1 bronze master drain with a rubber disc seal.

The manual master drain valve shall have twelve (12) individually-sealed ports that allow quick and simultaneous draining of multiple intake and discharge lines. It shall be constructed of corrosion-resistant material and be capable of operating at a pressure of up to 600 PSI.

The master drain shall provide independent ports for low point drainage of the fire pump and auxiliary devices.

Hale Pressure Relief Valve

A Hale pressure relief valve shall be provided and mounted on the pump operator`s panel. The pump shall be equipped with an automatic pressure control device. A single bronze variable pressure setting relief valve shall be provided and be of ample capacity to prevent an undue pressure rise as outlined in NFPA 1901. The relief valve shall be normally closed and shall open against pump pressure. A relief valve control wheel with a control light to signal when open shall be mounted on the pump operator`s panel.

Pump Cooler

The pump shall have a 3/8” line installed from the pump discharge to the booster tank to allow a small amount of water to circulate through the pump casing in order to cool the pump during sustained periods of pump operation when water is not being discharged. The pump cooler line shall be controlled from the pump operator`s panel by a Innovative Controls 1/4 turn valve with "T" handle. Each 1/4 turn handle grip shall feature built-in color-coding labels and a verbiage tag

Priming System

An electrically-driven Hale ESP priming pump shall be provided for the water pump. The primer shall be positive displacement rotary vane type that requires no lubricant. The primer motor shall be heat-treated, anodized aluminum specially coated for wear and corrosion resistance.

One (1) priming control, located at the pump operator`s position, shall open the priming valve and start the priming motor. The priming valve shall be electronically interlocked to the ”Park Brake” circuit to allow priming of the pump before the pump is placed in gear.

Pump Shift - Electric

The pump shift shall be accomplished by two (2) push-button switches. One push button shall be for shifting into pump mode and the other shall be for shifting the pump transmission back to road mode. The switches shall include LED lighting to indicate the active mode.

An additional indicator light shall be located in the cab visible to the driver and be labeled "PUMP ENGAGED". The light shall not activate until the pump shift has completed into pump engagement position.

A second indicator light shall be located in the cab visible to the driver and be labeled "OK TO PUMP".

INTAKES

Left Intake 2.5 Akron Valve

One (1) 2-1/2” suction inlet with a manually operated 2-1/2” Akron valve shall be provided on the left side pump panel.

The valve shall be an Akron 8800HD series with a 316 stainless steel ball and dual polymer seats for ease of operation and increased abrasion resistance. The valve shall have a self-locking ball feature using an automatic friction lock design to balance the stainless steel ball when in a throttle position and water is flowing through it.

The valve shall be of the unique Akron swing-out design to allow the valve body to be removed for servicing without disassembling the plumbing.

The outlet of the valve shall be connected to the suction side of the pump with the valve body located behind the pump panel. The valve shall come equipped with a brass inlet strainer, 2-1/2” NST female chrome inlet swivel, and shall be equipped with a chrome plated rockerlug plug with a retainer device.

The valve control shall be located at the pump operator`s panel and shall visually indicate the position of the valve at all times.

All fabricated piping shall be a minimum of Schedule 10 stainless steel for superior corrosion resistance, and decreased friction loss.

A 3/4” bleeder valve assembly will be installed on the left side pump panel.

Right Intake 2.5 Akron Valve

One (1) 2-1/2” gated suction inlet with a manual operated Akron valve shall be installed in the right side pump panel with the valve body behind the panel. The valve control shall be located at the intake and shall visually indicate the position of the valve at all times.

The valve shall be an Akron 8800HD series with a 316 stainless steel ball and dual polymer seats for ease of operation and increased abrasion resistance. The valve shall have a self-locking ball feature using an automatic friction lock design to balance the stainless steel ball when in a throttle position and water is flowing through it.

The valve shall be of the unique Akron swing-out design to allow the valve body to be removed for servicing without disassembling the plumbing.

The outlet of the valve shall be connected to the suction side of the pump with the valve body located behind the pump panel. The valve shall come equipped with a brass inlet strainer, 2-1/2” NST female chrome inlet swivel and shall be equipped with a chrome plated rockerlug plug with a retainer device.

All fabricated piping shall be a minimum of Schedule 10 stainless steel for superior corrosion resistance, and decreased friction loss.

A 3/4” bleeder valve assembly will be installed on the right side pump panel.

DISCHARGES AND PRECONNECTS

Front Jump Line 1.5 Akron Valve

One (1) 1-1/2” preconnect outlet with a manually operated Akron valve shall be supplied to the extended front bumper. The preconnect shall consist of a 2” heavy duty hose coming from the pump discharge manifold to a 2” FNPT x 1-1/2” MNST mechanical swivel hose connection to permit the use of the hose from either side of the apparatus.

The valve shall be an Akron 8800HD series with a 316 stainless steel ball and dual polymer seats for ease of operation and increased abrasion resistance. The valve shall have a self-locking ball feature using an automatic friction lock design to balance the stainless steel ball when in a throttle position with water flowing through it.

The valve shall be of the unique Akron swing-out design to allow the valve body to be removed for servicing without disassembling the plumbing.

An air blow-out valve shall be installed between the chassis air reservoir and the front jump line. The control shall be installed on the pump operator`s panel.

The discharge shall be supplied with a Class 1 automatic 3/4” drain valve assembly. The automatic drain shall have an all-brass body with stainless steel check assembly. The drain shall normally be open and automatically close when the pressure is greater than 6 psi.

The valve control shall be located at the pump operator panel and shall visually indicate the position of the valve at all times.

All fabricated piping shall be a minimum of Schedule 10 stainless steel for superior corrosion resistance and decreased friction loss.

Waterway 4 Discharge with 3 Akron Valve

One (1) 4” discharge outlet with a 3” manually operated Akron valve shall be connected from the pump discharge to the aerial waterway.

The valve shall be an Akron 8800HD series with a 316 stainless steel ball and dual polymer seats for ease of operation and increased abrasion resistance. The valve shall have a self-locking ball feature using an automatic friction lock design to balance the stainless steel ball when in a throttle position with water flowing through it.

The valve shall be of the unique Akron swing-out design to allow the valve body to be removed for servicing without disassembling the plumbing.

The valve control shall be located at the pump operator`s panel and shall visually indicate the position of the valve at all times.

The valve shall be equipped with a device that limits the opening and closing speeds to comply with the current edition of NFPA 1901.

All fabricated piping shall be a minimum of Schedule 10 stainless steel for superior corrosion resistance and decreased friction loss.

Front Bumper Discharge Swivel, Brass In Tray

There shall be a brass swivel provided for the front bumper discharge located in hose tray officer side front bumper on lower back wall.

1.5 Single Crosslay Akron Valve [Qty: 2]

One (1) single crosslay discharge shall be provided at the front area of the body. The crosslay shall include one (1) 2” brass swivel with a 1-1/2” hose connection to permit the use of hose from either side of the apparatus.

The crosslay hose bed shall consist of a 2” heavy-duty hose coming from the pump discharge manifold to the 2” swivel. The hose shall be connected to a manually operated 2” Akron valve. The valve shall be an Akron 8800HD series with a 316 stainless steel ball and dual polymer seats for ease of operation and increased abrasion resistance. The valve shall have a self-locking ball feature using an automatic friction lock design to balance the stainless steel ball when in a throttle position with water flowing through it.

The valve shall be of the unique Akron swing-out design to allow the valve body to be removed for servicing without disassembling the plumbing.

The valve control shall be located at the pump operator`s panel and shall visually indicate the position of the valve at all times.

All fabricated piping shall be a minimum of Schedule 10 stainless steel for superior corrosion resistance and decreased friction loss.

Location: crosslay 1 & 2.

Left Panel 2.5 Discharge Akron Valve

One (1) 2-1/2” discharge outlet with a manually operated Akron valve shall be provided at the left hand side pump panel.

The valve shall be an Akron 8800HD series with a 316 stainless steel ball and dual polymer seats for ease of operation and increased abrasion resistance. The valve shall have a self-locking ball feature using an automatic friction lock design to balance the stainless steel ball when in a throttle position with water flowing through it.

The valve shall be of the unique Akron swing-out design to allow the valve body to be removed for servicing without disassembling the plumbing.

The valve control shall be located at the pump operator panel and shall visually indicate the position of the valve at all times.

All fabricated piping shall be a minimum of Schedule 10 stainless steel for superior corrosion resistance and decreased friction loss.

Location: left side discharge 1, left side discharge 2.

Right Panel 2.5 Discharge Akron Valve

One (1) 2-1/2” discharge outlet with a manually operated Akron valve shall be provided at the right side pump panel.

The valve shall be an Akron 8800HD series with a 316 stainless steel ball and dual polymer seats for ease of operation and increased abrasion resistance. The valve shall have a self-locking ball feature using an automatic friction lock design to balance the stainless steel ball when in a throttle position with water flowing through it.

The valve shall be of the unique Akron swing-out design to allow the valve body to be removed for servicing without disassembling the plumbing.

The valve control shall be located at the pump operator panel and shall visually indicate the position of the valve at all times.

All fabricated piping shall be a minimum of Schedule 10 stainless steel for superior corrosion resistance and decreased friction loss.

Location: right side discharge 2.

Right Panel 4 Discharge with 3 Akron Valve

One (1) 4” discharge outlet with a 3” manually operated Akron valve shall be provided at the right side pump panel. The discharge shall consist of a 3” valve terminating with a 4” MNST adapter. The end of the discharge adapter shall be equipped with a chrome plated rockerlug cap with a retainer.

The valve shall be an Akron 8800HD series with a 316 stainless steel ball and dual polymer seats for ease of operation and increased abrasion resistance. The valve shall have a self-locking ball

feature using an automatic friction lock design to balance the stainless steel ball when in a throttle position with water flowing through it.

The valve shall be of the unique Akron swing-out design to allow the valve body to be removed for servicing without disassembling the plumbing.

The valve control shall be located at the pump operator panel and shall visually indicate the position of the valve at all times.

The valve shall be equipped with a device that limits the opening and closing speeds to comply with the current edition of NFPA 1901.

All fabricated piping shall be a minimum of Schedule 10 stainless steel for superior corrosion resistance and decreased friction loss.

Location: right side discharge 1.

DISCHARGE OPTIONS

IC Push/Pull Control

The apparatus pump panel shall be equipped with Innovative Controls Side Mount Valve Controls. The ergonomically designed ¼ turn push-pull T-handle shall be chrome-plated zinc with recessed labels for color-coding and verbiage. An anodized aluminum control rod and housing shall, together with a stainless spring steel locking mechanism, eliminate valve drift. Teflon impregnated bronze bushings in both ends of the rod housing shall minimize rod deflection, never need lubrication, and ensure consistent long-term operation. The control assembly shall include a decorative chrome-plated zinc panel-mounting bezel with areas for color-coding and/or FOAM and CAFS identification labels.

Bleeder Drain Valve [Qty: 8]

The bleeder/drain valves shall be Innovative Controls ¾" ball brass drain valves with a chrome-plated 1/4 turn handle. Each 1/4 turn handle grip shall feature built-in color-coding labels and a verbiage tag identifying each valve.

Discharge/Intake Bezel

Innovative Controls intake and/or discharge swing handle bezels shall be installed to the apparatus with mounting bolts. These bezel assemblies will be used to identify intake and/or discharge ports with color and verbiage. These bezels are designed and manufactured to withstand the specified apparatus service environment and shall be backed by a warranty equal to that of the exterior paint and finish. The specified assemblies feature a chrome-plated panel-mount bezel with durable UV resistant polycarbonate inserts. These UV resistant polycarbonate graphic inserts shall be sub-surface screen printed to eliminate the possibility of wear and protect

the inks from fading. All insert labels shall be backed with 3M permanent adhesive (200MP), which meets UL969 and NFPA standards.

PRESSURE GOVERNORS

FRC PumpBoss Pressure Governor

Fire Research PumpBoss Max series PBA500 pressure governor and control module kit shall be installed. The kit shall include a control module, intake pressure sensor, discharge pressure sensor, and cables. The control module housing shall be waterproof and have dimensions not to exceed 7 1/2" high by 3 5/8" wide. The control knob shall be 2" in diameter with no mechanical stops, have a serrated grip, and a red idle push button in the center. It shall not extend more than 2" from the front of the control module. The control LCD shall be 3.5” in size with a minimum brightness of 1000 nits and optically bonded to 3 mm Borofloat Glass. Inputs for monitored engine information shall be from a J1939 data bus or independent sensors. Outputs for engine control shall be on the J1939 data bus or engine specific signal wiring. Inputs from the pump discharge and intake pressure sensors shall be electrical.

The following continuous displays shall be provided:

- Engine RPM; shown on LCD screen
- Check engine and stop engine warning; shown on LCD screen
- Engine oil pressure; shown on LCD screen
- Engine coolant temperature; shown on LCD screen
- Transmission Temperature; shown on LCD screen
- Battery voltage; shown on LCD screen
- Pressure and RPM operating mode LEDs
- Pressure / RPM setting; shown on LCD screen
- Throttle ready / Ok to Pump LEDs.

On screen (LCD) message display shall show diagnostic and warning messages as they occur. It shall show monitored apparatus information, stored data, and program options when selected by the operator. LCD Screen and LED’s intensity shall be automatically adjusted for day and nighttime operation.

The program shall store the accumulated operating hours for the pump and engine to be displayed with the push of a button. It shall monitor inputs and support audible and visual warning alarms for the following conditions:

- High Battery Voltage
- Low Battery Voltage (Engine Off)
- Low Battery Voltage (Engine Running)
- High Transmission Temperature
- Low Engine Oil Pressure
- High Engine Coolant Temperature
- Out of Water (visual alarm only)

- No Engine Response (visual alarm only).

The program features shall be accessed via push buttons located on the front of the control module. There shall be a USB port located at the rear of the control module to upload future firmware enhancements.

The pressure governor shall operate in two control modes, pressure and RPM. No discharge pressure or engine RPM variation shall occur when switching between modes. A throttle ready and Ok to Pump LED shall light when the interlock signal is recognized. The pressure governor shall start in pressure mode and set the engine RPM to idle. In pressure mode the pressure governor shall automatically regulate the discharge pressure at the level set by the operator. In RPM mode the governor shall maintain the engine RPM at the level set by the operator except in the event of a discharge pressure increase. The pressure governor shall limit a discharge pressure increase in RPM mode to a maximum of 30 psi. Other safety features shall include recognition of low water and no water conditions with an automatic programmed response and a push button to return the engine to idle.

GAUGES

GAUGE IC 10 LED WATER TANK LEVEL

One (1) Innovative Controls brand water tank level gauge shall be located at the pump operator`s panel to provide a high-visibility display of the water tank level. Ten (10) high-intensity light emitting diodes (LED`s) on the display module shall have a 3-dimensional lens allowing the full, 3/4, 1/2, 1/4, and refill levels to be easily distinguished at a glance within full 180 degree visibility.

The display module shall be protected from vibration and contamination with the components being encased in an encapsulated plastic housing. The long life and extreme durability of LED indicators eliminates light bulb replacement and maintenance. Color coded cover plates shall complete the assembly of the display module to the pump panel. Each display level can be set independently for maximum reliability.

The display shall provide a steady indication of fluid level despite sloshing inside of the tank when the vehicle is in motion due to an ”anti-slosh” feature.

Pressure Gauge [Qty: 8]

Innovative Controls TC Series 2.5" (63MM) pressure gauge(s) shall be provided. Each gauge shall have a glass-filled nylon case, a clear scratch-resistant lens, and a highly-polished stainless steel bezel.

The gauges shall be installed into decorative chrome-plated mounting bezels that incorporate valve-identifying verbiage and/or color labels.

The gauge shall be fully-filled with a synthetic mixture to dampen shock and vibration, lubricate the internal mechanisms, prevent lens condensation and ensure proper operation from –40°F to +160°F.

Each gauge shall exceed (NFPA 1901 16.12.3.7) ASME B40.100 Grade B requirements (3% 2% 3%) with an accuracy of +/- 1.5% full scale and include an internal thermal expansion bladder that allows the gauge fill to expand in high temperature environments.

The gauges shall also include a KEM-X Socket Saver diaphragm in the stem to eliminate freeze-up and contain a low temperature instrument oil that fills and protects the socket and bourdon tube.

The gauges shall display a range specified with enhanced black markings on a white dial.

Pressure Gauge

Innovative Controls TC Series 4" (100MM) Master pressure gauges with dual bezel shall be provided. Includes test ports and alarm.

Each gauge shall have a glass-filled nylon case, a clear scratch-resistant lens, and a highly-polished stainless steel bezel.

The gauges shall be installed into decorative chrome-plated mounting bezels that incorporate valve-identifying verbiage and/or color labels.

The gauge shall be fully-filled with a synthetic mixture to dampen shock and vibration, lubricate the internal mechanisms, prevent lens condensation and ensure proper operation from –40°F to +160°F.

Each gauge shall exceed (NFPA 1901 16.12.3.7) ASME B40.100 Grade B requirements (3% 2% 3%) with an accuracy of +/- 1.5% full scale and include an internal thermal expansion bladder that allows the gauge fill to expand in high temperature environments.

The gauges shall also include a KEM-X Socket Saver diaphragm in the stem to eliminate freeze-up and contain a low temperature instrument oil that fills and protects the socket and bourdon tube.

The gauges shall display a range specified with enhanced black markings on a white dial.

Pressure Gauge

Pump panel pressure gauges shall be 0-400 / Master Intake gauge, if applicable, shall be 30-0-400.

ELECTRICAL SYSTEMS

Vehicle Data Recorder

A vehicle data recorder system shall be provided to comply with the 2009 and 2016 editions of NFPA 1901 and 2024 edition of NFPA 1900 (Annex A). The following data shall be monitored:

- Vehicle speed MPH
- Acceleration (from speedometer) MPH/Sec.
- Deceleration (from speedometer) MPH/Sec.
- Engine speed RPM
- Engine throttle position % of full throttle
- ABS Event On/Off
- Seat occupied status Occupied Yes/No by position
- Seat belt status Buckled Yes/No by position
- Master Optical Warning Device Switch On/Off
- Time: 24 hour time
- Date: Year/Month/Day

Occupant Detection System

There shall be a visual and audible warning system installed in the cab that indicates the occupant buckle status of all cab seating positions that are designed to be occupied during vehicle movement.

The audible warning shall activate when the vehicle's park brake is released and a seat position is not in a valid state. A valid state is defined as a seat that is unoccupied and the seat belt is unbuckled, or one that has the seat belt buckled after the seat has been occupied.

The visual warning shall consist of a graphical representation of each cab seat in the multiplex display screen that will continuously indicate the validity of each seat position.

The system shall include a seat sensor and safety belt latch switch for each cab seating position, audible alarm and braided wiring harness.

Electrical Connection Protection

The vehicle electrical system shall be made more robust by the application of a corrosion inhibiting spray coating on all exposed electrical connections on the chassis and body. If equipped with an aerial device, the exposed connections on the aerial components shall also be protected.

The coating shall use nanotechnology to penetrate at the molecular level into uneven surfaces to create a protective water repellant film. The coating shall protect electrical connections against the environmental conditions apparatus are commonly exposed to.

HVAC Controls

The air conditioning and heating systems of the apparatus chassis cab shall be controlled through the multiplex electrical system`s color display(s). The system shall have the capability to provide automatic climate control.

Multiplex Electrical System

Electrical System

The apparatus body shall incorporate a SafeLink Multiplex electrical system. The system shall use active/standby architecture and communicate via J1939 CAN bus. The electrical system installed by the apparatus manufacturer shall conform to current SAE standards, the latest FMVSS standards, and the requirements of the applicable NFPA standards.

The electrical circuits shall be provided with low voltage over-current protective devices. Such devices shall be accessible and located in required terminal connection locations or weather-resistant enclosures. The over-current protection shall be suitable for electrical equipment and shall be automatic reset type and meet SAE standards. All electrical equipment, switches, relays, terminals, and connectors shall have a direct current rating of 125 percent of maximum current for which the circuit is protected. The system shall have electro-magnetic interference suppression provided as required in applicable SAE standards.

Any electrical junction or terminal boxes shall be weather-resistant and located away from water spray conditions.

Multiplex System

For superior system integrity, the networked multiplex system shall meet the following minimum component requirements:

- The network system shall use the J1939 protocol.
- Modules shall be IP67 rated to handle the extreme operating environment found in the fire service industry.
- All modules shall be solid state circuitry utilizing MOS-FET technology and utilize Deutsch series input/output connectors.
- Load shedding power management (8 levels).
- Switch input capability for chassis functions.
- Responsible for lighting device activation.
- Self-contained diagnostic indicators.
- Wire harness as need to interface electrical devices with multiplex modules.
- The grounds from each device should return to the main ground trunk in each sub harness by the use of ultrasonic splices.

Wiring

All harnessing, wiring and connectors shall be manufactured to the following standards/guidelines. No exceptions.

- NFPA (Specific edition documented elsewhere in these specifications)
- SAE J1127 and J1127
- IPC/WHMA-A-620 – Requirements and Acceptance for Cable and Wire Harness Assemblies. (Class 3 – High Performance Electronic Products)

All wiring shall be copper or copper alloys of a gauge rated to carry 125 of the maximum current for which the circuit is protected. Insulated wire and cable 8 gauge and smaller shall be SXL, GXL, or TXL per SAE J1128. Conductors 6 gauge and larger shall be SXL or SGT per SAE J1127.

All wiring shall be colored coded and imprinted with the circuits function. Minimum height of imprinted characters shall not be less than .082" plus or minus .01". The imprinted characters shall repeat at a distance not greater than 3".
A coil of wire shall be provided behind electrical appliances to allow them to be pulled away from mounting area for inspection and service work.

Wiring Protection

The overall covering of the conductors shall be loom or braid.

Braid style wiring covers shall be constructed using a woven PVC-coated nylon multifilament braiding yarn. The yarn shall have a diameter of no less than .04" and a tensile strength of 22 lbs. The yarn shall have a service temperature rating of -65 F to 194 F. The braid shall consist of 24 strands of yarn with 21 black and 3 yellow. The yellow shall be oriented the same and be next to each other.

Wiring loom shall be flame retardant black nylon. The loom shall have a service temperature of -40 F to 300 F and be secured to the wire bundle with adhesive-backed vinyl tape.

Wiring Connectors

All connectors shall be Deutsch series unless a different series of connector is needed to mate to a supplier's component. The connectors and terminals shall be assembled per the connector/terminal manufacturer's specification. Crimble/Solderless terminals shall be acceptable. Heat shrink style shall be utilized unless used within the confines of the cab.

Fast Idle System

A fast idle system shall be provided and controlled by a switch accessible by the driver. The system shall increase engine idle speed to a preset RPM for increased alternator output.

NFPA Required Testing of Electrical System

The apparatus shall be electrical tested upon completion of the vehicle and prior to delivery. The electrical testing, certifications, and test results shall be submitted with delivery documentation

per requirements of NFPA. The following minimum testing shall be completed by the apparatus manufacturer:

1. Reserve capacity test:

The engine shall be started and kept running until the engine and engine compartment temperatures are stabilized at normal operating temperatures and the battery system is fully charged. The engine shall be shut off and the minimum continuous electrical load shall be activated for ten (10) minutes. All electrical loads shall be turned off prior to attempting to restart the engine. The battery system shall then be capable of restarting the engine. Failure to restart the engine shall be considered a test fail.

2. Alternator performance test at idle:

The minimum continuous electrical load shall be activated with the engine running at idle speed. The engine temperature shall be stabilized at normal operating temperature. The battery system shall be tested to detect the presence of battery discharge current. The detection of battery discharge current shall be considered a test failure.

3. Alternator performance test at full load:

The total continuous electrical load shall be activated with the engine running up to the engine manufacturer`s governed speed. The test duration shall be a minimum of two (2) hours. Activation of the load management system shall be permitted during this test. However, an alarm sounded by excessive battery discharge, as detected by the system required in the NFPA Standard, or a system voltage of less than 11.7 volts DC for a 12-volt nominal system, for more than 120 seconds, shall be considered a test failure.

4. Low voltage alarm test:

Following the completion of the above tests, the engine shall be shut off. The total continuous electrical load shall be activated and shall continue to be applied until the excessive battery discharge alarm activates. The battery voltage shall be measured at the battery terminals. With the load still applied, a reading of less than 11.7 volts DC for a 12-volt nominal system shall be considered a test failure. The battery system shall then be able to restart the engine. Failure to restart the engine shall be considered a test failure.

NFPA Required Documentation

The following documentation shall be provided on delivery of the apparatus:

A. Documentation of the electrical system performance tests required above.

B. A written load analysis, including:

a. The nameplate rating of the alternator.
b. The alternator rating under the conditions.
c. Each specified component load.
d. Individual intermittent loads.

Multiplex Display

The multiplex electrical system shall include a 10" color display.

The display shall have the following features:

- Bonded transmissive TFT LCD screen
- Diagonal measurement of no less than 10”
- J1939 Communications protocol capable
- IP67 sealed front and rear
- Three (3) video inputs for optional back-up camera(s)
- Twelve (12) multi-function programmable tactal buttons
- Home button
- Menu button

Display screens shall be configured to include the following:

- Warning light switching
- Work and scene light switching
- Indicators for park brake, PTOs and aerial jacks down (if applicable)
- Occupant detection indication
- Specific door ajar indication
- Clock
- Access to the multiplex system diagnostics

The display shall be located driver's side engine cover.

LIGHT BARS

Front Light Bar Color(s)

The front light bar shall be provided with the following color LED modules: RED with CLEAR lenses

If applicable, includes side facing light bars when colors are the same.

Light Bar Mounts

Whelen model MK9S short slide bolt brackets for flat surface mounting shall be provided on the front mini light bars.

Light Bars

A pair of Whelen Mini Freedom IV Series 21.5" LED light bars shall be provided.

Each light bar shall contain two (2) corner LED modules forward facing, two (2) forward facing Long LED modules and one (1) outward facing Short LED module. No rear facing LEDs.

The white LEDs (if equipped) shall be switched off in blocking right of way mode.

The light bars shall be installed in the following location: front cab corners.

WARNING LIGHTS

Hazard (Door Ajar) Light

There shall be a 2” red LED hazard light installed as specified.

The light shall be located center overhead.

Upper Rear Warning Lights

Two (2) Whelen model ROTA-BEAM Super LED beacons with RED with CLEAR lenses, RED with CLEAR lenses domes shall be supplied.

The lights shall be located rear upper body on aerial style brackets, each side to rear of L2/R2 on aerial style brackets, top of light even with top of body to meet Zone C upper requirements.

Warning Lights

Two (2) Whelen model M2W Wide Angle Super LED shall be provided.

The rectangular lights shall include chrome flanges (as applicable). The lights shall be wired with weatherproof connectors.

Specifications include:

- Surface mounted
- Patented Linear LED reflector assembly
- Sealed assembly
- Mounting gasket
- Multiple Scan-Lock flash patterns available

- Chrome mounting flange

Location: (1) each side NFPA/ULC required lower zone rear side facing, color will be RED with RED lenses.

LED Traffic Clearing Light

One (1) Mars 888 LED (Model TB8-L1P/C) traffic clearing light with clear lens and chrome plated housing shall be installed. The light shall be mounted on a polished .125" aluminum bracket located on the front of the cab centered below windshield. The light shall be controlled from the warning light switch panel.

Warning Lights

Two (2) Whelen M6 series Linear Super LED RED with RED lenses, RED with RED lenses, RED with RED lenses, RED with RED lenses, RED with CLEAR lenses shall be provided. The rectangular lights shall include chrome flanges where applicable.

Location: (1) each side NFPA/ULC required lower zone front facing, (1) each side NFPA/ULC required lower zone forward side facing, (1) each side NFPA/ULC required lower zone midship side facing, (1) each side NFPA/ULC required lower zone rear facing, (1) each side in front quad inboard of NFPA warning light.

DIRECTIONAL LIGHT BARS

Directional Light Bar Control Location

The directional light bar control head shall be located in the center overhead.

Directional Traffic Warning Light

One (1) Whelen model TAM83S2 LED split Traffic Advisor™ with clear lenses shall be provided. Each light bar shall include four (4) amber TIR3™ Super-LED® lamps.

The directional bar shall include a TACTLD1 control head. The control head shall include a remote flash control and end lamp enable/disable feature.

The light shall be installed at rear of body to direct traffic around the apparatus.

(2) light bars with dimensions of 2.5" high x 1.75" wide x 14" long.

SIRENS

Electronic Siren

A Federal PA300 siren model 690010 solid state electronic siren with attached noise-canceling microphone shall be installed. The unit shall be capable of driving a single high power speaker up to 200 watts to achieve a sound output level that meets Class ”A” requirements.

Operating modes shall include Hi-Lo, yelp, wail, P.A., air horn and radio re-broadcast.

The siren shall be recessed mounted in the cab.

Electronic Siren Control Location

The electronic siren control shall be located in the center overhead console offset to driver side.

Mechanical Siren

A chrome plated and pedestal mounted Federal Q2B-P coaster siren shall be installed on top of the front bumper extension. An electric siren brake switch shall be located in the cab accessible to the driver.

The siren shall be located driver side front bumper.

SPEAKERS

Siren Speaker

One (1) Federal Signal model ES100 Dynamax 100 watt speaker shall be flush mounted as far forward and as low as possible on the front of the vehicle. A polished model MSFMT with ”E-ONE” grille shall be provided on the outside of the speaker to prevent road debris from entering the speaker.

Speaker dimensions shall be: 5.5 in. high x 5.9 in. wide x 2.5 in. deep. Weight = 5.5 lbs.

The speaker shall produce a minimum sound output of 120 dB at 10 feet to meet current NFPA 1901 requirements.

The speaker shall be located driver side front bumper inboard of frame, officer side front bumper inboard of frame.

DOT LIGHTING

License Plate Light

One (1) Truck-Lite model 15205 white LED license plate light mounted in a Truck-Lite model 15732 chrome plated plastic license plate housing shall be mounted at the rear of the body.

Tail Lights

Three (3) Whelen model M6 series LED (Light Emitting Diode) lights shall be installed in a four (4) light vertical housing each side at rear and wired with weatherproof connectors.

Light functions shall be as follows:

• One (1) model M62BTT LED red running light with red brake light in upper position.
• One (1) model M62T LED amber turn signal in middle position.
• One (1) model M62BU LED clear back-up light in lower position.

A one-piece cast housing shall be mounted around the three (3) individual lights in a vertical position. The lower space will be used by the M6 or equivalent lower NFPA warning light.

LED Marker Lights

LED clearance/marker lights shall be installed on the apparatus. Body marker lights shall be 3/4" diameter grommet mounted LED.

Upper Cab:
• Five (5) amber LED clearance lights on the cab roof.

Lower Cab:
• One (1) amber LED side turn/marker each side of cab ahead of the front door hinge.

Upper Body:
• One (1) red LED clearance light each side, rear of body to the side.

Lower Body:
• Three (3) red LED clearance lights centered at rear, recessed in the rubrail.
• One (1) red LED clearance light each side at the trailing edge of the apparatus body, recessed in the rubrail.
• One (1) amber LED clearance light each side front of body just in front of rear wheels, recessed in the rubrail.
• Two (2) amber LED (one (1) clearance; one (1) auxiliary turn) lights each side front of body, recessed in the rubrail.

Turn Signal Flash Pattern

The forward (if applicable) and rear turn signals shall have a populated full light flash pattern.

LIGHTS - COMPARTMENT, STEP & GROUND

Compartment Light Package

Two (2) TecNiq E45 LED compartment light strip shall be mounted in each body compartment greater than 4 cu. ft. Transverse compartments shall have four (4) lights, located two (2) each side of the body.

Each light bar shall include super bright white LEDs mounted to circuit boards encapsulated in an aluminum extrusion using TecSeal with TPE sealed end caps. The lights shall produce approx. 600 lumens per foot and shall be provided with a limited lifetime warranty.

Compartment lights shall be wired to a master on/off switch located in the cab.

The wiring connection for the compartment lights shall be made with a weather-resistant plug in style connector. A single water and corrosion-resistant switch with a polycarbonate actuator and sealed contacts shall control each compartment light. The switch shall allow the light to illuminate if the compartment door is open.

Medical Cabinet Lighting [Qty: 2]

One (1) TecNiq E45 LED compartment light strip shall be mounted in the medical cabinet(s).

The light bar shall include super bright white LEDs mounted to circuit boards encapsulated in an aluminum extrusion using TecSeal with TPE sealed end caps. The lights shall produce approx. 600 lumens per foot and shall be provided with a limited lifetime warranty.

The light shall be controlled by a compartment door switch.

Ground Lights

The apparatus shall be equipped with a sufficient quantity of lights to properly illuminate the ground areas around the apparatus in accordance with current NFPA requirements. The lights shall be TecNiq model T440 4” circular LED (Light Emitting Diode) with clear lenses mounted in a resilient shock absorbent mount for improved bulb life. The wiring connections shall be made with a weather resistant plug in style connector.

Ground area lights shall be switched from the cab dash with the work light switch.

One (1) ground light shall be supplied under each side of the front bumper extension if equipped.

Lights in areas under the driver and crew area exits shall be activated automatically when the exit doors are opened.

Step Lights

The apparatus shall be equipped with a sufficient quantity of lights to properly illuminate the steps around the apparatus in accordance with current NFPA requirements. The lights shall be TecNiq model T440 4” circular LED (Light Emitting Diode) with clear lenses mounted in a

resilient shock absorbent mount for improved bulb life (a smaller light may be used if space is limited). The wiring connections shall be made with a weather resistant plug in style connector.

The step lights shall be switched from the cab dash with the work light switch.

Ladder Tunnel Light [Qty: 2]

An EON LED light shall be provided to illuminate the ladder tunnel at the opening. The light shall be wired through the door ajar circuit on the ladder tunnel door.

LIGHTS - DECK AND SCENE

Hose Bed Light

A Truck-Lite round 81 Series LED light shall be installed at the front area of the hose bed to provide hose bed lighting per current NFPA 1901. The hose bed light shall be switched with the work light switch in the cab.

Rear Work Lights

Two (2) FireTech LED lights model FT-WL3500-FT shall be installed. The lights shall produce 1,981 effective lumens and have a black housing. The lights shall be switched with work light switch in the cab.

Location: (1) each side of body rear facing up high.

Crosslay Light

An Optronics round LED light model TLL44 shall be installed at the rear area of the crosslay to provide crosslay lighting per current NFPA 1901. The light shall provide 720 lm effective output. The light shall have a black powder coated, die cast aluminum housing and stainless steel hardware with a weatherproof rating of IP69K.

The crosslay light shall be switched with the work light switch in the cab.

Scene Lights

Two (2) FireTech model FT-GESM, Guardian Elite LED Surface Mount scene lights with chrome flanges (when required) shall be provided.

Part #: FT-GESM

Voltage Range: 9-32 V DC

Total Amperage @ 12V DC: 10.42

RAW Lumens: 20,500

Effective Lumens: 12,290

Lights shall be located (1) each side of cab, rearward of forward doors, up high and switched in cab (side facing lights switched separately).

LIGHTS - NON-WARNING

Pump Compartment LED Light

An LED light shall be provided in the pump compartment area for NFPA compliance. The light shall be wired to operate with the work light switch in the cab.

LED Pump Panel Light Package

Three (3) TecNiq model E10 LED lights shall be mounted under a light shield directly above each side pump panel. The work light switch in the cab shall activate the lights when the park brake is set.

Engine Compartment Light

There shall be lighting provided to illuminate the engine compartment area in compliance with NFPA 1901. The light shall be an Optronics ILL22 Series LED that has a polycarbonate lense, sealed / waterproof housing and integral switch. The light wiring circuit shall activate when the cab is tilted and master power is switched on.

CONTROLS / SWITCHES

Door Ajar Alarm

An audible alarm shall be provided through the multiplex display(s) in the cab wired into the door ajar or indicator.

Foot Switch

A heavy duty metal floor mounted foot switch shall be installed to operate the air horns. It shall be located driver's side.

Foot Switch

A heavy duty metal floor mounted foot switch shall be installed to operate the Q2B siren. It shall be located driver's side.

Additional Switch

A 12 volt switch shall be provided.

The switch shall be located driver rear of body for rear work lights.

CAMERAS / INTERCOM

Two-Way Intercom

A Fire Research ACT two-way intercom system shall be installed to provide communications between the turntable control station and the aerial tip. The intercom system shall include two (2) speakers and two (2) control modules; one (1) with a push-to-talk button at the turntable control station and one (1) hands free at the aerial tip.

The control modules shall have push-button volume control and a LED volume display. The hands free module shall constantly transmit to the other module unless the push-to-talk button is pressed.

The intercom shall have active noise cancellation and be designed for exterior use.

Camera Back-Up

There shall be a Safety Vision camera model number SV-630A-KIT provided. The camera shall be mounted up high at the rear of the vehicle to provide a wide angle rear view with audio. The camera shall include a cable with metallic waterproof threaded o-ring seal connectors to ensure positive connection between video cable and camera to prevent unplugging due to vibration resulting in video loss to vehicle operator. The camera shall be interlocked with the chassis transmission. When the apparatus is placed in reverse the camera shall automatically be activated and when the transmission is placed in any other gear the screen shall return to the previously displayed screen.

Intercom 4 Cab

A Setcom intercom package shall be installed within the cab interior. Intercom headsets provide hearing loss protection that can occur from exposure to high noise levels.

The system contains:

- One (1) Setcom model IM-950 intercom mixer, system 900 shall be provided in the cab (two (2) year limited warranty). Station includes two (2) radio interface outlets; one (1) for driver and one (1) for officer.
- One (1) Setcom model JS-901-20 jump seat station shall be provided for the two (2) addtional seating locations.
- Four (4) headset hooks

Headsets shall be ordered separately and are not included as part of the Intercom package.

MISC ELECTRICAL

Back-Up Alarm

An electronic back-up alarm shall be supplied. The 97 dB alarm shall be wired into the chassis back-up lights to signal when the vehicle is in reverse gear.

12 Volt DC Power Distribution Module

A Blue Sea model 5032 12 place, split bus fuse block with ground, 12 volt DC power distribution module shall be provided. The module shall provide two isolated groups of six circuits, and shall be wired through switched hot and battery hot, and include a battery ground.

Location: behind officer's seat.

LIGHTS - AREA

Cab Brow Light

One (1) FireTech 12V LED model FT-B-72-ML 75" black housing brow light with integral marker lights shall be provided. The light shall be installed on the front cab brow in place of the standard DOT marker lights. the light shall feature 54 LEDs` producing 19,665 usable lumens and five (5) DOT approved marker lights. The 285W 12V light shall draw 23.75 amps.

Extended Brow Brackets

The forward facing brow mounted flood light shall be provided with extended brackets for use with a standard trough aerial cab.

RECEPTACLES

Receptacle

A 20 amp, 110 volt 3-prong straight blade NEMA 5-20 duplex household receptacle with stainless steel cover plate shall be installed in a non-weather exposed area as specified by the department. The receptacle shall be wired to the inlet receptacle where it will have overcurrent protection from an external source.

Location: rear wall of driver side medical compartment up high, rear wall of officer side medical compartment up high.

AERIAL MODEL

100` Aerial Device

Aerial Ladder Requirements

It is the intent of these specifications to describe a telescopic aerial ladder of the open truss design that is compliant with the current edition of NFPA 1900. Some portions of this specification exceed minimum NFPA recommendations and are to be considered a minimum requirement to be met.

The aerial ladder shall consist of four (4) extruded aluminum telescopic ladder sections operating from -6 degrees to 77 degrees and designed to provide continuous egress for firefighters and civilians from an elevated position to the ground.

The aerial device shall have a vertical height of 100 ft at full extension and elevation as defined in NFPA 1900.

The rated horizontal reach shall be 91.5 ft. The measurement shall be from the outermost rung at full extension to the centerline of turntable rotation as defined in NFPA 1900.

The aerial shall have a maximum stabilizer spread of 13 feet 8 inches from pin to pin.

The ladder shall be able to provide full operating capacities in up to 35 mph wind conditions.

Aluminum Aerial Ladder

The aerial ladder shall exceed the requirements of NFPA 1900 as detailed in these specifications. To ensure a high strength to weight ratio and an inherent corrosion resistance, the aerial ladder shall be completely constructed of high strength aluminum. All side rails, rungs, handrails, uprights and K-braces shall be made of structural 6061T6 aluminum alloy extrusions. All material shall be tested and certified by the material supplier. All ladder sections shall be semi-automatically welded by inert gas shielded arc welding methods using 5356 aluminum alloy welding wire. Structural rivets or bolts shall not be utilized in the ladder weldment sections.

Due to the unpredictable nature of fireground operations, a minimum safety factor of 2.5 to 1 is desired. This structural safety factor shall apply to all structural aerial components including turntable and torque box stabilizer components. Definition of the structural safety factor shall be as outlined in NFPA 1900:

DL = Dead load stress. Stress produced by the weight of the aerial device and all permanently attached components.
RL = Rated capacity stress. Stress produced by the rated capacity load of the ladder.
WL= Water load stress. Stress produced by nozzle reaction force and the weight of water in the water delivery system.
FY = Material yield strength. The stress at which material exhibits permanent deformation.

2.5 x DL + 2.5 x RL + WL equal to/less than FY

The minimum NFPA specification is exceeded in this paragraph by requiring safety margin above 2 to 1 while flowing water.

The stability factor or tip over safety margin shall be a minimum of 1.5 to 1 as defined by NFPA 1900.

An independent engineering firm shall verify the aerial safety factor. Design verification shall include computer modeling and analysis, and extensive strain gauge testing performed by an independent registered professional engineer. Verification shall include written certification from the independent engineering firm made available by the manufacturer upon request from the purchaser

All welding of aerial components, including the aerial ladder sections, turntable, torque box and outriggers shall be performed by welders who are certified to American Welding Society Standards D1.1, D1.2 and D1.3.

The weldment assemblies of each production unit shall be tested visually and mechanically by an ASNT certified level II non-destructive test technician to comply with NFPA 1900. Testing procedures shall conform to the American Welding Society Standard B1.10 Guide for non-destructive testing. Test methods may include dye penetrant, ultrasound and magnetic particle where applicable.

Each ladder section shall consist of two (2) extruded aluminum side rails and a combination of aluminum rungs, tubular diagonals, verticals and two (2) full-length handrails. The rungs on all sections shall be K-braced for maximum lateral stability. This K-bracing shall extend to the center of each rung to minimize ladder side deflection.

The ladder rungs shall be designed to eliminate the need for rubber rung covers. The rungs shall be spaced on 14 inch centers and have an integral skid-resistant surface as outlined in NFPA 1900. An oval-shaped rung shall be utilized to provide a larger step surface at low angles and more comfortable grip at elevated positions. The minimum design load shall be 500 pounds distributed over a 3 1/2 ” wide area per rung as outlined in NFPA 1900.

The aerial ladder shall exceed NFPA 1900 governing the minimum ladder section width and handrail height.

Section	**Width**	**Height**
Base Section	44-1/16”	33-1/2”
Second Section	36”	28-1/2”
Third Section	29-3/4”	25”
Fly Section	24-3/8”	21-1/2”

Ladder Extension Mechanism

Both power extension and retraction shall be furnished and meet the requirements of NFPA 1900. Extension shall be by way of two (2) extending cylinders mounted on the underside of the base section of the ladder.

Extension Cylinder Size

Bore	4”
Stroke	80”

The cylinders shall operate through a block and tackle cable arrangement to extend and retract the ladder. Maximum extension of the ladder is to be automatically limited by the stroke of the cylinders. The normal operating cable safety factor shall be 5:1 and the stall safety factor shall be 2:1 based on the breaking strength of the cables. The minimum ratio of the diameter of wire rope used to the diameter of the sheave used shall be 1 to 12. The cables shall be treated with Pre-Lube 6 for increased service life.

Ladder Cable Size

1st section (4 cables - 2 extend, 2 retract)	5/8” 6 x 19 galvanized cable
2nd section (4 cables - 2 extend, 2 retract)	7/16” 6 x 19 galvanized cable
3rd section (4 cables - 2 extend, 2 retract)	5/16” 7 x 19 galvanized cable

The ladder assembly shall consist of four (4) separate weldments that shall extend and retract within each other. Nylatron NSM slide pads shall be utilized between each section to minimize friction. Nylatron NSM slide pads shall be installed at the tip of the lower three (3) sections to accommodate the sliding loads as the ladder is extended.

Aerial Extension Indicator

Reflective tape stripes shall be installed on the ladder top handrail of the base section to indicate extension in 10 foot increments. A reflective dot on the base of the 2nd section shall provide a visual reference for the operator to estimate aerial elevation.

Aerial Finish

To reduce maintenance expense the aerial shall have a natural aluminum swirled finish. Visible inspection of all ladder weld joints shall be possible without having to remove paint or body filler to reveal the weld bead.

Operation Times

The aerial shall complete the NFPA 1900 time test in no more than 120 seconds. This test involves raising the aerial from the bedded position to full elevation and extension and rotating to 90 degrees. This test is to begin with the stabilizers deployed.

Time to extend ladder	maximum 45 seconds
Time to retract ladder	maximum 45 seconds
Time to raise ladder	maximum 45 seconds

Time to lower ladder	maximum 45 seconds
Time to rotate 180 degrees	maximum 70 seconds

Aerial Ladder Rated Capacity

The aerial device shall have a rated capacity of 825 lbs. The rated capacity shall include 750 lbs. in personnel allowance and 75 lbs. for equipment mounted at the tip of the ladder. The aerial device shall be rated in multiple configurations. A sign mounted at the base of the aerial shall communicate the following ratings in the unsupported fully extended configuration while maintaining a 2.5 to 1 safety margin as defined in NFPA 1900. The loads in each configuration are in addition to 75 lbs of equipment mounted at the tip.

Condition #1- Tip load only, no water flowing

Elevation	Capacity	Pounds
-6 to 77 degrees	3 people	750 lbs.

Condition #2- Distributed loads no water flowing. (These include two (2) people at the tip)

Elevation	Capacity	Pounds
-6 to 20 degrees	6 people	1500 lbs.
21 to 35 degrees	8 people	2000 lbs.
36 to 77 degrees	10 people	2500 lbs.

Condition #3- Ladder tip load while flowing pre-piped waterway

Elevation	Capacity	Pounds
-6 to 77 degrees	2 people	500 lbs.

Hydraulic System

The hydraulic plumbing shall consist of hydraulic stainless steel tubing wherever possible in order to:

- Eliminate hose wear.
- Eliminate the corrosion associated with galvanized steel tubing.
- Provide a stronger medium to carry the hydraulic fluid.

An interlock device shall be provided to prevent activation of the aerial ladder hydraulic pump until either the transmission is placed in neutral and the parking brake is set, or the transmission is placed in drive and the rear driveline is disengaged.

The hydraulic system shall be of the latest design and incorporate features to minimize heat build up and provide smooth control of the aerial ladder. The system shall meet the performance requirement in NFPA 1900, which requires adequate cooling under 2 1/2 hours of operations. To control operating system temperature, a hydraulic oil cooler shall be supplied. The air to oil

cooler shall be mounted on the turntable so as not to reduce the cooling capacity of the engine. A 12 volt fan shall move air across a tube and fin radiator system. The cooler shall be mounted clear of the operator`s control console.

All hydraulic components that are non-sealing whose failure could result in the movement of the aerial shall comply with NFPA 1900 and have burst strength of 4 to 1. Dynamic sealing components whose failure could cause aerial movement shall have a margin of 2 to 1 on maximum operating pressure per NFPA 1900. All hydraulic hoses, tubes and connections shall have minimum burst strength of 3 to 1 per NFPA 1900.

A hydraulic oil pressure gauge shall be supplied at the base control location.

Hydraulic power for all operations shall be supplied by a chassis-mounted positive displacement pump for consistent pressure and rapid response. The positive displacement vane pump shall be able to supply 21 gallons per minute at a maximum pressure of 3000 psi. The system shall operate between 1000 and 2500 psi with flow controls to protect hydraulic components and incorporate a relief valve set at 2800 psi to prevent over-pressurization.

The hydraulic system shall consist of a 60 gallon reservoir mounted to the torque box and plumbed to the hydraulic pump. The tank shall be supplied with a removable top to access tank strainer filter. There shall be plumbing for a supply and return line and a tank drain on the reservoir. Connections on the bottom of the tank shall utilize Code 61 flange fittings for ease of service. Gated valves under the tank shall facilitate filter changes.

The hydraulic system shall use 5w-20 multi-weight, SAE 32 grade oil and incorporate the following filters to provide dependable service:

Reservoir Breather:	10-micron
Magnetic Reservoir Strainer:	125-mesh
Pressure Filter (Torque Box):	3-micron
Return Filter:	10-micron

The aerial hydraulic system shall be designed in such a manner that a hydraulic pump failure or line rupture shall not allow the aerial or outriggers to lose position. Hydraulic holding valves shall be mounted directly on cylinders. To ensure reliable performance of holding valves, no hoses shall be permitted between a holding valve and cylinder.

The aerial shall incorporate the use of stainless steel tubes inside the torque box and jack legs to minimize the possibility of hydraulic leaks. The stainless steel tubes shall be installed inside the torque box to prevent damage from the elements.

The hydraulic system shall be designed with an auxiliary power unit meeting the guidelines of NFPA 1900. The auxiliary power unit shall be a 12-volt pump connected to the chassis electrical system. The pump shall provide operation at reduced speeds to store the aerial device and outriggers for road transportation. Self-centering switches shall be provided at the turntable and

each stabilizer control station to activate the system. The system shall be designed to provide a minimum of five (5) minutes of hydraulic power to operate functions.

Hydraulic power to the ladder shall be transferred from the torque box by a hydraulic swivel.

Aerial Torque Box

The aerial shall utilize an integral torque box design. The integral torque box design shall serve to carry the chassis, body and aerial device as an integrated system. The system design shall provide a lower center of gravity to enhance road performance, a mounting location for under-slung stabilizers, and additional space for body compartments. The strength of the torque box shall be a minimum 12.6 million-inch pounds resistance to bending moment. The stabilizers and turntable supports shall be welded directly to the torque box.

Stabilization

The unit shall be equipped with two (2) sets of extendable criss-cross under-slung stabilizers. The stabilizers shall have a spread of 13 feet 8 inches centerline to centerline of the stabilizer pads when fully extended. One (1) set of stabilizers shall be mounted in the forward body area and a second set close to the rear axle to minimize impact on departure angle. The stabilizers shall have an inner and outer tube that slide on low friction pads for deployment. The stabilizers shall have a tip over safety margin of 1 1/2 times the rated load imposed by the aerial in any position the aerial device can be placed as outlined in NFPA 1900. The apparatus stabilization shall be accomplished without the assistance of the chassis suspension or tires in contact with the ground.

The aerial shall be able to sustain a 1 1/3 to 1 rated load on a 5 degree slope downward in the position most likely to cause overturning as outlined in NFPA 1900. The maximum ground slope the apparatus can be set up on is 12 percent. On the 12 percent slope the apparatus can be leveled within a 6 percent operating range for the apparatus.

The cylinders shall be supplied with dual pilot operated check valves on each stabilizer cylinder to hold the cylinder in the stowed or working position should a charged line be severed at any point in the hydraulic system. The stabilizers shall level side to side, corner to corner and front to rear on uneven terrain. Stabilizers shall contain safety lock valves. This assures there will be no ”leak down” of stabilizer legs. Mechanical pins are not required. This feature contributes to efficient set-up and field operation.

The stabilizer lift cylinders shall be sized to maximize ground penetration. The lift cylinders shall be mounted on the side of the torque box for protection and shall have the following dimensions:

Bore: 7”
Stroke: 9-1/2”

The stabilizer extension cylinders shall have the following dimensions:

Bore: 2”
Stroke: 41-1/2”

Each stabilizer that can be extended from the body shall be supplied with a red warning light as outlined in NFPA 1900. A stabilizer extended warning light shall be supplied in the cab to warn the driver of an extended stabilizer condition as outlined in NFPA 1900. A floodlight shall be supplied in each stabilizer location to illuminate the stabilizer and ground. The light shall automatically turn on with the deployment of the stabilizer.

The stabilizer ground contact area for each foot pad shall be 10” x 14”. When operating with auxiliary jacks pads, the ground pressure shall not exceed 100 psi when the apparatus is fully loaded and the aerial device is carrying its rated capacity in every position, as outlined in NFPA 1900.

Stabilizer Controls

Four (4) electric solenoid valves shall control the stabilizers. The control switches shall be located at the rear of the apparatus so the operator may observe the stabilizers during deployment. An audible alarm with a minimum 87 dBA shall also sound while the stabilizers are in motion. Stabilizer deployment shall be completed in less than 60 seconds.

There shall be an interlock that prevents the operation of the ladder until the stabilizers are down and properly set as outlined in NFPA 1900. Four (4) micro-switches, one (1) on each jack leg, shall sense when all four (4) jack feet are in firm contact with the ground. This condition shall be indicated when all four (4) yellow jack-down indicator lights are on and the green interlock light is on. When the apparatus has been leveled, a manual transfer switch shall be used to shift hydraulic power to ladder operations. The interlock system shall have a manual override with access through a door on the rear control panel.

To simplify leveling the apparatus, two (2) color-coded level indicators shall be supplied at the rear of the apparatus. One (1) indicator shall be for front to rear level and one (1) for side to side level.

Forward Aerial Support

The aerial ladder support shall be fabricated from steel components and be welded directly to the torque box chassis. The ladder support uprights shall be constructed from 7/8" thick steel plate. Bolt-in diagonal bracing shall be installed on the support structure in an "X" pattern to restrict to side movement. This design shall allow for a pre-determined amount of flex preventing premature failure that can be found in an overly rigid structure. The support shall be located behind the rear wall of the cab.

Turntable Support Assembly

The aerial ladder turntable assembly shall be mounted at the rear of the apparatus. The turntable support assembly shall be welded to the integral torque box for efficient transfer of aerial loads

to the stabilizers and shall permit storage of ground ladders in the center rear of the apparatus. The complete turntable support assembly shall be multi-pass welded to the sides of the combination chassis frame torque box.

The turntable support assembly shall be a steel weldment constructed of four (4) vertical 1/2" x 5" x 5" square tubing with identical tubing welded in between the top ends of the verticals.

A bearing mounting plate shall be welded to the top of the verticals and sides of the horizontals. The bearing mounting plate shall be 54" x 54" and shall have a 1-1/2" thickness. This bearing mounting plate shall be bulkheaded to a 3/8" steel plate that is welded to the bottoms of the horizontal tubing. The use of multi-pass welding shall be utilized wherever possible.

A 44" rotation bearing with a 3 3/4" face drive gear shall be bolted to the top of the bearing mounting plate with thirty (30) 1" grade 8 plated bolts. The gear teeth shall be stub tooth form.

Upper Turntable

The upper turntable assembly shall attach to the rotation bearing and the base of the ladder.

The turntable working platform shall be a fabricated steel structure covered with a non-skid 3/16" thick aluminum material for operator safety. The right side of the turntable shall be modified to allow full access to the body`s SideStacker hosebed (if applicable).

Two (2) railings 42" high shall be provided along the outside of the turntable disc as outlined in NFPA 1900. There shall be a control pedestal on the left side of the turntable.

Two (2) padded Fire Research brand ManSaver safety bars shall be mounted to the turntable handrails. The bars shall lift up and inward (towards the ladder) permitting easy entrance to the ladder and control console.

The turntable assembly shall provide a mounting base for the ladder and elevating cylinders. The turntable assembly shall be bolted to the turntable bearing by twenty-two (22) 1" grade 8 plated bolts.

The ladder pivot point shall connect to the upper turntable assembly by two (2) 2-1/2" ID spherical bearings.

Elevation Mechanism

The aerial shall utilize dual 6" diameter elevating cylinders and shall attach to the upper turntable assembly and the base section of the ladder by 2" ID spherical bearings. The elevation hydraulic cylinders shall incorporate cushions on the upper limit of travel. The hydraulic elevation cylinders shall also serve as a locking device to hold the aerial in the stored position for road travel.

Rotation Mechanism

The aerial shall be supplied with a hydraulically-powered rotation system. The hydraulic rotation motor shall provide continuous rotation under all rated conditions and be supplied with a spring-applied brake to prevent unintentional rotation. The high torque rotation drive shall operate through a dual reduction planetary gear box that drives a spur gear mated with the ring gear on the rotation bearing. The rotation gear box shall be rated at 120,000 in. lbs.

Aerial Electric Power

A hydraulic swivel shall be installed to provide hydraulic fluid transfer to the aerial ladder cylinders, electrical power to the aerial ladder, and water delivery to the pre-plumbed waterway while permitting continuous 360-degree rotation. The swivel shall provide two (2) hydraulic circuits, twenty four (24) electrical circuits, and one (1) 4" passage for waterflow. The swivel shall be environmentally-sealed to prevent contamination of the hydraulic fluid.

Aerial Ladder Operating Position

An aerial ladder operator`s position shall be supplied as outlined in NFPA 1900. The operator`s position shall be located on the left side of the aerial turntable. The apparatus shall be supplied with labels to warn of electrocution hazard. The control console shall provide a service access door on the front and side of the console to access hydraulic and electrical connections. The electrical panel shall be contained in junction box with labeled wires. The console shall be angled, labeled, and supplied with lights for night operation.

Console Cover

A diamond plate contoured hinged cover shall be supplied to protect the operating controls from the elements. The cover shall latch in the stored position and swing away from the console so as not to interfere with sight of the aerial device.

Aerial Ladder Control Levers

The control levers shall be arranged as outlined in NFPA 1900. The first lever from the left shall be the extension control (forward for extend and back for retract). The second lever shall be for rotation (forward for clockwise and back for counter clockwise). The third handle shall control elevation (forward for down and back for up). A ring around the control console shall be provided to prevent unintentional movement as outlined in NFPA 1900.

Rung Alignment Indicator

A light on the control console shall indicate when the ladder rungs are aligned for climbing.

Aerial Alignment Indicator

A reflective arrow mounted to the body and the turntable shall indicate when the aerial is aligned with the cradle.

Load Indication System

A lighted elevation/safe load indicator diagram shall be located on the lower left side of the base section to indicate safe load capacity at any angle of elevation. The safe load indicator shall be 15” x 15” in size and clearly communicate aerial capacity in any one of the following conditions: tipload, tipload with water flowing, and distributed load at full extension. The chart shall identify capacity u sing graphic characters to indicate each 250 lb. increment. The chart shall be equipped with lighting and warn of electrocution hazards from power lines and lightning.

Aerial Waterway

A pre-piped waterway shall be supplied as outlined in NFPA 1900. The waterway shall telescope to the end of the fourth section. A waterway of 4” internal diameter shall pass through the turntable and a swivel joint to connect to the tubular aerial waterway. The tubular waterway shall run under the aerial ladder. The waterway tubes shall have the following sizes:

Base Section:	5” OD
2nd Section:	4-1/2” OD
3rd Section:	4” OD
Fly Section:	3-1/2” OD

The tubes shall be constructed of 6063T6 hard coat anodized aluminum and shall be telescopic with the aerial ladder through sealed slip joints. The slip joints shall be designed with grease zerk fittings to facilitate lubrication.

A 1-1/2” drain valve shall be installed and operated from the rear of the apparatus.

The water system shall be capable of flowing up to 1500 GPM. The friction loss between the tip and below the swivel shall not exceed 100 psi while flowing 1000 GPM as outlined in NFPA 1900.

Waterway Relief Valve

An automatic relief valve preset at 250 psi shall be installed in the aerial waterway to prevent over-pressurization of waterway system. The relief valve shall be mounted in the lower portion of the waterway where it enters the aerial torque box frame and dumps under the apparatus.

Ladder Tip Steps

Two (2) split design folding steps shall be located near the ladder tip to provide a position for a firefighter using the ladder pipe/monitor as outlined in NFPA 1900. The steps shall have a raised surface for traction and cut outs for deployment.

ISO Compliance

The manufacturer shall operate a Quality Management System meeting the requirements of ISO 9001:2000.

The International Organization for Standardization (ISO) is a recognized world leader in establishing and maintaining stringent manufacturing standards and values. The manufacturer`s certificate of compliance affirms that these principles form the basis for a quality system that unswervingly controls design, manufacture, installation, and service.

The manufacturer`s quality systems shall consist of, but not be limited to, all written quality procedures (aka QOP) and other procedures referenced within the pages of the manufacturer`s Quality Manual, as well as all Work Instructions, Workmanship Standards, and Calibration Administration that directly or indirectly impacts products or processes. In addition, all apparatus assembly processes shall be documented for traceability and reference. The manufacturer shall also engage the services of a certified third party for testing purposes where required.

If the manufacturer operates more than one manufacturing facility each facility must be ISO certified.

By virtue of its ISO compliance the manufacturer shall provide an apparatus that is built to exacting standards, meets the customer`s expectations, and satisfies the customer`s requirements.

A copy of the manufacturer`s certificate of ISO compliance for each manufacturing facility shall be provided with the bid.

AERIAL HYDRAULIC SYSTEM OPTIONS

Aerial Hydraulic Oil Level Gauge

A hydraulic oil level gauge shall be supplied for easy fluid level verification. The three color display shall indicate full oil level with a green light, acceptable oil level with a yellow light, and low oil level with a red light.

The display shall be located on pump operator's panel.

Aerial Hydraulic Pump

The aerial hydraulic pump shall be upgraded to a variable displacement pressure compensated pump. The variable displacement piston pump shall be able to supply up to 30 GPM at a maximum pressure of 3000 PSI. The system shall operate between 1000 and 2850 PSI with flow controls to protect hydraulic components and incorporate a relief valve set at 3000 PSI to prevent over-pressurization.

An activation switch shall be provided in the cab within easy reach of the driver. A system ”engaged” indicator light shall be provided on the activation switch. The system will allow for the aerial hydraulic pump to be activated without having to shut down the water pump or reduce

engine RPM`s. Engagement shall be allowed only with the transmission in the neutral or pump gear and the parking brake engaged.

AERIAL CONTROLS

Automatic Leveling System

The aerial stabilizers shall include an automatic leveling system. The stabilizers shall be semi-automatically controlled by a microprocessor leveling system which can level the chassis within operating range as long as the grade is within the capabilities of the stabilizer system.

The stabilizer leveling system shall be operated by a tethered handheld controller. The controller shall have buttons for individual stabilizer control as well as auto level and auto retract. The system shall require the operator to hold the Auto Level button as it runs through it's process. Releasing the button will cease operations if needed. This controller shall be in addition to standard stabilizer switch panels on the apparatus body.

The tethered control shall be located in storage box for handheld jack control (box is a separate option).

Aerial Control System

The aerial hydraulic system shall be equipped with a microprocessor based electric over hydraulic control system. The system shall include electronic ramping to provide smooth acceleration and deceleration of aerial functions during sudden movements of the operator control levers. The ladder shall utilize three (3) combination proportional control valves for smooth aerial device movements. The hydraulic system valve body shall be located in the turntable console.

The switch modules on the console shall be CAN based for reliable operation. The system shall utilize 32-bit control module(s) rated for mobile applications.

The control system shall have manual overrides in the event of a system failure. The overrides shall be located directly on the electric / hydraulic control valve within easy reach of the turntable operator. The manual system shall be organized to match the base controllers with the functions clearly labeled.

Joystick Control Levers

The control system shall incorporate three (3) joysticks at the aerial control console. The joysticks shall be single axis, one (1) to extend / retract, one (1) for rotating left / right and one (1) to elevate / lower the aerial in accordance with NFPA 1900/1901. A ring shall be provided around each joystick to prevent unintentional movement.

Aerial Speed Switch

The control system shall be provided with a "creep speed" switch for precise aerial movement. When activated, the aerial shall operate at a slow speed and the chassis engine will remain at idle speed.

Variable Ramping

A three (3) position switch shall be provided to select system ramping (ladder movement when initiating or ceasing movement of a control lever). The switch shall allow selection of normal (1/2 second), firm (1/4 second) or soft (3/4 second) ramping based on operator preference.

Aerial Information System Display

The aerial device shall be equipped with a color display at the turntable console that provides critical information to the aerial operator.

The display shall provide the following information:

- Waterway flow
- Total waterway flow (with reset button)
- Waterway pressure
- Hydraulic oil pressure
- Hydraulic oil temperature
- Hydraulic oil level
- Aerial hourmeter
- Rung alignment status
- Cradle alignment status
- Breathing air status (if equipped with breathing air)
- Chassis air horn switch

The display shall be capable of showing system units in standard or metric values.

Audible Warnings

The system shall include alarms to indicate when hydraulic oil temperature is above 190°F and when breathing air is below 20% and 5% volume (if equipped).

Visual Warnings

In addition to the audible warnings, the system shall include visual warning indicator for high hydraulic oil temperature and low breathing air (if equipped).

Display Screen

- 7” bonded Transflective LCD screen (Sunlight viewable)
- 16-bit color format
- 800 x 480 resolution

- LED backlighted switches
- Environmentally sealed housing
- Ten (10) integrated tactile navigation buttons

Sensors

- Waterway pressure
- Waterway flow
- Hydraulic oil pressure
- Hydraulic oil temperature
- Hydraulic oil level
- Cradle alignment
- Rung alignment
- Breathing air pressure (If equipped with breathing air)

Monitor Stow Switch

The control system shall also include a switch to deploy and stow the waterway monitor (if equipped with a pre-piped waterway).

Emergency Stop Switch

An emergency stop switch shall be provided on the console that turns off the controllers and de-energizes the PTO in the event the aerial must be stopped immediately. The system shall include both visual and audible indicators that the switch has been activated.

Durability

The components shall be thoroughly tested and have a proven reliability in severe environments to ensure long life on the fireground. The system shall be capable of operating in a temperature range of -40°C through +85°C.

Diagnostics

The system shall feature diagnostic capabilities that includes an I/O status screen separated by component.

MONITORS

Monitor Finish

The aerial monitor(s) shall be ordered from the OEM manufacturer painted silver.

Electric Monitor

The aerial ladder shall be equipped with an Akron style 3480 StreamMaster II electrically controlled monitor. The monitor shall be made from Akron`s unique lightweight Pyrolite construction to minimize ladder tip loads. The monitor shall be capable of discharging up to 2000 gpm.

The operational range of the electric monitor and nozzle shall be 135 degrees through the vertical plane (90 degrees upwards from a line perpendicular to the aerial ladder and 45 degrees downward), and 180 degrees through the horizontal plane (90 degrees to either side of the aerial ladder center line). The monitor shall be able to move in the horizontal and vertical axis simultaneously. NOTE: On HR100 aerials, flows greater than 1000 GPM should be limited to +/- 45 degrees monitor rotation from center and 75 feet or less ladder extension.

The monitor relay box shall include an electronic control system that is attached to the inlet base of the monitor and be totally encapsulated to prevent moisture intrusion. The monitor shall have fully enclosed motors and gears with built in manual override capability and quick-attach handles. A battery, which continuously charges from the vehicle power system shall provide power for monitor movement. Systems which do not utilize a battery shall not be acceptable due to the higher incidence of failure with this type of system. NO EXCEPTIONS.

Control switches for horizontal movement, vertical movement and pattern selection shall be located at the control panel.

Monitor Tip Controls

In addition to the controls at the operator console, electric monitor directional and stream controls shall be installed in close proximity to the monitor on the ladder to allow operation by a firefighter on the ladder.

Monitor Nozzle

The monitor shall have an Akron Style 5177 electrically controlled automatic nozzle with a flow rating of 350-1250 gpm at 80 psi.

WATERWAY OPTIONS

Pinned Waterway Upgrade

A remote-controlled monitor/nozzle assembly shall be attached to a ladder fly section through C-channel slide pads which shall allow the monitor/nozzle assembly to be positioned at the tip of a section for maximum master stream reach or at the tip of the next section down for unobstructed rescue capabilities. The monitor/ nozzle assembly shall be pinned at either operating location with a single stainless steel ”T” handle locking ball pin. A monitor control station shall be attached to the sliding monitor/nozzle assembly and shall move with it.

The turntable monitor controls shall be connected to the sliding monitor system using an electronic multiplexing system that sends all monitor control signals over a shielded pair of wires

through a spring retract electric cable reel. The collector rings in the cable reel shall be specifically designed for accurate transmission of electronic signals.

A gel-cell rechargeable battery shall be located on the sliding monitor assembly. A dedicated ground wire and 12VDC positive charging wire shall be routed from the turntable control station through the electric cable reel to the monitor battery. The charging wire shall be directly connected to the chassis 12VDC battery system through a 20 amp auto reset circuit breaker.

The moveable monitor/nozzle assembly shall be capable of flowing from 300 gpm to 1000 gpm while maintaining a constant 80-100 psi nozzle pressure for maximum stream projection.

Waterway Inlet

One (1) 4” inlet shall be provided at the rear of the apparatus and shall be connected to the vertical pedestal waterway piping to supply water to the aerial waterway from an outside source. All fabricated piping shall be constructed of a minimum of Schedule 10 stainless steel piping to help prevent corrosion. The threads shall be NST. A long handle chrome plated 4” NST cap shall be installed on the inlet.

Waterway Pressure Gauge

Innovative Controls TC Series 4" (100MM) waterway inlet pressure gauge (0-400) shall be provided. Each gauge shall have a glass-filled nylon case, a clear scratch-resistant lens, and a highly-polished stainless steel bezel.

The gauges shall be installed into decorative chrome-plated mounting bezels that incorporate valve-identifying verbiage and/or color labels.

The gauge shall be fully-filled with a synthetic mixture to dampen shock and vibration, lubricate the internal mechanisms, prevent lens condensation and ensure proper operation from –40°F to +160°F.

Each gauge shall exceed (NFPA 1901 16.12.3.7) ASME B40.100 Grade B requirements (3% 2% 3%) with an accuracy of +/- 1.5% full scale and include an internal thermal expansion bladder that allows the gauge fill to expand in high temperature environments.

The gauges shall also include a KEM-X Socket Saver diaphragm in the stem to eliminate freeze-up and contain a low temperature instrument oil that fills and protects the socket and bourdon tube.

The gauges shall display a range specified with enhanced black markings on a white dial.

Waterway Shutoff Valve

A 3" Akron electric valve shall be installed in the waterway to permit the rear waterway inlet to be used as a discharge.

The valve shall be 3" Akron 8600HD series with 316 stainless ball and polymer seals for ease of operation and increased abrasion resistance. The valve shall be a swing-out design to allow the valve body to be removed for servicing without disassembling the plumbing.

The valve shall utilize an electric actuator with dual manual override shafts.

The valve shall be controlled by a Navigator Pro Mini controller located at the rear of the body.

Note: A 3" valve shall be used to not impact ground ladder stororage. Due to the 3" valve waterway flow may be limited to 1250 GPM.

AERIAL WARNING LIGHTS

LED Outrigger Lights (4)

Four (4) Truck-Lite model 91 LED outrigger warning lights with red lenses shall be provided.

The lights shall be surface mounted on the outrigger covers.

AERIAL LIGHTING

Ladder Base Lighting

Two (2) Whelen round 12 Super LED model PFBP12C floodlights with black housing and chrome rear cover shall be mounted one on each side at the bottom of the ladder base section. They shall be controlled from the turntable operating pedestal.

Ladder Climbing Lights

A Luma-Bar Pathfinder LED lighting system shall be provided to illuminate the climbing area inside each ladder section. The strip type lights shall be located above ladder rung level and directed toward the centerline of the ladder to reduce glare. The lights shall be mounted to a 1.25" x .5" x .125" extruded aluminum channel and wired to not be an obstruction during climbing. The lights shall be controlled with the ladder lights switch at the operators control console.

The LED lights shall be Blue.

Tip Light

A 12/24V FireTech model FT-WL-X-9-FT-B-SH2 LED combination spot / flood light with black housing shall be provided on the tip of the aerial device. The light shall produce 7,200 lumens and draw 4.3 amps (at 12v). Includes switch on lighthead at turntable console. The light shall be located left side tip, right side tip.

AERIAL EQUIPMENT

Axe Bracket

An axe bracket shall be provided on the aerial ladder. The bracket shall be Zico model# H-AB blade guard and PAC TRAC model# 1004 clamp for the handle. The bracket shall be designed to hold a 6 lb. axe and include a pick cover.

Location: left side fly section.

AERIAL LADDER BRACKETS

Roof Ladder Bracket

A lift-out style roof ladder mounting bracket shall be installed on the outside of the ladder base section. The bracket shall be designed to hold a PRL/DRL-14 on left side of base section.

SIGN PLATES

Aerial Sign Plate

Two (2) 22” x 144” x 1/8” (0.125”) thick smooth aluminum plates shall be provided. The plates shall have 1” lips top and bottom for rigidity. Each sign plate shall be bolted on either side of the base section, approximately at the midpoint. The plates shall be provided to display the department`s name or other information. The plates shall be painted Job Color as specified by the customer.

AERIAL TESTING

Third-Party Flow Test

A flow test shall be conducted to determine that the water system is capable of flowing 1,000 gpm at 100 psi nozzle pressure with the aerial device at full extension and elevation. When the aerial apparatus is equipped with a fire pump, the test shall be conducted using the onboard pump. Intake pressure for the onboard pump shall not exceed 20 psi.

In addition to the flow test, a hydrostatic test shall be done on the waterway system. The permanent water system, piping, and monitor shall be hydrostatically tested at the maximum operating pressure required to flow 1,000 gpm at 100 psi nozzle pressure at maximum elevation and extension.

These results shall be certified by an independent, third-party testing organization, per NFPA 16.13.1 through 16.13.1.3.

Aerial Certification

The aerial device shall be tested in compliance with the edition of NFPA documented elsewhere in these specifications.

Upon satisfactory completion of all inspections and tests, an independent third-party inspection firm shall submit a certificate indicating that all specified standards have been met.

MISC LOOSE EQUIPMENT

DOT Required Drive Away Kit

Three (3) triangular warning reflectors with carrying case shall be supplied to satisfy the DOT requirement.

EXTERIOR PAINT

Paint Sample Spray Out

A paint sample spray out of the base cab / body paint color will be provided for approval prior to painting. Qty one in BOM will supply a pair of paint samples.

Paint Break

The cab shall have a two-tone paint break. The break line shall be located as follows based on cab model.

Typhoon and legacy Cyclone cabs: 31.5" below the drip rail.

Quest cab: 41.375" up from bottom of cab.

Painted Pump/Pre-Connect Module(s)

The apparatus pump/pre-connect module(s) shall be painted job color.

The paint process shall match what is applied to the body.

Paint Spray Out

A paint sample spray out of the cab two-tone paint color will be provided for approval prior to painting. Qty one in BOM will supply a pair of paint samples.

Painted Header Plate

The roll up door header plates shall be painted job color for all painted roll-up doors.

Paint Body Large

The apparatus body shall be painted a (non-metallic) color.

Paint Custom Cab

The apparatus cab shall be painted a (non-metallic) color as specified.

Paint Cab Two-Tone Color

The upper section of the cab shall be painted a (non-metallic) color as specified.

Aerial Paint

The lift cylinders, extension cylinders and upper turntable steelwork (less turntable) shall be painted to match the upper "two-tone" cab color.

Undercoating

Undercoating shall consist of a heavy coating of soft seal film sprayed on the entire underside of the vehicle to repel water and road elements. Shall be applied after customer final inspection.

Air Conditioning Condenser

The air conditioning condenser cover mounted on the roof of the cab shall be painted color: to match upper cab color.

Paint Cab Grille

The entire front cab stainless steel cab grille shall be painted black in color.

Paint Process/Manufacturer

The specified E-ONE supplied components shall be painted with PPG Industries paint.

All applicable metal surfaces shall be mechanically etched by sanding disc to remove any surface oxidation or surface debris which may hinder the paint adhesion. Once all imperfections on the exterior surfaces are removed and sanded smooth, body fillers shall be applied to the surfaces that require a critically aesthetic finish and sanded smooth.

The applicable surfaces shall then be coated with a high quality base primer that is designed to fill any minor surface defects, provide an adhesive bond between the primer and the paint and improve the color and gloss retention of the color. The finish to this procedure shall be sanding

the surfaces to a smooth finish followed by sealing the seams with an automotive seam sealer. The minimum thickness of the primer coat after sanding shall be 2.50 mils with a maximum thickness of 5.00 mils.

The applicable surfaces shall then be painted the specific color(s) designated by the customer with an acrylic urethane type system designed to retain color and resist acid rain and most atmospheric chemicals found on an emergency scene. The paint shall have a minimum thickness of 1.0 mils with a maximum of 4.0 mills, followed by a clear top coat with a minimum of 2.0 mils and a maximum of 4.0 mils. All applicable components shall then be baked to speed the curing process of the coatings.

INTERIOR PAINT

Cab Interior Paint

The interior of the cab shall be painted multi-tone gray finish. Prior to painting, all exposed interior metal surfaces shall be pretreated using a corrosion prevention system.

PROTECTIVE COATINGS

Scorpion Bumper Top Perimeter

The top perimeter of the formed heavy duty bumper shall have Job Color Scorpion finish. The finish shall be applied to the top flange, radius and 1" down on the face of the heavy duty bumper front, corners and sides.

STRIPING

Reflective Tape on Jacks

The four outriggers that protrude beyond the side of the body shall be striped with white reflective tape. The tape shall be visible from the front or rear of the unit.

Reflective Stripe in Rubrail

The reflective stripe in the body rubrail shall be white.

CAB AND BODY STRIPE

A single Scotchlite stripe, up to 6 inches in width shall be installed on the cab and body . The stripe shall have a hockey style, Z or S style or any other customer specific design style.

The stripe shall be NFPA compliant and the size, color and location shall be as specified by the customer.

CAB AND BODY STRIPE [Qty: 2]

An additional Scotchlite stripe, up to 3 inches in width shall be installed on the cab and body.

The stripe shall be NFPA compliant and the design, size, color and location shall be as specified by the customer.

Scotchlite Cab Stripe

Scotchlite cab stripe shall be 3/4” in width. Stripe shall be centrally located and shall contour with the cab, following the paint break. Color of the stripe shall be as specified by the customer.

Front Bumper Reflective Striping

Chevron style Reflexite V98 striping shall be provided on the front bumper of the apparatus. The stripes shall consist of 6" Red/Fluorescent Yellow Green alternating stripes in an "A" pattern.

Rear Body Reflective Striping

Chevron style Reflexite V98 striping shall be provided on the rear of the apparatus. The stripes shall consist of 6" Red/Fluorescent Yellow Green alternating stripes in an "A" pattern. The striping shall be located on the rear facing extrusions, panels and doors inboard and outboard of the beavertails if applicable.

Designated Standing / Walking Area Indication

1" wide yellow perimeter marking consisting of individual Reflexite diamonds shall be applied to indicate the outside edge of designated standing and walking areas above 48" from the ground in compliance with NFPA 1900/1901. Steps, ladders and areas with a railing or structure at least 12" high are excluded from this requirement.

GRAPHICS

Graphics Drawing

A graphics drawing shall be provided for the apparatus. The drawing shall include striping, lettering and logos meeting NFPA guidelines. The drawing shall be presented for review and approval by the end user prior to application of the graphics.

Logo

A E-ONE logo with a grey background shall be provided on each of the rear vertical M6 tail light housings.

WARRANTY / STANDARD & EXTENDED

General 1 Year Warranty

Purchaser shall receive a General One (1) Year or 24,000 Miles limited warranty in accordance with, and subject to, warranty certificate RFW0001. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

Aerial Ladder Structural Warranty

Purchaser shall receive an Aerial Ladder Structure Twenty (20) Years or 100,000 Miles limited warranty in accordance with, and subject to, warranty certificate RFW0403. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

Body Structural (Aluminum) Warranty

Purchaser shall receive a Body Structure (Aluminum) Ten (10) Years or 100,000 Miles limited warranty in accordance with, and subject to, warranty certificate RFW0502. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

Plumbing and Piping (Stainless Steel) Warranty

Purchaser shall receive a Plumbing and Piping (Stainless Steel) Ten (10) Years or 100,000 Miles limited warranty in accordance with, and subject to, warranty certificate RFW0800. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

Meritor Rear Axle Warranty

A 5-year/unlimited miles, 5-year parts and 5-year labor rear drive single or rear drive tandem axle warranty shall be provided by Meritor Automotive.

Front Axle Warranty

A 5-year/unlimited miles, 5-year parts and 5-year labor front non-drive steer axle warranty shall be provided by Dana Corporation.

Custom Chassis Warranty

Purchaser shall receive a Custom Chassis One (1) Year or 18,000 Miles limited warranty in accordance with, and subject to, warranty certificate RFW0101. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

Electrical Warranty

Purchaser shall receive an Electrical One (1) Year or 18,000 Miles limited warranty in accordance with, and subject to, warranty certificate RFW0201. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

Cab Structural Warranty

Purchaser shall receive a Cab Structure Ten (10) Years or 100,000 Miles limited warranty in accordance with, and subject to, warranty certificate RFW0602. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

Paint and Finish Warranty

Purchaser shall receive a Paint and Finish Ten (10) Years limited warranty in accordance with, and subject to, warranty certificate RFW0710. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

Frame Rail Warranty

Purchaser shall receive a Frame Rail Lifetime (50) Years or 250,000 Miles limited warranty in accordance with, and subject to, warranty certificate RFW0305. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request

Emissions Systems Warranty

Purchaser shall receive a Regulated Emissions Systems Ten (10) Years or 450,000 Miles or 22,000 Engine Hours limited warranty in accordance with, and subject to, warranty certificate RFW0144. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request

Emissions Systems Warranty

Purchaser shall receive a Regulated Emissions Two (2) Years or 24,000 Miles limited tire warranty in accordance with, and subject to, warranty certificate RFW0145. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

Emissions Systems Warranty

Purchaser shall receive a Regulated Emissions Five (5) Years or 100,000 Miles limited AC system leak warranty in accordance with, and subject to, warranty certificate RFW0146. The

warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

SUPPORT, DELIVERY, INSPECTIONS AND MANUALS

Training

The manufacturer shall provide three (3) consecutive days of training covering vehicle maintenance and operational familiarization.

This training shall be provided by a full time, manufacturer employee trainer who specializes in aerial training.

Pump Panel Approval Drawing

A detailed large scale approval drawing of the pump panel(s) shall be provided. The drawing shall be provided on an purchased unit prior to the construction process.

Approval Drawings

A general arrangement drawing depicting the vehicles appearance shall be provided. The drawing shall consist of left side, right side, front, and rear elevation views.

Vehicles requiring pump controls shall include a general arrangement view of the pump operator`s position, scaled the same as the elevation views.

Approval Drawings - Dash Panel Layout

A detailed large scale approval drawing of the dash/console panel layout shall be provided. The drawing shall be provided on an purchased unit prior to the construction process.

Electronic Manuals

Two (2) copies of all operator, service, and parts manuals MUST be supplied at the time of delivery in digital format -NO EXCEPTIONS! The electronic manuals shall include the following information:

- Operating Instructions, descriptions, specifications, and ratings of the cab, chassis, body, aerial (if applicable), installed components, and auxiliary systems.
- Warnings and cautions pertaining to the operation and maintenance of the fire apparatus and firefighting systems.
- Charts, tables, checklists, and illustrations relating to lubrication, cleaning, troubleshooting, diagnostics, and inspections.
- Instructions regarding the frequency and procedure for recommended maintenance.
- Maintenance instructions for the repair and replacement of installed components.

- Parts listing with descriptions and illustrations for identification.
- Warranty descriptions and coverage.

The electronic document shall incorporate a navigation page with electronic links to the operator`s manual, service manual, parts manual, and warranty information, as well as instructions on how to use the manual. Each copy shall include a table of contents with links to the specified documents or illustrations.

The electronic document must be formatted in such a manner as to allow not only the printing of the entire manual, but to also the cutting, pasting, or copying of individual documents to other electronic media, such as electronic mail, memos, and the like.

A find feature shall be included to allow for searches by text or by part number.

These electronic manuals shall be accessible from any computer operating system capable of supporting portable document format (PDF). Permanent copies of all pertinent data shall be kept file at both the local dealership and at the manufacturer`s location.

NOTE: Engine overhaul, engine parts, transmission overhaul, and transmission parts manuals are not included.

Operator and Service Manual Additional

Electronic Manuals

One additional operator, service, and parts manuals will be provided in digital format.

Note: Engine overhaul, engine parts, transmission overhaul, and transmission parts manuals are not included.

Manuals Printed (1)

Printed Materials

One (1) individual binder shall be provided of the:

- Operation Manual.
- Service Manual.
- Parts Manual.

Each of these manuals shall be presented with a table of contents.

The manuals shall contain the following:

- Operating instructions.
- Descriptions, specifications.

- Ratings for the chassis.
- Installed components.
- Auxiliary systems.
- Warnings and cautions pertaining to the operation.
- Maintenance of the fire apparatus.
- Fire fighting systems.
- Charts, tables, checklists, and illustrations relating to lubrication, cleaning, troubleshooting, diagnostics, and inspections.
- Instructions regarding the frequency and procedure for recommended maintenance.
- Maintenance instructions for the repair and replacement of installed components.
- Parts listing with descriptions and illustrations for identification.

Note: Engine overhaul, engine parts, transmission overhaul, and transmission parts manuals are not included.

Fire Apparatus Safety Guide

Fire Apparatus Safety Guide published by FAMA, latest edition. This safety manual is intended to point out some of the basic safety situations that may be encountered during the normal operation and maintenance of a fire apparatus and to suggest possible ways of dealing with these situations. This manual is NOT a substitute for the E-ONE`s fire apparatus operator and maintenance manuals or commercial chassis manufacturer`s operator and maintenance manuals.

OAK BROOK FIRE DEPARTMENT

OAK BROOK, IL

QUOTE 151280

AERIAL BODY

E-ONE TYPHOON CHASSIS

CR100 AERIAL

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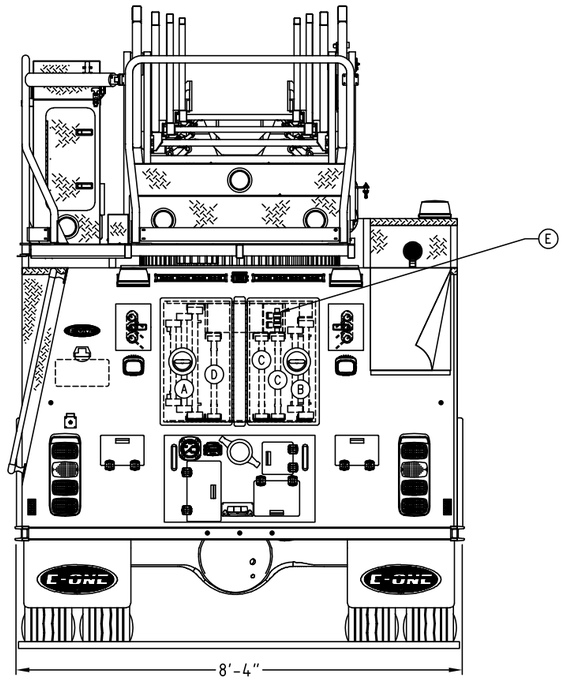
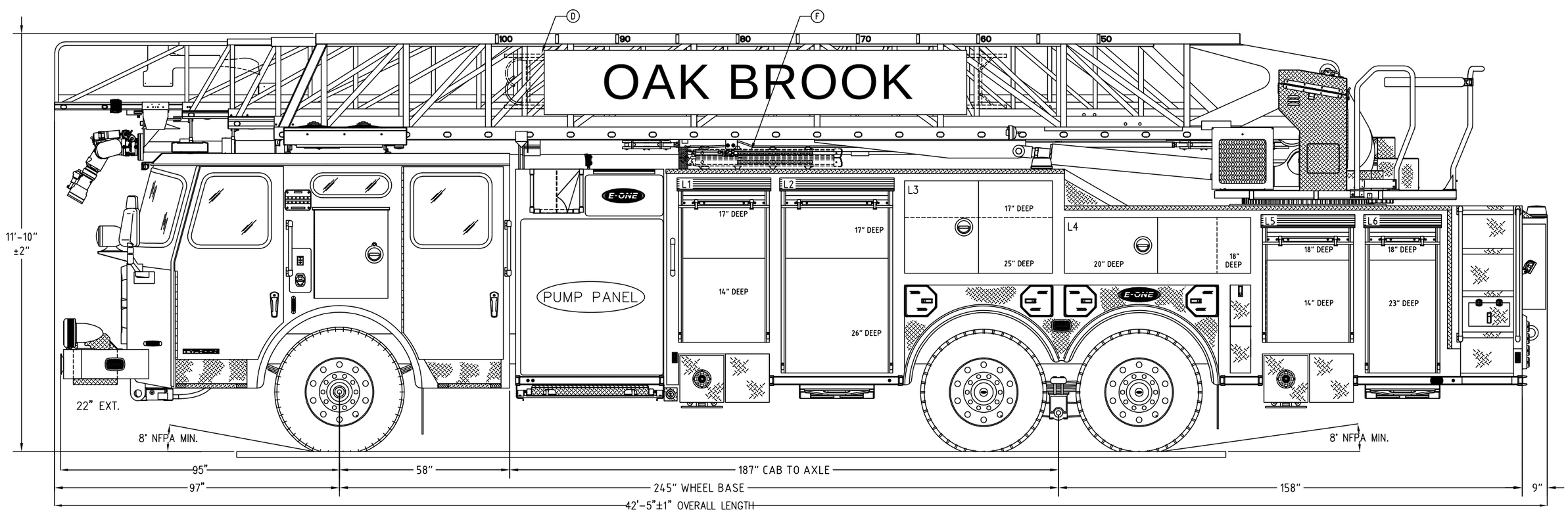
1500 GPM HALE QMAX PUMP 500 GALLON WATER TANK	HOSE LOAD: 550' OF 5.00" LDH 1000' OF 2.50" DJ

COMPT.	OPENING	INTERIOR DIMENSION
L1/R1	29W 46H	31W 26H 17D UPPER 31W 29H 14D LOWER
L2/R2	36W 56H	38W 26H 17D UPPER 38W 39H NOTED LOWER
L3	50W 31H	50W 12H 17D UPPER 50W 19H 26D LOWER
R3	31W 19H	30W 19H 14D
L4	63W 19H	63W 19H NOTED
R4	49W 30H	49W 30H 23D
L5	29W 42H	31W 14H 18D UPPER 30W 28H 14D LOWER
L6	23W 44H	25W 14H 18D UPPER 25W 38H 23D LOWER

GROUND LADDERS

ITEM	LADDER LENGTH	MODEL NUMBER	QTY	
A	35' 3–SECT.	PEL3–35	1	
B	28' 2–SECT.	PEL–28	1	
C	16' ROOF	PRL–16	2	
D	14' ROOF	PRL–14	2	ONE ON AERIAL
E	10' FOLDING	FL–10	1	
F	LITTLE GIANT	MODEL 17	1	





MNAVETTA	A	INITIAL REVIEW	2026-APR-14	MNAVETTA
DRAWN BY	REV	DESCRIPTION	DATE	APPROVED
		APPROVAL REVISIONS		SHEET 1 OF 2

OAK BROOK FIRE DEPARTMENT

OAK BROOK, IL

QUOTE 151280

AERIAL BODY

E-ONE TYPHOON CHASSIS

CR100 AERIAL

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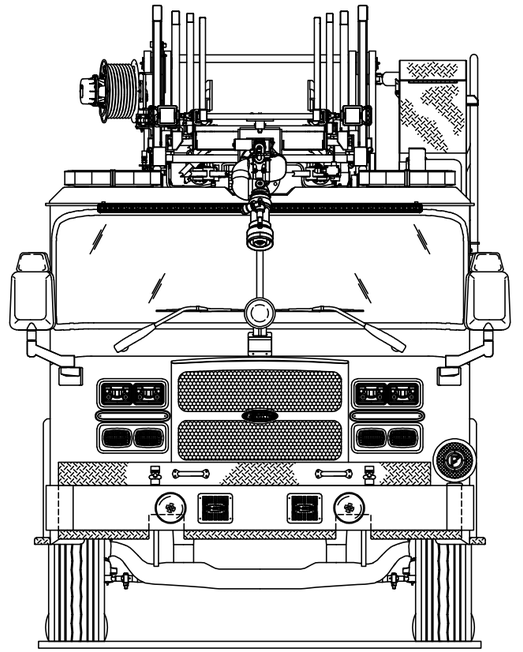
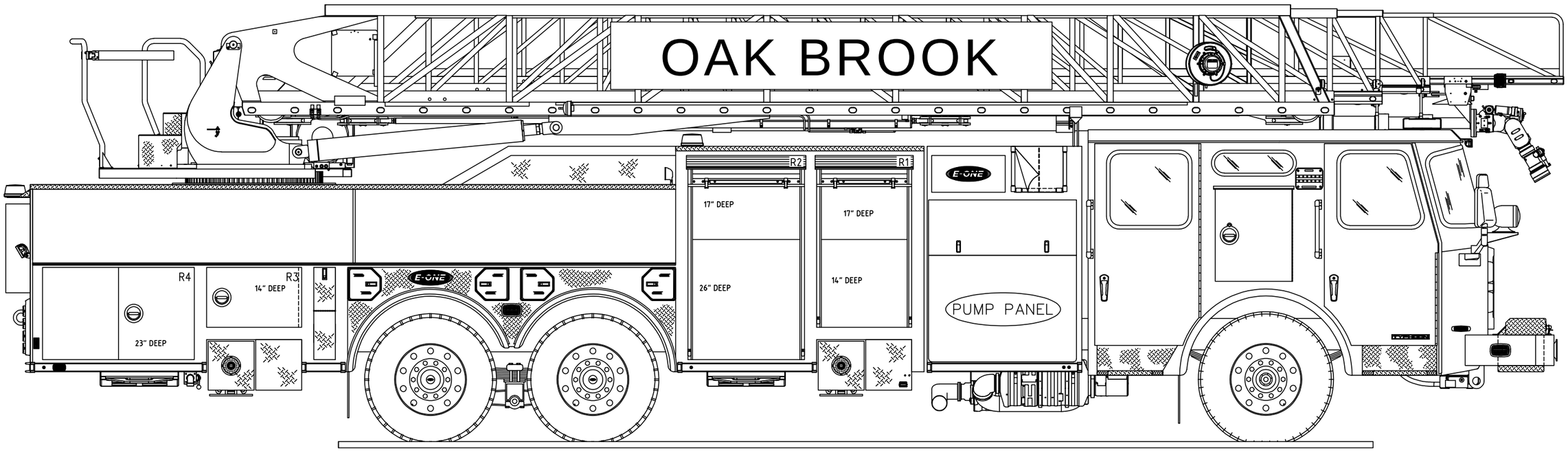
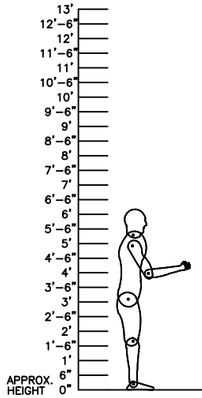
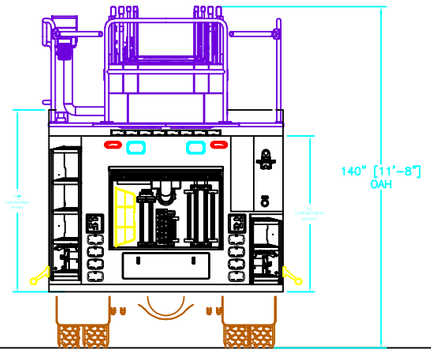


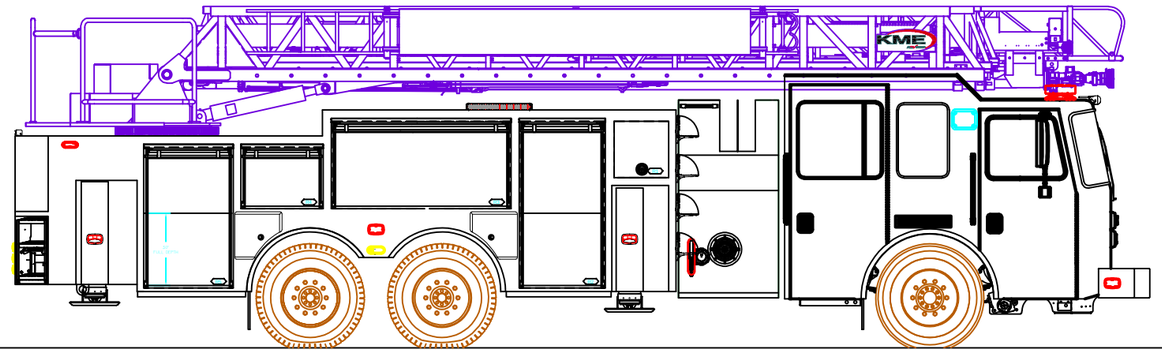


MNAVETTA	A	INITIAL REVIEW	2026-APR-14	MNAVETTA
DRAWN BY	REV	DESCRIPTION	DATE	APPROVED
		APPROVAL REVISIONS		SHEET 2 OF 2

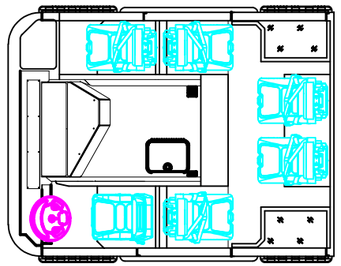


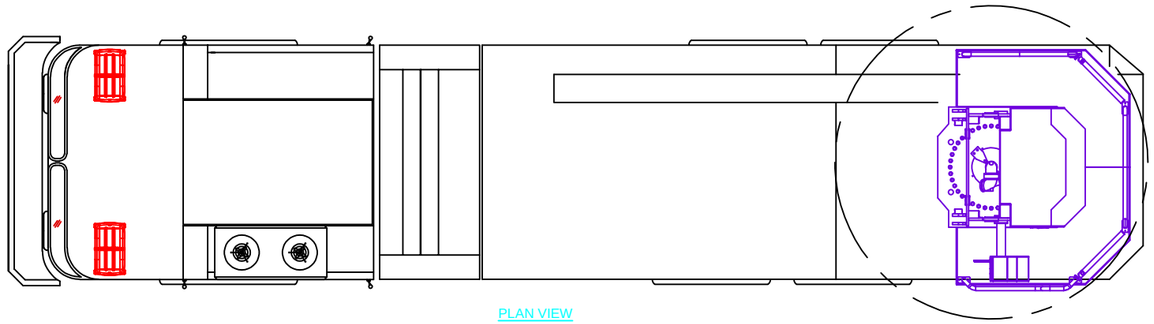


REAR VIEW

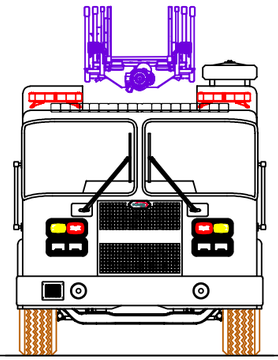


OFFICER'S SIDE VIEW

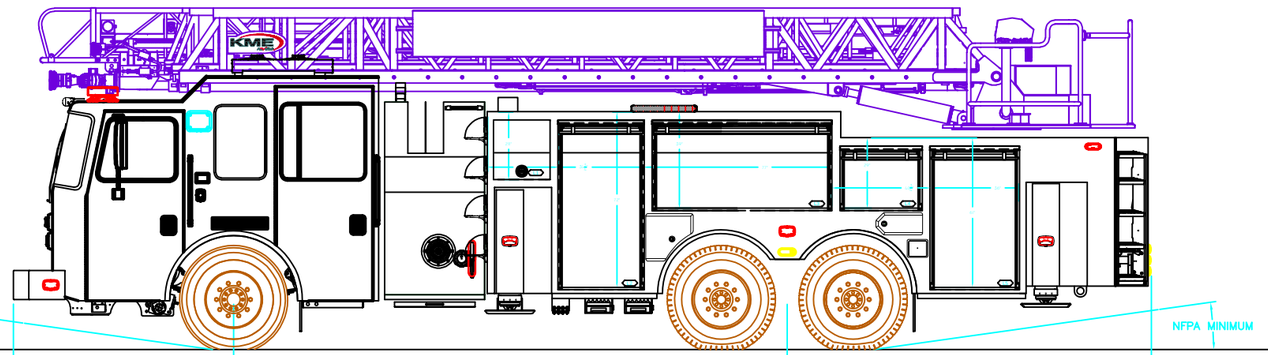




PLAN VIEW



FRONT VIEW



DRIVER'S SIDE VIEW

SYM	DATE	REVISION DESCRIPTION	APP'D

SALES ENGINEER : TBD

DIMENSIONS ARE APPROXIMATE & MAY VARY DUE TO BUILD ADJUSTMENTS

SCALE	DWG SIZE	DRAWN BY	DATE
NONE	B	Z.ZSCHUNKE	01/27/24
		APPROVED BY Z.ZSCHUNKE	

103' REAR MOUNT LADDER

GROSSE ILE, MI

GSO 11575

KME
REV GROUP
KME
ONE INDUSTRIAL COMPLEX - NESQUEHONING, PA 18240

KME FIRE APPARATUS

KME Retail Unit

Quote # QUO0000007486 (Rev 1)

June 1, 2022

GSO# 11575

Prepared For:

KME Retail Unit

,

Phone:

Presented By:

KME

One Industrial Complex

Nesquehoning, PA 18240

Phone: 1-800-235-3928

PO00025823 - DESIGN CLAUSE

QTY: 1.00

These specifications outline the components, installation methods, and operational characteristics KME is agreeing to provide in order to meet the purchaser's requirements. Subject to the terms of the purchase agreement, other construction details not explicitly listed in these specifications will be determined at the discretion of the builder. In the event the purchaser desires a different construction or installation not already described in these specifications, additional charges may apply, and quoted lead time commitments will be adjusted.

PO00024988 - VEHICLE TRANSPORTATION - DEALER PROVIDED

QTY: 1.00

Transportation for the completed vehicle from KME Fire Apparatus in Nesquehoning, PA to the end user shall be provided by the sales representative.

PO00010976 - MATERIAL & WORKMANSHIP

QTY: 1.00

All equipment furnished shall be guaranteed to be new and of current manufacture, to meet all requirements of these specifications.

All workmanship shall be of high quality and accomplished in a professional manner so as to insure a functional apparatus with a pleasing, aesthetic appearance.

PO00010978 - CONTRACT ADMINISTRATOR

QTY: 1.00

The successful bidder shall designate a contract administrator to provide a single point interface between the purchaser and the contractor on all matters concerning the contract.

PO00010979 - APPROVAL DRAWING

QTY: 1.00

A detailed drawing of the apparatus shall be provided to the purchaser for approval before construction begins. A copy of this drawing shall also be provided to the manufacturer's representative. Upon purchaser's approval, the finalized drawing shall become a part of the total contract.

The drawing shall show, but is not limited to, such items as the chassis make and model, major components, location of lights, sirens, all compartment locations and dimensions, special suctions, discharges, etc. The drawing shall be a visual interpretation of the apparatus as it is to be supplied.

PO00010981 - DELIVERY

QTY: 1.00

Delivery of the apparatus to the customer shall remain the bidder's responsibility.

On initial delivery of the fire apparatus, a qualified and responsible representative of the contractor shall demonstrate the apparatus and provide initial instruction to representatives of the customer regarding the operation, care, and maintenance of the apparatus and equipment supplied.

PO00010984 - PA STATE INSPECTION

QTY: 1.00

The completed vehicle should include an annual safety inspection sticker on the windshield as required by the Pennsylvania Department of Transportation.

PO00010988 - EXACT BLUEPRINT WITH BID

QTY: 1.00

A scale drawing of the specific apparatus being proposed shall be submitted WITH THE BID.

Drawings of similar units or demo units shall not be permitted.

Bidders should be clear that this provision is requiring a SCALE drawing of the truck which is actually being bid.

The drawing shall be done at the manufacturer's facility by the manufacturer's engineering department in order to guarantee the accuracy of the drawing.

Failure to comply with this requirement shall be grounds for rejection of the bid!

PO00010990 - FAMA MEMBERSHIP

QTY: 1.00

The apparatus manufacturer must be a current member of the Fire Apparatus Manufacturer's Association (FAMA).

PO00010992 - MANUFACTURED IN UNITED STATES

QTY: 1.00

The entire apparatus shall be assembled within the borders of the Continental United States to insure more readily available parts (without added costs and delays caused by tariffs and customs) and service.

PO00010994 - TABLE OF CONTENTS

QTY: 1.00

As all manufacturers present their specifications in a different order, each manufacturer shall provide a table of contents for ease of bid comparison and to clearly locate all proposed items.

PO00010997 - AMP DRAW REPORT

QTY: 1.00

The bidder shall provide with their bid proposal and at the time of delivery, an itemized print out of the expected amp draw of the entire vehicle's electrical system.

A written load analysis, which shall include the following:

- The rating of the alternator.
- The minimum continuous load of each component that is specified per: Applicable NFPA-1901.
- Additional loads that, when added to the minimum continuous load, determine the total connected load.
- Each individual intermittent load.

All of the above listed items shall be provided by the bidder per the applicable NFPA-1901.

PO00011001 - COOPERATIVE PURCHASING

QTY: 1.00

The Manufacturer shall be pleased to allow other public agencies to use the purchase agreement resulting from this invitation to bid unless the bidder expressly notes on the proposal form that prices are not available for tag-on.

The condition of such use by other agencies shall be that any such agency must make and pursue contact, purchase order/contract, and all contractual remedies with the successful bidder.

Such tag-ons shall be done so that the original purchasing agency has no responsibility for performance by either the manufacturer or the agency using the contract.

PO00011002 - PRODUCTION LEVEL ELECTRICAL DRAWINGS

QTY: 1.00

KME shall provide production level harness drawings for the specific unit to be built.

PO00011072 - TOP OF THE LINE CHASSIS - MULTIPLEX

QTY: 1.00

Bidders shall propose a custom built chassis, which is "Top of the Line" and includes an integrated multiplexed electrical system. NO EXCEPTIONS!

PO00011181 - COMPLETION INFORMATION

QTY: 1.00

The contractor shall supply, at the time of delivery, at least one (1) copy of the following documents.

- Owners name and address Apparatus manufacturer, model and serial number
- Chassis make, model and serial number
- Front tire size and total rated capacity in pounds
- Rear tire size and total rated capacity in pounds
- Chassis weight distribution in pounds with water and manufacturer mounted equipment, front and rear
- Engine make, model, serial number, rated horsepower, rated speed and governed speed
- Type of fuels and fuel tank capacity
- Electrical system voltage and alternator output in amps.
- Battery make, model and total capacity in cold crank amps (CCA)
- Transmission make, model, and serial number. If so equipped chassis transmission PTO(s) make, model and gear ratio
- Pump make, model, rated capacity in gallons per minute (liters per minute where applicable) and serial number
- Pump transmission make, model, serial number and gear ratio
- Auxiliary pump make, model, rated capacity in gallons per minute (liters per minute where applicable) and serial number
- Water tank certified capacity in gallons or liters
- Paint manufacturer and paint number(s)
- Company name and signature of responsible company representative
- Certification of slip resistance of all stepping, standing and walking surfaces.

If the apparatus has a fire pump or an industrial supply pump, the pump manufacturer's certification of suction capability.

If the apparatus has a fire pump or an industrial supply pump, a copy of the apparatus manufacturer's approval for stationary pumping applications.

If the apparatus has a fire pump or an industrial supply pump, the engine manufacturers certified brake horsepower curve for the engine furnished, showing the maximum governed speed.

If the apparatus has a fire pump or an industrial supply pump, the pump manufacturers certification of hydrostatic test.

If the apparatus has a fire pump or an industrial supply pump, the third party certification of inspection and test for the fire pump (if applicable).

If the apparatus has an aerial device the third party certification of inspection and test for the aerial device.

If the apparatus has an aerial device, all the technical information required for inspections to comply with NFPA 1911, Standards for Testing Fire Department Aerial Devices.

If the apparatus has a fixed line voltage power source, the certification of the test for the fixed power source (if applicable).

If the apparatus is equipped with an air system, test results of the air quality, the SCBA fill station, and the air system installation.

Weight documents from certified scale - showing actual loading on the front axle, rear axle(s) and overall vehicle (with the water tank full but without personnel, equipment and hose) shall be supplied with the complete vehicle to determine compliance with NFPA-1901.

Written load analysis and results of electrical performance tests.

If the apparatus is equipped with a water tank, the certification of water tank capacity by the tank manufacturer.

PO00011182 - FMVSS REQUIREMENT

QTY: 1.00

The chassis shall be certified by the apparatus manufacturer as conforming to all applicable Federal Motor Vehicle Safety Standards in effect at the date of contract.

This shall be attested to by the attachment of a FMVSS certification label on the vehicle by the contractor who shall be recognized as the responsible final manufacturer.

PO00011183 - RECORDS

QTY: 1.00

The successful bidder shall be responsible for preparing and maintaining a record file of parts and assemblies used to manufacture the apparatus.

These records shall be maintained in the factory of the bidder for a minimum of twenty (20) years.

File shall contain copies of any and all reported deficiencies, all replacement parts required to maintain the apparatus, and original purchase documents including specifications, contract, invoices, incomplete chassis certificates, quality control reports and final delivery acceptance documents.

The {Company} shall have access to any and all documents contained in this file upon official written request.

PO00011186 - GENERAL CONSTRUCTION

QTY: 1.00

The complete apparatus, assemblies, subassemblies, component parts, etc., shall be designed and constructed with the due consideration to the nature and distribution of the load to be sustained and to the general character of the service to which the apparatus is to be subject.

All parts of the apparatus shall be designed with a factor of safety, which is equal to or greater than that which is considered standard and acceptable for this class of equipment in fire fighting service.

All parts of the apparatus shall be strong enough to withstand general service under full load.

The apparatus shall be so designed that the various parts and readily accessible for lubrication, inspection, adjustment and repair.

Bidder's specifications must meet minimum requirements of N.F.P.A. Pamphlet #1901 and all State and Federal Department of Transportation vehicle regulations at time of sale of unit.

The apparatus shall be designed and constructed, and the equipment so mounted, with due consideration to distribution of the load between front and rear axles that all specified equipment, including a full complement of specified ground ladders, full water tank, loose equipment, and firefighters shall be carried without overloading or injuring the apparatus.

PO00011188 - PRODUCT LIABILITY

QTY: 1.00

Each bidder shall supply proof of product liability and facility insurance equal to or exceeding $30,000,000.00.

This shall be provided as part of the proposal. There will be no exceptions.

PO00011190 - CODE & CONFORMANCE - AERIAL

QTY: 1.00

The aerial ladder shall be designed to conform to the intent of NFPA 1901 Standard for Automotive Fire Apparatus.

The following additional design criteria shall be applicable to this specification to the extent specified herein:

- American Society for Testing and Materials (ASTM) A-36 Specification for Structural Steel
- Society of Automotive Engineers, Inc. (SAE) SAE Hand-book American Welding Society (AWS)
- AWS014.4-77 Classification and Application of Welded Joints for Machinery and Equipment
- American Society of Non-Destructive Testing (ASNT) ASNT Guidelines; Procedure SNT-TC-1 A.

The aerial device shall be designed, fabricated, and tested in accordance with these codes and specifications.

PO00011192 - PAINT CERTIFICATION

QTY: 1.00

The finish paint shall be certified by the apparatus manufacturer as conforming to all applicable Commercial Vehicle Paint Standards in effect at the date of contract.

This shall be attested to by the attachment of a Sikkens certification.

PO00023879 - PRICES & PAYMENTS

QTY: 1.00

The bid price will be F.O.B. Destination, on a delivered and accepted basis at the Fire Department.
Total price on KME's proposal sheet will include all items listed in these specifications.
KME has computed pricing less federal and state taxes. It is understood that any applicable taxes will be added to the proposed prices, unless the purchaser furnishes appropriate tax-exempt forms.

PO00025825 - INSTRUCTION MANUALS - TWO (2) SETS - USB

QTY: 1.00

In accordance with standard commercial practices, applicable to each vehicle (including body and special equipment) furnished under the contract, the following listed manuals and schematics, in the quantity specified, shall be provided at time of delivery of each vehicle.

The contractor shall supply at time of delivery, two (2) USB copies of a complete operation and service manual covering the complete apparatus as delivered and accepted.

The manual shall contain the following:

- Descriptions, specifications, and ratings of chassis, pump (if applicable), and aerial device
- Wiring diagrams
- Lubrication charts
- Operating instructions for the chassis, any major components such as a pump and any auxiliary systems
- Instructions regarding the frequency and procedures recommended for maintenance
- Parts replacement information

PO00010995 - NFPA CERTIFICATION

QTY: 1.00

The proposed apparatus will be constructed to withstand the severe and continuous use encountered during emergency fire fighting services.

The apparatus will be of the latest type, carefully designed and constructed with due consideration to the nature and distribution of the load to be sustained.

This proposal details the general design criteria of cab and chassis components, aerial device (if applicable), fire pump and related components (if applicable), water tank (if applicable), fire body, electrical components, painting, and equipment.

All items of these proposal specifications will conform to the fullest extent possible with the National Fire Protection Association Pamphlet No. 1901, latest edition, except as noted in the Statement-of-Exceptions.

KME will furnish satisfactory evidence of our ability to construct, supply service parts and technical assistance for the apparatus specified.

PO00011070 - GENERAL INFORMATION - NFPA 1901

QTY: 1.00

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KME will furnish satisfactory evidence of our ability to construct, supply service parts and technical assistance for the apparatus specified.

PO00026614 - NFPA TREAD PLATE STEPPING/STANDING/WALKING SURFACE CERTIFICATION

QTY: 1.00

All stepping, standing, and walking surfaces on the body shall meet NFPA #1901 anti-slip standards.

Aluminum tread plate utilized for stepping, standing, and walking surfaces shall be NFPA embossed compliant.

Upon request by the purchaser, the manufacturer shall supply proof of compliance with this requirement.

PO00026616 - VERTICAL TREAD PLATE - NON-EMBOSSED

QTY: 1.00

The following vertical surfaces on the vehicle (if applicable) shall have non-embossed tread plate:

To include but not limited to:

- Rear of cab overlay
- Rear body overlay
- Front of body overlay
- Front pump house panel
- Custom cab step well
- Fender overlay
- Fender compartment doors
- Interior cab trim
- Upper body walkway walls
- Rescue body interior (walk-In/walk through)

PO00011005 - "AERIAL FIRE APPARATUS" NFPA 2016 CHAPTERS OF COMPLIANCE

QTY: 1.00

The unit shall be designed to conform fully to the "Aerial Fire Apparatus" requirements as stated in the NFPA 1901 Standard (2016 Revision), which shall include the following required chapters as stated in this revision:

- Chapter 1 Administration
- Chapter 2 Referenced Publications
- Chapter 3 Definitions
- Chapter 4 General Requirements
- Chapter 8 Aerial Fire Apparatus
- Chapter 12 Chassis and Vehicle Components
- Chapter 13 Low Voltage Electrical Systems and Warning Devices
- Chapter 14 Driving and Crew Areas
- Chapter 15 Body, Compartments and Equipment Mounting
- Chapter 19 Aerial Devices

PO00011169 - NFPA "CHAPTER 16" FIRE PUMP REQUIREMENTS

QTY: 1.00

Chapter 16 Fire Pump and Associated Equipment

PO00011171 - NFPA "CHAPTER 18" {WATER TANKS} REQUIREMENTS - 2016

QTY: 1.00

Chapter 18 Water Tanks

PO00025814 - THIRD PARTY TESTING

QTY: 1.00

If required by the specific chapters of NFPA-1901, the proposed unit shall be tested and certified by independent third party inspectors.

All test work for fire pumps outlined in NFPA 1901, Edition shall be conducted.

The third party inspectors shall provide the manufacturer a complete written examination and test report for each inspection performed at the manufacturer's facility.

This report specifies the points of inspection and results of such examinations and tests.

The inspectors performing the test work on the units are certified to Level II in the required NDT methods, under the requirements outlined in ASNT document CP-189.

The actual person(s) performing the inspection shall present for review proof of Level II Certification in the required NDT methods.

The apparatus manufacturer shall designate, in writing, who is qualified to witness and certify these test results.

Prior to submittal to the automotive fire apparatus manufacturer, the final Report shall be reviewed by the Supervisor of Fire Equipment Services and a Registered Professional Engineer, both of whom are directly involved with the aerial device certification program.

When the unit successfully meets all the requirements outlined in NFPA 1901, current edition, the third party inspector shall issue a Certificate of Automotive Fire Apparatus Examination and Test stating the unit's compliance with NFPA- 1901.

PO00025688 - SEVERE SERVICE CAB - BASE, 96" - S2020

QTY: 1.00

The cab shall be a custom tilt style, built specifically for fire service.

The cab shall be a cab over engine design, with integral tilt mechanism and engine access from inside the cab.

The cab interior shall be the "Open-Space" design with no wall, window or vertical support posts between the front and rear crew areas to allow direct communication, better visibility and air circulation in the cab.

PO00001589 - PREDATOR CAB - BASE -ALUMINUM CONSTRUCTION

QTY: 1.00

The cab shall be fabricated from 5052-H 32 aluminum alloy, utilizing the minimum material thickness as follows:

- Cab side panels 0.125 thick (1/8")
- Cab roof 0.125 thick (1/8")
- Forward cab front sheet 0.125 thick (1/8")
- Interior cab panels 0.125 thick (1/8")
- Other panels 0.125 thick (1/8")
- Cab doors 0.1875 thick (3/16")
- Engine enclosure side panels 0.250 thick (1/4")

Cab, sub-frame shall be a welded assembly, fabricated of 6063 structural aluminum alloy. This frame shall extend the full length and width of the cab and be secured to the chassis frame through two (2) rear, urethane, self centering load cushions, two (2) forward pivot brackets, and two (2) cab locks. The cab shall be of entirely welded construction.

The front cab wall shall be of double wall type construction, featuring an inner and outer panel. {No Exceptions}

PO00010251 - SEVERE SERVICE 96" - CRASH TESTING

QTY: 1.00

To ensure the safety of the cab occupants and cab integrity, proof of third party testing shall be provided.

The cab shall be certified for SAEJ2422 side impact, SAEJ2420 with ECER29 cab front impact, and ECER29 cab roof strength.

PO00024130 - DIMENSIONS – EXTENDED MEDIUM FOUR DOOR STYLE CAB - 96"

QTY: 1.00

Minimum Cab Dimensions:

- Overall width 96"
- Inside width of ceiling 88"
- Front area floor to ceiling 59-3/4"
- Top of front seat to ceiling 42" (depending upon seat type)
- Seat back to steering wheel 21-1/4" (depending upon seat type)
- Inside width (door to engine enclosure) 25-1/4" (driver's side, at the floor)
- Inside width (door to engine enclosure) 22" (officer's side, at the floor)
- Crew seat area width 88"
- Front cab floor to top of engine enclosure 27”
- Front cab floor to top of center dash 34-3/4”
- Outer crew seat risers to rear wall 38-1/2"
- Centerline axle to rear wall 59-1/2"

Glass Area Dimensions:

- Windshield (Contour) 3,122 sq. in.
- Side door window, retractable 625 sq. in. each
- Side fixed crew windows 550 sq. in. each

PO00012638 - RM 10" RAISED ROOF W/10" NOTCH OVER CREW

QTY: 1.00

Cab Entry Door Width Dimensions:

Forward door opening 40" wide
Rear door opening 37" wide

Cab Entry Step Dimensions:

Forward door recessed step 30" wide x 9" deep
Rear door recessed step 29" wide x 9" deep

Cab Entry Door Height Dimensions:

Forward door opening 74-1/4" high
Rear door opening 84-1/4" high

The roof will be of a split level design with radius edges for an aesthetic, streamline appearance. The roof shall be constructed the same material as the main structure and shall be internally reinforced using framing which shall span the entire width and length of the cab for maximum structural integrity. This shall allow the roof to support personnel and roof mounted equipment without the need for additional reinforcement.

The cab roof over the rear crew area shall be raised ten (10) inches higher than the front driver and officer area. The front face of the raised roof section shall be sloped at a 45 degree angle, creating a streamlined interface with the standard, lower, forward roof section. This design shall allow for additional interior height in the rear crew area.

The rear crew area doors shall be "Vista-Style", extending full height to the radius edge of the raised roof.

Approximate dimensions:

Crew area floor to ceiling 61 1/2"
Top of crew seat to ceiling 45" (depending upon seat type)

The center roof section over the rear seating area shall be notched to the level of the front roof section to accommodate the aerial device.

PO00012643 - 52" WIDE NOTCH AERIAL RAISED ROOF OPT

QTY: 1.00

The raise roof notch shall be 52" wide to accommodate the aerial device.

PO00009790 - TREAD PLATE OVERLAY ON CAB ROOF

QTY: 1.00

A bright finish tread plate overlay shall be placed on the cab roof.

This overlay shall be placed on the raised roof section, or if a flat roof cab is being utilized, from the area of the “B” post area-rearward, and extending back to the end of the cab roof.

This tread plate overlay shall be sealed with caulking around the edges to prevent moisture from entering the area between the cab roof and the overlay.

PO00026120 - POLISHED ALUMINUM EXTRUSION DRIP RAIL ON SIDE OF CAB - BONDED

QTY: 1.00

For enhanced protection from inclement weather, an addtional drip rail shall be furnished on each side of the cab. The drip rail shall be constructed of bright polished extruded aluminum, and be fastened to the sides of the cab roof edge.

PO00010670 - CAST ANTI-SLIP ENTRY STEPS FOR FULL LENGTH DOORS

QTY: 1.00

Each of the forward entrance steps shall be a minimum of 8-1/2" deep x 32" wide with the floor board recessed a minimum of 5" to avoid "shin knocking".

Each step shall be a bolt-in cast aluminum step.

The cab steps risers shall be overlaid with bright finish tread plate.

Each of the rear entrance steps shall be a minimum of 8-1/2" deep x 32" wide.

An intermediate step shall be provided between the lower entrance step and the crew area floor for ease of entry and egress.

Each upper section of the steps and respective step risers shall be constructed as an integral part of the cab construction and shall be overlaid with bright finish tread plate.

Each lower step shall be a bolt-in cast aluminum step.

PO00012134 - BATTERY ACCESS DOORS - REAR STEP WELLS, EACH SIDE

QTY: 1.00

The battery access door(s) shall be 1/8" tread plate, drop down doors with thumb latches at each side rear cab step well.

PO00001618 - FULL LENGTH CAB DOORS, 96" PREDATOR SS "X-MFD, LFD & X-LFD"

QTY: 1.00

Four (4) side-opening doors shall be provided. The cab doors shall be totally constructed of aluminum with an extruded aluminum frame and an aluminum outer door skin. Doors shall be full height from the step to the cab roof extrusion and enclose the step area when the doors are closed. The forward cab door opening shall be a minimum of 37" wide and the rear cab door opening shall be a minimum of 37" wide. The rearward cab doors shall have a radius cutout allowing the door opening to protrude forward over the cab wheel well, while providing full access to the rear crew area. There shall be a heavy duty, piano type, stainless steel hinge on each door with a minimum pin diameter of 3/8". Hinges shall be slotted for ease of horizontal and vertical adjustment. There shall be a cab door seal and the doors shall close flush with the side of the cab. A heavy duty 6" wide belting material shall be utilized to prevent the cab doors from opening greater than 90 degrees.

PO00010705 - CAB DOOR INSULATION - PREDATOR/SEVERE SERVICE

QTY: 1.00

A 1/4" insulation panel shall be installed in each cab door. This insulation panel shall provide an additional acoustical barrier as well as help with heating/cooling properties of the apparatus.

PO00012478 - PREDATOR SS DOOR LATCHES, HD CASTED LATCH - FULL LENGTH DOORS

QTY: 1.00

Heavy-duty, bright finish cast paddle latches shall be provided on the interior and exterior of each cab door.

Door latch mechanisms which utilize spring steel clamps shall not be considered due to their tendency to both rust and break.

The interior door latch cables/rods are to be designed to reduce adjustment or possible wear at the adjustment turnbuckles.

PO00012476 - KEY MODEL #751

QTY: 1.00

The specified door lock cylinder/s shall be equipped with #751 key/s.

PO00001654 - ELECTRIC WINDOWS, FOUR (4) DOORS

QTY: 1.00

Each side cab door shall have a tinted retractable window. The window track shall be designed into the door frame extrusion, which shall be extruded with a track groove to house a window track and seal. The window shall be capable of being removed from an access slot designed in the bottom of the door frame.

All side cab doors shall be equipped with electrically operated windows. Power window controls for all doors shall be provided on the driver's lower wing dash panel. The officer side power window control shall be on the officer's lower wing dash panel.

The control for each rear door shall be a rocker type, automotive style switch located on the inside door panel within easy reach.

PO00001661 - FULL HEIGHT INTERIOR DOOR PANELS - BRUSH STAINLESS

QTY: 1.00

The cab door interior panels shall be covered with a brushed stainless steel panel, at full height.

The panel shall be 16 gauge stainless steel with a brushed finish and shall be designed to allow easy access to the inner door.

PO00024908 - ORALITE CHEVRONS ON INTERIOR OF CAB DOOR PANELS

QTY: 1.00

Four (4) Oralite chevron reflective signs shall be installed on the lowest portion of the inner door panels.

There will be one (1) on each door. These chevrons shall cover at least 96^2 in.

PO00010708 - POLISHED S/S SCUFF PLATES @ EACH CAB DOOR FRAME AND JAMB

QTY: 1.00

A polished stainless steel trim plate shall be provided rearward of each cab door opening to protect the vertical cab corner rearward of the door opening and on the cab door striker posts to protect the cab paint when exiting and entering the cab.

PO00010305 - WINDSHIELD, 96" CAB

QTY: 1.00

A two piece, symmetrical, safety glass windshield shall be provided on the cab for the driver and officer providing a clear viewing area.

The windshields shall be full width to the center of the front cab support for each side and provide the occupants with a panoramic view.

To provide enhanced peripheral vision on each side of the cab, the windshield and cab structure shall be designed with radius corners, which provide a minimum of 8" of glass area, measured from the glass face to the side edge near the door post.

The windshield shall consist of three (3) layers; the outer light, the middle safety laminate and the inner light.

The thick outer light layer shall provide superior chip resistance, the middle safety laminate layer shall prevent the windshield glass pieces from detaching in the event of breakage and the inner light shall provide yet another chip resistant layer.

The windshield will be a contour design with 3122 sq. in. of area for improved visibility and style.

The windshield glass shall be designed so it can be used on either the driver or officer side.

Single piece windshields that utilize epoxy or that are bonded to the cab structure shall not be acceptable.

PO00025682 - WINDSHIELD WIPERS & WASHERS - 96"

QTY: 1.00

Dual, electric operated, pantographic type windshield wipers shall be provided.

One (1) electric drive motor shall be provided for each wiper. Wipers shall have "HI/LO" and "INTERMITTENT" operating speeds.

"HI/LO" speeds shall be controlled by a steering column control, within the turn signal control stem.

"INTERMITTENT" operation shall be controlled by a twist switch within the control on the steering column.

The wipers shall be of the self-parking type.

Windshield washers shall be electric operated wet-arm type with a 3/4 gallon washer fluid reservoir, mounted behind a hinged access door in the officer side front cab step well area. The fluid level shall be visible through a cutout in the access door. This door shall be secured with two thumb latches.

The washer control shall be integral with the intermittent wiper control switch.

There shall be individual removable panels on the front face of the cab for access to the wiper motor assemblies.

Windshield wipers shall survive testing in excess of 3 million cycles in accordance with section 6.2 of SAE J198 “Windshield Wiper Systems – Trucks, Buses and Multipurpose Vehicles”.

The bidder shall certify that the wiper system design has been “Third party tested” and that the wiper system has met this criteria.

PO00010308 - SIDE VIEWING WINDOWS NON-SLIDING

QTY: 1.00

A fixed, tinted window with 620 sq. in of glass area shall be provided on each side of the cab behind the forward cab doors.

This window will be the same height as the window in the rear cab door for maximum visibility.

PO00001688 - DARK TINT WINDOWS, SIDE VIEWING, REAR DOORS & REAR WALL

QTY: 1.00

The windshield and the forward cab door glass shall be provided with standard DOT, green automotive tint.

If provided, the side cab windows to the rear of the front doors, the rear cab door windows, and any rear viewing windows shall be equipped with a dark, automotive tint.

PO00001694 - GRAB RAILS EXTERIOR, HANSEN KNURLED STAINLESS STEEL TYPE

QTY: 1.00

Hansen 1-1/4" diameter x 28" long, knurled stainless steel, grab rails shall be provided.

There will be one (1) at each cab door entrance.

Grab rail stanchions shall be chrome plated and of an offset design when necessary to prevent "hand-pinching" when opening or closing the doors.

Formed rubber gaskets shall be provided between each stanchion base and the cab surface.

PO00001704 - PREDATOR SS INTERIOR GRAB HANDLES - WHEELABRATED

QTY: 1.00

Grab rails shall be provided to assist in entry and exiting of the cab. Each grab rail shall be a cast aluminum "D" style handle that shall have a wheelabrated finish and shall be located in the following locations:

- One (1) 11" long, horizontally mounted on each front cab door on the interior door panel
- One (1) 11" long, horizontally mounted on each rear cab door on the interior door panel

PO00010631 - INTERIOR GRAB RAILS -REAR CREW DOORS-BALL-BURNISHED

QTY: 1.00

One (1), horizontally mounted, on each rear cab door, located at the same height as the window in the lowered position.

PO00010617 - FRONT CAB GRILLE - SQUARE POLISHED STAINLESS STEEL

QTY: 1.00

A square mirror finished stainless steel grille shall be installed to allow for maximum air flow to the charge air cooler and the radiator. The top of the grille will have a flat area for the manufacturers emblem.

A four (4) inch wide solid band shall extend across the middle of the grill for lettering or lighting options.

PO00010622 - FRONT CAB GRILLE SCREEN - BLACK MESH

QTY: 1.00

A mesh bug screen shall be provided behind the front grill assembly to protect the radiator from bugs and other debris.

The screen shall be secured to the front of the cab by button snaps, behind the main grill.

PO00025607 - SIDE CAB GRILLES -RECTANGLE STAINLESS STEEL

QTY: 1.00

Two (2) rectangle, mirror finished stainless steel air inlets/outlets shall be provided horizontally above the wheel well opening, one on each side of the cab.

The grilles shall be equipped with a mesh screen to serve as a secondary ember separator.

The design shall permit proper ducting of air through the engine compartment and cooling system.

This system shall be such that particles larger than .039 inches (1 mm) in diameter cannot reach the air filter element.

PO00010591 - TREAD PLATE OVERLAY, EXTERIOR REAR WALL

QTY: 1.00

A bright finish tread plate overlay shall be provided over the entire exterior rear cab wall.

The tread plate overlay shall be sealed with caulking around the edges to prevent moisture from getting between the cab and the overlay.

PO00001718 - CAB WHEEL WELL LINERS - ALUMINUM

QTY: 1.00

The front cab, wheel wells shall be equipped with fully removable bolt-in aluminum inner wheel well liners.

The liners shall extend full depth into the truck frame.

The completely washable wheel well liners shall be designed to protect the cab substructure, inner panels, and other miscellaneous installed components from road salts, debris, dirt accumulation and corrosion.

PO00001721 - STAINLESS STEEL CAB FENDERETTES

QTY: 1.00

The cab wheel well openings shall be trimmed with replaceable, bolt-in, polished stainless steel fenderettes.

The fenderettes shall be secured to the cab with stainless steel threaded fasteners along the internal perimeter of the wheel well.

Dissimilar metal tape and black vinyl trim molding shall be used where the cab and fender meet.

PO00010933 - FRONT MUD FLAPS

QTY: 1.00

Heavy duty, black rubber type mud flaps shall be provided behind the front wheels.

PO00025675 - RETRAC MIRRORS, HEATED, REMOTE CONTROLLED W/ INTEGRAL CONVEX

QTY: 1.00

Two (2) Retrac 613305 mirrors shall be furnished, one on each front cab door.

Each mirror shall have a 14-1/2 x 8 flat glass, upper head and a 4-1/2 x 8 convex lower head, mounted in a one piece, chrome plated housing.

Each head will be electrically heated and motorized with controls on the driver's lower wing panel.

The upper, flat glass portion as well as the lower convex section shall be electrically controlled from the drivers seating position.

The stainless steel, loop mounting bar shall be installed on the forward portion of each front door in front of the side windows, with an upper and lower mounting bracket.

PO00025677 - MIRROR CONTROL

QTY: 1.00

In addition to the switches on the driver's lower wing panel, the mirror position and heat (if applicable) controls shall be programmed into the multiplex control screen.

PO00011715 - DOOR WIDTH, X-MFD, LFD & X-LFD - 96" SEVERE SERVICE - 37"

QTY: 1.00

Cab Entry Door Width Dimensions;

- Forward door opening 37" wide
- Rear door opening 37" wide

Cab Entry Step Dimensions:

- Forward door recessed step 30" wide by 8-1/2" deep
- Rear door recessed step 20" wide x 8-1/2" deep

PO00010643 - INTERIOR TRIM- GRAY DURAWEAR

QTY: 1.00

The cab interior shall be constructed to create an ergonomically designed interior to be user friendly and functional for the driver and officer.

All interior upholstery panels shall be gray in color.

The upholstered cab overhead and side wall portions shall utilize Durawear upholstery with padding underneath to provide additional insulation.

PO00002964 - INTERIOR CAB WALL GRAY DURAWEAR UPHOLSTERY

QTY: 1.00

The interior rear wall of the cab shall be covered with gray Durawear for durability and shall match the other upholstered areas of the cab.

PO00010318 - BARYFOL FLOORING

QTY: 1.00

The floor of the driver’s compartment and the floor of the crew area shall be lined with Baryfol vinyl composite flooring to comply with NFPA noise and heat requirements.

PO00010317 - 1" ACOUSTICAL INSULATION

QTY: 1.00

One (1) inch thick acoustical insulation shall be provided on the cab roof, rear and side walls of the cab.

This material shall be fitted between the cab structural members and secured with adhesive to provide an insulation barrier for noise and heat.

PO00011708 - ENGINE ENCLOSURE 96" PREDATOR SS (DURAWEAR)

QTY: 1.00

The forward portion of the engine enclosure shall be covered with a Durawear material formed overlay to match the balance of the cab interior. To allow maximum "elbow room" for the driver and officer, the forward portion of the engine enclosure shall feature a contour shape. The engine enclosure shall not significantly obstruct the driver's vision in any direction. The enclosure shall be an integral part of the cab structure, which shall be constructed from material providing adequate strength to support radio, map boxes, etc. The engine enclosure shall be insulated to protect from heat and sound. The noise insulation shall keep the DBA level within the limits stated in the current NFPA series 1901 pamphlet.

PO00026126 - S2020 ENGINE ENCLOSURE ACCESS

QTY: 1.00

A composite, hinged access door shall be provided in the top rearward portion of the engine enclosure. The door shall allow access to the engine oil, transmission fluid, power steering fluid level dipsticks. The access door shall be provided with a flush mounted latch. The underside of the access door shall be insulated.

PO00026118 - HD MILCUT SOUNDPROOFING/ INSULATION PACKAGE UNDER ENGINE ENCLOSURE

QTY: 1.00

The underside of the engine enclosure shall be overlaid with Milcut, MilShield insulation. MilShield can withstand temperatures up to 1300°F. To ensure a clean, smooth surface, this material shall have a heavy aluminum foil covering and shall be retained by aluminum panels fastened to the cab structure as needed. Any gaps in this insulation barrier shall be sealed with 3M #425 aluminized high temperature tape.

PO00011646 - HD SOUNDPROOFING/INSULATION BETWEEN UPHOLSTERY & ENGINE ENCLOSURE

QTY: 1.00

To further reduce the noise and heat levels inside the cab, 1/4" foam upholstery material shall be installed on all interior surfaces of the engine enclosure, below the upholstery material.

SPECIAL: SP00013113 - ASYMMETRICAL DASH CENTER CONSOLE

QTY: 1.00

The dash shall be a custom formed asymmetrical center three piece design, vinyl overlaid aluminum housing that creates an ergonomically designed interior that is user friendly and functional for the driver and officer.

The cab dash access panel will have two thumb latches for securement to match GSO 11360.

The instrument cluster shall be centered in front of the driver and all gauges shall be installed in a non-glare, pewter finish panel.

All warning lights and indicators shall be located in either the gauge itself or in the warning light cluster located in the lower center portion of the dash.

Each gauge shall be equipped with an international symbol that is easily recognizable, denoting the system being monitored.

Instrumentation shall be backlit for easy identification.

PO00012473 - SUN VISORS, PREDATOR CAB, DARK POLYCARBONATE

QTY: 1.00

To provide maximum protection for the driver and officer, two (2) dark polycarbonate sun visors shall be mounted in the cab overhead on each side.

PO00024654 - OVERHEAD PANEL, FABRICATED CENTER THREE WING PANEL

QTY: 1.00

An overhead console with a center three piece removeable panel assembly shall be provided on the cab roof between the driver and officer to permit installation of the multiplex smaller sized control screens and other components as space allows.

The overhead console shall be painted to match the interior of the cab.

The overhead console shall not obstruct the driver's vision through the officer's side window.

PO00012071 - SEAT AND SEAT BELT ANCHOR TESTING

QTY: 1.00

Each seat belt anchor shall be tested to withstand 3,000lbs of pull on both the lap and shoulder belt in accordance with FMVSS 210 section 4.2.

Each seat mounting position shall be tested to withstand 20G's of force in accordance with FMVSS 207 section 4.2(c).

Both tests shall be performed and verified at a third party testing and evaluation center.

PO00011311 - STORAGE COMPARTMENTS UNDER FRONT SEATS

QTY: 1.00

There shall be a compartment provided under each front seat.

Each compartment shall be accessible from the front of the seat riser when the door is opened.

PO00001779 - DRIVERS SEAT, VALOR AIR SUSPENSION, ABTS

QTY: 1.00

The driver's seat shall be a Valor, air suspension, race back bucket ABTS LH seat.

The seat shall have a contoured and padded seat cushion with adjustable lumbar support.

The seat shall have a horizontal, slide adjustment and a vertical height adjustment with an adjustable back recline.

The seat air suspension shall be pneumatically controlled from a switch on the forward, lower edge of the seat.

The seat shall be equipped with a red, integrated, 3-point shoulder harness with a lap belt, and a dual retractor belt configuration.

It should have ready reach built into the seat assembly.

PO00001841 - OFFICERS SEAT, VALOR - FIXED BASE, SCBA, ABTS

QTY: 1.00

The officer's seat shall be a Valor, ABTS RH series, fixed base SCBA seat.

The seat shall have a contoured and padded seat cushion.

The seat shall include a SCBA storage area with integral headrest.

The seat shall be equipped with magnetic, SCBA strap holders which secure the SCBA straps.

The seat shall be equipped with a red, integrated, 3-point shoulder harness with lap belt, and a dual retractor belt configuration with ready reach built into the seat assembly.

PO00001847 - IMMI - SMARTDOCK- SCBA BRACKET - OFFICER SEAT

QTY: 1.00

The seat shall include a SmartDock Gen II bottle bracket.

PO00022634 - VALOR - HORIZONTAL SLIDE ADJUSTMENT - OFFICERS SEAT

QTY: 1.00

The officer's seat shall be equipped with a horizontal slide adjustment six (6) inches on center.

PO00001866 - OUTBOARD REAR FACING DRIVERS SIDE SEAT - VALOR DYNAMIC CAVITY SCBA, ABTS

QTY: 1.00

The driver's side, outboard, rear facing crew seat shall be a Valor ABTS RH series fixed base SCBA seat.

The seat shall have a contoured and padded seat cushion with a dynamic, SCBA cavity that adjusts rearward with each occupant to properly seat them against the bolster and headrest.

The seat shall be equipped with magnetic, SCBA strap holders which secure the SCBA straps.

Limiting straps shall be provided as a standard feature to allow the adjustment of the dynamic cavity enclosure.

The seat shall be equipped with a red, integrated, 3-point shoulder harness with lap belt, and a dual retractor belt configuration with ready reach built into the seat assembly.

PO00001871 - IMMI - SMARTDOCK- SCBA BRACKET - OUTBOARD DRIVER SIDE

QTY: 1.00

The seat shall include a SmartDock GenII bottle bracket.

PO00001890 - VALOR SCBA ABTS REAR FACING, OUTBOARD, OFFICER SIDE

QTY: 1.00

The officer's side, outboard, rear facing crew seat shall be a Valor ABTS LH series, fixed base SCBA seat.

The seat shall have a contoured and padded seat cushion with a dynamic, SCBA back frame that adjusts rearward with each occupant to properly seat them against the bolster and headrest.

The seat shall be equipped with magnetic, SCBA strap holders which secure the SCBA straps.

The seat shall be equipped with a red, integrated, 3-point shoulder harness with lap belt, and a dual retractor belt configuration with ready reach built into the seat assembly.

PO00001895 - IMMI - SMARTDOCK- SCBA BRACKET - OUTBOARD OFFICER SIDE - SEATS INC

QTY: 1.00

The seat shall include a SmartDock GenII bottle bracket.

PO00023973 - (2) - VALOR SCBA ABTS FORWARD FACING, CENTER

QTY: 1.00

Two (2) center inboard forward facing crew seats shall be provided. Each seat shall be a Valor ABTS series SCBA seat. The seats shall have a contoured and padded seat cushion with a dynamic SCBA back frame that adjusts rearward with each occupant to properly seat them against the bolster and headrest. The seats shall be equipped with magnetic SCBA strap holders which secure the SCBA straps. Limiting straps shall be provided as a standard feature to allow the adjustment of the dynamic back.

The seats shall be equipped with a red integrated 3-point shoulder harness with lap belt, and a dual retractor belt configuration with ready reach built into the seat assembly.

PO00022708 - FLIP UP SEAT, FORWARD FACING, (2) CENTER

QTY: 1.00

The two (2) center inboard forward facing crew seats shall have a flip-up style seat.

PO00022799 - IMMI - SMARTDOCK- SCBA BRACKET - (2) CENTER FORWARD

QTY: 1.00

Each seat shall include a SmartDock GenII bottle bracket.

PO00002002 - CENTER SEAT BASE WITH COMPARTMENTS. - PAINT DOORS - BOLT IN - MFD, XMFD

QTY: 1.00

The center, forward facing seats shall be mounted on an aluminum riser that shall be mounted in the center of the cab.

The riser shall match the interior of the cab and shall have individually painted compartment doors with latches, in order to provide additional storage space in the cab.

PO00024054 - SEAT ADJUSTMENT NOTICE

QTY: 1.00

If equipped, adjustable seats may be limited by outside factors such as optional installed equipment (ie. ems compartments, battery chargers, SCBA cylinder brackets) and seat placement.

PO00008888 - VALOR SEATING MATERIAL - BLACK CORDURA

QTY: 1.00

The seats shall be upholstered with Black Cordura material with black stitching as provided by Valor.

PO00025679 - CLASS ONE VEHICLE DATA RECORDER

QTY: 1.00

A Class 1 Vehicle Data Recorder (VDR) system shall be provided.

The system shall include an NFPA compliant, "Black Box" with reporting software that shall be capable of data storage to coincide with the NFPA requirements.

Data storage capabilities shall include interfaces with the following systems:

- Display module (Master Optical Warning Device)
- VDR, date time stamp
- Max Vehicle speed (MPH)
- Vehicle acceleration / deceleration (MPH/Sec.)
- Engine Speed (RPM)
- ABS event
- Data password protected
- Data sampled once per second, in 48-hour loop
- Data sampled min by min for 100 engine hours
- Throttle position (% of Throttle)
- Data software
- PC / Mac Compatible
- Data summary reports

The VDR data shall be downloadable by USB cable to a computer using either Microsoft or Apple operating systems.

PO00025680 - CLASS ONE SEAT BELT WARNING SYSTEM - UP TO 6 POSITIONS

QTY: 1.00

The apparatus shall be equipped with a Class 1, seat belt warning system.

The system shall consist of a seat belt module and shall display the seating positions through the main, UltraView screen.

PO00010780 - SIX (6) SEATING POSITIONS

QTY: 1.00

Seat belt and seat cushion sensors shall be provided on the six (6) specified seating positions.

PO00010640 - DRINK HOLDER - DRIVER AND OFFICER

QTY: 1.00

A single drink holder shall be installed on each side of the engine enclosure, convenient to the driver and the officer.

PO00010690 - COMPUTER TERMINAL IN FRONT OF OFFICER

QTY: 1.00

There shall be a flat working surface area in front of the officer.

PO00025609 - HEATER/DEFROSTER & ACCESSORIES, RAISED ROOF

QTY: 1.00

A climate-control system shall be provided for total cab environmental comfort as well as provide heat, cooling and defrost capabilities to various areas in the cab.

The system shall consist of a single evaporator unit, mounted in the center overhead of the cab.

The ceiling mounted external evaporator/heater unit shall include the following:

- Heavy-duty, high output blower.
- High efficiency coil that includes "rifled" tubing and oversized header tubes for maximum refrigerant distribution.
- Four (4) 2" diameter, adjustable louvers; two (2) each side of the cab overhead, facing the driver and officer seat positions.
- Six (6) larger louvers evenly spaced, forward of the overhead assembly, facing the windshield.
- Multi-vent defroster louvers positioned above the windshield will provide adequate airflow for windshield defrost.
- Four (4) lower vents shall be provided, one (1) below the driver and officer seat positions and one (1) under each outboard rear facing crew seat.
- • Twelve (12) vents shall be provided on the HVAC unit for crew comfort.
- Damper controls shall be pneumatically operated to provide air discharge to the windshield, front overhead air discharge louvers as required.
- An adjustable electric water valve to control the amount of heat.
- Housing shall be fully insulated and enclosed.
- BTU: 53,500 A/C
- BTU: 69,300 Heat
- CFM: 680 Heat as mounted in the cab
- CFM: 680 A/C as mounted in the cab

The ceiling mounted evaporator unit/s shall be designed with an ergonomically designed cover to provide maximum headroom and a pleasing appearance with a crinkle coat texture and include a deep well condensate collection pan, which shall be drained by a gravity system into the rear corners of the engine compartment utilizing stainless steel drain poles.

Evaporator units shall be mounted on the cab roof, enclosed by aluminum panels painted white. The evaporator louvers and controls shall penetrate the cab roof into occupant compartments to the least extent practicable. Evaporator units shall be mounted on the cab ceiling, enclosed by a black painted aluminum cover.

A serviceable foam intake filter shall be installed on the rear of the evaporator.

All defrost/heating systems will be plumbed with one (1) seasonal shut-off valve mounted in the officer side wheel well area.

A 12-volt roof top dual condenser shall be mounted on the cab roof. The condenser shall be designed with high performance, long life fan assemblies with sealed housings and shaft. The condenser and coil design shall include rifled tubing for maximum efficiency. Each coil shall be painted black. The condenser unit must include a receiver drier with a high and low pressure switch. The wire harness shall include necessary wiring for the clutch circuit as well as a separate power relay circuit.

Mounting design shall enable easy servicing of all components and unit replacement if necessary.

The system shall utilize one (1) Valeo TM-31 HD engine mounted compressor driven by a Poly “V” serpentine belt installed in accordance with the manufacturer's requirements. The system shall use R134a refrigerant. The air conditioner lines shall be EATON GH001 EverCool SAE J2064 Type E hose secured using EATON E-Z Clip system components.

Air conditioning hoses shall be #10 hose for discharge and #12 hose for suction with steel hose and end fittings provided at the compressor. The heater hose installation shall not incorporate a copper tube manifold.

The air conditioning system shall be configured to only operate when the vehicle's engine is running. The blowers, in both evaporators, shall be in operation whenever the air conditioning system is activated.

Heater-defroster shall have a three-speed electric fan with illuminated controls. The controls system shall actuate the air-distribution system with air cylinders, which are to be separated from the air brake system by an 85-90 psi pressure protection valve.

The 12-volt system for the air conditioners shall have first priority to be load managed.

The heater/defroster unit shall clear the windshield in half-the-time required by SAE standards.

PO00002176 - PAINT ROOF MOUNTED AIR CONDITIONER UNIT

QTY: 1.00

The roof mounted, air conditioning, condenser housing(s) shall be painted to match the cab roof color.

PO00025689 - HVAC CONTROLS

QTY: 1.00

HVAC controls shall be provided on the driver's overhead wing panel, consisting of a mode selector control, front fan speed, rear fan speed, air conditioning on/off and temperature range selection.

The controls shall be clearly labeled, adequately backlit.

The multiplex system control screen shall also contain all controls for the cab HVAC control system.

PO00026197 - ACTIVE AIR PURIFICATION SYSTEM

QTY: 1.00

An Active Air Purification system shall be provided. The system utilizes RGF's Photohydroionization® Cell (PHI-Cell®) technology which produces hydro-peroxides, and hydroxide ions. The resulting Advanced Oxidation Process reduces airborne mold, bacteria, viruses and odors up to 99%.
The unit shall have a stainless steel housing and contain a fan to move air across the PHI cell and out of the housing.
The system shall be wired to the vehicle 12 volt system. The unit shall be powered on either when the shore power is connected or the apparatus ignition power is switched on. The air purification system shall be installed in the crew area as specified.

PO00010681 - CAB TILT SYSTEM

QTY: 1.00

A hydraulic cab lift system shall be provided, consisting of an electric-powered hydraulic pump, fluid reservoir, dual lift cylinders, remote cab lift controls and all necessary hoses and valves.

The cab tilt mechanism shall be custom designed for ease of maintenance and consist of two (2) hydraulic cylinders connect to the cab and the frame assembly.

Hydraulic lines shall be rated at 20,000 PSI burst pressure.

The hydraulic cylinders shall be equipped with a velocity fuse that protects the cab from accidentally descending when the cab is in the tilt position.

Hydraulic cylinders shall be detachable to allow removal of the engine for major service.

A remote cable operated mechanical cylinder stay bar and release shall be provided to insure a positive lock in the tilted position.

The two (2) rear cab latches shall be of the hydraulic pressure release, automatic re-latching type and provide an automatic positive lock when the cab is lowered.

The tilt pump shall be electric over hydraulic type, with a pressure rating of not less than 4,000 PSI. Additionally, the cab tilt device shall be both electrically and hydraulically interlocked to prevent inadvertent activation of the cab tilt system.

- A "CAB NOT LATCHED" indicator shall be provided in the cab dash-warning cluster.
- A dual switch control system shall be provided for the cab tilt, located on the passenger side of the vehicle or on the optional tether control. System shall consist of two (2) position toggle switch along with a rubber covered push button momentary switch, which must be activated for the cab to raise or lower.

PO00002182 - AUXILIARY - MANUAL CAB LIFT BACKUP SYSTEM

QTY: 1.00

An auxiliary, manual cab, lift backup system shall be furnished inside the passenger side of the pump enclosure or front compartment for use in the event of total electrical shutdown.

The removable handle shall be provided as loose equipment.

PO00002188 - AERIAL LADDER/CAB TILT INTERLOCK, REARMOUNTS ONLY

QTY: 1.00

The cab tilt control shall be equipped with an interlock.

This shall disable the cab tilt system in the event the aerial device is not raised from the bedded position.

PO00024080 - 110,000 PSI FRAME: AERIAL TRIPLE FRAME RAIL

QTY: 1.00

The chassis frame shall be assembled in its entirety at the manufacturer's facility. This will prevent any split responsibility for warranty or service.

The frame shall consist of two (2) channels fastened together by cross members. All structural fasteners used in the frame shall be Grade 8 hardware. Hardened steel washers shall be used under all bolt heads and nuts to avoid stress concentrations. Top flange shall be free of bolt heads. All spring hangers shall be machined steel castings. Frame assemblies that are welded or assembled with “Huck” type fasteners are not acceptable.

Each main frame rail shall be 10-1/4" x 4" x 3/8", fabricated from Domex™ 110,000 PSI minimum yield steel, with a minimum section modulus of 18.396 cu in and a resisting bending moment (RBM) of 2,023,560 inch pounds. Frames are built for the specific apparatus under construction so that no unnecessary holes or modifications are made to the frame assembly.

A full length inner frame liner shall be installed. Total section modulus of each rail, with liner, shall be 33.555 cu in and the total resisting bending moment (RBM) shall be a minimum of 3,691,050 in-lbs, per rail.

A third inner frame liner shall be provided between the front and rear axle spring hangers. Total section modulus of each rail, with both liners, shall be 42.180 cu in and the total resisting bending moment (RBM) shall be 4,639,800 in-lbs, per rail.

The chassis frame assembly, consisting of frame rails, cross members, axles and steering gear(s), shall be finish painted before installation of any electrical wiring, fuel system components, or air system components. All components or brackets fastened to the frame rails shall be cleaned, primed and painted prior to being attached to the frame rails.

PO00023914 - AERIAL TRAVEL SUPPORT

QTY: 1.00

An aerial travel support for the aerial device shall be provided and located as close to the front axle as possible.

PO00002195 - BUMPER 12" PAINTED 3/8" STEEL BUMPER - ALL CABS

QTY: 1.00

A 12" high, 101" wide, painted, steel, front bumper shall be provided.

The bumper shall be constructed from 3/8 inch steel, which shall be designed with 45-degree, welded corners and a 2" flange on the top and bottom.

The ends of the bumper shall be supported by horizontal channels, which shall extend from the frame rails to the sides of the bumper.

The color of the bumper shall match the cab and body base color.

PO00002201 - 16" FRONT BUMPER EXTENSION WITH TREAD PLATE GRAVEL SHIELD

QTY: 1.00

The bumper shall be extended 16" with a polished aluminum, tread plate, gravel shield enclosing the top and ends.

PO00002315 - TOW FORK - TOW EYE PROVISION

QTY: 1.00

Two (2) heavy duty, tubular, steel, towing forks shall be bolted to the underside of the frame drop at the front of the chassis.

They are incorporated into forks which shall have two (2) painted steel tow eyes.

The forks shall be shaped like an upside down "U" to act as a designated hookup point to accept a tow bar from a service vehicle.

The robust design shall allow a disabled vehicle to be lifted and towed without doing damage to the bumper or bumper mounted options.

PO00024468 - 20,000# FRONT AXLE STEERTEK, DISC BRAKES

QTY: 1.00

The Steertek NXT front axle beam shall be rated to carry 20,000 lbs. and consist of a fabricated box cross section construction with 100ksi plate and a continuous beam architecture to minimize stress points for added durability.

The axle shall incorporate a removable kingpin feature for ease of kingpin serviceability. The knuckles shall allow for compatibility with disc brakes mounted at the 12 o'clock position and with drum brakes, and allow for wheel cut up to 45 degrees. They shall also utilize premium kingpin bushings and seals to provide enhanced protection from the elements to improve bushing life. Oil seals with viewing window shall be provided.

The suspension shall consist of multi-leaf parabolic springs rated at 20,000 lbs with double wrapped front eye that are packaged within an integrated clamp group that allows for ease of OEM assembly on to the axle beam and reduced part count. The clamp group bolts are tightened on the top of the clamp group opposed to the traditional U-bolt on the bottom making it easier to access with a torque wrench for servicing. The spring shall also include a lower shock attachment with an upturned eye. The springs will contain threaded pin bushings to allow simplification of spring alignment as well as long service life and improved ride quality. The suspension and spring geometry will be optimized to provide improved bump steer and Ackermann. Two ZF Sachs twin-tube shocks shall be provided with the front suspension assembly. The shocks shall be specially developed for parabolic leaf springs with a digressive characteristic curve using a patented piston system. The shocks shall feature multi-stage piston and base valves. The combination of valves shall achieve the desired damping characteristics that are ideal for the application.

Meritor EX-225 H, 17" disc brakes shall be provided for the front axle.

The front brakes shall be full air actuated with automatic, slack adjustment.

PO00010598 - STEERING - DUAL SHEPPARD POWER STEERING GEARS

QTY: 1.00

A dual power steering system shall be provided utilizing a Sheppard model #M110 main steering gear on the driver side of the chassis and a Sheppard model #M90 steering gear on the officer side of the chassis.

The power steering gear on the officer side of the chassis shall increase performance in turning the officer side wheel assembly, reducing loads and forces on the main gear and components.

The steering system shall be designed to maximize the turning capabilities of the front axle no matter the rating and tire size.

The use of a power assist cylinder on the officer side of the chassis is NOT ACCEPTABLE on front axles of this capacity.

The system shall be designed utilizing an engine driven hydraulic pump, with a maximum operating pressure of 2000 PSI.

Steering system components shall be mounted in accordance with the steering gear manufacturer's instructions.

PO00010603 - STEERING COLUMN - CLOCK SPRING "NARROW"

QTY: 1.00

The steering column shall be a “Douglas Autotech” tilt and telescope column.

A lever mounted on the side of the column shall control the tilt and telescope features.

The steering shaft from the column to the miter box shall have a rubber boot to cover the shaft slip and a second rubber boot to seal the passage hole in the floor.

There shall be a ergonomically designed, self-canceling lever, that shall control the following functions:

- Left and right turn signals
- High beam activation
- Two speed with intermittent windshield wiper control
- Windshield washer control

PO00010604 - 18" STEERING WHEEL - 4 SPOKE - "NARROW"

QTY: 1.00

The steering wheel shall be a four (4) spoke, vinyl padded, minimum 18" diameter, with a center hub mounted horn button.

PO00002384 - 54,000# TANDEM REAR AXLE MERITOR RT-52-185

QTY: 1.00

Rear axle assembly shall be a tandem, Meritor RT-52-185 single reduction with a capacity of 54,000 lbs. Axles shall have a gear reduction as required.
A driver controlled Inter-Axle Differential Lock (IAD), shall allow drive shaft torque to be split equally between both rear axles. The IAD can be used at all speeds and for long periods depending on weather conditions such as rain or snow. This feature shall be disengaged during normal driving. An electric over air-operated switch and an indicator light shall be provided in the cab dash.
Oil seals shall be provided as standard equipment.

PO00002390 - 16.5" X 8.6" S-CAM BRAKES - MERITOR REAR TANDEM W/ AUTO SLACK ADJUSTERS

QTY: 1.00

Brakes shall be "S" Cam, 16-1/2" x 8 5/8" size and shall be full air actuated with automatic, slack adjusters.

PO00023915 - VEHICLE TOP SPEED NFPA STATEMENT

QTY: 1.00

The rear axle/s (will/shall) be geared for a vehicle top speed in accordance with NFPA sections 4.15.2 and 4.15.3.

Units with GVWR over 26,000 pounds (will/shall) be limited to 68 mph. If the combined tank capacity is over 1250 gallons of foam and water or the GVWR is over 50,000 pounds, the vehicle top speed (will/shall) be limited to 60 mph or the fire service rating of the tires, whichever is lower.

******SPECIAL: SP00002660 - HENDRICKSON ULTIMAAX RUBBER BLOCK SUSPENSION, TAND***

QTY: 1.00

A Hendrickson ULTIMAAX rubber block suspension system shall be provided for the tandem rear axle assembly. The suspension shall have a weight rating equal to the rear axle weight rating up to 54,000 pounds.

The ULTIMAAX suspension system utilizes a VariRate rubber spring system to balance empty ride quality and loaded stability. It has diagonally mounted rubber bolster springs that act in compression and sheer to deliver ride quality by dissipating road shock, while its extra wide spring centers and auxiliary springs shall provide stability under challenging conditions.

PO00002489 - FRONT WHEELS, DURABRIGHT ALUMINUM, 22.5 X 12.25

QTY: 1.00

The front wheels shall be 22.5" x 12.25" ten stud, hub piloted, DuraBright aluminum disc type.

PO00002491 - FRONT WHEELS, LUG AND HUB TRIM (ALUMINUM WHEELS)

QTY: 1.00

The front wheels shall be provided with bright, nut covers and hub caps.

PO00002512 - FRONT, MICHELIN 425/65R22.5 L 24,396# XFE WB HIGHWAY - 65 MPH

QTY: 1.00

The front tires shall be Michelin 425/65R22.5, "20 Ply", tubeless, radial XFE, wide base highway tread. The tires shall be fire service rated up to 24,396 lbs and shall have a top speed of 65 mph when inflated to 120 psi.

PO00010775 - CHASSIS WHEEL ALIGNMENT PRIOR TO DELIVERY

QTY: 1.00

The custom chassis shall have a wheel alignment in order to achieve maximum vehicle road performance and to promote long tire life.

The alignment shall conform to the manufacturer's internal specifications.

All wheel lug nuts and axle U-bolt retainer nuts shall be tightened to the proper torque at the time of the alignment.

Wheel alignment documentation shall be made available at delivery.

PO00002550 - REAR WHEELS, DURABRIGHT ALUMINUM, 22.5 X 9, TANDEM AXLE

QTY: 1.00

The tandem, rear axle wheels shall be 22.5" x 9" ten stud, hub piloted, DuraBright aluminum disc type.

PO00002554 - REAR WHEELS, LUG AND HUB TRIM, TANDEM AXLE (ALUMINUM)

QTY: 1.00

The tandem, rear aluminum disc wheels shall be provided with bright, nut covers and hub caps.

PO00002602 - REAR, MICH 315/80R22.5 L 70,792# X WORKS Z TRACTION - 65 MPH, TANDEM AXLE

QTY: 1.00

The rear tires shall be Michelin 315/80R22.5, "20 Ply", tubeless, radial, X Works Z, traction tread.

The tires shall be fire service rated up to 70,792 lbs and shall have a top speed of 65 mph when inflated to 130 psi.

PO00002626 - TIRE PRESSURE MONITORING - LED VALVE STEM CAPS - TEN TIRES

QTY: 1.00

Each tire shall be equipped with an LED tire alert pressure management system (Vecsafe equal) that shall monitor tire pressure. A chrome plated brass sensor shall be provided on the valve stem of each tire.

The sensor shall calibrate to the tire pressure when installed on the valve stem for pressures between 20 and 120 psi.

The sensor shall activate an integral battery operated LED when the pressure of that tire drops 8 psi.

PO00010545 - BRAKE SYSTEM, TANDEM AXLE CHASSIS

QTY: 1.00

A dual circuit, air operated braking system, meeting the design and performance requirements of FMVSS -121 and the operating test requirements of NFPA 1901 current edition shall be installed.

It shall be direct air type with dual air treadle in the cab. The system shall be powered by an engine mounted, gear driven air compressor protected by a heated air dryer.

The compressor discharge shall be plumbed with stainless steel braided hose lines with a Teflon lining.

All air lines shall be secured with non-conductive, corrosion resistant strapping mounted with standoff fasteners.

Cord reinforced rubber hose lines shall be installed from a bulkhead in the the frame rails to brake chambers.

The air system shall provide a rapid air build-up feature and low-pressure protection valve with light and buzzer, designed to meet the requirements of NFPA 1901, current edition.

PO00010547 - ABS BRAKING FOR TANDEM REAR AXLE CHASSIS

QTY: 1.00

An Anti-Skid Braking System (ABS) shall be provided to improve braking control and reduce stopping distance. This braking system shall be fitted to all of the axles. All electrical connections shall be environmentally sealed, water, weatherproof, and vibration resistant.

The system shall constantly monitor wheel behavior during braking. Sensors on each wheel shall transmit wheel speed data to an electronic processor which shall sense approaching wheel lock causing instant brake pressure modulation up to 5 times per second in order to prevent wheel lockup. Each wheel shall be individually controlled.

To improve service trouble shooting, provisions in the system for an optional diagnostic tester shall be provided. The system shall test itself each time the vehicle is started. A dash-mounted light shall go out once the vehicle has attained 4 mph after successful ABS start-up. A warning light shall signal malfunction to the operator. The system shall consist of a wheel mounted toothed ring, sensor, sensor clip, electronic control unit and solenoid control valve. The sensor clip shall hold the sensor in close proximity to the toothed ring.

The system shall also control application of the auxiliary engine exhaust or drive line brakes to prevent wheel lock.

PO00002442 - ELECTRONIC STABILITY CONTROL (ESC) WITH (ATC) - CUSTOM TA

QTY: 1.00

An Electronic Stability Control (4 or 6 Channel) shall be provided as part of the Standard ABS system. The Electronic Stability Control system is capable of recognizing and assisting in both rollover and vehicle-under and over-steer situations through advanced monitoring of vehicle parameters and automatic and selective application of the chassis brakes. The ESC system monitors the vehicle response to turning and braking and adjusts or modulates the brake pressure at the wheel end to slow the vehicle in roll control, stabilize the vehicle when under or over steering, and modulate brake pressure when excessive wheel slip, or wheel lockup is detected. By these actions, the ESC system helps to maintain the vehicle’s lateral and roll stability at all times, and improves braking and steer ability during heavy brake applications and during braking on slippery surfaces.

To further improve vehicle drive characteristics the unit shall be fitted with automatic traction control (ATC). This system shall control drive wheel slip during acceleration from a resting point. An extra, solenoid valve shall be added to the ABS system.

The system shall control the engine and brakes to ensure efficient acceleration.

The system shall be equipped with a dash-mounted light that shall come on when ATC is controlling drive wheel slip.

The system shall also include an "off road traction" dash mounted switch that will allow the operator to momentarily allow for more wheel slip when the unit is in deep mud or snow.

PO00002454 - AIR RESERVOIRS 7100 CUBIC INCH TANDEM AXLE, W/1127 CUBIC INCH ADDITIONAL TANK - COLOR CODED

QTY: 1.00

There shall be a minimum of four (4) air reservoirs and be installed in conformance with best automotive practices.

An additional 1127 cu. in. air reservoir shall be provided for an air manifold.

Reservoir capacity total shall be a minimum of 8200 cu. in.

A pressure protection valve shall be installed to prevent the use of air horns or other air operated devices should the air system pressure drop below 80 psi (552 kPa).

The air reservoirs shall be color coded to match the air lines for easy identification, maintenance, and troubleshooting.

The reservoirs shall be painted the following colors:

- Wet Tank Black
- Primary Tank Green
- Secondary Tank Blue
- Auxiliary Tank(s) Yellow
- Secondary Tandem Green 2400 cu. in.

PO00002458 - 1/4 TURN DRAIN VALVES ON ALL AIR TANKS - SIDE OF VEHICLE

QTY: 1.00

For ease of daily maintenance, each air system reservoir shall be equipped with a brass 1/4 turn drain valve.

The brass, quarter turn, air tank drains shall be remotely mounted to the side of the body on a labeled panel just forward of rear wheel for ease of maintenance.

PO00002464 - BENDIX AD-IS SYSTEM, AIR DRYER HEATED

QTY: 1.00

A Bendix AD-IS heated air dryer system shall be furnished. The function of the AD-IS dryer reservoir module (DRM) is to provide an integrated vehicle air dryer, secondary reservoir, purge reservoir, governor, and a number of the charging valve components in a module. The DRM dryer module includes an integrated solution air dryer (AD-IS), a reservoir including a separate purge reservoir section, a governor, and four pressure protection valves which have been designed as an integrated, air supply system.

The function of the AD-IS air dryer is to collect and remove air system contaminants in solid, liquid and vapor form before they enter the brake system. It provides clean, dry air to the components of the brake system which increases the life of the system and reduces maintenance costs. Daily, manual, draining of the reservoirs is eliminated. The function of the pressure protection valves is to both control the order in which the components receive air from the AD-IS air dryer, as well as to protect each reservoir from a pressure loss in the other reservoir or a pressure loss in an air accessory.

An automatic, moisture ejector on the primary or wet tank shall also be furnished.

PO00010321 - COLOR CODED SYNFLEX BRAKE LINES W/QUICK RELEASE FITTINGS - TANDEM AXLE

QTY: 1.00

The entire chassis air system shall be plumbed utilizing reinforced, Synflex air lines, which shall be equipped with quick release type fittings.

All of the airlines shall be color coded to correspond with an air system schematic and shall be adequately protected from heat and chafing.

PO00011823 - AIR COMPRESSOR -WABCO - ALL CUMMINS ENGINES

QTY: 1.00

Air compressor shall be a Wabco brand, with a minimum of 18.7 cubic feet per minute capacity on L9 X15 models and 25.9 cubic feet per minute on X12 models.

Air brake system shall be the quick build up type.

The air compressor discharge line shall be stainless steel braid reinforced Teflon hose.

The chassis air system shall meet NFPA 1901, latest edition for rapid air pressure build-up within sixty (60) seconds from a completely discharged air system.

This system shall provide sufficient air pressure so that the apparatus has no brake drag and is able to stop under the intended operating conditions following the sixty (60) seconds build-up time.

PO00011824 - BRAKE TREADLE VALVE

QTY: 1.00

A Bendix dual brake treadle valve shall be mounted on the floor in front of the driver.

The brake control shall be positioned to provide unobstructed access and comfort for the driver.

PO00002466 - PARKING BRAKE CONTROL - NEAR DRIVER - ALL WHEEL LOCK

QTY: 1.00

Parking brake shall be of the spring-actuated type, mounted on the rear axle brake chambers. A red, indicator light shall be provided in the driver dash panel that shall illuminate when the parking brake is applied.

The parking brake will be equipped with all-wheel lock-up.

The parking brake control shall be mounted on the driver lower wing panel.

PO00026112 - CUMMINS X12 500 HP AT 1700 RPM, 1695 FT. LBS. TORQUE AT 1000 RPM

QTY: 1.00

Engine shall be a Cummins, Model X12 500, diesel, turbo-charged, per the following specifications.:

- Max. Horsepower 500 HP @ 1700 RPM
- Governed Speed 2000 RPM
- Peak Torque 1695 lb. ft. @ 1000 RPM
- Cylinders Six (6)
- Operating Cycles Four (4)
- Bore Stroke 5.2 x 5.67 in.
- Displacement 720 cu. in.
- Compression Ratio 16.8:1
- Governor Type Limiting Speed

Engine oil filters shall be engine manufacturers branded or approved equal.

Engine oil filters shall be accessible for ease of service and replacement.

PO00010716 - ENGINE IQA CERTIFICATION - X12

QTY: 1.00

The Cummins X12 engine shall be certified by Cummins Power Systems for installation in the manufacturer’s custom chassis.

PO00002712 - SECONDARY BRAKING - ENGINE COMPRESSION BRAKE

QTY: 1.00

An engine compression brake shall be furnished for increased braking capabilities.

Controls shall be as provided by the engine manufacturer and shall be activated by releasing the throttle pedal to the idle position.

The engine compression brake shall have dash mounted control switches to turn the brake on or off as well as to control the operational level of the brake.

The engine brake shall be wired in such a manner so as to illuminate the chassis brake lights when the engine brake is engaged and operating.

The engine brake shall be interlocked with the PTO operation and shall automatically disengage any time the apparatus is operating with the PTO active.

PO00010493 - ENGINE AIR CLEANER

QTY: 1.00

An engine air cleaner shall be provided. The air cleaner shall include a dry type element and shall be installed in accordance with the engine manufacturer's recommendations.

The air cleaner shall be located to the rear of the engine, with streamline air pipes and hump hose connections from the inlet to the air cleaner and from the air cleaner to the turbo.

The air cleaner shall be easily accessible when the cab is tilted.

The air cleaner shall be plumbed to the air intake system that shall include a self sealing connection between the cab and air cleaner assembly to allow the cab to be tilted.

To draw fresh clean air, the intake for the air cleaner shall be on the side of the cab on the driver's side.

The inlet shall be a minimum of 41" above the ground to allow the vehicle to navigate through water without any part of the air intake system being below the frame rail, preventing any type of water intake. There will be no exceptions.

PO00010494 - EMBER SEPARATOR

QTY: 1.00

An ember separator shall be installed in the chassis air intake system.

The ember separator housing must be easily accessible when the cab is tilted.

PO00010495 - ACCELERATOR PEDAL - FLOOR MOUNT

QTY: 1.00

A floor mount accelerator pedal shall be installed on the floor in front of the driver.

The pedal shall be positioned for comfort with ample space for fire boots and adequate clearance from the brake pedal control.

PO00010496 - REMOTE THROTTLE & INTERLOCK HARNESS

QTY: 1.00

An apparatus interface wiring harness for the engine shall be supplied with the chassis. If applicable, separate circuits shall be included for pump controls, “Pump Engaged” and “OK to Pump” indicator lights, open compartment ground, start signal, park brake ground, ignition signal, master power, customer ignition, air horn solenoid switch, high idle switch and high idle indication light.

The engine ECM (Electronic Control Module) discreet wire remote throttle circuit shall be turned off for use with a J1939 based pump controller or when the discreet wire remote throttle controls are not required.

PO00023882 - COOLING/RADIATOR 96” PREDATOR CAB/CHASSIS

QTY: 1.00

The radiator and the complete cooling system shall meet or exceed NFPA and engine manufacturer cooling system standards. The radiator shall be compatible with the engine manufacturer’s recommended engine coolant.

The radiator core assembly shall be isolated within the steel frame by rubber inserts to enhance cooling system durability and reliability. The radiator shall be mounted in such a manner as to prevent the development of leaks caused by twisting or straining when the apparatus operates over uneven ground.

The radiator assembly shall be isolated from the chassis frame rails with rubber isolators. The radiator shall be equipped with a dual seal cap that shall allow for expansion and recovery of coolant into a separate integral chamber. A drain port shall be located at the lowest point of the cooling system and/or the bottom of the radiator to permit complete flushing of the coolant from the system.

The radiator shall be brass with bolted steel top and bottom tanks. The cooling system shall be designed for a maximum of fifteen (15) PSI operation. There shall be a sight glass in the radiator to check the coolant level without removing the radiator cap. The core construction shall be tube and fin with three (3) tube rows, 273 total core tubes and fourteen (14) fins per inch.

Extended life engine coolant shall provide anti-freeze protection to -30° F. The mixture shall be per the engine manufacture's specifications.

Core area shall be a minimum of 1375 square inches (39 H x 35.25W).

PO00010649 - COOLING SYSTEM CRITERIA

QTY: 1.00

The engine cooling system shall be certified by the engine manufacturer to meet cooling index requirements for a minimum ambient temperature or 110-degrees Fahrenheit.

PO00010650 - TRANSMISSION COOLER

QTY: 1.00

A shell and tube transmission oil cooler shall be provided using engine coolant to control the transmission oil temperature.

The cooler shall have an aluminum shell and copper tubes.

The cooler shall be assembled using pressed in rubber tube sheets to mechanically create a reliable seal between the coolant and the oil.

No brazed, soldered, or welded connections shall be used to separate the coolant from the oil.

PO00010651 - RADIATOR CROSS MEMBER

QTY: 1.00

The radiator installation shall include a radiator cross member for additional strength and durability.

This cross member shall be designed so the angle of approach is not affected.

PO00011676 - CHARGED AIR COOLER (FRONT MOUNT)

QTY: 1.00

The charge air cooler shall be constructed of aluminum with cast aluminum side tanks.

The cooler shall have a frontal core size of 957 square inches, seven (7) fins per inch, and forty eight (48) core tubes.

The charge air cooler shall be mounted directly ahead of the radiator and to the radiator headers.

Rubber isolators shall be used at the mounting points to reduce transmission of vibrations.

The connections between the engine and charged air cooler, shall be made using high temperature silicone hoses rated for use in temperature up to 500°F, and heavy duty constant tension T-Bolt spring hose clamps.

PO00023913 - COOLANT FAN W/ CLUTCH CUMMINS X12

QTY: 1.00

The engine cooling system shall incorporate a heavy-duty fan, installed on the engine and include a shroud.

The fan shall be equipped with an air-operated clutch fan, which shall activate at a pre-determined temperature range.

Recirculation shields shall be installed to ensure that air which has passed through the radiator is not drawn through it again.

PO00002710 - HEATER AND COOLANT HOSES/PIPING

QTY: 1.00

All coolant piping shall be powder coated steel tubing and formed hose barbs.

All engine enclosed connections between coolant pipes shall be made using silicone hoses rated from -60F to+500F.

The connections will use constant torque hose clamps. Continental Blue Xtreme blue heater hoses shall be furnished for the heater system.

PO00023874 - LOW COOLANT INDICATOR

QTY: 1.00

A low engine coolant indicator light located in the dash instrument panel shall be provided. An audible alarm shall be provided to warn of the low coolant condition.

PO00002723 - ALLISON 4500EVS, WIDE RATIO TRANSMISSION - COMPRESSION BRAKE

QTY: 1.00

An Allison World Transmission, Model 4500EVS (Wide Ratio), electronically controlled, automatic transmission shall be provided.

Transmission specifications shall be as follows:

- Max. Gross Input Power 600 HP
- Max. Gross Input Torque 1770 lb. ft.
- Input Speed (Range) 1700- 2300 RPM
- Direct Gear (Pumping) 4th (Lock-up)

Transmission installation shall be in accordance with the transmission manufacturer's specification.

The transmission shall be readily and easily removable for repairs or replacement.

One (1) PTO opening shall be provided on both the left and right side of the converter housing (positions one (1) o'clock and eight (8) o'clock).

PO00002734 - SIX (6) SPEED AUTOMATIC TRANSMISSION - 4500 SERIES

QTY: 1.00

The transmission shall be calibrated for six (6) forward gears and one (1) reverse gear.

Each gear shall have the following ratios:

- First 4.70:1
- Second 2.21:1
- Third 1.53:1
- Fourth 1.00:1
- Fifth 0.76:1
- Sixth 0.67:1
- Reverse -5.55:1

PO00002736 - ALLISON TRANSMISSIONS, ELECTRONIC TOUCH PAD SHIFTER IN CAB

QTY: 1.00

An illuminated, touch-pad type, shift control shall be mounted in the cab on the driver's lower wing panel.

Shift control shall be approved by the transmission manufacturer.

PO00010553 - TRANSMISSION OIL LEVEL SENSOR

QTY: 1.00

The transmission shall be equipped with the oil level sensor (OLS); this sensor shall allow the operator to obtain an indication of the fluid level from the shift selector.

The sensor display shall provide the following checks, correct fluid level, low fluid level and high fluid level.

PO00010554 - ALLISON PARK TO NEUTRAL

QTY: 1.00

The transmission, upon application of the parking brake, shall automatically shift into neutral.

PO00010555 - ALLISON PRESELECT PROGRAMMING

QTY: 1.00

The transmission shall have Allison Pre select enabled to automatically downshift when the secondary engine brake is active.

PO00002741 - PRESELECT PROGRAMMED FOR 3RD GEAR

QTY: 1.00

The transmission shall be programmed to automatically downshift to 3rd gear.

This feature shall be enabled/disabled with the main on/off switch for the engine brake.

PO00023876 - TES 295 SYNTHETIC TRANS FLUID 4000 EVS

QTY: 1.00

TES 295 transmission fluid shall be utilized to fill the 4000 EVS transmission.

PO00010794 - TRANSMISSION LOCK-UP

QTY: 1.00

The automatic transmission furnished in the chassis shall have a lock-up assembly which brings the transmission to direct drive and prevents the transmission from shifting gears while in the pumping mode.

A positive braking system shall be provided to prevent vehicle movement during pumping operations.

The air brakes furnished must satisfy this requirement.

PO00010565 - DRIVE LINES DANA-SPICER #1810 SERIES

QTY: 1.00

Drive lines shallbe Dana (Spicer) 1810 heavy duty series or equal, with "glide coat" splines on all slip shafts.

The manufacturer shall utilize an electronic type balancing machine to statically and dynamically balance all drive shafts.

The manufacturer shall provide proof of compliance with all drive shaft manufacturer's standards and specifications. {No Exceptions}

Where applicable, the universal joints shall be the half loop style joints.

PO00002748 - 5 GALLON DEF TANK

QTY: 1.00

A five (5) gallon diesel exhaust fluid (DEF) tank shall be provided and installed. The tank shall be mounted in the area of the battery box and shall be accessible through a door in the crew area step well.

The tank shall include an internal heater that will be fed by engine coolant directly from the engine block to ensure it is always kept at the proper temperature per EPA requirements. The tank shall include a temperature sensor to control the flow of the engine coolant from the heater valve to the DEF tank.

A DEF fluid level sensor shall be provided with the DEF tank and connected to the level gauge on the dashboard.

PO00012469 - DIESEL EXHAUST FLUID LEVEL GAUGE

QTY: 1.00

Diesel Exhaust Fluid level (E-1/2-F); low fuel level warning @ 1/8 tank

PO00010556 - EXHAUST SYSTEM - DPF & SCR SYSTEM - INLINE SYSTEM

QTY: 1.00

The exhaust system shall be installed in accordance with the engine manufacturer's requirements and meet all Environmental Protection Agency and State noise level requirements.

Exhaust system components shall be securely mounted and easily removable.

The diesel particulate filter/muffler shall be fabricated from stainless steel and of a size compatible with the engine exhaust discharge.

Exhaust tubing shall be a minimum of 16 gauge stainless steel from the turbocharger on the engine to the inlet of the diesel particulate filter. Any flexible exhaust tubing shall be HDT stainless steel type.

To minimize heat build-up, exhaust tubing within the engine compartment shall be wrapped with an insulating material. Exhaust shall be wrapped from the turbocharger to the entrance of the muffler. Material shall be held in place with worm gear type clamps.

An exhaust diffuser shall be provided to reduce the temperature of the exhaust as it exits the tailpipe.

If the electrical system is hardwired or V-Mux multiplex, separate "regeneration" enable and prohibit switches shall be provided under the dash board on the driver's side. Each switch shall be provided with a spring loaded protective cover and shall be clearly marked as to function. If the electrical system is Class-1 ES-key, the regeneration switches shall be incorporated into the ultra-view screen.

The vehicle shall be equipped with SCR technology that uses a urea based diesel exhaust fluid (DEF) and a catalytic converter to significantly reduce oxides of nitrogen (NOx) emissions.

The SCR system shall reduce levels of NOx (oxides of nitrogen emitted from engines) by injecting small quantities of diesel exhaust fluid (DEF) into the exhaust upstream of a catalyst, where it vaporizes and decomposes to form ammonia and carbon dioxide.

PO00010558 - STAINLESS STEEL EXHAUST TAILPIPE/OUTLET OS - DPF + SCR SYSTEM

QTY: 1.00

The exhaust tailpipe extending from the SCR catalyst to the side of the vehicle shall be constructed from 16-gauge stainless steel tubing.

The exhaust discharge shall be on the officer side of the apparatus forward of the rear axle.

PO00002768 - FUEL TANK - 65 GALLON, STEEL, 75 & 100' M-D TANDEM AXLE UNITS ONLY

QTY: 1.00

Fuel tank shall be a minimum of sixty-five (65) gallon capacity. It shall have a minimum, fuel filler neck of 2" ID and 1/4 turn fill cap. A 1/2" minimum diameter drain plug shall be provided. The tank shall be fabricated from hot rolled, pickled and oiled steel. Provisions for an additional feed line and fuel level float shall be provided for future use. The fuel tank shall be installed behind the rear wheels, between the frame rails. The fuel tank shall meet all FHWA 393.67 requirements including a fill capacity of 95% of tank volume. The fuel tank shall be able to withstand a longitudinal acceleration of -23.0g at 0.166 seconds in accordance to SAE J211 standards using a channel frequency class 600 filter. Testing shall be performed at and verified by a third party testing and evaluation center.

PO00010567 - STAINLESS STEEL FUEL TANK STRAPS

QTY: 1.00

The straps supporting the diesel fuel tank shall be made of Type 304L stainless steel with grade 8, zinc coated steel hardware.

There will be no exceptions.

PO00010568 - FUEL TANK MOUNTING STRAP ISOLATION MATERIAL

QTY: 1.00

The fuel tank mounting straps shall utilize dense rubber between the straps and the fuel tank to prevent chaffing.

PO00010569 - FUEL LINES - FIBER REINFORCED HOSE

QTY: 1.00

Fuel lines shall be an Aeroquip FC332 AQP Series fiber reinforced hose. The lines shall be sized to meet engine manufacture's requirements, and shall be carefully routed and secured along the inside of the frame rails.

PO00010570 - CUMMINS FUEL-WATER SEPARATOR

QTY: 1.00

A fuel filter/water separator shall be provided in the fuel system.

A "water in fuel" indicator shall be provided on the information center.

PO00010572 - FUEL PUMP ELECTRIC, REQ. ON 210" WB OR LONGER

QTY: 1.00

An electric fuel pump for re-priming shall be furnished in the main fuel line.

A labeled control switch shall be provided on the main dash panel.

PO00010573 - FUEL POCKET, DRIVER SIDE REAR WHEEL WELL PANEL

QTY: 1.00

A fuel fill shall be provided in the driver side rear wheel well area.

A Cast Products heavy duty cast aluminum spring loaded hinged fill door shall be provided.

A label indicating "Ultra Low Sulfur Diesel Fuel Only" shall be provided adjacent to the fuel fill.

PO00011797 - CUSTOM CHASSIS ELECTRICAL SYSTEM

QTY: 1.00

All electrical wiring in the chassis shall be GXL cross link insulated type. Wiring is to be color coded and include function codes every three (3) inches on both sides. Wiring harnesses shall be routed in protective, heat resistant loom, securely and neatly installed. Two (2) power distribution centers shall be provided in central locations for greater accessibility. The power distribution centers shall contain thermal automatic reset breakers, power control relays, flashers, diode modules, daytime driving light module, and engine and transmission data links. All breakers and relays shall have a capacity substantially greater than the expected load on the related circuit, thus ensuring long component life. Power distribution centers shall be composed of a system of interlocking plastic modules for ease in custom construction.

The power distribution centers are function oriented. The first is to control major truck function. The second shall control center to overhead switching and interior operations. Each module is single function coded and labeled to aid in troubleshooting. The centers will also have accessory breakers and relays for future installations. All harnesses and power distribution centers shall be electrically tested prior to installation to ensure the highest system reliability.

All external harness interfaces shall be of a triple seal type connection to ensure a proper connection. The cab/chassis and the chassis/body connection points shall be mounted in accessible locations. Complete chassis wiring schematics shall be supplied with the apparatus.

PO00022590 - 12 VOLT ELECTRICAL SYSTEM TESTING - ALL UNITS

QTY: 1.00

The apparatus low voltage electrical system shall be tested and certified by the manufacturer. The certification shall be provided with the apparatus. All tests shall be performed with the air temperature between 0°F and 100°F.

The following three (3) tests shall be performed in order. Before each test, the batteries shall be fully charged.

The engine shall be started and kept running until the engine and engine compartment temperatures are stabilized at normal operating temperatures and the battery system is fully charged. The engine shall be shut off and the minimum continuous electrical load shall be activated for 10 minutes. All electrical loads

shall be turned off prior to attempting to restart the engine. The battery system shall then be capable of restarting the engine. Failure to restart the engine shall be considered a test failure.

The minimum continuous electrical load shall be activated with the engine running at idle speed. The engine temperature shall be stabilized at normal operating temperature. The battery system shall be tested to detect the presence of battery discharge current. The detection of battery discharge current shall be considered a test failure.

The total continuous electrical load shall be activated with the engine running up to the engine manufacturers governed speed. The test duration shall be a minimum of 2 hours. Activation of the load management system shall be permitted during this test. However, an alarm sounded due to excessive battery discharge, as detected by the system, or a system voltage of fewer than 11.7 volts DC for a 12-volt system, for more than 120 seconds, shall be considered a test failure.

Following completion of the preceding tests, the engine shall be shut off. The total continuous electrical load shall be activated and shall continue to be applied until the excessive battery discharge alarm is activated.

The battery voltage shall be measured at the battery terminals. With the load still applied, a reading of fewer than 11.7 volts shall be considered a test failure. The battery system shall then be able to restart the engine.

At the time of delivery, documentation shall be provided with the following information:

- Documentation of the electrical system performance test
- A written load analysis of the following;
- Nameplate rating of the alternator
- Alternator rating at idle while meeting the minimum continuous electrical load
- Each component load comprising the minimum continuous electrical load.
- Additional loads that, when added to the minimum continuous load, determine the total connected load.
- Each individual intermittent load.

PO00011798 - CUSTOM CHASSIS WIRING INSTALLATION

QTY: 1.00

The wiring harness contained on the chassis shall be designed to utilize wires of stranded copper or copper alloy of a gauge rated to carry 125% of maximum current for which the circuit is protected without exceeding 10% voltage drop across the circuit. Wiring shall be uniquely identified by color code or circuit function code, labeled at a minimum of every three (3) inches. The identification of the wiring shall be referenced on a wiring diagram. All wires conform to SAEJ1127 (Battery Cable), SAEJ1128 (Low Tension Primary Cable), SAEJ1560 (Low Tension Thin Wall Primary Cable).

The covering of harnesses shall be moisture resistant loom with a minimum rating of 289° Fahrenheit and a flammability rating of VW-1 as defined in UL62. The covering of jacketed cable shall have a minimum rating of 289° Fahrenheit.

All circuits shall conform to SAEJ2202. All circuits must be provided with low voltage over current protective devices.

All exposed electrical connections will be coated with “Z-Guard” to prevent corrosion.

PO00011799 - DIRECT BATTERY GROUNDING STRAP

QTY: 1.00

Direct grounding straps shall be mounted to the following areas; frame to cab, frame to body and frame to pump enclosure.

All exposed electrical connections shall be coated with "Z-Guard 8000" to prevent corrosion.

PO00011800 - EMI/RFI PROTECTION

QTY: 1.00

The apparatus shall incorporate the latest designs in the electrical system with state of the art components to insure that radiated and conducted electromagnetic interference (EMI) and radio frequency interference (RFI) emissions are suppressed at the source.

EMI/RFI susceptibility is controlled by utilizing components that are fully protected and wiring that utilizes shielding and loop back grounds where required. The apparatus shall be bonded through wire braided ground straps. Relays and solenoids that are suspect to generating spurious electromagnetic radiation are diode protected to prevent transient voltage spikes.

In order to fully prevent the radio frequency interference the purchaser may be requested to provide a listing of the type, power output, and frequencies of all radio and bio medical equipment that is proposed to be used on the apparatus.

PO00011805 - SEQUENCER

QTY: 1.00

A sequencer shall be provided that automatically activates and deactivates vehicle loads in a preset sequence thereby protecting the alternator from power surges. This sequencer operation shall allow a gradual increase or decrease in alternator output, rather than loading or dumping the entire 12 volt load to prolong the life of the alternator.

Emergency light sequencing shall operate in conjunction with the emergency master light switch. When the emergency master switch is activated, the emergency lights shall be activated one by one at half second intervals. Sequenced emergency light switch indicators shall flash while waiting for activation.

When the emergency master switch is deactivated, the sequencer shall deactivate the warning light loads in the reverse order.

PO00010662 - MULTIPLEX CONTROL PUMP SHIFT SWITCH - MULTIPLEX

QTY: 1.00

The pump shift control shall be a Mil Spec toggle switch with mechanical detents mounted in a fully backlit panel that shall have indicators for “Pump Engage” and “Ok To Pump”.

The mode of the transfer case shall be controlled by remotely mounted air solenoids which shall be activated and monitored through the chassis control logic of the multiplex system.

PO00010255 - MULTIPLEX ELECTRICAL SYSTEM

QTY: 1.00

A multiplex electrical management system shall be utilized on the chassis for all functions applicable.

The system shall consist of the following components:

A computer interface used to not only program the multiplex system but also serve as a factory direct gateway into the vehicle from any authorized service facility.

A Universal System Manager (USM), which acts as the main controlling component of the multiplexing system shall be provided and factory programmed to DOT, NFPA, SAE, the manufacturer and {Company} specifications. The programming shall be done by the manufacturer's engineering department.

The ES-Key system installation shall comply with SAE J551 requirements regarding Electromagnetic and Radio Frequency interference (EMI, RFI), as well as utilize components and wiring practices that insure the system is protected against corrosion, excessive temperatures, water, excessive physical, and vibration damage by any equipment installed on the vehicle at the time of delivery.

A series of Multiplexing Input/Output Modules shall be installed. The Input/Output modules shall permit the multiplexing system to reduce the amount of wiring and components used as compared to non-multiplexed apparatus. These modules shall vary in I/O configuration, be waterproof allowing installation outside of enclosed areas and shall possess individual output internal circuit protection. The modules shall also have three status indicators visible from a service persons vantage point that shall indicate the status of the module. In the event a load requires more than 7.5 AMPS of operating current, the module shall activate a simple relay circuit integral to any of the 3 dillblox assemblies installed in the cab.

Diagnostic software shall be provided to download data from the on board ES-KEY system. This software shall have the ability to view system input/output (I/O) information, and include a connection from a computer to the vehicle.

PO00002776 - ADDITIONAL CLASS-1 ES-KEY ULTRAVIEW 780 DISPLAY, OS OF CAB

QTY: 1.00

An additional Class 1, UltraView, 700 display shall be provided and installed on the officer side of the cab.

The second display shall have the ability to perform and display all the same functions and information of the main display; located on the driver side of the cab.

PO00011807 - INTER-LOCK MODULE FOR MULTIPLEX SYSTEM

QTY: 1.00

A multiplex module, which is the interface between the multiplexing system and the pump system shall be provided.

This module shall serve as the interface between the operator, engine, transmission and pumping system.

The module shall be installed in the driver's side dash. There shall be a pump diagnostic view in the UltraView screen that shall indicate to service personnel the interlock state of the apparatus.

In the event of a multiplexing error involving pump operation, an override can be activated to ensure reliable pumping operations at ALL times.

The multiplex system shall be able to provide automatic and/or manual activation of engine “Fast Idle”, to maintain adequate alternator output and thus, chassis voltage.

There will be no exceptions.

PO00002801 - DELCO REMY 55SI, 430 AMP BRUSHLESS ALTERNATOR

QTY: 1.00

There shall be a Delco Remy Model 55SI, 430 amp brushless, serpentine belt, driven alternator.

The brushless design of the 55SI transfers magnetic fields between the rotor and stator air-gap without brushes.

The alternator installation shall be designed to provide maximum output at engine idle speed, by using Remote Sense in order to meet the minimum continuous electrical load of the apparatus as required.

The alternator shall carry a 3 Year/Unlimited Mile warranty.

PO00002809 - BATTERIES - FIVE (5) EXIDE GROUP 31, 925CCA - 31XHD

QTY: 1.00

Five (5) Exide #31XHD, Group 31, maintenance free batteries shall be provided.

Each battery shall be rated at 925 CCA at 0 F and shall have a reserve capacity of 180 minutes.

Wiring for the batteries shall be 4/0 welding type dual path starting cables for SAEJ541.

PO00012455 - PREDATOR BATTERY STORAGE, STEEL, MFD, XMFD, LFD, XLFD

QTY: 1.00

Batteries shall be securely mounted in fixed 3/16” GR50 steel trays located on each side of the chassis frame.

Complete access shall be provided when the cab is fully tilted.

Batteries shall be mounted on non-corrosive matting material.

The battery tray shall be able to withstand a longitudinal acceleration of -46.5g at 0.246 seconds in accordance to SAE J211 standards using a channel frequency class 600 filter.

Testing shall be performed at and verified by a third party testing and evaluation center.

PO00012453 - COLE HERSEE BATTERY JUMPER STUDS, DS BATTERY BOX

QTY: 1.00

A set of Cole Hersee battery jumper studs, model #46210-02 (red) and #46210-03 (black) shall be provided to allow the battery system to be jump started or charged from an external source.

The studs shall be located on the bottom of the battery box on the driver's side of the chassis.

Each stud shall be equipped with both a rubber protector cap and a 2” square non-conductive plate to prevent accidental shorting.

PO00012461 - BATTERY DISCONNECT SWITCH, ALL UNITS

QTY: 1.00

The chassis batteries shall be wired in parallel to a single 12 volt electrical system, controlled through a heavy duty master disconnect switch.

The master disconnect switch shall be located within easy access of the driver upon entering or exiting the cab.

PO00002836 - KUSSMAUL 120 VOLT 20 AMP SUPER AUTO EJECT FOR BATT CHARGER - CUSTOM

QTY: 1.00

One (1) Kussmaul "Super" Auto Eject automatic, 120 volt, 20 amp shoreline disconnect shall be provided for the on board, 110 volt battery charging systems.

The disconnect shall be equipped with a NEMA 5-20 P male receptacle, which shall automatically eject the shoreline when the vehicle starter is energized.

The mating connector shall be included with the auto eject and shall be provided as loose equipment.

A label shall be provided indicating voltage and amperage ratings.

PO00024048 - WHITE COVER FOR KUSSMAUL AUTO-EJECT RECEPTACLE

QTY: 1.00

The Kussmaul auto-eject connection shall be equipped with a White weatherproof cover.

PO00002839 - SHORELINE LOCATION - ADJACENT TO DRIVER'S DOOR

QTY: 1.00

The shoreline receptacle shall be located in the area directly adjacent to the driver's side cab door in a pre determined location by KME.

PO00022630 - SHORELINE RECEPTACLE LABEL - NFPA

QTY: 1.00

A shoreline power receptacle information plate shall be permanently affixed at or near the power inlet. The plate shall indicate the following:

- Type of Line Voltage
- Current Rating in Amps Power Inlet Type (DC or AC).

PO00002856 - KUSSMAUL MODEL 1200, 40AMP, BATTERY CHARGER

QTY: 1.00

A Kussmaul model # 091-187-12, "Auto Charge 1200" high output, fully automatic battery charger shall be provided for maintaining the vehicle battery system.

Unique electronic sensing circuits sense the true battery voltage while eliminating the need for external sense wires.

Output current shall be 40 amperes @ 12 volt DC.

PO00012310 - KUSSMAUL SINGLE BAR-GRAPH VOLTAGE INDICATOR

QTY: 1.00

A Kussmaul # 091-94-12 single bar-graph voltage indicator shall be installed to monitor the battery voltage.

The status center shall be located near the shoreline disconnect receptacle unless otherwise specified.

PO00025600 - BLUE SEA #4365 ACCESSORY PANEL

QTY: 1.00

A Blue Sea model 4365 accessory panel will be provided. The accessory panel shall include one (1) 12-volt power port, Two (2) dual USB charging ports, along with a power switch with built in circuit breaker.

The accessory panel shall be mounted in the center dash panel.

PO00010730 - POWER AND GROUND STUD FOR ACCESSORIES IN DASH

QTY: 1.00

One (1) dedicated circuit; 12 volt, 40 Amp, power and ground on 3/8 stud and fused at battery shall be provided in the cab dash.

The circuit shall be for future installation of radios or accessories.

PO00012534 - BLUE SEA FUSE BLOCK - 12 CIRCUIT BEHIND OFFICER SEAT

QTY: 1.00

A Blue Sea 5026B, 12 circuit fuse block, shall be installed behind the officers seat.

This block has a maximum amperage of 60 amps per block and 30 amps per circuit and shall be connected to battery power.

PO00026778 - USB POWER POINT - REAR FACING SEATING AREA

QTY: 1.00

Two (2) Blue Sea 1045 power points with two (2) USB ports each shall be installed in the rear of the cab on the back of the engine enclosure in a housing designed to surface mount the power point.

One power point shall be installed on each side of the rear side of the engine enclosure near the rear facing seat base.

Each power point shall be rated for 4.8 amps total.

PO00010732 - IGNITION STUD - REAR CREW AREA

QTY: 1.00

An ignition stud shall be installed in the rear crew area for items needing an ignition circuit (ie. mobile radio).

This stud has a maximum amperage of 20 Amps.

PO00002894 - WHELEN 6" ROUND WHITE/RED LED INTERIOR LIGHTS (4)

QTY: 1.00

Four (4) Whelen # 60CREGCS, 6" round, interior LED combination red/white dome lights shall be furnished in the cab, with two (2) in the forward section and two (2) in the rear crew section.

Each dome light shall have individual switches to control the red or white LEDs.

Each dome light shall also activate when the respective, adjacent cab door is opened.

PO00026811 - INNER CAB DOOR FLASHERS (LED), WHELEN ION-T RED

QTY: 1.00

One (1) Whelen TLIR LED door warning lamp shall be provided on the inside door panel of each cab door.

The light shall be mounted on the door's lower scuff plate and shall be activated when the respective door is opened.

Each light shall be furnished with a black bezel, clear lens and red LEDs.

PO00011819 - ENGINE COMPARTMENT WORK LIGHTS - TECNIQ LED

QTY: 1.00

Two (2) Tecniq model #E18 LED lights shall be provided inside the engine enclosure that will provide 800 lumens each.

Each light shall have their own independent switch incorporated into the light head.

PO00024139 - CAB DASH PANELS

QTY: 1.00

The apparatus cab shall be outfitted with backlit gradient dash and overhead panels. These gradient panels shall be utilized across the entire front of the cab dash and include the instrument cluster and brow panels. The panels shall be constructed from 3mm aluminum composite panels with second surface screen printed 15 mil Bayfol UV-1 polycarbonate graphic overlays, to provide scratch and UV protection. A carbon-graphite shaded graphic overlay shall be provided.

PO00026333 - STANDARD #MATM RADIO ANTENNA INSTALLED BEHIND OFFICER SEAT

QTY: 1.00

A antenna mounting base(s) model #MATM with 17' of coaxial cable shall be provided and installed on the lower cab roof, behind the light bar.

The attached antenna wire(s) shall be run and terminate behind the officer seat.

The Fire Department is responsible to have the correct antenna whip installed once the apparatus is delivered.

PO00012297 - CONTROL SWITCHING THROUGH MULTIPLEX TOU

QTY: 1.00

Switching for the emergency and auxiliary systems shall be performed through the multiplex control screen.

Switching shall programmed through various menus that are accessible from the display buttons.

PO00010736 - HOSEBED WORKLIGHT SWITCH - RECESSED

QTY: 1.00

The hose bed work light switch shall be installed in a recessed pocket.

PO00010735 - HOSE BED WORK LIGHT - SWITCH

QTY: 1.00

The hose bed work light shall have a protected 12-volt switch at the rear body panel.

The switch will be labeled "HOSE BED WORK LIGHTS."

PO00003391 - CONTROL SWITCHES IN CAB FOR LIGHT ABOVE WINDSHIELD - HIVIZ

QTY: 1.00

Controls shall be provided in the cab control system (or optional mechanical switch) to activate the HiViz, FireTech, LED brow light.

PO00003232 - CONTROL SWITCHES IN CAB FOR BEHIND FRONT CAB DOOR LIGHTS

QTY: 1.00

Controls shall be provided in the cab control system (or option mechanical switch) to turn the lights at the cab doors on and off.

PO00003234 - CONTROL SWITCH IN CAB FOR 12 V REAR OF BODY SCENE LIGHTS

QTY: 1.00

Controls shall be provided in the cab control system (or optional mechanical switch) to turn the rear of body lights on and off.

PO00011713 - DRIVER'S DASHBOARD PANELL, 96" PREDATOR SS

QTY: 1.00

The main instrument panel shall be centered in front of the driver and shall be mechanically fastened to the main dash assembly.

The panel shall contain the primary gauges, an instrument warning light cluster and the ignition and engine start switches.

Each gauge shall be designed with an integral red warning light with a pre-programmed warning point.

Gauges monitoring drive-train component status shall be of the direct data bus type capable of displaying information broadcast on the J 1939 data-link.

Each gauge warning indicator shall be capable of activating an audible alarm inside the dashboard.

Additional auxiliary control switches and instruments (if applicable) shall be located within the center or overhead panel located near the driver's position.

PO00022740 - DRIVER DASH LCD VIRTUAL DISPLAY

QTY: 1.00

The main instrument panel shall be centered in front of the driver and shall have a hinged bottom with two ¼ turn latches at the top. The driver panel and all other cab interior dash and overhead panels will be an anti-glare surface.
Contained within this panel will be virtual driver display via a 12.3” LCD screen including but not limited to displaying all gauges and instrument warning light cluster functions The upper left side of the driver dash panel shall also include an ignition-on switch, fast idle switch and a round engine start button which shall include a lighted indicator on the perimeter to light up when engine is ready to start and turning off when the engine is started.
The driver LCD virtual display shall include:

- 12.3” Color TFT Display
- Stand Alone Architecture
- Automatic Adjustment for Light Conditions
- 3 x BNC Analog Video Input
- Fully Programmable Features w/Graphical HMI:CGI Studio
- Two Year Warranty

The primary gauge display shall consist of:

- Vehicle speedometer, (0-80 mph)
- Engine tachometer, (0-3000 rpm)
- Engine oil pressure, (0-100 psi); low oil warning
- Engine coolant temperature (100-250 °F); high engine temp warning
- Transmission oil temperature (100-350 °F); high transmission fluid temp warning
- Vehicle battery voltage (0-18 VDC); low voltage warning
- Front air system gauge (0-150 psi); low air pressure warning at 65 psi
- Rear air system gauge (0-150 psi); low air pressure warning at 65 psi
- Fuel level (E - 1/2 - F); low fuel level warning
- Diesel Exhaust Fluid (DEF) Level (E-1/2-F)
- Air cleaner restriction gauge (0-40), warning at 25"
- Engine hours as maintained by the engine ECU

Additional auxiliary control switches and instruments (if applicable) shall be located within the dash panel and overhead panel located near the driver's position.

INDICATOR CLUSTER

This display, also contained in the Driver Dash Virtual Display Module, includes the system control unit that collects data from the vehicle data bus (J1939), analog sensors, and switches throughout the vehicle. This data shall be presented using simulated gauges and telltales.

On the Road displays include:

- Odometer, trip information, fuel economy information; all gauge data, and virtually any other data available on the vehicle that the display has access to, either through the data bus or via analog inputs.

The displays that can be accessed when the parking brake is set include:

- "Right And Left Directional" arrows (green in color)
- "Hi Beam" indicator (blue in color)
- "Battery ON" indicator (green in color)
- "Parking Brake ON" indicator (red in color)
- "Check Transmission" indicator (amber in color)
- "Cab Not Latched" indicator (red in color)
- "Stop Engine" indicator (red in color)
- "Check Engine" indicator (amber in color)
- "ABS Warning" indicator (yellow in color)
- "Low Coolant Level" (yellow in color)
- "Water In Fuel" indicator (amber in color)
- "DPF Regeneration" (amber in color)
- "Exhaust High Temperature" (amber in color)
- "Engine Diagnostic Fault" (amber in color)
- "Retarder On" (green in color)

Listed below are indicators that may be included, depending upon the vehicle configuration:

- "Wait To Start" indicator (amber in color)
- "Exhaust System Fault" (amber in color)
- "Topps System Fault" (amber in color)
- "PTO Engaged" (green in color)
- "Ok to Pump" (green in color)
- "Auto Traction Control" (amber in color)

PO00010551 - FAST IDLE ON DASH FOR ALL ELECTRONIC ENGINES

QTY: 1.00

A fast idle for the electronic controlled engine shall be provided.

The fast idle shall be controlled by an ON/OFF switch on the left side of the main gauge panel.

An electronic interlock system shall prevent the fast idle from operating unless the transmission is in "Neutral" and the parking brake is fully engaged.

If the fast idle control is used in conjunction with a specified engine/transmission driven component or accessory, the fast idle control shall be properly interlocked with the engagement of the specified component or accessory.

PO00010697 - ENGINE COMPRESSION BRAKE CONTROLS

QTY: 1.00

Engine brake controls shall be provided on the dash within easy reach of the driver.

PO00011825 - PUMP SHIFT CONTROL ON LOWER DRIVER'S LOWER WING PANEL

QTY: 1.00

The pump shift control and pump engaged indicator light shall be mounted in the driver's lower wing panel.

PO00002774 - CLASS-1 ES-KEY ULTRAVIEW 780 DISPLAY

QTY: 1.00

A 7 inch full color display shall located on the driver's lower wing panel. The display shall provide key information and control within easy sight and reach.

The screen shall be programmed with the following features:

- Chassis Instrument Display
- Back-up camera
- Seat Occupant Display
- Compartment open display
- HVAC Controls
- Power Mirror Controls
- DPF Filter Regeneration Controls
- Warning light controls
- Scene light controls
- Horn selector switch options
- Gauge back-light dimming
- Rocker switch back-light dimming
- Display screen dimming with day/night feature
- Multiplex system diagnostics
- Generator Controls

PO00026078 - INVIEW 360™ HD VIDEO SYSTEM

QTY: 1.00

An FRC model SNB100-C00 inView™ 360 Video system shall be provided. This system shall provide the driver with a 360 degree birds-eye style view of the apparatus, along with individual camera views based on determined conditions.

The inView™ 360 system shall include (4) four camera’s standard, an Electronic Control Unit (ECU), required harnesses and a manual camera switch. The kit shall provide split video feeds with bird’s-eye view and individual camera views. It shall be capable of integrating with an existing vehicle system for an automatic camera view, which seamlessly switches from front/left/right/rear views based on turn signal and reverse activation.

The ECU shall feature built-in recording to record each camera input separately and support (4) four 256GB SD cards (SD card sold separately).

An HD monitor shall be provided mounted on the center cab overhead console near the driver’s position.

PO00010733 - CUST PUMP/TANK/RES CHASSIS LED MARKER LIGHTS

QTY: 1.00

DOT MARKER LIGHTS AND REFLECTORS

PO00003068 - CAB STEP LIGHTS, TECNIQ EON 3 LED, ALL DEVICES

QTY: 4.00

Polished, stainless steel, TecNiq Eon, 3-LED, horizontal surface mounted chassis step lights shall be provided and controlled with marker light actuation.

Step lights shall be located to properly illuminate all chassis access steps and walkway areas and shall include a mounting gasket to provide a watertight seal.

PO00002983 - DUAL MODULE W/ WHELEN M6 LED TURN SIGNAL & REQ WARN LIGHT

QTY: 1.00

Two (2) Whelen M6T, arrow shaped, amber LED turn signals shall be provided, one (1) in each side of the dual light module above the headlights.

The NFPA required, Zone "A" lower warning lights shall be incorporated into each side, dual light module noted above.

PO00024477 - DUAL HEADLIGHTS LED FIRETECH HIVIZ

QTY: 1.00

Two (2) dual, Firetech HiViz LED headlight modules with a bright finish bezel shall be furnished, one (1) each side, on the front of the cab. Each head light module shall incorporate an individual LED low beam and a LED high beam headlight. High beam actuation shall be controlled on the turn signal lever.

PO00010729 - DAYTIME RUNNING LIGHTS

QTY: 1.00

The chassis head lights shall have integrated circuitry to actuate the low beam headlights.whenever the chassis engine is running.

The daytime running lights shall be interlocked with the parking brake.

******SPECIAL: SP00025622 - HIVIZ FIRETECH 72" SMART BG2 BROW LIGHT W/ IML, 285W12V LED, (1) ABOVE WINDSHIELD***

QTY: 1.00

One (1) HiViz FireTech BG2 Smart scene light, model FT-BG2S-R3-72-ML-B shall be provided above the windshield. The brow light shall incorporate integrated amber marker lights that shall activate with the DOT circuit.

The scene light shall include a red light that will illuminate to 10% intensity functioning as a steady burn warning light. When the emergency lights are enabled the red light shall switch to a flashing pattern at full intensity red.

The scene light shall also function as part of the whole apparatus traffic advisor.

The housing color shall be black.

PO00003396 - WIRE UPGRADE FOR 12V HIGH AMP LIGHT - (1) BROW LIGHT

QTY: 1.00

PO00010755 - NFPA COMPLIANT WARNING LIGHT PACKAGE

QTY: 1.00

The following warning light package shall include all of the minimum warning light and actuation requirements for the current revision of the NFPA 1901 Fire Apparatus Standard.

The lighting as specified shall meet the requirements for both "Clearing Right of Way" and "Blocking Right of Way" which includes disabling all white warning lights when the apparatus is in "Blocking Right of Way" mode.

PO00010757 - WARNING LIGHT FLASH PATTERN - NFPA FLASH PATTERN

QTY: 1.00

All of the perimeter warning lights shall be set to a default NFPA compliant flash pattern as provided by the light manufacturer.

PO00010756 - LIGHT PACKAGE ACTUATION/CONTROLS

QTY: 1.00

The entire warning light package shall be actuated with a single warning light switch located on the cab switch panel. The wiring for the warning light package shall engage all of the lights required for "Clearing Right of Way" mode when the vehicle parking brake is not engaged. An automatic control system shall be provided to switch the warning lights to the "Blocking Right of Way" mode when the vehicle parking brake is engaged.

PO00010759 - LIGHT PACKAGE NFPA CERTIFICATION

QTY: 1.00

The warning light system(s) specified above shall not exceed a combined total amperage draw of 45 AMPS with all lights activated in either the "Clearing Right of Way" or the "Blocking Right of Way"

The warning light system(s) shall be certified by the light system manufacturer(s), to meet all of the requirements in the current revision of the NFPA 1901 Fire Apparatus Standard as noted in the General Requirements section of these specifications.

The NFPA required "Certificate of Compliance" shall be provided with the completed apparatus.

Any large truck as defined by NFPA shall have the lower zone warning lights mounted no higher than 62" to the optical center of the warning light from ground level. {No Exceptions}

PO00003601 - A-UPPER, WHELEN LED F4NMINI, FREEDOM SERIES IV PAIR

QTY: 1.00

A pair of Whelen #F4NMINI, LED cab roof warning light bars shall be furnished and rigidly mounted on top of the cab roof at no more than a 30 degree angle.

Each light bar shall be equipped with the following:

- Clear Lenses
- Two Corner Red Linear LEDs
- One End Red Linear LED
- Two White Front Linear LED

If equipped, the forward facing white lights shall be automatically disabled for the "Blocking Right of Way" mode.

******SPECIAL: SP00040977 - C-UPPER, WHELEN 500 TIR6 LEDS, TWO (2)***

QTY: 1.00

Two (2) Whelen, 50R03ZCR, TIR6 super LED light heads shall be furnished and shall be mounted one (1) on each side on the upper rear face of the body facing rear. Each light head shall be equipped with red LEDs and a clear lens. The lights shall be installed with a 5TSMAC, chrome plated, mounting flange.

PO00003662 - B/D-UPPER FRONT, COVERED BY LIGHTS IN ZONE A-UPPER

QTY: 1.00

The lighting requirement for this area is covered by the lights noted in Zone "A" - Upper.

PO00003653 - B/D-UPPER REAR, WHELEN 500 TIR6 LEDS

QTY: 1.00

Two (2) Whelen, 50*03Z*R, TIR6 super LED light heads shall be furnished and mounted one (1) on each side on the upper side face, towards the rear of the body, facing to each side of the unit.

The lights shall be installed with a 5TSMAC, chrome plated, mounting flange.

PO00024578 - UPPER ZONE B/D REAR WARNING LIGHT LENS - CLEAR

QTY: 1.00

The upper zone B/D rear warning lights shall include red LEDs and a clear lens if available from the manufacturer. If a clear lens is unavailable, a red lens shall be included.

PO00024597 - UPPER ZONE B/D REAR WARNING LIGHT BEZEL - CHROME

QTY: 1.00

The upper zone B/D rear warning lights shall include a chrome bezel if available from the manufacturer. If a chrome bezel is unavailable, a black bezel shall be included.

PO00012072 - A-LOWER FRONT MOUNTING, CUSTOM CHASSIS

QTY: 1.00

The lower Zone A warning lights shall be mounted in the custom chassis headlight bezels.

PO00003872 - A-LOWER FRONT, WHELEN M6 SUPER LEDS

QTY: 1.00

Two (2) Whelen, M6* super LED light heads shall be provided and installed one (1) each side.

PO00024580 - LOWER ZONE A WARNING LIGHT LENS - CLEAR

QTY: 1.00

The lower zone A warning lights shall include red LEDs and a clear lens if available from the manufacturer. If a clear lens is unavailable, a red lens shall be included.

PO00024599 - LOWER ZONE A WARNING LIGHT BEZEL - CHROME

QTY: 1.00

The lower zone A warning lights shall include red leds and a chrome bezel if available from the manufacturer. If a chrome bezel is unavailable, a black bezel shall be included.

PO00003883 - C-LOWER REAR, WHELEN M6 SUPER LEDS

QTY: 1.00

Two (2) Whelen M6* super LED light heads shall be provided and installed with one (1) on each side directly below the DOT stop, tail, turn and backup lights.

PO00024582 - LOWER ZONE C WARNING LIGHT LENS - CLEAR

QTY: 1.00

The lower zone C warning lights shall include red LEDs and a clear lens if available from the manufacturer. If a clear lens is unavailable, a red lens shall be included.

PO00024601 - LOWER ZONE C WARNING LIGHT BEZEL - CHROME

QTY: 1.00

The lower zone C warning lights shall include a chrome bezel if available from the manufacturer. If a chrome bezel is unavailable, a black bezel shall be included.

PO00012074 - B/D-LOWER FRONT MOUNTING, CUSTOM CHASSIS

QTY: 1.00

The lower Zone B D warning lights shall be mounted on the sides of the custom chassis front bumper.

PO00003898 - B/D-LOWER FRONT, WHELEN M6V2 SUPER LEDS

QTY: 1.00

Two (2) Whelen M6V2*, M6 super LED Combination 180° Warning and Perimeter Light

Light heads shall be provided and installed with one (1) on each side.

Each light head will be switched from the appropriate cab perimeter light switch.

PO00024584 - LOWER ZONE B/D FRONT WARNING LIGHT LENS - CLEAR

QTY: 1.00

The lower zone B/D front warning lights shall include red LEDs and a clear lens if available from the manufacturer. If a clear lens is unavailable, a red lens shall be included.

PO00024603 - LOWER ZONE B/D FRONT WARNING LIGHT BEZEL - CHROME

QTY: 1.00

The lower zone B/D front warning lights shall include a chrome bezel if available from the manufacturer. If a chrome bezel is unavailable, a black bezel shall be included.

******SPECIAL: SP00036252 - B/D-LOWER MID, WHELEN M6V2 SUPER LEDS***

QTY: 1.00

Two (2) Whelen M6V2*, M6 super LED Combination 180° Warning and Perimeter Light

light heads shall be provided and installed with one (1) on each side.

Each light head will be switched from the appropriate cab perimeter light switch.

PO00024586 - LOWER ZONE B/D MID WARNING LIGHT LENS - CLEAR

QTY: 1.00

The lower zone B/D mid warning lights shall include red LEDs and a clear lens if available from the manufacturer. If a clear lens is unavailable, a red lens shall be included.

PO00024605 - LOWER ZONE B/D MID WARNING LIGHT BEZEL - CHROME

QTY: 1.00

The lower zone B/D mid warning lights shall include a chrome bezel if available from the manufacturer. If a chrome bezel is unavailable, a black bezel shall be included.

PO00003918 - B/D-LOWER SECONDARY MID, WHELEN M6 SUPER LEDS

QTY: 1.00

Two (2) Whelen, M6* super LED light heads shall be provided and installed with one (1) on each side.

PO00024590 - LOWER ZONE B/D MID SECONDARY WARNING LIGHT LENS - CLEAR

QTY: 1.00

The lower zone B/D mid secondary warning lights shall include red LEDs and a clear lens if available from the manufacturer. If a clear lens is unavailable, a red lens shall be included.

PO00024609 - LOWER ZONE B/D MID SEC WARNING LIGHT BEZEL - CHROME

QTY: 1.00

The lower zone B/D mid secondary warning lights shall include a chrome bezel if available from the manufacturer. If a chrome bezel is unavailable, a black bezel shall be included.

PO00003931 - B/D-LOWER REAR, WHELEN M6V2 SUPER LEDS

QTY: 1.00

Two (2) Whelen M6V2*, M6 super LED Combination 180° Warning and Perimeter Light

Light heads shall be provided and installed with one (1) on each side.

Each light head will be switched from the appropriate cab perimeter light switch.

PO00024588 - LOWER ZONE B/D REAR WARNING LIGHT LENS - CLEAR

QTY: 1.00

The lower zone B/D rear warning lights shall include red LEDs and a clear lens if available from the manufacturer. If a clear lens is unavailable, a red lens shall be included.

PO00024607 - LOWER ZONE B/D REAR WARNING LIGHT BEZEL - CHROME

QTY: 1.00

The lower zone B/D rear warning lights shall include a chrome bezel if available from the manufacturer. If a chrome bezel is unavailable, a black bezel shall be included.

******SPECIAL: SP00003198 - Whelen LED 46" - #TAM85RR "Traffic Advisor" On Rear Of Body***

QTY: 1.00

One (1) Whelen LED "Traffic Advisor", model TAM85RR 46.81", rear directional light {will/shall} be installed on the vertical rear surface of the body. The light {will/shall} be equipped with six (6) directional lamps and a red LED warning light on the outside edges. The directional light {will/shall} be activated by a control module. The Red lights will be activated with primary warning. The control module {will/shall} be conveniently located near the driver's position. The rear directional light {will/shall} be wired through the load management system of the unit.

PO00013232 - OUTRIGGER WARNING LIGHTS FROM LIGHT PACKAGE

QTY: 1.00

The outrigger warning lights are included in the warning light package previously mentioned.

PO00013270 - OUTRIGGER WARNING LIGHT ACTIVATION, PRIMARY WARNING

QTY: 1.00

The outrigger warning lights shall be energized by the ladder power circuit.

The outrigger warning lights shall also be energized by the primary warning light switch.

******SPECIAL: SP00002684 - Control Switches In Cab For Above Outrigger Lights***

QTY: 1.00

Two (2) switches shall be provided in the cab warning, light switch console to turn the lights above the rear outrigger on and off. One (1) switch shall control the driver side light and one (1) switch shall control the officer side light.

PO00003287 - NFPA (4) ROM V4 LED GROUND LIGHTS, BELOW CAB DOORS

QTY: 1.00

One (1) ROM V4 12" LED ground light shall be provided under each cab occupant door entrance step, four (4) total.
The lights shall be mounted in ROM standalone aluminum mounting track with mounting slots at each end.
The ground lights shall turn on automatically with each respective door jamb switch and also by a master ground light switch in the warning light switch console.
Each light shall illuminate an area at a minimum 30" outward from the edge of the vehicle.

PO00003290 - GROUND LIGHTS, 2 LED BELOW PUMP PANEL RUNNING BOARD - ROM V4

QTY: 1.00

One (1) ROM, V4, 12" LED ground light shall be provided under each side pump panel running board, two (2).

The lights shall be mounted in ROM, standalone, aluminum, mounting track with mounting slots at each end.

PO00003291 - GROUND LIGHTS, 2 LED BELOW MID-SHIP COMPARTMENT - ROM V4

QTY: 1.00

One (1) ROM, V4, 12" LED ground light shall be provided under each mid ship compartment, total of two (2).

The lights shall be mounted in ROM, standalone, aluminum, mounting track with mounting slots at each end.

PO00003293 - GROUND LIGHTS, 2 LED AT REAR BODY CORNERS - ROM V4

QTY: 1.00

One (1) ROM V4 12" LED ground light shall be provided under each rear body corner, two (2) total.
The lights shall be mounted in ROM standalone aluminum mounting track with mounting slots at each end.
The lights shall be positioned to illuminate the ground under the rear tailboard.

******SPECIAL: SP00040938 - GROUND LIGHTS ACTIVATION***

QTY: 1.00

The ground lights will be activated with park brake, a switch inside the multiplex screen and with the respective cab door opening.

PO00022750 - AERIAL LADDER, LADDER POWER SWITCH IN CAB

QTY: 1.00

There shall be an aerial device power engagement switch located in the cab switch console. An aerial device PTO/hour meter shall be furnished. See ladder description for details.

PO00011802 - CHASSIS DIAGNOSTICS SYSTEM

QTY: 1.00

Diagnostic ports shall be accessible while standing on the ground and located inside the driver's side door left of the steering column. The diagnostic panel shall allow diagnostic tools such as computers to connect to various vehicle systems for improved troubleshooting providing a lower cost of ownership. Diagnostic switches shall allow engine and ABS systems to provide blink codes should a problem exist.

The diagnostic system shall include the following:

- A single port to monitor the engine, transmission and ABS system and diagnostics of the roll sensor (if applicable)
- Engine diagnostic switch (blink codes)
- ABS diagnostic switch (blink codes)
- Allison Transmission Codes (through touch pad shifter)

PO00011803 - VOLTAGE MONITORING SYSTEM - 12 VOLT

QTY: 1.00

A voltage monitoring system shall be provided to indicate the status of the battery system connected to the vehicle's electrical load. The system shall provide visual and audible warning when the system voltage is below or above optimum levels.

The alarm shall activate if the system falls below 11.8 volts DC for more than two (2) minutes.

PO00011804 - INDICATOR LIGHT AND ALARM PROVE-OUT SYSTEM

QTY: 1.00

A system shall be provided which automatically tests basic indicator lights and alarms located on the cab instrument panel.

PO00011806 - ELECTRICAL HARNESS INSTALLATION - 12 VOLT

QTY: 1.00

To ensure dependability, all 12-volt wiring harnesses installed by the manufacturer shall conform to the following specifications:

- SAE J 1128 - Low tension primary cable
- SAE J 1292 - Automobile, truck, truck-tractor, trailer and motor coach wiring
- SAE J 163 - Low tension wiring and cable terminals and splice clips
- SAE J 2202 - Heavy duty wiring systems for on-highway trucks
- NFPA 1901 - Standard for automotive fire apparatus
- FMVSS 302 - Flammability of interior materials for passenger cars, multipurpose passenger vehicles, trucks and buses
- SAE J 1939 - Serial communications protocol
- SAE J 2030 - Heavy-duty electrical connector performance standard
- SAE J 2223 - Connections for on board vehicle electrical wiring harnesses
- NEC - National Electrical Code
- SAE J 561 - Electrical terminals - Eyelet and spade type
- SAE J 928 - Electrical terminals - Pin and receptacle type A.

For increased reliability and harness integrity, harnesses shall be routed throughout the cab and chassis in a manner which allows the harnessing to be laid into its mounting location. Routing of harnessing which requires pulling of wires through tubes is never allowed at the manufacturer.

Wiring shall be run in loom or conduit where exposed, and have grommets or other edge protection where wires pass through metal. Wire colors shall be integral to each wire insulator and run the entire length of each wire. Harnessing containing multiple wires and uses a single wire color for all wires shall not be allowed. Function and number codes shall be continuously imprinted on all wiring harness conductors at 3.00" intervals. All wiring installed between the cab and into doors shall be protected by a wire conduit to protect the wiring. Exterior exposed wire connectors shall be positive locking, and environmentally sealed to withstand elements such as temperature extremes, moisture and automotive fluids. Electrical wiring and equipment shall be installed utilizing the following guidelines:

- All holes made in the roof shall be caulked with silicon. {No Exceptions} Large fender washers, liberally caulked, shall be used when fastening equipment to the underside of the cab roof.
- Any electrical component that is installed in an exposed area shall be mounted in a manner that shall not allow moisture to accumulate in it. Exposed area shall be defined as any location outside of the cab or body.
- For low cost of ownership, electrical components designed to be removed for maintenance shall be quickly accessible. For ease of use, a coil of wire shall be provided behind the appliance to allow them to be pulled away from the mounting area for inspection and service work.
- Corrosion preventative compound shall be applied to non-waterproof electrical connectors located outside of the cab or body. All non-waterproof connections shall require this compound in the plug to prevent corrosion and for easy separation of the plug.
- Any lights containing non-waterproof sockets in a weather-exposed area shall have corrosion preventative compound added to the socket terminal area.

- All electrical terminals in exposed areas shall have protective coating applied completely over the metal portion of the terminal.
- Rubber coated metal clamps shall be used to support wire harnessing and battery cables routed along the chassis frame rails.
- Heat shields shall be used to protect harnessing in areas where high temperatures exist. Harnessing passing near the engine exhaust shall be protected by a heat shield.
- Cab and crew cab harnessing shall not be routed through enclosed metal tubing. Dedicated wire routing channels shall be used to protect harnessing therefore improving the overall integrity of the vehicle electrical system. The design of the cab shall allow for easy routing of additional wiring and easy access to existing wiring.
- All standard wiring entering or exiting the cab shall be routed through sealed bulkhead connectors to protect against water intrusion into the cab.

All 12-volt battery cables and battery cable harnessing installed by the apparatus manufacturer shall conform to the following requirements:

- SAE J 1127 - Battery Cable
- SAE J 561 - Electrical terminals, eyelets and spade type
- SAE J 562 - Nonmetallic loom
- SAE J 836 A - Automotive metallurgical joining
- SAE J 1292 - Automotive truck, truck-tractor, trailer and motor coach wiring
- NFPA 1901 - Standard for automotive fire apparatus.

Battery cables and battery cable harnessing shall be installed utilizing the following guidelines:

- Splices shall not be allowed on battery cables or battery cable harnesses.
- For ease of identification and simplified use, battery cables shall be color coded. All positive battery cables shall be marked red in color. All negative battery cables shall be black in color.
- For ease of identification, all positive battery cable isolated studs throughout the cab and chassis shall be red in color.
- For increased reliability and reduced maintenance, all electrical buss bars located on the exterior of the apparatus shall be coated to prevent corrosion.
- An operational test shall be conducted to ensure that any equipment that is permanently attached to the electrical system is properly connected and in working order.

PO00012671 - AERIAL BODY ELECTRICAL SYSTEM

QTY: 1.00

All electrical lines in the body shall be protected by automatic circuit breakers, conveniently located to permit ease of service.

Flashers, heavy-duty solenoids and other major electrical controls shall be located in a central area near the circuit breakers.

All lines shall be color and function coded every 3", easy to identify, oversized for the intended loads and installed in accordance with a detailed diagram.

A complete wiring diagram shall be supplied with the apparatus.

Wiring shall be carefully protected from weather elements and snagging.

Heavy duty loom shall be used for the entire length.

Grommets shall be utilized where wiring passes through panels.

In order to minimize the risk of heat damage, wires run in the engine compartment area shall be carefully installed and suitably protected by the installation of heat resistant shielded loom.

All electrical equipment shall be installed to conform to the latest federal standards as outlined in NFPA-1901.

PO00010753 - BODY ELECTRICAL HARNESS - ES-KEY

QTY: 1.00

PO00010754 - POWER DISTRIBUTION MODULES FOR CLASS ONE ES-KEY SYSTEM

QTY: 1.00

Class 1 Power distribution modules shall be provided in strategic areas of the chassis to allow body harnesses to interface to multiplex system.

The Remote Power Modules (RPM) provide a method of controlling loads on the vehicle, outside the cab, without running individual wires from each switch to the load.

This electronic module distributes and controls power to various devices on the vehicle as commanded by the control system inside the cab.

The RPM is connected to the Electrical System Controller via the J1939 datalink.

Each module receives power from a power cable, protected by a fusible link to the main battery circuit.

The power distribution modules shall be mounted in a location to provide complete access for service or trouble shooting.

PO00012441 - DOOR OPEN INDICATOR W/ INTEGRAL AUDIBLE ALARM

QTY: 1.00

An indicator light with an audible alarm, shall be functionally located in the cab to signal when an unsafe condition is present such as an open cab door or body compartment door, an extended ladder rack, a deployed stabilizer, an extended light tower or any other device which is opened, extended or deployed which may cause damage to the apparatus if it is moved.

This light shall be activated through the parking brake switch to signal when the parking brake is released.

PO00009693 - DUNNAGE AREA LIGHTING, TECNIQ EON 3 LED

QTY: 1.00

Two (2) stainless steel, TecNiq Eon 3-LED horizontal surface mounted lights shall be provided in the dunnage area to provide adequate illumination of this area.

These lights shall be switched in the same manner as the step lights.

PO00011816 - COMPARTMENT LIGHT ACTIVATION

QTY: 1.00

Compartment lighting shall be switched either from an integral switch as provided by the roll up door manufacturer or a magnetic proximity switch if it is a KME manufactured door.

PO00003415 - COMPARTMENT LIGHTS, ROM LED V4 TRACK LIGHTING - DUAL

QTY: 11.00

Each individual, equipment storage compartment shall be equipped with the ROM LED V4 lights on the forward and rear edge of each body door opening. The lights shall be mounted in an anodized aluminum track provided by ROM either as a stand alone unit or an integrated part of the roll up shutter door track. The lights shall be designed and manufactured to be water proof meeting the IPX7 industry standard and shall include a streamline optic lens and a fixed lumen output across 9-16vdc. Each LED module shall be of interlocking design and shall be able to be serviced/replaced without the removal of light assembly or shutter door. {No Exceptions}

PO00010734 - CUST PUMP/TANK/RES BODY LED MARKER LIGHTS

QTY: 1.00

PO00002998 - DOT MARKER LIGHTS FORWARD OF FRONT CAB DOOR

QTY: 1.00

Amber LED DOT marker lights with reflector shall be provided and mounted forward of the front cab door, one (1) each side.

PO00002999 - MARKER/TURN LIGHTS @ EA SIDE OF BODY

QTY: 1.00

Red, LED marker lights with integral reflectors shall be provided at the lower side rear, having one (1) on each side.

Yellow, LED side marker and turn lights shall be provided on the apparatus lower side, forward of rear axle that puts one (1) on each side, if the apparatus is 30' long or longer.

PO00003003 - DOT MARKER LIGHTS @ REAR OF BODY

QTY: 1.00

Red, LED clearance lights shall be provided on the apparatus rear upper having one (1) on each side at the outermost practical location.

Red, LED, 3-lamp identification bar will be provided on the apparatus rear center.

PO00003007 - DOT AMBER REFLECTORS @ SIDE OF BODY

QTY: 1.00

Yellow reflectors shall be provided on the apparatus body lower side, as far forward and low as practical with one (1) on each side if the apparatus is 30' long or longer.

PO00003008 - DOT RED REFLECTORS @ REAR OF BODY

QTY: 1.00

Red reflectors shall be provided on the apparatus rear with one (1) on each side at the outermost practical location.

PO00026701 - TECNIQ #L10 LED LICENSE PLATE LIGHT

QTY: 1.00

One (1) Tecniq model #L10 LED license plate light shall be provided above the mounting position of the license plate. The license plate shall be located on the driver's side rear of body.

The light shall be clear in color and shall have a chrome finish.

PO00012422 - BRITAX, 6" ANGLED RUBBER LED LIGHT @ REAR BODY CORNERS

QTY: 1.00

Two (2) rubber, angled LED marker lights shall be mounted on the rear most corner of the body, one (1) each side.

The lights shall be mounted in a molded flexible rubber shaft that extends away from the body approximately 6".

The lights shall be equipped with an amber lens facing forward and a red lens facing to the rear of the vehicle.

The lights shall be wired to the parking light circuit.

PO00003026 - WHELEN #M6 LED BRAKE, REVERSE, & TURN

QTY: 1.00

Two (2) Whelen M6 series, 4-5/16" x 6-3/4", LED red combination tail and stop lights, shall be mounted one each side at the rear of the body with a chrome mounting flange.

Two (2) Whelen M6 series, 4-5/16" x 6-3/4", LED amber arrow turn signal lights, shall be mounted one each side, on a vertical plane with the tail/stop lights with a chrome mounting flange.

Two (2) Whelen M6 series, 4-5/16" x 6-3/4", LED white back-up lights, shall be mounted with a chrome mounting flange, one each side on a vertical plane with the turn/tail/stop signals.

These lights shall activate when the transmission is placed in reverse gear.

The lights shall be mounted in order, from top to bottom, as described above.

PO00003075 - BODY STEP LIGHTS, TECNIQ EON 3 LED, ALL DEVICES

QTY: 2.00

Polished, stainless steel, TecNiq Eon 3-LED, horizontal surface, mounted body step lights shall be provided and controlled with marker light actuation.

Step lights shall be located to properly illuminate all body access steps and walkway areas and shall include a mounting gasket to provide a watertight seal.

PO00003402 - PUMP ENCLOSURE WORK LIGHTS - TECNIQ LED

QTY: 1.00

Two (2) Tecniq, model #E18 lights shall be provided inside the pump enclosure, providing 800 lumens each.

Each light shall have their own independent switch incorporated into the light head.

PO00015934 - AERIAL ACCESS LADDER ILLUMINATION - WHELEN 3" LED - RM BODY

QTY: 1.00

Two (2) Whelen LED lights, #3SC0CDCR, with chrome housings, # 3FLANGEC, provided for each aerial turntable access ladder.
The step lights shall be actuated when the aerial access ladder is deployed.

PO00024720 - FIRETECH HIVIZ GUARDIAN ELITE LED SCENE LIGHTS BEHIND FRONT CAB DOORS

QTY: 1.00

Two (2) Firetech Hiviz Guardian Elite FT-GESM, LED scene lights shall be provided, (1) one on each side of the cab, directly behind the front cab entrance door in a chrome plated flange.

Each light shall be 11 wide by 9 high by 3 deep, draw 10 amps, and produce 10,491 lumens.

The scene lights shall be wired through the load management system.

PO00024733 - FIRETECH HIVIZ GUARDIAN JUNIOR LED SCENE LIGHTS ON REAR OF BODY

QTY: 1.00

Two (2) Firetech Hiviz Guardian Junior FT-GSMJR, LED scene lights shall be provided, (1) one on each side of the rear body panel in a chrome plated flange.

Each light shall be 7.5 wide by 5 high by 1.5 deep, draw 3.33 amps, and produce 3,000 lumens.

The scene lights shall be wired through the load management system.

******SPECIAL: SP00036614 - FIRETECH HIVIZ GUARDIAN ELITE LED SCENE LIGHTS ABOVE REAR OUTRIGGER***

QTY: 1.00

Two (2) Firetech Hiviz Guardian Elite FT-GESM, LED scene lights shall be provided, one on each side of the body, directly above the rear outrigger in a chrome plated flange.

The scene lights shall be wired through the load management system.

PO00003244 - CAB SCENE LIGHTS TO BE ACTIVATED BY CAB DOORS

QTY: 1.00

In addition to the cab mounted switch for the cab scene lights, the driver and officer cab doors shall activate the respective light when a cab door is opened.

PO00004193 - TRAFFIC ADVISOR - MOUNTING ON THE REAR SHEET

QTY: 1.00

The traffic advisor shall be mounted on the rear sheet.

PO00011814 - CHASSIS SINGLE ELECTRIC (DOT) HORN

QTY: 1.00

A single electric horn activated by the steering wheel horn button shall be furnished.

PO00004198 - ECCO #505 BACK-UP ALARM - 87 DBA

QTY: 1.00

An ECCO # 505, 87dBA back-up alarm, shall be provided and installed at the rear of the apparatus under the tailboard.

The back-up alarm shall activate automatically when the transmission is placed in reverse gear and the ignition is "on."

PO00002932 - DUAL CHROME AIR HORNS - HADLEY

QTY: 1.00

Two (2) chrome plated, Hadley air horns shall be at the front of the vehicle.

The air horns shall be mounted in full compliance with NFPA-1901.

The supply lines shall be dual 1/4" lines with equal distance from each horn.

PO00002942 - DUAL AIR HORNS RECESSED IN FRONT BUMPER, STD

QTY: 1.00

Both air horns shall be recessed in the front bumper.

PO00026749 - AIR HORN CONTROL -STEERING WHEEL HORN BUTTON FOR DRIVER

QTY: 1.00

The air horn(s) shall be controlled by the steering wheel horn button for the driver.

PO00026731 - AIR HORN CONTROL - CEILING MOUNTED LANYARD FOR OFFICER

QTY: 1.00

The air horn(s) shall be controlled by a pull chain/cable for the officer.

PO00004210 - SIREN, WHELEN # 295HFS2, 100W - FLUSH MOUNT

QTY: 1.00

One (1) Whelen # 295HFS2, 100 watt electronic siren shall be provided featuring: flush mount remote control head recessed in center dash panel as space allows, "Si-Test" self diagnostic feature, six (6) function siren, radio repeat, and public address.

The electronic siren and speaker shall meet the NFPA required SAE certification to ensure compatibility between the siren and speaker.

PO00004239 - ONE (1) WHELEN SA315P SPEAKER

QTY: 1.00

One (1) Whelen, model # SA315P composite black siren speaker, shall be provided, recessed in the front bumper and wired to the electronic siren.

PO00024983 - POLISHED STEEL ELECTRONIC SIREN SPEAKER GRILL

QTY: 1.00

A custom electric siren speaker grill shall be provided. This grill shall include the KME company logo cut into the center.

PO00004251 - AM/FM/CD STEREO, WIRELESS REMOTE +4 SPEAKERS

QTY: 1.00

An AM / FM radio with CD, iPod, iPhone, MP3, WMA compatible and Bluetooth wireless remote control abilities, shall be installed in the cab overhead panel as space allows.

The speakers shall be located as follows:

- (2) 6 inch mounted in the Front of the cab
- (2) 6 inch mounted in the Rear of the cab

A heavy duty flexible base antenna shall be provided on the cab.

PO00004702 - HALE QMAX-XS 200 2000 GPM SINGLE STAGE PUMP

QTY: 1.00

- HALE QMAX-XS 200
- 2000 G.P.M.

Single Stage The pump must deliver the percentage of rated capacity at the pressure listed below:

- 100% of rated capacity at 150 P.S.I. net pump pressure
- 100% of rated capacity at 165 P.S.I. net pump pressure
- 70% of rated capacity at 200 P.S.I. net pump pressure
- 50% of rated capacity at 250 P.S.I. net pump pressure.

The pump shall be of a size and design to mount on the chassis rails of commercial and custom truck chassis and have the capacity of 2000 gallons per minute (U.S. GPM), NFPA-1901 rated performance.

The entire pump shall be manufactured and tested at the pump manufacturer's factory. The pump shall be driven by a drive line from the truck transmission. The engine shall provide sufficient horsepower and RPM to enable the pump to meet and exceed its rated performance. The entire pump, both suction and discharge passages, shall be hydrostatically tested to a pressure of 600 PSI. The pump shall be fully tested at the pump manufacturer's factory to performance specs as outlined by the latest NFPA-1901. Pump shall be free from objectionable pulsation and vibration. The pump body and related parts shall be of fine grain alloy cast iron with a minimum tensile strength of 30,000 PSI. All moving parts in contact with water shall be of high quality bronze or stainless steel. Pumps utilizing castings made of lower tensile strength cast iron are not acceptable. Pump body shall be horizontally split, on a single plane in two sections for easy removal of entire impeller assembly including wear rings and bearings from beneath the pump without disturbing piping or the mounting of the pump in chassis.

Pump shaft to be rigidly supported by three bearings for minimum deflection. One high lead bronze sleeve bearing shall be located immediately adjacent to the impeller (on side opposite the gearbox). The sleeve bearing is to be lubricated by a force fed, automatic oil lubricated design, pressure balanced to exclude foreign material. The pump shaft shall be heat-treated, electric furnace, corrosion resistant stainless steel to be super-finished under packing with galvanic corrosion (zinc foil separators in packing) protection for longer shaft life. Pump shaft must be sealed with double-lip oil seal to keep road dirt and water out of gearbox.

The pump shall have one double suction impeller. The pump body shall have two opposed discharge volute cutwaters to eliminate radial unbalance. (No exceptions) Pump impeller shall be hard, fine grained bronze of the mixed flow design, accurately machined, and individually balanced. The vanes of the impeller intake eyes shall be of sufficient size and design to provide ample reserve capacity utilizing minimum horsepower. Impeller clearance rings shall be bronze, easily renewable without replacing impeller or pump volute body, and of wrap-around double labyrinth design for maximum efficiency.

PO00010792 - PUMP RATIO

QTY: 1.00

The pump ratio shall be selected by the apparatus manufacturer to give maximum performance with the engine and transmission selected.

The manufacturer shall supply at time of delivery copies of the pump manufacturer's certification of hydrostatic testing, the engine manufacturer's current certified brake horsepower curve.

PO00009802 - PUMP MOUNTS - MID-SHIP PUMPS

QTY: 1.00

Extra heavy duty pump mounting brackets shall be furnished.

These shall be bolted to the frame rails in such a position to perfectly align the pump so that the angular velocity of the drive line joints shall be the same on each end of the drive shaft.

This shall assure full capacity performance with a minimum of vibration. Mounting hardware shall utilize Grade 8 bolts.

PO00009138 - HALE MECHANICAL PUMP SEAL

QTY: 1.00

The mid ship pump shall be equipped with a high quality, spring loaded, self-adjusting mechanical seal capable of providing a positive seal to atmosphere under all pumping conditions.

This positive seal to atmosphere must be achievable under vacuum conditions up to 26 Hg (draft) or positive suction pressures up to 250 PSI.

The mechanical seal assembly shall be 2 inches in diameter and consists of a carbon sealing ring, stainless steel coil spring,

Viton rubber boot, and a tungsten carbide seat with a Teflon backup seal provided.

Only one (1) mechanical seal shall be required, located on the first stage suction (inboard) side of the pump and be designed to be compatible with a one piece pump shaft.

A continuous cooling flow of water from the pump shall be directed through the seal chamber when the pump is in operation.

PO00009105 - HALE PUMP "G" DRIVE UNIT, ALL HALE FULL CAST PUMPS

QTY: 1.00

The drive unit shall be completely assembled and tested at the pump manufacturer's factory.

Pump drive unit shall be of sufficient size to withstand up to 16,000 lbs. ft. of torque of the engine in both road and pump operating conditions.

The drive unit shall be designed of ample capacity for lubrication reserve and to maintain the proper operating temperature.

The gearbox drive shafts shall be of heat treated chrome nickel steel and at least 2-3/4 inches in diameter on both the input and output drive shafts.

They shall withstand the full torque of the engine in both road and pump operating conditions.

All gears, both drive and pump, shall be of the highest quality electric furnace chrome nickel steel.

Bores shall be ground to size and teeth integrated, chrome-shaven and hardened, to give an extremely accurate gear for long life, smooth, quiet running and higher load carrying capability.

An accurately cut spur design shall be provided to eliminate all possible end thrust.

PO00010793 - PUMP SHIFT MANUAL OVERRIDE

QTY: 1.00

An emergency manual pump shift control shall be furnished on the left side pump panel which may be utilized if the air shift control does not operate. A transmission, manual lock-up switch shall be furnished in the cab to ensure positive lock-up of the transmission.

PO00012078 - HALE PUMP SHIFT INDICATOR LIGHTS

QTY: 1.00

For automatic transmissions, three (3) green warning lights shall be provided to indicate to the operator(s) when the pump has completed the shift for Road to Pump position.

Two (2) green lights to be located in the truck driving compartment and one (1) green light on pump operator's panel adjacent to the throttle control.

For manual transmissions, one (1) green warning light shall be provided for the driving compartment.

All lights to have appropriate identification/instruction plates.

PO00010750 - AUXILIARY ENGINE COOLER

QTY: 1.00

An auxiliary cooler or heat exchanger shall be installed in the engine compartment between the engine and the chassis radiator.

The cooler shall permit the use of water from the pump for cooling the engine.

The cooling shall be done without mixing engine and pump water.

PO00004810 - FIRE RESEARCH "PUMP BOSS" PBA400 PRESSURE GOVERNOR

QTY: 1.00

The apparatus shall be equipped with a Fire Research PumpBoss model# PBA400 pressure governor and monitoring display kit. The kit shall include a control module, intake pressure sensor, discharge pressure sensor, and cables. The control module case shall be waterproof and have dimensions not to exceed 6 3/4" high by 4 5/8" wide by 1 1/2" deep. The control knob shall be 2" in diameter with no mechanical stops, have a serrated grip, and a red idle push button in the center. It shall not extend more than 1 3/4" from the front of the control module. Inputs for monitored information shall be from a J1939 databus or independent sensors. Outputs for engine control shall be on the J1939 databus or engine specific wiring. Inputs to the control module from the pump discharge and intake pressure sensors shall be electrical. The following continuous displays shall be provided:

- Engine RPM; shown with four daylight bright LED digits more than 1/2" high
- Check engine and stop engine warning LEDs * Oil pressure; shown on a dual color (green/red) LED bar graph display
- Engine coolant temperature; shown on a dual color (green/red) LED bar graph display
- Transmission Temperature: shown on a dual color (green/red) LED bar graph display
- Battery voltage; shown on a dual color (green/red) LED bar graph display
- Pressure and RPM operating mode LEDs
- Pressure / RPM setting; shown on a dot matrix message display
- Throttle ready LED

The dot-matrix message display shall show diagnostic and warning messages as they occur. It shall show monitored apparatus information, stored data, and program options when selected by the operator. All LED intensity shall be automatically adjusted for day and night time operation. The program shall store the accumulated operating hours for the pump and engine to be displayed with the push of a button. It shall monitor inputs and support audible and visual warning alarms for the following conditions:

- High Battery Voltage
- Low Battery Voltage (Engine Off)
- Low Battery Voltage (Engine Running)
- High Transmission Temperature
- Low Engine Oil Pressure
- High Engine Coolant Temperature
- Out of Water (visual alarm only)
- No Engine Response (visual alarm only)

The program features shall be accessed via push buttons located on the front of the control module. There shall be a USB port located at the rear of the control module to upload future firmware enhancements. The governor shall operate in two control modes, pressure and RPM. No discharge pressure or engine RPM variation shall occur when switching between modes. A throttle ready, LED shall light when the interlock signal is recognized. The governor shall start in pressure mode and set the engine RPM to idle. In pressure mode the governor shall automatically regulate the discharge pressure at

the level set by the operator. In RPM mode the governor shall maintain the engine RPM at the level set by the operator except in the event of a discharge pressure increase. The governor shall limit a discharge pressure increase in RPM mode to a maximum of 30 psi. Other safety features shall include recognition of no water conditions with an automatic programmed response and a push button to return the engine to idle. The pressure governor and monitoring pressure display shall be programmed to interface with a specific engine.

PO00011411 - ELKHART STYLE #40 INTAKE RELIEF VALVE

QTY: 1.00

An Elkhart Model 40 intake relief valve system shall be plumbed on the suction side of the pump to comply fully with NFPA-1901 requirements.

It shall have an adjustable pressure relief setting from 75 psi to 250 psi and is factory preset at 125 psi.

Excess pressures shall be plumbed to discharge water under the pump enclosure away from the pump operator.

PO00009890 - TRIDENT "MANUAL" AIR PRIMING SYSTEM

QTY: 1.00

The priming pump will be a Trident air primer system.

A push in primer handle will open the priming valve and prime the pump.

PO00004825 - ROTARY MASTER DRAIN VALVE

QTY: 1.00

A rotary type, 12 port, master drain valve shall be provided and controlled at the lower portion of the side pump panel.

The valve shall be located in pump compartment lower than the main body and connected in such a manner as to allow complete water drainage of the pump body and all required accessories.

Water shall be drained below the apparatus body and away from the pump operator.

PO00004830 - DRAINS/BLEEDER "INNOVATIVE CONTROLS" LIFT UP @ ALL 1-1/2" OR LARGER

QTY: 1.00

All lines shall drain through the master drain valve or shall be equipped with individual drain valves, easily accessible, and labeled.

One (1) individual "Innovative Control" lift up drain valve shall be furnished for each 1-1/2" or larger discharge port and each 2-1/2" gated auxiliary suction.

Drain/bleeder valves shall be located at the bottom of the side pump module panels. All drains and bleeders shall discharge below the running boards.

PO00004840 - SYNFLEX SUCTION, DISCHARGE, PRESSURE AND CONTROL LINES

QTY: 1.00

Small lines within the pump enclosure shall be constructed from Synflex hose.

Uses include but are not limited to such lines as priming control, gauge lines, drain lines, air control valves, pump shift, supplemental cooling, foam flush, and air bleeder valves.

PO00010965 - SUCTION INLETS - 6” INLETS

QTY: 1.00

Two (2) 6" N.S.T. suction inlets shall be provided, one on the driver side and one on the officer side pump panel.

A removable strainer shall be installed on each inlet.

PO00024018 - SHORT NECK MAIN PUMP SUCTION INLETS

QTY: 1.00

The main pump suction inlets shall be furnished with a short suction end, terminating with only the suction threads protruding through the side panel to minimize the distance an exterior appliance protrudes beyond the pump panel.

PO00012076 - BEHIND PANEL MOUNT

QTY: 1.00

All side gated inlet valves shall be recess mounted behind the side pump panels or body panels. There will be no exceptions.

PO00023976 - 6" NST INTAKE CAP - DRIVER SIDE

QTY: 1.00

A 6" NST chrome plated long handle pressure vented cap shall be installed on driver side intake.

PO00023980 - 6" NST INTAKE CAP - OFFICER SIDE

QTY: 1.00

A 6" NST chrome plated long handle pressure vented cap shall be installed on officer side intake.

PO00011334 - 2-1/2" DRIVER SIDE AUX SECONDARY SUCTION INLET REAR OF MAIN

QTY: 1.00

One (1) 2-1/2" auxiliary suction shall be provided at the driver side pump panel, to the rear of the main inlet (if space and other components allow).

The 2-1/2" auxiliary suction shall terminate with a removable strainer, chrome plated 2-1/2" NST female swivel with a chrome plated plug and retaining chain.

PO00004966 - 2-1/2" ELKHART VALVE, DRIVER SIDE REAR AUX SUCTION

QTY: 1.00

An EB25, 2 1/2" Elkhart Unibody valve, shall be provided for the driver side rear auxiliary suction.

PO00004978 - SWING CONTROL @ VALVE, DRIVER SIDE REAR AUX SUCTION

QTY: 1.00

A 1/4 turn swing control handle shall be provided on the driver side rear auxiliary suction valve.

PO00023881 - TANK TO PUMP 3” VALVE

QTY: 1.00

One (1) 4" tank to pump line shall be piped into the tank sump. This line shall be plumbed directly into the rear of the pump suction manifold for maximum efficiency.

A check valve shall be provided to prevent accidental pressurization of the water tank through the pump connection. Connection from the valve to the tank shall be made by using a non-collapsible flexible rubber hose.

PO00005000 - 3" ELKHART VALVE FOR TANK TO PUMP

QTY: 1.00

An EB30, 3" Elkhart Unibody valve, shall be provided between the pump suction manifold and the water tank.

PO00010956 - 3" PUSH/PULL CONTROL FOR TANK TO PUMP

QTY: 1.00

A push/pull control handle shall be located on the operator's panel with function plate.

PO00010962 - TANK FILL LINE 2" FROM PUMP - SIDE MOUNT

QTY: 1.00

One (1) 2" gated full flow pump to tank refill line controlled at the pump panel shall be provided. A deflector shield inside the tank shall be furnished. Tank fill plumbing shall utilize 2" high pressure hose for tank connection to accommodate flexing between components. There will be no exceptions.

PO00005032 - 2" ELKHART VALVE FOR TANK FILL - SIDE PANEL

QTY: 1.00

An EB20, 2" Elkhart Unibody valve, shall be provided between the pump discharge manifold and the water tank.

PO00009815 - PUSH/PULL CONTROL FOR TANK FILL

QTY: 1.00

A push/pull control handle shall be located on the operator's panel with function plate.

PO00012083 - DRIVER SIDE MAIN DISCHARGE #1

QTY: 1.00

A discharge shall be provided and located at the driver's side pump panel.

The driver's side discharges # 1 shall terminate with NST threads, through the left panel above the main pump intake.

The main pump discharge shall be plumbed directly from the pump discharge manifold utilizing direct connect discharge valve flanges.

PO00009228 - ELKHART 2-1/2" VALVE FOR DRIVER SIDE #1

QTY: 1.00

An EB25, 2 1/2" Elkhart Unibody valve, shall be provided for the driver's side # 1 discharge.

PO00005039 - DS #1 DISCHARGE - 2-1/2" STRAIGHT NST & 30-DEGREE NST ELBOW

QTY: 1.00

The discharge valve shall be equipped with a straight 2 1/2" NST adapter that shall be equipped with a 2 1/2" NST, 30-degree, chrome plated elbow.

PO00005050 - 2-1/2" NST PRESSURE VENTED CAP - DRIVER SIDE DISCHARGE #1

QTY: 1.00

A 2 1/2 " NST, chrome plated pressure vented cap shall be installed on driver's side #1 discharge.

PO00005084 - PUSH/PULL CONTROL FOR DRIVER SIDE DISCHARGE #1 -SIDE MOUNT

QTY: 1.00

The driver's side # 1 discharge valve shall be controlled by a push/pull handle located on the operator's panel.

PO00005121 - INNOVATIVE CONTROLS LIQUID FILLED 2-1/2" PRESS GAUGE SS- DRIVER SIDE DISCHARGE #1

QTY: 1.00

The driver's side # 1 discharge shall be equipped with a 2.5" Innovative Controls pressure gauge.

The gauge shall have a rugged, corrosion free stainless steel case and clear scratch resistant molded crystals with captive, O-ring seals to ensure distortion free viewing and seal the gauge.

The gauge shall be filled with glycerin to dampen shock and vibration, lubricate the internal mechanisms, prevent lens condensation and ensure proper operation from -40F to +160F.

The gauge shall exceed ANSI B40.1 Grade A requirements with an accuracy of +/- 1.5% full scale and include a size appropriate phosphorous, bronze, bourdon tube with a reinforced lap joint and large tube base to increase the tube life and gauge accuracy.

A polished chrome-plated stainless steel bezel shall be provided to prevent corrosion and protect the lens and gauge case.

The gauge shall have black graphics on a white background.

PO00012086 - OFFICER SIDE MAIN DISCHARGE #1

QTY: 1.00

A discharge shall be provided and located at the officer's side pump panel.

The officer's side discharges #1 shall terminate with NST threads, through the officer's side panel above the main pump intake.

The main pump discharge shall be plumbed directly from the pump discharge manifold utilizing direct connect discharge valve flanges.

PO00005284 - ELKHART 4" VALVE FOR OFFICER SIDE #1, SIDE MOUNT

QTY: 1.00

An EB40, 4" Elkhart Unibody valve, shall be provided for the officer's side # 1 discharge.

PO00005299 - OS #1 DISCHARGE - 4" STRAIGHT NST

QTY: 1.00

The discharge valve shall be equipped with a straight, 4" NST adapter.

PO00005331 - 4" NSTF X 5" STORZ KOCHEK SKE-R 30° ADAPTER WITH CAP OFFICER SIDE DISCHARGE #1

QTY: 1.00

A 4" NSTF X 5" Storz Kochek, SKE-R 30 adapter with cap shall be provided on the officer's side # 1 discharge.

PO00005363 - ELKHART HANDWHEEL GEAR VALVE CONTROL, OFFICER SIDE DISCHARGE #1

QTY: 1.00

The officer's side, # 1 discharge valve shall be gated with an Elkhart, Hand wheel controlled, inline valve.

The valve shall be controlled at the pump operator's panel with a chrome plated, hand wheel with a built in valve position indicator.

PO00005370 - INNOVATIVE CONTROLS LIQUID FILLED 2-1/2" PRESS GAUGE SS- OFFICER SIDE DISCHARGE #1

QTY: 1.00

The officer's side, # 1 discharge shall be equipped with a 2.5", Innovative Controls pressure gauge.

The gauge shall have a rugged, corrosion free, stainless steel case and clear, scratch resistant, molded crystals with captive, O-ring seals to ensure distortion free viewing and seal the gauge.

The gauge shall be filled with glycerin to dampen shock and vibration, lubricate the internal mechanisms, prevent lens condensation and ensure proper operation from -40F to +160F.

The gauge shall exceed ANSI B40.1 Grade A requirements with an accuracy of +/- 1.5% full scale and include a size appropriate phosphorous, bronze bourdon tube with a reinforced lap joint and large tube base to increase the tube life and gauge accuracy.

A polished, chrome-plated, stainless steel bezel shall be provided to prevent corrosion and protect the lens and gauge case.

The gauge shall have black graphics on a white background.

PO00012087 - OFFICER SIDE MAIN DISCHARGE #2

QTY: 1.00

A discharge shall be provided and located at the officer's side pump panel.

The officer's side discharges #2 shall terminate with NST threads, through the officer's side panel above the main pump intake.

The main pump discharge shall be plumbed directly from the pump discharge manifold utilizing direct connect discharge valve flanges.

PO00005396 - ELKHART 2-1/2" VALVE FOR OFFICER SIDE #2, SIDE MOUNT

QTY: 1.00

An EB25, 2 1/2" Elkhart Unibody valve shall be provided for the officer's side #2 discharge.

PO00005403 - OS #2 DISCHARGE - 2-1/2" STRAIGHT NST & 30-DEGREE NST ELBOW

QTY: 1.00

The discharge valve shall be equipped with a straight, 2 1/2" NST, adapter that shall be equipped with a 2 1/2" NST, 30-degree, chrome plated elbow.

PO00005414 - 2-1/2" NST PRESSURE VENTED CAP - OFFICER SIDE DISCHARGE #2

QTY: 1.00

A 2 1/2" NST, chrome plated, pressure vented cap shall be installed on officer's side #2 discharge.

PO00005446 - PUSH/PULL CONTROL FOR OFFICER SIDE DISCHARGE #2 -SIDE MOUNT

QTY: 1.00

The officer's side, #2 discharge valve shall be controlled by a push/pull handle located on the operator's panel.

PO00005482 - INNOVATIVE CONTROLS LIQUID FILLED 2-1/2" PRESS GAUGE SS- OFFICER SIDE DISCHARGE #2

QTY: 1.00

The officer's side, #2 discharge shall be equipped with a 2.5", Innovative Controls, pressure gauge.

The gauge shall have a rugged, corrosion free, stainless steel case and clear, scratch resistant, molded crystals with captive, O-ring seals to ensure distortion free viewing and seal the gauge.

The gauge shall be filled with glycerin to dampen shock and vibration, lubricate the internal mechanisms, prevent lens condensation, and ensure proper operation from -40F to +160F.

The gauge shall exceed ANSI B40.1 Grade A requirements with an accuracy of +/- 1.5% full scale and include a size appropriate phosphorous, bronze bourdon tube with a reinforced lap joint and large tube base to increase the tube life and gauge accuracy.

A polished, chrome-plated, stainless steel bezel shall be provided to prevent corrosion and protect the lens and gauge case.

The gauge shall have black graphics on a white background.

PO00000011 - CROSSLAY #1, 1-1/2" - PUMPER

QTY: 1.00

A crosslay hose bed shall be provided and plumbed from the pump in a transverse design, located above the pump enclosure for quick attack deployment. The crosslay hose bed flooring shall be designed to be removable and constructed from brushed finish, perforated aluminum material.

PO00000014 - CROSSLAY #1 CAPACITY - 200 FEET OF 1-3/4" HOSE

QTY: 1.00

Crosslay #1 shall be designed to have a minimum total capacity of 3.5 cubic feet as required by NFPA - 1901 to accommodate a minimum of 200 feet of 1-3/4" fire hose.

PO00000022 - CROSSLAY #1 - DOUBLE STACK HOSE DESIGN

QTY: 1.00

Crosslay #1 hose bed shall be designed to accommodate the fire hose in a double stack configuration.

PO00006565 - 1-1/2" NST CHICKSAN SWIVEL - CROSSLAY #1

QTY: 1.00

The crosslay discharge shall terminate below the hosebed floor with a 1 1/2" NSTM chicksan swivel adapter.

The crosslay hose bed floor shall be slotted to allow the swivel to extend up through the floor, allowing the pre-connected hose to be pulled off either side of the apparatus without kinking the hose at the coupling connection.

PO00006572 - CROSSLAY #1, PLUMBING, 2" STAINLESS STEEL PIPING

QTY: 1.00

The crosslay #1 discharge shall be plumbed utilizing 2" schedule 10 stainless steel piping and/or flexible hose, 45 degree elbows and a limited number of 90 degree sweep elbows in an assembly from the pump to crosslay hose bed.

A minimum of one (1) grooved pipe coupling shall be furnished in this assembly, if necessary, to allow for flex and serviceability.

PO00006582 - ELKHART 2" VALVE FOR CROSSLAY #1

QTY: 1.00

An EB20, 2" Elkhart Unibody valve, shall be provided for the crosslay #1 discharge.

PO00006592 - PUSH/PULL CONTROL CROSSLAY #1

QTY: 1.00

The crosslay #1 discharge valve shall be controlled by a push/pull handle located on the operator's panel.

PO00006625 - INNOVATIVE CONTROLS LIQUID FILLED 2-1/2" PRESS GAUGE SS - CROSSLAY #1

QTY: 1.00

The crosslay #1 discharge shall be equipped with a 2.5" Innovative Controls pressure gauge.

The gauge shall have a rugged corrosion free stainless steel case and clear scratch resistant molded crystals with captive O-ring seals to ensure distortion free viewing and seal the gauge.

The gauge shall be filled with glycerin to dampen shock and vibration, lubricate the internal mechanisms, prevent lens condensation and ensure proper operation from -40F to +160F.

The gauge shall exceed ANSI B40.1 Grade A requirements with an accuracy of +/- 1.5% full scale and include a size appropriate phosphorous bronze bourdon tube with a reinforced lap joint and large tube base to increase the tube life and gauge accuracy.

A polished chrome-plated stainless steel bezel shall be provided to prevent corrosion and protect the lens and gauge case.

The gauge shall have black graphics on a white background.

PO00007712 - CROSSLAY #2 1-1/2"

QTY: 1.00

A crosslay hose bed shall be provided and plumbed from the pump in a transverse design, located above the pump enclosure for quick attack deployment.

The crosslay hose bed flooring shall be designed to be removable, constructed from brushed finish, perforated aluminum material.

PO00000024 - CROSSLAY #2 CAPACITY - 200 FEET OF 1-3/4" HOSE

QTY: 1.00

Crosslay #2 shall be designed to have a minimum total capacity of 3.5 cubic feet as required by NFPA - 1901 to accommodate a minimum of 200 feet of 1-3/4" fire hose.

PO00000032 - CROSSLAY #2 - DOUBLE STACK HOSE DESIGN

QTY: 1.00

Crosslay #2 hose bed shall be designed to accommodate the fire hose in a double stack configuration.

PO00024219 - 1-1/2" NST CHICKSAN SWIVEL - CROSSLAY #2

QTY: 1.00

The crosslay discharge shall terminate below the hose bed floor with a 1 1/2" NSTM chicksan swivel adapter. The crosslay hose bed floor shall be slotted to allow the swivel to extend up through the floor, allowing the pre-connected hose to be pulled off either side of the apparatus without kinking the hose at the coupling connection.

PO00006661 - CROSSLAY #2, PLUMBING, 2" STAINLESS STEEL PIPING

QTY: 1.00

The crosslay #2 discharge shall be plumbed utilizing 2" schedule 10 stainless steel piping and/or flexible hose, 45 degree elbows and a limited number of 90 degree sweep elbows in an assembly from the pump to crosslay hose bed.

A minimum of one (1) grooved pipe coupling shall be furnished in this assembly, if necessary, to allow for flex and serviceability.

PO00006671 - ELKHART 2" VALVE FOR CROSSLAY #2

QTY: 1.00

An EB20, 2" Elkhart Unibody valve, shall be provided for the crosslay #2 discharge.

PO00006681 - PUSH/PULL CONTROL CROSSLAY #2

QTY: 1.00

The crosslay #2 discharge valve shall be controlled by a push/pull handle located on the operator's panel.

PO00006712 - INNOVATIVE CONTROLS LIQUID FILLED 2-1/2" PRESS GAUGE SS - CROSSLAY #2

QTY: 1.00

The crosslay #2 discharge shall be equipped with a 2.5" Innovative Controls pressure gauge.

The gauge shall have a rugged corrosion free stainless steel case and clear scratch resistant molded crystals with captive O-ring seals to ensure distortion free viewing and seal the gauge.

The gauge shall be filled with glycerin to dampen shock and vibration, lubricate the internal mechanisms, prevent lens condensation and ensure proper operation from -40F to +160F.

The gauge shall exceed ANSI B40.1 Grade A requirements with an accuracy of +/- 1.5% full scale and include a size appropriate phosphorous bronze bourdon tube with a reinforced lap joint and large tube base to increase the tube life and gauge accuracy.

A polished chrome-plated stainless steel bezel shall be provided to prevent corrosion and protect the lens and gauge case.

The gauge shall have black graphics on a white background.

PO00011374 - VINYL CROSS LAY COVER

QTY: 1.00

A vinyl cross lay cover shall be provided. It shall be securely fastened at the front with snaps and Velcro at the rear, with straps to secure each end flap.

PO00011376 - CROSSLAY COVER RED IN COLOR

QTY: 1.00

The crosslay cover shall be red in color.

PO00012681 - AERIAL WATERWAY DISCHARGE - TA-HD AERIAL

QTY: 1.00

The 4" aerial waterway discharge shall be gated at the pump by a full flow ball valve.

PO00012685 - WATERWAY DISCHARGE, PLUMBING, 4" STAINLESS STEEL - REAR MOUNT

QTY: 1.00

The piping from the pump to the turntable shall be 4" minimum schedule 10 stainless steel pipe.

The pipe shall connect to the turntable waterway swivel.

This connection shall serve as the rear waterway inlet.

The piping shall be a minimum of heavy duty, schedule 10 piping which shall incorporate a minimum of two (2) grooved pipe clamps for easy removal.

******SPECIAL: SP00003194 - Elkhart 4" Valve For Deck Waterway***

QTY: 1.00

An EB4B, 4" Elkhart Unibody valve, shall be provided for the waterway discharge.

******SPECIAL: SP00003196 - 4" Elkhart #UBEC1C Electric Control For Aerial Waterway***

QTY: 1.00

The aerial waterway discharge valve shall be equipped with an Elkhart Model # UBEC1C, surface mounted electric valve control on the operator's panel with function plate. The control shall be equipped with ten (10) LED lights that show the range of the open/close position of the valve. The controller shall have a button to operate the Preset feature.

PO00010791 - PUMP INSTALLATION - CUSTOM

QTY: 1.00

PO00016063 - SIDE MOUNT PUMP MODULE, MD, RM AERIAL

QTY: 1.00

The pump module shall be a self-supported structure mounted independently from the body and chassis cab.

The design must allow normal frame deflection without imposing stress on the pump module structure or side running boards.

The pump module shall be securely mounted to the chassis frame rails.

PO00000007 - PUMP MODULE - ALUMINUM CONSTRUCTION

QTY: 1.00

The pump module shall be a welded frame work utilizing structural aluminum components properly braced to withstand the rigors of chassis frame flex.

******SPECIAL: SP00013078 - ON SCENE SOLUTIONS STEP @ DRIVER'S PUMP OPERATOR'S PANEL***

QTY: 1.00

A slide-out platform shall be located below the driver's side running board step.

The platform shall be constructed from an On Scene Solutions 819 series slide with a tread plate overlay and Grip-Strut material inserts. The step shall have a minimum weight rating of 500 pounds.

Deployment of this platform shall be connected to the DO NOT MOVE TRUCK warning circuit.

Drawer slides are not acceptable.

PO00015375 - RUNNING BOARD STEPS (AERIALS ONLY)

QTY: 1.00

The driver and officer running board steps shall be fabricated of 3/16" tread plate plate. The outside edge on each step shall be fabricated with a double break, return flange. The steps shall be rigidly reinforced with a heavy duty support structure. The running boards shall not form any part of the compartment design, and shall be bolted into place with a minimum 1/2" clearance gap between any panel to facilitate water runoff.

PO00016114 - SIDE MOUNT PUMP PANEL - RM AERIAL

QTY: 1.00

The pump operator's control panel shall be located on the driver side of the apparatus.

The pump enclosure side panels shall be completely removable and designed for easy access and servicing.

PO00000095 - SIDE MOUNT PANELS - BLACK LINE-X COATED

QTY: 1.00

The left side operator's panel, gauge panel, right side pump panel, and right side access door shall be fabricated from 1/8" aluminum.

It will also be coated with black Line-X material. The Line-X material shall provide a heavy duty textured finish.

PO00000128 - VERTICALLY HINGED GAUGE PANEL - SIDE MOUNT

QTY: 1.00

A full width, vertically hinged gauge access panel shall be provided at the operator's position.

Chrome plated positive locks shall be provided along with chain holders to prevent the front of the gauge panel from coming in contact with other panels when open.

PO00000132 - OFFICER SIDE VERTICALLY HINGED PUMP ACCESS DOOR - SIDE MOUNT

QTY: 1.00

The officer's side pump panel shall be split and vertically hinged to provide complete access to the pump and plumbing on the officer's side of the pump enclosure.

The panels shall be equipped with stainless steel hinges and secured with push type locks to hold the panels closed.

The drains located on the officer's side panel shall be fastened to the lower panel, which shall be stationary.

PO00010829 - PANEL FASTENERS

QTY: 1.00

Stainless steel machine screws and lock washers shall be used to hold these panels in position.

The panels shall be easily removable to provide complete access to the pump for major service.

PO00010831 - CAPS AND ADAPTERS SAFETY TETHER - CABLES

QTY: 1.00

All applicable discharge and suction caps, plugs and adapters shall be equipped with tether cables and secured to the vehicle.

PO00010832 - PUMP PANEL DISCHARGE/SUCTION TRIM PLATES, HIGH POLISHED

QTY: 1.00

A high polished trim plate shall be provided around each discharge port and suction inlet opening to allow accessibility to the respective valve for service and repairs.

PO00010833 - DISCHARGE GAUGE TRIM BEZELS

QTY: 1.00

Each individual discharge gauge shall be installed into a decorative chrome-plated mounting bezel that incorporates valve-identifying verbiage and color labels, unless manufacturer supplied otherwise.

PO00010835 - PUMP PANEL TAGS FASTENED WITH MACHINE SCREWS

QTY: 1.00

The pump panel identification plates shall be securely fastened to the pump panels with machine screws.

PO00012156 - PUMP OPERATOR'S PANEL LIGHT SHIELD

QTY: 1.00

The pump operator’s panel shall be equipped with a light shield that shall be the full available width of the control panel, and shall be positioned to cover the lights and prevent glare. (Note: On apparatus with lowered style crosslays, the light shield shall be from the back of the crosslays to the rear of the pump house).

The light shield shall be equipped with the following lights:

PO00012162 - FRC FIREFLY LED LIGHTS - LIGHT SHIELD

QTY: 1.00

Four (4) Fire Research LED100-Q01, Firefly, LED lights.

One (1) light under the operator's panel light shield shall be actuated when fire pump is engaged in addition to the pump engaged light.

PO00012175 - TECNIQ EON 3 LED LIGHTS - OFFICER SIDE PUMP PANEL

QTY: 1.00

Four (4) TecNiq Eon, 3-LED illumination lights mounted in horizontal stainless steel bezels and mounting gaskets.

The lights shall be switched with the main pump panel lights.

PO00012573 - AIR HORN CONTROL BUTTON ON PUMP PANEL

QTY: 1.00

Pump panel air horn actuation button labeled "EVACUATION" in white letters with a red background.

PO00011409 - PUMP PRESSURE & VACUUM TEST PORTS @ PANEL

QTY: 1.00

The pump panel shall be equipped with Vacuum Pressure test plugs to allow for test equipment to monitor pump pressure and vacuum levels.

Chrome plugs and labels shall be provided for the test ports.

PO00011423 - 4" INNOVATIVE CONTROLS MASTER PRESSURE AND COMPOUND GAUGES

QTY: 1.00

One (1) 4" diameter pressure gauge (labeled: "PRESSURE") and one (1) 4" diameter compound vacuum gauge (labeled: "INTAKE") shall be provided.

The master gauges shall be Innovative Controls glycerin filled.

The gauge faces shall be white with black numerals.

PO00011442 - PRESSURE & COMPOUND GAUGE RANGES - SINGLE STAGE

QTY: 1.00

All applicable pressure gauges shall have a range of 0 - 400 P.S.I., and the compound gauge shall have a range of -30" - 0 - 400 P.S.I.

PO00025813 - PUMP THIRD PARTY CERTIFICATION - 750 GPM & UP

QTY: 1.00

The pump shall be third party performance tested to meet the requirements of NFPA-1901. There will be no exceptions.

PO00023886 - TANK DESCRIPTION AND MOUNT

QTY: 1.00

The Poly water tank shall be constructed of polypropylene material. This material shall be a non-corrosive stress relieved thermoplastic and UV stabilized for maximum protection. Tank shell thickness may vary depending on the application and may range from 1/2" to 1" as required. Internal baffles are generally 3/8" in thickness.

The tank shall be of a specific configuration and is so designed to be completely independent of the body and compartments. Joints and seams shall be fused using nitrogen gas as required and tested for maximum strength and integrity. The tank construction shall include technology wherein a sealant shall

be installed between the plastic components prior to being fusion welded. This sealing method will provide a liquid barrier offering leak protection in the event of a weld compromise. The top of the booster tank is fitted with a removable lifting assembly designed to facilitate tank removal. The transverse and longitudinal swash partitions shall be manufactured of a minimum of 3/8" polypropylene. All partitions shall be equipped with vent and air holes to permit movement of air and water between compartments. The partitions shall be designed to provide maximum water flow. All swash partitions interlock with one another and are completely fused to each other as well as to the walls of the tank. All partitions and spacing shall comply with NFPA 1901. The walls shall be welded to the floor of the tank providing maximum strength as part of the tank's unique full floor design.

Tolerances in design allow for a maximum variation of 1/8" on all dimensions.

The tank cover shall be constructed of 1/2" thick polypropylene and UV stabilized, to incorporate a multi-piece locking design, which allows for individual removal and inspection if necessary. The tank cover(s) shall be flush or recessed 3/8" from the top of the tank and shall be fused to the tank walls and longitudinal partitions for maximum integrity. Each one of the covers shall have hold downs consisting of 2" minimum polypropylene dowels spaced a maximum of 40" apart. These dowels shall extend through the covers and will assist in keeping the covers rigid under fast filling conditions. A minimum of two lifting dowers shall accommodate the necessary lifting hardware.

The tank shall have a combination vent and manual fill tower. The fill tower shall be constructed of 1/2" polypropylene and shall be a minimum dimension of 8" x 8" outer perimeter. The fill tower shall be blue in color indicating that it is a water-only fill tower. The tower shall be located in the left front corner of the tank unless otherwise specified by the tank manufacturer to the purchaser. The tower shall have a 1/4" thick removable polypropylene screen and a polypropylene hinged cover. The capacity of the tank shall be engraved on the top of the fill tower lid. Inside the fill tower there shall be a combination vent/overflow pipe. The vent overflow shall be a minimum of schedule 40 polypropylene pipe with a minimum I.D. of that is designed to run through the tank, and shall be piped to discharge water behind the rear wheels as required in NFPA 1901 so as to not interfere with rear tire traction.

The fill tower shall be fitted with an integral 4" I.D. schedule 40 P.V.C. combination overflow/vent pipe running from the fill tower through the tank to the exterior to allow water to overflow below the aerial body.

There shall be one (1) sump standard per tank. The sump is a minimum of 8" wide and 8" long with a 3/4" bottom, unless specified otherwise in special provisions. The sump shall have a threaded plug located at the bottom for a tank drain. An anti-swirl plate shall be mounted inside the sump approximately 1" off the floor of the sump.

There shall be two (2) standard tank outlets; one for tank-to-pump suction line and one for a tank fill line. All tank fill couplings shall be backed with flow deflectors to break up the stream of water entering the tank.

All tanks shall be tested and certified as to capacity on a calibrated and certified tilting scale. Each tank shall be weighed empty and full to provide precise fluid capacity. Each tank is delivered with a Certificate of Capacity delineating the weight empty and full and the resultant capacity based on weight.

******SPECIAL: SP00002663 - UPF POLY III TANK, 650 GALLON - AERIAL***

QTY: 1.00

The water tank shall have a capacity of 650 gallons, constructed from UPF PolyIIE.

PO00007585 - IC, SL ULTRA-BRIGHT 14 LIGHT LED WATER TANK GAUGE - PUMP

QTY: 1.00

An Innovative Controls model #3030385, Ultra-Bright LED water level monitor shall be provided on the pump operator's panel.

The level gauge shall contain fourteen (14) high intensity LEDs on the display in a "V" pattern allowing the full, 3/4, 1/2, 1/4 and refill levels to be easily distinguished at a glance.

It shall be maintenance free and field adjustable.

PO00007592 - IC WATER LEVEL - 1/4" NPT PRESS TRANSDUCER @ BOTTOM OF TANK

QTY: 1.00

The gauge shall use a pressure transducer #3030376-01 installed near the bottom of the water tank to determine the correct volume in the tank.

PO00023832 - BODY AND COMPARTMENT HEADER

QTY: 1.00

******SPECIAL: SP00002671 - General Compartment***

QTY: 1.00

COMPARTMENT TOPS

Compartment tops shall be covered with polished aluminum tread plate on both sides of the body. The aluminum tread plate shall have a flange downward, over the top of compartments to serve as a drip rail above the compartment doors.

ACCESS PANELS

Removable access panels shall be provided in the lower running board compartments to access hydraulic components, electrical harnesses, and the rear body mounts.

All access panels shall be equipped with the same finish as the compartment interiors.

COMPARTMENT VENTILATION

Ventilation between compartments to atmosphere shall be provided and located in a position that avoids water entry into compartments.

COMPARTMENT DRIP MOLDING

Compartment tops overall side compartments shall be equipped with a flanged edge to provide protection against water run-off. A secondary polished extruded aluminum drip molding shall be provided between lower compartments and auxiliary high side compartments.

BODY TRIM

The body shall be protected and covered with bright finished polished aluminum tread plate. The tread plate shall be fastened with stainless steel hardware and shall be coated with rubber type undercoating between the body panel and tread plate to protect from moisture. All edges shall be sealed with silver, rubber caulking.

Polished aluminum tread plate shall be provided in the following areas:

- ***All surfaces of the compartments or on top of the body where personnel may walk or mount equipment***
- ***Front of body***
- ***Below aerial turntable decking***

- ***Top of the pump enclosure (if applicable)***
  Cover over the water tank (if applicable)
- ***Cover over hydraulic tank***
- ***Top of mid-ship compartment (if applicable)***

******SPECIAL: SP00002674 - Gen. 3/16" Alum Body Descript Rear Mnt. Ladders, Heavy Duty***

QTY: 1.00

GENERAL BODY DESCRIPTION - 96" WIDE
It is the intention of the fire department to purchase a completely modular body consisting of independent body modules or subassemblies bolted to an independent heavy duty support framework. The following body portions of these specifications outline the minimum standards of construction required by the fire department to meet this need. Bidders {will/shall} supply satisfactory evidence of their ability to build such a unit, including proof of the necessary tooling and fixtures required to produce parts in quantity to exacting tolerances and evidence of a comprehensive body parts stocking program.
To ensure the customer of soul source manufacturing, the body must be built by the same manufacturer of the entire chassis and aerial device. {No Exceptions}
COMPARTMENT FABRICATION 3/16" ALUMINUM
All compartment panels and body side sheets {will/shall} be entirely 3/16" aluminum 5052-H32 alloy. Each side compartment assembly {will/shall} be both plug welded and stitch welded to ensure proper weld penetration on all panels while avoiding the distortion caused by a full seam weld. The side compartments {will/shall} be welded on a fixture to ensure true door and body dimensions. All compartments {will/shall} be of a modular design with sweep-out style floors. The bottoms of each running board compartment {will/shall} be adequately braced to provide maximum loading without undue deflection. All seams {will/shall} be caulked prior to finish paint to ensure proper compartment seal.
Due to the ladder storage area and sweep out floors, the running board compartments of this style vehicle are of a split height, split depth, full width configuration. The referenced compartment sizes approximate the extreme outside compartment dimensions without deductions for the floor material thicknesses, flanges or ladder storage compartment headers. To assure proper vehicle weight distribution, the compartment dimensions may change in width with the final body shift and wheelbase.
The body side and compartment assemblies {will/shall} be designed and assembled to provide maximum strength and durability under all operating conditions.
Special attention {will/shall} be taken to minimize corrosion on all fabricated parts and structural members of the body. All bolt-on components {will/shall} be provided with a dissimilar metals isolation barrier to prevent electric corrosion.
The body {will/shall} be completely isolated from the cab and pump module structure.
QUADRANT BODY SUPPORT SYSTEM
Due to the severe loading requirements of this aerial, a "quadrant" method of compartment body support suitable for the intended load will be provided. The structural component of the support system {will/shall} be the chassis frame rail, which is the strongest component of the chassis and is designed for supporting imposed loads.
A support system {will/shall} be used which will incorporate quadrant, under body support structures. This proven viability in vehicular applications, be of a failsafe design, and allow for all necessary movement in three (3) transitional and rotational modes. This {will/shall} result in a 500 pound equipment rating for each compartment of the body.
The compartments in front of the rear axle {will/shall} include a minimum of 3.00" steel support assemblies which are bolted to the chassis frame rails. A steel framework {will/shall} be mounted to the body above these support assemblies connected to the support assemblies with isolators. There {will/shall} be one support assembly mounted to each chassis frame rail.
The compartmentation behind the rear axle {will/shall} include a minimum of 3.00" steel support assemblies which are bolted to the chassis frame rails and extend underneath to the outside edge of the body. The support assembly {will/shall} be coated and a barrier tape installed to isolate the

dissimilar metals before it is bolted to the body. There {will/shall} be one support assembly mounted to each chassis frame rail.
The body and support structure {will/shall} be created utilizing 3D modeling and be fully tested. Proven engineering and test techniques such as finite element analysis, model analysis, stress coating and strain gauging have been performed with special attention given to fatigue life and structural integrity of the compartment body and substructure.
The body compartments are an integral assembly with the rear fenders. Fully enclosed rear wheel housings will be provided to prevent rust pockets and for ease of maintenance.
COATED FASTENERS - (NO EXCEPTIONS)
All exterior fasteners {will/shall} be coated stainless steel screws. Screw threads {will/shall} be coated with reusable, self-locking, sealing material to provide vibration resistance. Screw heads {will/shall} be coated with a sealing element to prevent galvanic corrosion between dissimilar metals. Non-coated screws {will/shall} only be provided as part of vendor supplied component installations.
NOTE: The use of aluminum pop rivets or self tapping screws as a trim fastener shall not be acceptable.

PO00009648 - FENDER WITH STORAGE OPTIONS (CUSTOM)

QTY: 1.00

PO00026253 - DRIVER FORWARD FENDER - TRIPLE STORAGE SLOT - SIGNATURE 4

QTY: 1.00

A Signature 4 storage compartment shall be inserted into the front driver side body fender.

The compartment shall be sized large enough to store three (3) SCBA cylinders or fire extinguishers, with a maximum length of 26".

The compartment shall have a non-abrasive lined floor area for the three (3) devices.

PO00026257 - DRIVER REARWARD FENDER - DOUBLE STORAGE SLOT - SIGNATURE 4

QTY: 1.00

A Signature 4 storage compartment shall be inserted into the rear driver side body fender.

The compartment shall be sized large enough to store two (2) SCBA cylinders or fire extinguishers, with a maximum length of 26".

The compartment shall have a non-abrasive floor area for the two (2) devices.

PO00026259 - OFFICER FORWARD FENDER - TRIPLE STORAGE SLOT - SIGNATURE 4

QTY: 1.00

A Signature 4 storage compartment shall be inserted into the front officer side body fender.

The compartment shall be sized large enough to store three (3) SCBA cylinders or fire extinguishers, with a maximum length of 26".

The compartment shall have a non-abrasive lined floor area for the three (3) devices.

PO00026262 - OFFICER REARWARD FENDER - TRIPLE STORAGE SLOT - SIGNATURE 4

QTY: 1.00

A Signature 4 storage compartment shall be inserted into the rear officer side body fender.

The compartment shall be sized large enough to store three (3) SCBA cylinders or fire extinguishers, with a maximum length of 26".

The compartment shall have a non-abrasive lined floor area for the three (3) devices.

SPECIAL: SP00036525 - DRIVER'S SIDE COMPARTMENTATION

QTY: 1.00

One high side compartment shall be provided at the front of the body above the stabilizer. The compartment dimensions shall be 29" wide x 27" tall x 25" deep. If applicable a tank fill tower notch shall be provided.

One full height/split depth compartment shall be provided forward of the rear wheels. The compartment dimensions shall be 34" wide x 72" tall x 25" deep in the lower 56" tall area and 13" deep in the upper 16".

One high side compartment shall be provided above the rear wheels. The compartment dimensions shall be 77" wide x 39" high x 25" deep. This compartment shall be provided with two (2) equally sized door openings.

One high side compartment shall be provided above the rear wheels. The compartment dimensions shall be 40" wide x 26" high x 25" deep.

One full height/full depth compartment shall be provided behind the rear wheels. The compartment dimensions shall be 36" wide x 59" tall x 22" deep.

SPECIAL: SP00036526 - OFFICER'S SIDE COMPARTMENTATION

QTY: 1.00

One high side compartment shall be provided at the front of the body above the stabilizer. The compartment dimensions shall be 29" wide x 27" tall x 25" deep. If applicable a tank fill tower notch shall be provided.

One full height/split depth compartment shall be provided forward of the rear wheels. The compartment dimensions shall be 34" wide x 72" tall x 25" deep in the lower 30" tall area and 13" deep in the upper 42".

One high side compartment shall be provided above the rear wheels. The compartment dimensions shall be 77" wide x 39" high x 13" deep. This compartment shall be provided with two (2) equally sized door openings.

One high side compartment shall be provided above the rear wheels. The compartment dimensions shall be 40" wide x 26" high x 13" deep.

One full height/full depth compartment shall be provided behind the rear wheels. The compartment dimensions shall be 36" wide x 59" tall x 22" deep in the lower 30" tall area and 13" deep in the upper 29".

PO00000285 - ROBINSON ROLL-UP DOORS, PAINTED FINISH

QTY: 8.00

The roll-up doors shall be made of Robinson (ROM) brand. The doors shall be painted to match the required color of the fire department.

PO00009734 - PAINTED ROLLUP DOORS - PAINTED CURTAIN, TOP GUTTER

QTY: 12.00

The top gutter and side frames shall be painted to match the required color of the fire department.

PO00024558 - ROLLUP PROTECTION PANELS ON 8 BODY DOORS

QTY: 1.00

Eight (8) rollup door protection panels shall be installed.

PO00012213 - KEYED DOOR LOCKS, HINGED OR ROLL-UP DOORS

QTY: 12.00

A compartment door(s) shall be equipped with keyed locking door latches.

Two keys shall be furnished for each lock and shall be labeled to indicate the correct match.

PO00015348 - COMPARTMENT FLOORS

QTY: 1.00

Compartment floors shall be welded to the compartment walls and have a sweep out design for easy cleaning.

******SPECIAL: SP00002659 - Rear Mount, Turntable Mitered Steps***

QTY: 1.00

One (1) turntable access ladder, on each side of the apparatus, on a 45-degree angle, will be provided at the rear of the apparatus in an A-frame configuration. The access ladders will be bolted to the rear body panel. The framework for the steps will be fabricated from 1/8" polished aluminum. A minimum of three (3) steps will be provided and will be fabricated from cast open grate material, providing a non-slip surface on each step. The steps will provide access or egress to and from the aerial device turntable. The driver side steps will be full height, the officer side will go as far as the landing deck for the hosebed. An Innovative Contols Lighted step will be provided on the rear facing hosebed wall to allow for access to the turntable.

A drop down step will be provided at the bottom of each turntable access ladder to keep the stepping area to a minimum when the vehicle's outriggers are in operation. The step will swing down into position and will be fabricated from cast aluminum, open grate material, which will be bolted to framework fabricated from aluminum. A safety latch will be provided to secure the step in the stowed position. The drop down steps will be incorporated in the "DO NOT MOVE TRUCK" warning circuit.

PO00012482 - TREAD PLATE OVERLAY, FRONT OF SIDE COMPARTMENTS (NON-WRAP AROUND)

QTY: 1.00

The front face of the side compartments, next to the driver and officer pump panels shall be overlaid with full height tread plate protection panels.

The overlays shall cover the front face of the compartments only, they shall not wrap around to the door opening.

PO00015351 - PAINTED REAR BODY PANEL, RM

QTY: 1.00

The entire rear of the body shall be overlaid with smooth aluminum painted job color, which shall extend the full width between body side compartments. The rear panel shall have an opening to access the ground ladder storage area. Each opening shall be equipped with roll-up or hinged doors as specified in the ground ladder storage section.

PO00027030 - BODY RUB RAILS, C-CHANNEL - ALUMINUM EXTRUSION

QTY: 1.00

Sacrificial extruded aluminum C-Channel style, rub rails shall be mounted at the base of the body, extending outward from the body. The rub rails shall extend the full length of the main body.

PO00015376 - REAR BODY MODULE, REAR MOUNTS A-FRAME ONLY

QTY: 1.00

The rear of the body shall be designed to include structure/frame bolted to the rear of the body to support the rear turntable access steps, the rear compartments and the central outrigger control panel. The module shall be constructed from a minimum of 1/8" material.

PO00015378 - REAR TURNTABLE ACCESS LADDER FRAMEWORK (SS) 75/100

QTY: 1.00

The body shall be designed to include structure to support the rear turntable access steps, the rear compartments and the central outrigger control panel.

PO00009797 - ALUMINUM WHEEL WELL LINERS

QTY: 1.00

The body wheel wells shall be provided with fully removable bolt-in aluminum fender liners. The wheel well liners shall extend from the outer wheel well body panel into the truck frame. The completely washable wheel well liners shall be designed to protect the front and rear compartments and main body supports from road salts, dirt accumulation and corrosion.

PO00010934 - REAR MUD FLAPS

QTY: 1.00

Heavy duty mud flaps shall be provided behind the rear wheels.

PO00015390 - REAR-MOUNTS, BODY HANDRAILS, KNURLED STAINLESS STEEL A-FRAME BODY

QTY: 1.00

All non-aerial device handrails are to be 1-1/4" diameter knurled stainless steel tubing with chrome plated end brackets.
Locations shall be as follows:
One full length attached to the rear edge of each A-frame turntable access ladder.

PO00015419 - REAR-MOUNT, HANDRAIL ABOVE PUMP PANEL, EACH SIDE, STAINLESS STEEL

QTY: 1.00

Two (2) knurled stainless steel handrails shall be mounted above each pump panel, (1) each side, to assist access from the running board steps to the top of the body.

PO00011511 - INNOVATIVE CONTROLS LIGHTED STEP(S), BODY FRONT, DRIVER SIDE

QTY: 1.00

Innovative Controls large lighted folding step(s), with a textured chrome plate finish, shall be provided on driver side body front to provide NFPA compliant access (maximum 18” height between steps) to an upper horizontal walking surface (compartment cap, dunnage area, fabricated step, or upper body compartments).

PO00011517 - INNOVATIVE CONTROLS LIGHTED STEP(S), BODY FRONT, OFFICER SIDE

QTY: 1.00

Innovative Controls large lighted folding step(s), with a textured chrome plate finish, shall be provided on officer side body front to provide NFPA compliant access (maximum 18” height between steps) to an upper horizontal walking surface (compartment cap, dunnage area, fabricated step, or upper body compartments).

PO00015454 - PAINTED REAR TOW EYES, BELOW BODY - REARMOUNT AERIAL

QTY: 1.00

Two (2) painted tow eyes shall be furnished on the rear of the vehicle. The tow eyes shall be made from plate steel and shall be bolted or welded directly to the aerial torque box and shall extend below the body. The tow eyes shall be smooth and free from sharp edges, and have a minimum eyelet hole of 2-1/2".

PO00003109 - ROM LED STRIP HOSE BED LIGHTS-SIDES OF HOSEBED ON WALLS

QTY: 1.00

Two (2) ROM, LED surface mounted lights shall be mounted in the hose bed on the side walls to illuminate the hose bed area.

PO00015459 - HOSE BED, REAR MOUNT AERIALS, 75-100 HIGH BODY

QTY: 1.00

A hose bed shall be provided in the upper section of the body forward of the turntable. All surfaces of the hose bed shall be free from all sharp objects such as bolts, nuts, etc., to avoid damage to fire hose.

PO00015470 - ALUMINUM HOSE BED FLOORING - AERIAL

QTY: 1.00

Flooring to be constructed from formed or extruded aluminum and be properly spaced for ventilation. The flooring shall be smooth and free from sharp edges to avoid hose damage. The hose bed floor shall be removable to provide access to inner body framework.

PO00023837 - VINYL WITH QUARTER TURNS

QTY: 1.00

A hose bed cover shall be provided and installed. The cover shall be made from heavy-duty vinyl coated polyester fabric. The cover shall be sewn with ultraviolet-resistant thread and shall have 2" wide nylon webbing sewn around the perimeter to provide additional strength.
The cover shall be secured to the top front body flange with quarter-turn fasteners. The cover shall be secured to the side body flanges with quarter-turn fasteners. A weighted flap shall be furnished on the rear of the cover with two (2) bungee cords.

PO00023841 - RED

QTY: 1.00

The Hypalon material shall be red in color.

PO00014876 - CENTER LADDER STORAGE, 79-100-109 TA REAR MOUNT

QTY: 1.00

All ground ladders (except as noted) shall be stored in the center of the aerial body. The ladders stored in the center of the body shall be fully enclosed.

PO00014898 - ROLL-UP DOOR - PAINTED LADDER COMPARTMENT, REAR MOUNT ONLY

QTY: 1.00

A painted roll-up door shall be provided for the ladders at the rear of the vehicle. If the body compartments are equipped with roll-up doors, the ladder storage door shall be the same brand. The color of the painted door shall match the color of the body or body doors.

******SPECIAL: SP00002666 - STAINLESS STEEL LADDER LOCK SYSTEM***

QTY: 1.00

A stainless plate with a two bend flange and a stainless steel hinge shall be provided to secure the aerial ladder complement. The plate assembly shall be mounted to the bottom of the entrance of the torque box ladder storage area. The plate shall be equipped with a spring loaded release to allow it to be hinged open.

When the plate is vertical, it shall secure the ladders and prevent them from migrating to the rear of the apparatus. When the plate is down and not securing the ladders, the roll-up door can not close, which shall activate the "Open Door Indicator Light" within the cab. The roll-up door together with hinge friction shall secure the plate in place during driving operations.

The ladder lengths label tags will be provided on both sides of the ladder lock system.

PO00021981 - DUO-SAFETY 1200-A 35' 2-SECTION EXTENSION LADDER (ALUMINUM)

QTY: 2.00

A Duo-Safety series 1200-A, 35', aluminum, two (2) section extension ladder shall be provided.

PO00021983 - DUO-SAFETY 1200-A 28' 2-SECTION EXTENSION LADDER (ALUMINUM)

QTY: 1.00

A Duo-Safety series 1200-A, 28', aluminum, two (2) section extension ladder shall be provided.

PO00021993 - DUO-SAFETY 875-A 18' ROOF LADDER W/ FOLDING HOOKS (ALUMINUM)

QTY: 1.00

A Duo-Safety series 875-A, 18', aluminum, straight roof ladder with folding hooks shall be provided.

PO00021994 - DUO-SAFETY 875-A 16' ROOF LADDER W/ FOLDING HOOKS (ALUMINUM)

QTY: 2.00

A Duo-Safety series 875-A, 16', aluminum, straight roof ladder with folding hooks shall be provided.

PO00022058 - DUO-SAFETY 701 14' ATTIC EXTENSION LADDER (ALUMINUM)

QTY: 1.00

A Duo-Safety series 701, 14', extending, aluminum, attic ladder shall be provided.

PO00022071 - DUO-SAFETY 585-A 10' FOLDING ATTIC LADDER (ALUMINUM)

QTY: 1.00

A Duo-Safety series 585-A, 10', folding, aluminum, attic ladder shall be provided.

PO00023728 - PIKE POLE TUBE(S) AERIALS

QTY: 6.00

A pike pole tube(s) shall be provided. Each shall be an individual tube type holder, mounted in the ladder storage area (if space allows). Each pike pole holder shall be labeled to indicate the pike pole length.

PO00020736 - ALUMINUM STRUT CHANNEL FOR FUTURE SHELVING

QTY: 1.00

Four (4) Aluminum Strut Channels shall be installed for future shelving installation in the following compartments:

PO00020765 - ALUMINUM STRUT, LOCATED L-2

QTY: 1.00

Left side compartment #2

PO00020766 - ALUMINUM STRUT, LOCATED L-3

QTY: 1.00

Left side compartment #3

PO00020767 - ALUMINUM STRUT, LOCATED L-4

QTY: 1.00

Left side compartment #4

PO00020768 - ALUMINUM STRUT, LOCATED L-5

QTY: 1.00

Left side compartment #5

PO00020772 - ALUMINUM STRUT, LOCATED R-2

QTY: 1.00

Right side compartment #2

PO00020773 - ALUMINUM STRUT, LOCATED R-3

QTY: 1.00

Right side compartment #3

PO00020774 - ALUMINUM STRUT, LOCATED R-4

QTY: 1.00

Right side compartment #4

PO00020775 - ALUMINUM STRUT, LOCATED R-5

QTY: 1.00

Right side compartment #5

PO00023695 - 140" TRAVEL HEIGHT

QTY: 1.00

PO00012872 - 103' "TUFF TRUCK" AERIAL LADDER, TANDEM AXLE

QTY: 1.00

PO00012907 - 103' M.D. AERIAL LADDER, GEN., INTENT & DESIGN STANDARDS

QTY: 1.00

The aerial ladder assembly shall be a four (4) section telescoping ladder constructed from high strength steel alloy, pre-piped waterway, steel turntable, torque box and outriggers.

The intent of these specifications is to describe a telescoping elevating ladder. It shall consist of the true steel truss ladder type.

The aerial ladder consists of four (4) steel ladder sections, a steel turntable, torque box and four outriggers.

The height of the unit is 103' and the horizontal reach is 94'.

The device will meet all the requirements of the National Fire Protection Association's (NFPA) 1901 standard, in effect at time of purchase. This is a fire service proven piece of apparatus that shall be manufactured in the U.S.A.

It is not the intent of the {Company} to deviate from this requirement; therefore, ladders attached to booms, whether solid or lattice, or articulating arms shall not be considered as meeting these specifications or the intent of these specifications.

The design criteria of the unit shall be to create a structure and system that emphasizes safety, product reliability, and ease of operation.

These criteria are:

The hydraulic system shall be designed so that if a failure of any component or assembly within the system occurs, a single point failure of the entire system shall not occur.

The minimum ultimate design condition at the ladder base shall be 6.8 million inch pounds.

All structure load supporting elements of the aerial ladder that are made of a ductile material, shall have a design stress of not more than 50 % of the minimum yield strength of the material based on the combination of the live load and the dead load.

This 2.5:1 structural safety factor meets the current National Fire Protection Association (NFPA) 1901 standard. Design verification shall be accomplished with comprehensive Finite Element Analysis (FEA) and verified with extensive strain gage testing. An independent engineering firm employing a Registered Professional Engineer shall verify the aerial safety factor.

The aerial device shall be capable of sustaining a static load one and one-half times it's rated tip load capacity (live load), in every position in which the aerial device can be placed when the vehicle is on a firm and level surface.

The aerial device shall be capable of sustaining a static load one and one-third times it's rated tip load capacity (live load) in every position in which the aerial devices can be placed when the vehicle is on a slope of five degrees downward in the direction most likely to cause overturning.

All welds in the aerial device shall be designed per the static and fatigue criteria of the American Welding Society No. D1.1. All aluminum welds shall be designed per the static and fatigue criteria of the American Welding Society Standard No. D1.2.

To optimize strength versus weight, high strength steel shall be utilized for the construction of the aerial device

The aerial device shall be capable of operating with a rated tip load in the following conditions:

- Conditions of high wind up to 50 mph.
- Conditions of icing, up to a coating of .25" over the entire aerial structure.

All of the design criteria will be supported by the following information:

- Strain gauge testing of the complete aerial device.
- Analysis of deflection data taken while the aerial device was under test load.
- Accelerometer test to determine dynamic response during ladder operation.
- Accelerometer test to determine dynamic response during road travel.
- Hydraulic component operating and burst strength testing.

PO00012928 - MOUNTING OF AERIAL, REAR MOUNTS

QTY: 1.00

The elevating aerial ladder turntable shall be rear mounted thus providing the following vehicle benefits:

- Improved mobility vs. Mid ship mounted units.
- Greater position ability of the turntable for optimum reach at fire ground operations.
- Increased compartmentation, hose load, water capacity in body, resulting from ladder being raised to clear the cab.
- Shorter vehicle wheelbase.
- Shorter overall length of vehicle.

PO00012936 - HEIGHT AND REACH, 103' 4-SECT. HD AERIAL LADDER

QTY: 1.00

The height of the unit shall be a minimum of 103' as measured by NFPA-1901 requirements, Section 19.2.2, which states, "The rated vertical height of an aerial ladder shall be at least 50 ft and shall be measured in a vertical plane with the ladder at maximum elevation and extension from the outermost rung of the outermost fly section to the ground."

The horizontal reach of the unit shall be a minimum of 94' as measured by NFPA-1901 requirements, Section 19.2.3, which states, "The rated horizontal reach of an aerial ladder shall be measured in a

horizontal plane from the centerline of the turntable rotation to the outermost rung on the outermost fly section with the aerial ladder extended to its maximum horizontal reach."

PO00012952 - MATERIAL STANDARDS, ALL DEVICES

QTY: 1.00

The following standards for materials are to be used in the design of the aerial device. Materials are to be certified by the mill that manufactured the material. Materials that are certified or recertified by vendors other than the mill shall not be accepted. Material testing that is performed after the mill test shall be only for verification and not with the intent of "paper changing" the material classification.

PO00012962 - 103' HD "TUFF TRUCK" AERIAL LADDER, HYDRAULIC SYSTEM

QTY: 1.00

The hydraulic system shall provide power to the entire aerial device as efficiently as possible without the use of a hydraulic cooler. There will be no exceptions. A hydraulic system relief valve as well as individual circuit relief valves shall be provided to prevent damage to any function or circuit.

The relief valve shall have a stainless steel relief spring to ensure proper function and product reliability.

PO00013012 - OUTRIGGER HYDRAULIC CONTROL VALVE - RM, PROPORTIONAL

QTY: 1.00

The outrigger cylinder system shall be controlled by a pressure compensated, proportional control valve that is designed for parallel hydraulic circuit operations.

The valve will be proportional type to provide the smoothest, precise operation of the outriggers.

Devices utilizing on/off type outrigger control valves in lieu of proportional valve shall not be acceptable!

This valve shall be modular in design so that individual sections can be replaced in the field, rather than complete valve assemblies, thus reducing maintenance costs.

The valve housings shall be made of high tensile cast iron for durability and the individual spools shall be hard, chrome plated for long life and resistance to corrosion.

Each valve shall be equipped with a heavy-duty electric solenoid for electric control of the outrigger from the remote operator's station and mechanical handles of ease in override operations.

PO00012980 - PARKER HOSE KIT - 4 JACK UNIT (109)

QTY: 1.00

All hydraulic steel tubing, hydraulic rubber covered wire braided hoses, and hydraulic fittings/adapters shall have a minimum burst pressure rating of four times the operating pressure. Hoses and tubing shall be properly sized to minimize heat buildup during extended periods of operation. Hoses and tubing shall be properly sized to minimize flow restrictions.

All hydraulic hose shall have a tube and cover constructed of synthetic rubber and shall have a braided/spiral wire reinforcement capable of maintaining a 4:1 safety factor in all areas of the hydraulic system. The hose shall meet the appropriate SAE performance specifications: 100R2, 100R19, J517, J1942, ISO 3862-1, USCG HF, DNV,ABS or 100R12.

The connector system was jointly designed by engineers from both the manufacturer and Parker Hannifin and incorporate the following design upgrades and advantages:

- All hydraulic ports (manifolds, pumps, tank, etc) to elastomeric sealing technology.
- No pipe threads in the hydraulic system.
- Sealing to be done by O-rings with the mechanical holding power of straight threads.

- All tube and hose connections to Parker Seal-Lok, O-ring face seal technology.
- Sealing to be done by o-ring with the mechanical holding power of straight thread.
- Fittings rated up to 6000 psi.
- Drop-in design of Seal-Lok connectors to allow easier maintenance and assembly.
- Fitting resist 200% over torque, with optimum vibration resistance.
- Shaped fittings machined from forged bodies for compact design and strength.
- Fittings meet/exceed the performance and dimensional requirements of SAE J1453 and J1926.
- Minimized unnecessary fittings and adapters, streamlining the system.
- Increased connector accessibility, making assembly and maintenance easier.
- Standardized the connector system on the aerial unit.
- Incorporated pressure diagnostic system with Parker PD diagnostic test points into the connector design.
- All fluid connector assemblers have been trained and certified in Dry Technology.

PO00012985 - HYDRAULIC PUMP - PRESSURE COMPENSATED

QTY: 1.00

A load sense pressure compensated hydraulic axial piston pump shall be provided which shall be capable of operating under any rated aerial load condition and aerial device position at normal engine idle or governor controlled fast idle. The hydraulic pump shall be capable of generating sufficient flows to allow multiple aerial functions without significant loss of speed.

PO00012988 - HYDRAULIC RESERVOIR - 40 GALLON

QTY: 1.00

A 40 gallon hydraulic oil reservoir shall be provided to supply the needs of the hydraulic system. A 2" gated suction line shall be provided between the oil reservoir and the hydraulic pump. The tank fill shall be provided with a strainer screen and vent cap. Located near the fill cap shall be a dip-stick for checking fluid levels. The tank shall be mounted within the aerial travel support. The tank shall be constructed from aluminum, which shall be welded at all interior and exterior seams.Before adding fluid the tank must be cleaned and free from all contaminants. Suction and return ports will be designed to SAE Straight Thread O-ring Specifications. These ports will incorporate an o-ring seal rather than pipe threads.

PO00012996 - HYDRAULIC OIL - REGULAR - A/W 46

QTY: 1.00

The hydraulic oil reservoir shall be filled with A/W 46 grade Hydraulic Oil.

This oil provides superior anti wear properties, and is specially formulated with improved thermally stable additives.

These oils offer outstanding resistance to sludge formation, are chemically stable and exhibit excellent anti wear protection.

PO00013004 - DIVERTER VALVE, REAR MOUNT DEVICES

QTY: 1.00

There shall be an automatic electric over hydraulic three (3) position diverter valve located at the center rear of the apparatus. This diverter valve shall divert hydraulic fluid to either the aerial ladder controls or the outrigger controls.

To prevent accidental operation of the ladder prior to the outriggers being properly set, the diverter valve shall only allow hydraulic fluid to the outriggers until the outriggers are set properly. To prevent accidental operation of the outrigger system during the aerial ladder operation the diverter valve shall only allow hydraulic fluid to the ladder controls, when the aerial device is raised from the aerial travel support. In the

event of electrical failure the operator shall be able to manually move the diverter valve to the ladder or outrigger position for continuous uninterrupted operation.

NOTE: All safety controls are displaced when vehicle is in manual mode of operation.

PO00013019 - ELECTRIC TURNTABLE HYDRAULIC CONTROL VALVE, RM LADDER

QTY: 1.00

Three (3) ladder directional controllers shall be mounted on the turntable control console. They shall control extend/retract, rotation, and elevation. These controllers are part of the computer operated IQAN motion control system allowing safe operation of the ladder.

The main control valve shall be positioned at the turntable control console for direct manual override control of each aerial function.

The controllers shall incorporate ICB; J-1939 can bus signaling, transmitted through two (2) J-1939 communication wires to reduce the chance of electrical failures since fewer wires and terminals shall be utilized. Additionally, voltage sensitivity is eliminated thus providing superior motion control. Adjustments and troubleshooting shall be accessible from the display at the turntable control station.

PO00013031 - HYDRAULIC SYSTEM FILTRATION

QTY: 1.00

The pressure filter shall be made of a micro glass medium, which has the highest capture efficiency, dirt holding capacity and life expectancy over other media such as cellulose and synthetic. The pressure filter shall have a bypass circuit protected by a check valve, which shall be installed around the pressure filter.

The pressure line filter shall be required even if a suction line filter is provided in the reservoir due to the suction line filter's inability to trap contaminates entering the system. The pressure filter cartridge shall have a sensor, which shall indicate the condition of the filter and provide an output for a warning light or message if the pressure filter is blocked or in the bypass mode. The pressure filter shall have an absolute rating of five (5) microns.

The return filter shall be made of a micro glass medium, which has the highest capture efficiency, dirt holding capacity and life expectancy over other media such as cellulose and synthetic. The return filter shall have a bypass circuit protected by a check valve, which shall be installed around the return filter.

The return filter shall have a bypass circuit protected by a check valve, which shall be installed around the return filter. The return filter cartridge shall have a sensor, which shall indicate the condition of the filter and provide an output for a warning light or message if the return filter is blocked or in the bypass mode. The return filter shall have an absolute rating of five (5) microns.

PO00013068 - 103' H.D. AERIAL LADDER, EMERGENCY HYDRAULIC PUMP, EPU

QTY: 1.00

In the event of failure of the main hydraulic pump or vehicle engine, the unit shall be equipped with an emergency hydraulic pump which shall be plumbed into the hydraulic system and be electrically driven from the chassis batteries. The emergency pump system shall be capable of limited functions of the ladder and outriggers to stow the unit. The pump shall be controlled from both the outrigger control box and turntable control stations with spring loaded momentary contact switches.

The pump shall have a separate hydraulic oil supply line, from the main supply line attached directly to the hydraulic oil reservoir. A shutoff valve for each line shall be provided and check valve shall be incorporated on the pressure side of the pump to ensure that one shall continue to operate the ladder in the event the other fails.

The pump shall have high tensile steel shafts and gears with the shafts supported by needle bearings. The cylinder plate and gears shall be ground as a set to ensure exacting tolerances. Clearance shall be maintained by a Mylar shim.

PO00013087 - HOT SHIFT PTO W/CONTROLS IN CAB

QTY: 1.00

The apparatus shall be equipped with a power shift PTO driven by the chassis transmission. An indicator light shall be located in the cab next to the PTO switch to show when the PTO is engaged. The PTO shall only engage with the parking brake applied and the transmission in neutral. If the unit is equipped with a pump, the PTO shall be active if the transmission is in "Drive", only if the fire pump is engaged. The PTO shall be a heavy duty pressure lubricated and cooled unit for extended operations.

A master 12 volt "Ladder Power" switch shall be provided adjacent to the PTO switch for control of all ladder 12 volt power, with the exception of the emergency pump circuits.

An aerial hour meter shall be installed in the cab adjacent to the ladder power and PTO control switches. The hour meter shall be wired to the aerial PTO circuit to record hours of operation for the aerial. The hour meter shall aid in scheduling preventative maintenance as outlined in the operator's manual.

PO00013091 - FAST IDLE CONTROL FOR ALL AERIAL DEVICES

QTY: 1.00

The fast idle actuator shall be used to raise the engine RPM to a preset level for proper aerial operation.

The fast idle switches shall be located at the main outrigger control station and the aerial control station/s.

For the safety of personnel and equipment, the fast idle system shall not activate unless the transmission is in neutral. There will be no exceptions.

PO00013040 - RM LADDER 4-OUTRIGGER, "IQAN" MOTION CONTROL SYSTEM - ELECTRIC CONTROLS @ TURNTABLE

QTY: 1.00

The ladder, outrigger system and interlock systems shall be controlled with the computer operated and monitored hydraulic motion control system. The motion control system shall provide state of the art controls for the ladder, outriggers, auto-level and interlock systems as required. The motion control system must be an electro-hydraulic management system that monitors operator inputs from the control station(s) and converts this data to a usable electronic signal that controls hydraulic valve functions.

The turntable control station shall be equipped with a Master Display Module. The Master Display shall be a completely weather proof and shock resistant microprocessor which includes an LCD screen. The display shall contain programmed parameters for each aerial device function, which provide for proper machine operation and reduce the possibility of abusive operation. The CAN-bus modules shall be attached to each other using just two communication wires.

Each component of the IQAN motion control system shall be proven, off the shelf modules and parts, which are available throughout the world. Proprietary hardware designs are not acceptable at KME due to the lack of parts availability and support. The display will have built-in troubleshooting and shall allow troubleshooting and function history monitoring for the entire motion control system. The memory function will allow a service technician to identify if these warnings were ignored or overridden. The IQAN motion control system shall receive rotation information from an absolute encoder located on the rotation swivel. The encoder shall provide absolute position of the turntable at any given position from 0 degrees to 360 degrees of rotation.

An information center shall be provided at the turntable. The display shall allow the system to be diagnosed and calibrated without the need for separate controllers or computers.

The turntable display shall indicate the following information from on-demand screen:

PO00013051 - HYDRAULIC PUMP PRESSURE - DISPLAY

QTY: 1.00

Hydraulic pump pressure.

PO00013052 - ELEVATION ANGLE OF LADDER - DISPLAY

QTY: 1.00

Elevation angle of the ladder.

PO00013053 - VERTICAL HEIGHT OF LADDER - DISPLAY

QTY: 1.00

Continuous ladder extension in feet.

PO00013054 - DEGREE OF ROTATION FROM VEHICLE CENTERLINE - DISPLAY

QTY: 1.00

Degree of rotation from centerline of vehicle.

PO00013055 - E-ZONE CAB & BODY AVOIDANCE WARNING - DISPLAY

QTY: 1.00

E-Zone™ cab and body avoidance warning.

PO00013056 - E-ZONE SHORT JACK WARNING - DISPLAY

QTY: 1.00

E-Zone™ short jack warning.

PO00013057 - CRADLE ALIGNMENT MESSAGE - DISPLAY

QTY: 1.00

Cradle alignment message.

PO00013063 - WARNING MESSAGES - TURNTABLE ONLY

QTY: 1.00

The screen will also display warning/message screens to alert the operator to a potentially unsafe condition of the aerial device.

PO00013283 - RM LADDER, BUTTON OUTRIGGER CONTROLS - FOUR JACKS

QTY: 1.00

Two (2) illuminated electronic outrigger control stations shall be provided on the rear of the apparatus, one on each side of the body. The controls shall be located such that the operator can see the outrigger he is operating.

The controls shall designed with vibrant LED switches with integral indicator light within the control switches.

The control stations will include the following:

- Four (4) outrigger fully extended indicator lights integral to control switch
- Four (4) outrigger set indicator lights integral to control switch
- Four (4) outrigger control switches
- One (1) Fast idle control
- One (1) Ladder Operation indicator light

Out and down outrigger control functions for each outrigger shall be operated independently, so that vehicle may be set up in restricted areas or on uneven terrain.

The diverter valve override control shall be mounted at the center rear hydraulic area behind the hinged outrigger control panel.

The diverter valve override control shall be mounted at the center rear hydraulic area behind the hinged outrigger control panel along with the EPU actuator switch.

A hinged panel shall be provided at the rear center of the body and shall allow the operator to access the diverter valve manual override control, outrigger manual override controls, the electrical system back-up switch, override switch and EPU controls and hydraulic filter indicator lights.

PO00013584 - IQAN - INCLINOMETER

QTY: 1.00

An inclinometer shall be provided on the base section of the aerial device to measure the relative angle of the ladder.

PO00013645 - IQAN - "E-ZONE" ROTATION SAFETY SYSTEM, 4-OUTRIGGERS

QTY: 1.00

The E-Zone™ Rotation Safety System has been designed to aid the aerial device operator who has primary operational responsibility in preventing the rotation of the aerial device into an over turning mode.

Controlled by the IQAN system, the E-Zone™ Rotation Safety System senses outrigger extension and outrigger jack positioning in conjunction with the aerial device movement.

If the aerial device operator attempts to move the aerial device off vehicle center, and the outriggers are not fully extended on the direction of the rotation side, and all jacks in firm ground contact, the E-Zone™ Rotation Safety System shall sense this fault and shall audibly and visually warn the operator to return the aerial device to the center line position.

If the operator continues rotation into the short-jacked zone, the aerial device rotation shall stop. When rotation is stopped, the E-Zone™ Rotation Safety System shall allow the operator to only rotate back to the fully jacked side of the vehicle.

PO00013646 - IQAN - "E-ZONE" CAB & BODY PROXIMITY SYSTEM - LADDERS

QTY: 1.00

Controlled by the IQAN system, a cab proximity system shall be provided utilizing E-Zone™ technology on the rotation and elevation systems to alert the aerial device operator when rotating left or right at low angles and or lowering the ladder, toward the vehicle cab.

The E-Zone™ system shall also automatically stop rotation or lowering functions when the device is in the defined zone regardless of the ladder rotation degree or elevation degree. When the E-Zone™ system stops rotation towards the cab, the operator shall only be capable of rotating in the opposite direction or elevate the ladder above the defined zone.

If the E-Zone™ system stops the lowering function when the ladder is in the defined zone over the cab, the operator shall only be capable of raising or rotating the ladder away from the cab. The E-Zone™ system shall sound an audible alarm and display a warning message in the display located at the control stations. The audible and visual warning message shall stay activated until the operator moves the device from the defined zone.

Controlled by the IQAN system, a body proximity system shall be provided utilizing E-Zone™ technology on the rotation and elevation systems to alert the aerial device operator when rotating left or right at low angles and or lowering the ladder, toward the body.

The E-Zone™ system shall also automatically stop rotation or lowering functions when the device is in the defined zone regardless of the ladder rotation degree or elevation degree. When the E-Zone™ system stops rotation towards the body, the operator shall only be capable of rotating in the opposite direction or elevate the ladder above the defined zone.

If the E-Zone™ system stops the lowering function when the ladder is in the defined zone over the body, the operator shall only be capable of raising or rotating the ladder away from the body. The E-Zone™ system shall sound an audible alarm and display a warning message in the display located at the control stations. The audible and visual warning message shall stay activated until the operator moves the device from the defined zone.

PO00013674 - IQAN - EXTENSION SYSTEM STRING POTENTIOMETER

QTY: 1.00

An extension string potentiometer shall be provided on the aerial device to measure the relative extension of the aerial device.

******SPECIAL: SP00002664 - 103' Hd "Tuff Truck" Aerial Ladder, Torque Box***

QTY: 1.00

A torque box will be provided to transfer all aerial loads and torque into the four outriggers. The torque box will consist of a large formed tube, thus forming a single structural weldment for aerial load distribution among all the outriggers. An open base tube will be designed to accommodate the storage of ground ladders as specified in the body portion of these specifications. The torque box will be bolted to the chassis frame rails with forty two (42), 3/4" SAE grade 8 bolts and nuts.

This type of construction will be required for the following reasons:

Replacement of the chassis in the event of vehicle damage to this chassis.
Replacement of the chassis due to age.

PO00013193 - IQAN - OUTRIGGER STRING POTENTIOMETER - FOUR (4) OUTRIGGERS

QTY: 1.00

An extension string potentiometer shall be provided on each outrigger to measure the relative extension of the outrigger.

The potentiometer shall sense and provide a signal for full outrigger extension.

PO00013554 - AERIAL TRAVEL SUPPORT, ALL DEVICES

QTY: 1.00

A heavy duty rest shall be provided to support the aerial in the travel position.

Stainless steel bedding plates shall be attached to the aerial base section to protect the aerial when the unit is in the travel position.

PO00024052 - OUTRIGGERS NOT STOWED INDICATOR ON DASH

QTY: 1.00

"Outrigger(s) Extended" indicator light

PO00015370 - 1/2 WIDTH S. S. OUTRIGGER COVER PANEL

QTY: 1.00

Each outrigger opening shall be covered by a panel mounted to the outrigger beam. The panels shall be fabricated from 14 gauge #8 finished stainless steel material. Each panel shall be adjustable up and down to help match the panel to the body lines.

The rear outrigger covers shall be fabricated only as wide as the outrigger beam, to allow positioning of the outriggers between parked cars or in tight areas.

The front outriggers shall be located directly behind the cab and shall have covers also fabricated only as wide as the outrigger beam, to allow positioning of the outriggers between parked cars or in tight areas.

PO00013125 - 103 HD "TUFF TRUCK" AERIAL OUTRIGGERS - 12'

QTY: 1.00

Four (4) double box beam type out and down outriggers shall be provided.

The side to side spread of the outriggers shall be 12' from centerline of the vertical jack beams. The outrigger system will be capable of leveling the vehicle, fore/aft and side to side. There will be no exceptions.

The horizontal outrigger beam shall be fabricated from steel tubing and steel top and bottom plates. Each outrigger assembly shall have 2 Nylatron slide pads with a total area of 24 sq. in. to provide smooth operation and to extend the life of the outrigger.

The vertical jack cylinder rods shall be fully enclosed by a telescopic inner steel jack box that shall do the following:

- Protect the cylinder rods against damage which may occur while on the fire ground.
- Add lateral stability to the outrigger structure.

PO00013149 - 103' HD "TUFF TRUCK" LADDER OUTRIGGERS - HORIZONTAL CYLINDERS

QTY: 1.00

The extension of the horizontal outrigger beam shall be accomplished by a hydraulic cylinder which shall have a 3" bore and 2" rod and 26" stroke. This cylinder shall have cushion porting to reduce shocks in stopping the cylinder at full extension and retraction.

For ease in maintenance, outrigger extension cylinder shall be equipped with end connections, which do not require removal of body panels to remove pins or the extension cylinders.

PO00013176 - HD LADDER OUTRIGGERS - VERTICAL CYLINDERS - EXTENDED STROKE

QTY: 1.00

Each jack cylinder shall have a 5" bore with a 3-3/4" rod and a 33" stroke.

The jack cylinders shall be equipped with integral (on the cylinder) holding valves, which shall hold the jack cylinder in either the stowed position or the deployed position should a hydraulic line be severed at any point within the hydraulic system.

Each jack cylinder shall also have a thermal relief system that shall prevent the cylinder fluid pressure from rising due to fluid temperature increase.

PO00013191 - EXTENDED OUTRIGGER PENETRATION - 11 DEGREES

QTY: 1.00

The outrigger design shall allow for the aerial device to be capable of operating safely, on any slope up to 11-degrees at full capacities.

(Operation beyond this limit will be at the operator's discretion).

PO00013199 - OVERSIZED OUTRIGGER/JACK FOOT PADS, APPLICABLE DEVICES

QTY: 1.00

A permanently attached self-centering steel foot pad, 1/2" x 20.5" x 22.5" shall be provided on each vertical jack beam.

Each foot pad shall swivel longitudinal and require no adjustment during outrigger set-up.

The outrigger pad shall be attached without the use of a bearing type swivel due to maintenance required on this design.

PO00013207 - OUTRIGGER INTERLOCK SYSTEM & ALARM, ALL DEVICES

QTY: 1.00

An interlock system shall be provided between the outriggers and ladder that prevents the operation of the ladder until the operator places all jacks in the load supporting configuration. Each outrigger shall be equipped with a pressure sensitive switch that closes only when the jack is firmly in contact with the ground. Until all jack switches close, electrical power shall not be transmitted to the turntable (hence preventing ladder operation).

A momentary override switch shall be provided at the central outrigger control station for emergency override of the interlock system. A green indicator light shall be provided on the outrigger control panel to indicate the position of the foot pad. Illumination of the indicator light indicates firm ground contact.

An outrigger deployment warning device shall be provided to warn personnel in the vicinity of the apparatus that the outriggers are in motion. Whenever an outrigger control is utilized, the device shall produce a pulsing tone, separate and distinctive from that of other audible warning systems provided on the apparatus. When the outrigger control is released to its neutral position, the signal shall cease.

PO00013276 - OUTRIGGER SCOTCHLITE, RED/YELLOW CHEVRON

QTY: 1.00

Red/Yellow ScotchLite material in a Chevron pattern shall be furnished on both sides of the horizontal and vertical beams of the rear outriggers.

PO00013305 - OUTRIGGER LEVEL SIDE TO SIDE, ALL REAR MOUNT DEVICES

QTY: 1.00

One (1) bubble type side to side leveling device shall be provided at the rear of the apparatus to assist in the aerial device setup.

This device shall be mounted in the center of the rear body panel and shall be at eye level to the operator.

The leveling device shall be color coded indicating the following conditions:

- Green Safe operating zone.
- Yellow Caution operating zone.

PO00013306 - OUTRIGGER LEVEL FORE & AFT, ALL REAR MOUNT DEVICES

QTY: 1.00

In addition to the side to side level, a bubble type leveling device shall be provided at the rear of the apparatus to assist in fore and aft leveling of the device.

This device shall be mounted on the side of the turntable access ladder at the rear of the body and shall be at eye level to the operator.

PO00013223 - AKRON LED OUTRIGGER LAMPS, 4-OUTRIGGERS

QTY: 1.00

One (1) Akron double faced, 4" diameter, red flashing LED light mounted on the inside surface of each outrigger.

PO00013229 - LED OUTRIGGER GROUND LIGHTS - GROTE WHITELIGHT, 4-OUTRIGGERS

QTY: 1.00

One (1) adjustable, Grote 63611 WhiteLight, LED ground flood light mounted under the body, to illuminate each outrigger foot pad area.

Both the flashing lights and the foot pad illumination lights shall be energized by the ladder power circuit.

PO00013315 - 103' H.D. AERIAL LADDER, TURNTABLE

QTY: 1.00

The turntable shall be a fabricated steel weldment designed for the rotation and elevation of the ladder sections.

It shall consist of the following:

A 44.25" x 48.00" x 1" machined steel bearing plate and matching top plate that shall be machined to insure proper fit to the rotation bearing. There will be no exceptions.

PO00013334 - TURNTABLE DECK - TREAD PLATE

QTY: 1.00

The turntable deck shall cover the entire turntable frame, providing a safe walking surface around the ladder.

It shall have a 1.5" downward flange on all sides.

The deck shall be constructed from tread plate to provide an anti-slip walking surface.

PO00013342 - HEEL PIN STEP ON TURNTABLE, 79', 103', 109' & 123'

QTY: 1.00

A two (2) step tread plate access step shall be mounted near the heel of the ladder to provide easy access to the ladder from the turntable deck. The step shall cover the rotation motor and brake assembly and shall easily removable for access to the drive assembly.

PO00026389 - TURNTABLE HANDRAILS

QTY: 1.00

Turntable safety handrails shall be mounted at the rear and sides of the turntable.

The handrails shall be formed or welded 1.25" steel pipe. The assembly shall be coated with black Line-X material.

All rails shall be a minimum of 42" high.

PO00013353 - HEEL PINS - 103'

QTY: 1.00

The turntable and ladder shall be designed with dual heel pins at the turntable/ladder pivot point.

The pins shall be solid steel extending the full width of the turntable vertical supports.

The heel pins shall be a minimum of 3" in diameter and is to be equipped with large pin journals in the ladder and turntable supports, which will reduce wear and distribute loads.

Due to the high load and wear on the ladder pivot points, the pin journals in the ladder base rail shall be designed to provide bearing surfaces utilizing ToughMet® 3 AT110 Temper Plate high strength alloy bearing material.

The journals shall have minimum yield strength of 110,000 psi.

Grease fittings shall be provided in bearing at the rear of the ladder section.

PO00013363 - STAINLESS STEEL CRADLE ALIGNMENT ARROWS ON TURNTABLE

QTY: 1.00

An alignment arrows and wond shall be provided on the turntable surface in view of the operator when standing at the turntable control station.

The indicator shall assist the operator in indicating the alignment of the aerial ladder with the ladder travel cradle.

The indicators shall be overlaid with ScotchLite material.

PO00013370 - FIRE RESEARCH "MAN SAVER" BARS @ TURNTABLE OPENINGS

QTY: 1.00

Two (2) Fire Research "ManSaver" safety bars shall be provided at the turntable handrail opening at the rear of the turntable.

The "ManSaver" bars shall be padded with yellow vinyl covers that shall open in two (2) directions, in and up to provided additional safety at the turntable walking areas.

The safety bars shall be mounted to the turntable handrails with MS22 mounting brackets.

PO00013378 - 103' H.D. AERIAL LADDER, TURNTABLE SWIVEL

QTY: 1.00

Hydraulic power to the turntable hydraulic circuits shall be provided through a multi-port, high pressure, hydraulic swivel that permits 360 degrees of continuous turntable rotation.

Electrical power to the turntable electric circuits shall be provided by a collector ring assembly.

The collector rings shall be used for electrical ground, ladder control functions, and a 120 volt A.C. system during 360 degrees of continuous turntable rotation.

The collector ring assembly shall have a minimum of 32 circuits.

Water shall be transferred to the aerial waterway by means of a four (4) inch water swivel enabling 360 degree continuous rotation of the turntable (if applicable).

PO00013403 - IQAN - SWIVEL ROTATION ENCODER

QTY: 1.00

The swivel shall be designed with an integral absolute encoder to provide a continuous output indicating the position of the turntable at any given time.

The encoder shall be designed to indicate position of the turntable even if power interruption occurs.

The number of degrees of rotation shall be shown in a digital readout on the MD4 display.

PO00013408 - 103' H.D. LADDER, LADDER CONSTRUCTION

QTY: 1.00

The elevating ladder shall consist of four (4) steel ladder sections referred to as the base section, lower mid section, upper mid section and fly section.

Each section will be fabricated from 100,000 psi yield ultra high strength steel.

- The design and construction criteria for these ladder sections shall be:
- Each section shall be fabricated using high strength steel, welded together to form a structural unit.
- All welding shall be done by welders that have been certified in accordance with the American Welding Society Standard specifications #D1.1.
- Each ladder section shall be constructed in an assembly fixture to ensure uniformity and interchangeability.
- K-bracing at each rung shall be utilized to minimize side deflection of the ladder.
- All rungs shall be 1-1/8" in diameter, spaced at 14" centers. Rungs will be round. {No Exceptions}
- All rungs, K-braces, and diagonals shall be positioned so that they are continuously welded to the ladder section.
- All side rails shall be protected from interior corrosion by coating the interior of the rail with a corrosion preventative film.
- Ladder handrails and diagonal material are to be constructed from square or rectangular tubing, which provide a larger welding surface area where the materials are attached to each other.

PO00013433 - 103' H.D. 4-SECTION, LADDER DIMENSIONS

QTY: 1.00

The aerial device shall be constructed with the following section dimensions:

Base Section
Handrail Height 28-3/8"
Handrail Width 41"

Lower Mid Section
Handrail Height 25-5/8"
Handrail Width 34-1/2"

Upper Mid Section
Handrail Height 23-7/16"
Handrail Width 29"

Fly Section
Handrail Height 21-5/16"
Handrail Width 23-1/2"

Overlap surfaces between sections:

Base to Mid Section 78"
Lower Mid to Upper Mid Section 78"
Upper Mid to Fly Section 78"

PO00013468 - RUNG COVERS - PHOTOLUMINESCENT, ALL DEVICES

QTY: 1.00

Each rung shall be covered with a secure, heavy-duty, fiberglass pultrusion that incorporates an aggressive, non-slip coating. The rung covers shall be secured to each rung utilizing a Silyl Modified Polymer (SMP) based adhesive and shall be easily replaceable should the rung cover become damaged.

Each rung shall have a minimum of 4" of photo luminescent coating in the center of the rung, two (2) 5” black sections on each side of the center photo luminescent and additional photo luminescent sections on the outside edge of each cover. The covers shall provide an aggressive, non-slip coating and assist in providing a light source for each rung during low light conditions. The photo luminescent coating shall remain visible for up to 20 hours after exposure to light.

The rung covers shall be covered by a ten (10) year warranty. A copy of the written warranty shall be provided. There will be no exceptions.

PO00013691 - LADDER, CABLE/HOSE/WIRE ROUTING, 103' LADDER

QTY: 1.00

All lines to the ladder tip shall be enclosed and protected from the turntable to the ladder tip.

All lines shall be routed through extrusions and high flex energy chain systems.

PO00013429 - STAINLESS STEEL EGRESS W/TIP SKID GUARDS

QTY: 1.00

The tip of the fly section be equipped with a bolt-on egress section. The egress shall extend from the end of the fly and be constructed of 1.25" round knurled stainless steel. The knurled construction shall allow for easy grip during exit and entry off and on the ladder tip. The egress shall be designed to fully support the rated capacity of the ladder. Each end of the egress base rail shall be designed with rounded “Ladder Tip Skid Guard” to prevent ladder tip hang up if the ladder slides on a building surface.

PO00013472 - RED SCOTCHLITE MATERIAL ON LAST 6' OF LADDER TIP

QTY: 1.00

To assist in positioning of the ladder tip, the last six (6) feet of the fly section shall be equipped with red ScotchLite material on the ladder handrails, diagonal braces and ladder base rail.

PO00013688 - LADDER LEVEL INDICATOR (BASE SECTION) - LIGHTED

QTY: 1.00

One (1) Rieker 12 volt lighted, ladder angle indicator shall be provided on the base section of the ladder, near the turntable control console. The integrated light shall be activated with ladder power.

******SPECIAL: SP00003060 - Single Pair Folding Steps @ Ladder Tip***

QTY: 1.00

A set of Cast Product folding steps model SO4600-1-B shall be conveniently located at the end portion of the fly section. These shall be used for one person to place his feet so that he is positioned parallel to the ladder. The steps shall fold into proper position for usage and fold toward the sides of the ladder when not in use to provide adequate clearance when the ladder is being climbed. The steps shall be placed approximately 56" from the center of the last rung toward the base of the aerial.

PO00013565 - 103' H.D. AERIAL LADDER, ELEVATION SYSTEM

QTY: 1.00

Two (2) double acting lift cylinders shall be attached between the turntable and the base section near the midpoint of the base section thus creating a better lifting geometry resulting in lower hydraulic operating pressures and improved load distribution on the base ladder section.

The cylinders shall function only to elevate the aerial device and not as a structural member to stabilize the ladder sideways.

The lift cylinder rods shall be attached to the base section with self aligning swivel bearings which prevent side loading on the lift cylinders resulting in longer cylinder seal life.

They shall provide smooth precise elevation from -7 degrees below horizontal to +80 degrees above horizontal.

The lift cylinders shall have a 5-1/2" internal bore, a 3" diameter rod and 29-13/16" stroke.

The lift cylinders shall be equipped with integral (on the cylinder) holding valves which prevents the ladder from lowering should a hydraulic line be ruptured at any point within the hydraulic system.

They shall also have a manifold line with velocity fuses between the cylinders to prevent uneven cylinder lift.

They shall have both rod and piston hydraulic cushions. These cushions shall decelerate the cylinder near the end of its stroke creating a smooth stop at full stroke.

A limit switch at the aerial travel support shall be provided to prevent operation of the outriggers once the aerial has been elevated from the nested position.

This system will prevent operation of the outriggers once the ladder has been elevated from the nested position.

PO00013612 - 103' H.D. AERIAL LADDER, ROTATION SYSTEM

QTY: 1.00

A 41" diameter external tooth monorace bearing shall be provided for 360 degree continuous rotation of the aerial device.

The bearing shall be bolted to the turntable and bolted to the pedestal bearing plate using forty (40) 3/4" diameter SAE Grade 8 bolts to secure the bearing to the turntable and thirty three (33) 3/4" diameter SAE Grade 8 bolts to secure the bearing to the pedestal bearing plate.

Both upper and lower bearing surfaces shall be milled to ensure a true mounting surface for the rotation bearing.

PO00013632 - ROTATION MOTOR AND BRAKE - 41" EXTERNAL BEARINGS

QTY: 1.00

A hydraulic driven planetary swing drive system shall provide smooth and precise rotation. A spring applied, hydraulically released, disc type brake shall be furnished on each gear box to provide positive braking of the turntable assembly against reactionary forces such as water and gravity.

PO00013638 - SWING DRIVE ADJUSTMENT

QTY: 1.00

The swing drive shall be designed with an adjustable mount. This shall allow the back lash to be set at assembly and provide the ability to re-adjust as components wear. This shall prevent the need to replace rotation components that may exceed manufacturer’s allowable back lash in later aerial inspections. Units that do not allow adjustment shall not be acceptable.

PO00013652 - 103' H.D. AERIAL LADDER, EXTENSION/RETRACTION SYSTEM

QTY: 1.00

A full hydraulic powered extension and retraction system of the ladder shall be provided through dual hydraulic cylinders and cables, each capable of operating the ladder in the event of failure of one of the systems.

The extension cylinders shall have a 3.00" internal bore with a 2.00" rod. Both cylinders shall be equipped with two integral holding valves to protect both extension and retraction movement during water tower operations or to prevent the ladder from falling should a line be severed at any point within the hydraulic system.

Cables attached to the base and mid ladder sections shall be routed over sheave wheels on the base section and cylinder sheave mount. This cable arrangement shall act as a stroke multiplier to provide full ladder extension and retraction. The sheave wheel bearings shall be maintenance free and not require external lubrication.

Extension and retraction cables shall have a minimum safety factor of 5 :1 and shall be .50" diameter from the base to mid section cable and be .375" from the base to the fly section.. The minimum ratio of the diameter of wire rope to the sheave used shall be 1:12.

PO00013669 - EXTENSION CYLINDERS PAINTED LADDER PAINT COLOR

QTY: 1.00

The extension cylinders shall be painted to match the color of the ladder.

PO00013682 - LADDER SLIDE PADS, 103' LADDER

QTY: 1.00

Nylatron slide pads with a sliding coefficient of friction of .15 shall be used between the telescoping ladder sections.

Slides are required because of greater surface area for load transfer between the telescoping sections.

Slide pads shall also be used to control side play between the ladder sections.

The rear slide pads shall be held into place by a machined receiver, which is welded into the base rail of the extending sections.

Each slide pad shall be held in place with an easily removable keeper, allowing the pad to be removed from the rear of the ladder section.

To control movement side to side the receiver shall allow for adjustment of each pad.

PO00013741 - DELETE LADDER TIP RECEPTACLE

QTY: 1.00

PO00013559 - CRADLE ILLUMINATION LIGHTS - GROTE WHITELIGHT LED

QTY: 1.00

Two (2) 12 volt Grote WhiteLight 63611 LED flood lights shall be mounted near the ladder travel support to illuminate this area during night time operation.

The lights shall be wired and activated by the ladder power circuit.

******SPECIAL: SP00025389 - TURNTABLE CONTROL CONSOLE LIGHTING - LED***

QTY: 1.00

LED lighting shall be used to illuminate the turntable control console.

The lighting shall be mounted across the top of the control panel to assure proper illumination of all controls.

The lighting shall be wired to the ladder power circuit.

PO00013783 - HEEL PIN STEP LIGHTS - TECNIQ EON 3 LED LIGHTS

QTY: 1.00

Seven (7) polished stainless steel, TecNiq Eon 3-LED horizontal surface mounted lights shall be provided and installed with a gasket at the base of the ladder in the turntable heel pin step area.

PO00013815 - ONE (1) FRC SOBRITE LED SPOT & ONE (1) LED FLOOD @ LADDER TIP

QTY: 1.00

One (1) FRC SoBrite LED spotlight and one (1) flood light shall be mounted near the tip of the ladder, one on each side.

PO00013836 - CUTOFF SWITCH FOR LADDER TIP 12 VOLT LIGHTS @ LOWER CONTROL

QTY: 1.00

A switch shall be provided at the lower control console for the 12 volt light(s) located at the ladder tip.

The switch shall be wired to the light circuit to give the operator the capability to shut down the lights if the switch on the light head is in the on position.

******SPECIAL: SP00035308 - ADVANCED AERIAL WALKWAY ILLUMINATION LIGHTS, 4-SECTION DEVICE***

QTY: 1.00

The ladder sections shall be equipped with HiViz pixel aerial illumination system.

This system shall illuminate the rungs of the ladder to support night time operations.

The HiViz system shall consist of a continuous path of Pixel LED lights equally spaced the entire length of the aerial device. Each individual LED can change color, allowing for different colors on the same strip and moving patterns along the aerial device.

The walkway illumination lights shall be wired to the ladder power circuit and controlled at the turntable control console.

PO00026135 - TURNTABLE CONSOLE STEP LIGHT

QTY: 1.00

Two (2) Lumabar white LED lights shall be provided and installed on the underside of the console to illuminate the step area in front of the control console.

PO00025801 - TWO (2) FRC SOBRITE LED FLOOD LIGHTS ON LADDER BASE SECTION - TRACKING LIGHTS

QTY: 1.00

PO00014152 - LADDER, CONTROL STATION

QTY: 1.00

There shall be a control station at the turntable.

All elevation, extension and rotation operational controls shall operate from this position.

These controls shall be arranged to permit the operator to regulate the speed of these operations within the safe limits as determined by the manufacturer.

Load instruction plates shall be located at the control station to show the recommended safe load of the ladder.

The control devices shall be clearly marked and suitably lighted.

PO00014153 - RM LADDERS, CONSOLE LOCATED @ LH SIDE OF TURNTABLE

QTY: 1.00

The turntable control station shall be located on the left side of the turntable such that the operator can easily observe the ladder tip while operating the controls.

PO00014159 - PAINTED ALUMINUM TURNTABLE CONSOLE - MATCH LADDER

QTY: 1.00

The control console shall be manufactured from aluminum material and designed to support the components mounted in and on the console.

The console shall be painted to match the ladder structure.

PO00025856 - IQAN MD4-10 DISPLAY TURNTABLE CONSOLE

QTY: 1.00

The turntable console will be equipped with an IQAN-MD4 10" master display with touchscreen capability and video inputs. The IQAN-MD4 master display has a rugged mechanical design with no moving parts and are completely sealed.

The IQAN-MD4 10" display has full graphical, diagnostic and CAN gateway capability and is used with the easy-to-use IQAN programing tools.

******SPECIAL: SP00027771 - AERIAL LADDER, TURNTABLE CONTROL STATION - ADVANCED CONTROLS***

QTY: 1.00

The console shall be illuminated for night operations, and shall have the following controls/indicators:

The following items shall be clearly marked:

- ***Three (3) ladder control levers.***
- ***A foot operated "dead man switch"***
- ***Aerial Speed Control***
- ***Auto Cradle Control***
- ***Engine fast idle control switch***
- ***Emergency pump power switch***
- ***Intercom controls***
- ***Illuminated load chart inside of console lid***
- ***Electric Monitor Controls (if applicable)***
- ***12 volt control switches***
- ***110 volt control switches (if applicable)***
- ***waterway transfer control***

The console panel top panel shall be removable. It can be unscrewed to access electrical components.

Verbiage will be provided on the turntable console in place of or in addition to the symbols.

******SPECIAL: SP00027275 - LADDER SPEED CONTROL KNOB @ TURNTABLE CONTROL CONSOLE***

QTY: 1.00

A ladder speed control knob will be provided at the turntable console.

PO00014192 - AIRHORN CONTROL BUTTON @ TURNTABLE CONTROL CONSOLE

QTY: 1.00

Air Horn Control Button

PO00026156 - AERIAL FLOWMETER @ TURNTABLE CONSOLE

QTY: 1.00

The apparatus shall be equipped with a digital flow meter displayed through the turntable console which shall give the operator or engineer an indication of actual volume of water (in gallons) being discharged through the aerial waterway.

A flow sensor paddle wheel shall be installed on the discharge piping with a machined housing or clamp.

Flow rate shall be displayed through the display on the turntable console.

PO00014268 - LADDER, FRC ACT -2 WAY COMMUNICATION SYSTEM - LOWER CONTROL

QTY: 1.00

A Fire Research "ACT" communication system shall be furnished between the ladder tip and the rear operator's position.

A master control at the turntable operator's console shall be provided, with a push-to-talk button and a volume control.

PO00014269 - LADDER, FRC ACT 2-WAY COMMUNICATION SYSTEM - UPPER SPEAKER/MIC

QTY: 1.00

A self-contained, hands-free speaker microphone shall be located at the ladder tip.

No operator action shall be required to transmit or receive messages at this speaker microphone.

PO00014347 - 103' H.D. AERIAL LADDER, LADDER WATERWAY SYSTEM

QTY: 1.00

The aerial waterway system shall be capable of being supplied by both a mid ship mounted pump (if required) and an external water source.

The piping from the aerial discharge valve and the aerial inlet to the turntable swivel shall be 4" stainless steel pipe.

A 4" tee shall join the pump discharge line and the aerial inlet line.

A 4" water swivel shall be located in the riser pipe from the tee permitting 360 degree continuous rotation of the ladder.

******SPECIAL: SP00002656 - Rear Mount Aerial Waterway Drain, 1-1/2" Valve***

QTY: 1.00

A 1-1/2"Akron drain valve shall be installed and operated from the officer's pump panel of the apparatus.

PO00027031 - WATERWAY INLET LOCATED AT OFFICERS PUMP PANEL

QTY: 1.00

The aerial waterway inlet will be located on the officer's side pump panel.

PO00014372 - 103' H.D. AERIAL LADDER, LADDER WATERWAY

QTY: 1.00

An anodized aluminum telescopic waterway shall be mounted beneath the center of the aerial ladder.

The waterway shall have a 5" base section tube, 4 1/2" lower mid section tube, 4" upper mid section tube and a 3 1/2" fly section tube.

The waterway shall be secured to the ladder sections with cradle type mounts to provide a minimum of 2" of up and down movement in the waterway.

This design shall protect the waterway from bending if the ladder comes in contact with a building or a water hammer is imposed to the waterway discharge.

PO00014395 - 4" HEEL PIN SWIVEL - 103' LADDER

QTY: 1.00

A 4" heel pin swivel connection between the ladder waterway and the turntable swivel permitting water tower operations from -7 to +80 degrees shall be provided.

PO00014404 - AUTOMATIC WATER DRAIN/VENT

QTY: 1.00

An automatic drain shall be provided in aerial water way to automatically drain the system for freezing conditions.

This valve shall also act as a vacuum relief valve for the waterway when extending the aerial device with the discharges in the closed position.

PO00014405 - ALL DEVICES, WATERWAY RELIEF VALVE

QTY: 1.00

A relief valve preset at 225 psi shall be located beneath the turntable to protect the water system from excessive pressures.

PO00014411 - AERIAL WATERWAY DRAIN CONTROL

QTY: 1.00

The waterway drain shall be controlled from a pneumatic toggle style switch near the aerial inlet.

******SPECIAL: SP00032879 - 4" NST AERIAL WATERWAY INLET ADAPTER***

QTY: 1.00

The aerial inlet shall be equipped with a 4" NST male adapter.

******SPECIAL: SP00002661 - Innovative Controls 2-1/2" Gauge For Aerial Inlet, Rear Mounts***

QTY: 1.00

NOTE: A 2.5" Innovative Controls pressure gauge shall be provided on the officer's pump panel of the vehicle to indicate waterway pressure.
The gauge shall have a rugged corrosion free stainless steel case and clear scratch resistant molded crystals with captive O-ring seals to ensure distortion free viewing and seal the gauge.
The gauge shall be filled with a synthetic mixture to dampen shock and vibration, lubricate the internal mechanisms, prevent lens condensation and ensure proper operation from –40°F to +160°F.
The gauge shall exceed ANSI B40.1 Grade A requirements with an accuracy of +/- 1.5% full scale and include a size appropriate phosphorous bronze bourdon tube with a reinforced lap joint and large tube base to increase the tube life and gauge accuracy.
A polished chrome-plated stainless steel bezel shall be provided to prevent corrosion and protect the lens and gauge case. The gauge shall have black graphics on a white background.

PO00014502 - LADDER, ELKHART #7250 SD EXM COBRA "RF" MONITOR

QTY: 1.00

An Elkhart model #7250 SD EXM Cobra™ electrically controlled monitor shall be installed on the outer end of the telescoping aerial waterway.

The monitor shall be equipped with a 3-1/2" outlet and a 4" inlet.

The monitor shall have a vertical sweep of 165°, and a horizontal sweep of 350°.

PO00014514 - LADDER, ELKHART #SM-1500 E NOZZLE

QTY: 1.00

An Elkhart model #SM-1500E electrically controlled master stream nozzle shall be installed on the end of the monitor.

The model #SM-1500E shall allow a maximum flow rate of 1500 gpm @ 70 psi.

PO00014519 - LADDER, ELKHART MONITOR CONTROLS W/ AUTO STOW

QTY: 1.00

The monitor and nozzle functions shall be controlled from the tip of the fly section and from the aerial control console.

The monitor and nozzle controls at the tip and turntable shall consist of three (3) individual weather resistant switches.

The monitor shall be capable of wireless remote operation.

PO00014521 - LADDER, SELECTABLE WATERWAY TROLLEY, ALL LADDER DEVICES

QTY: 1.00

The waterway monitor shall be "retractable", allowing the monitor to be secured at the tip of the fly section for water tower operations, or at the end of the upper section for rescue operations. An aluminum sliding monitor support assembly shall be installed at the end of the fly section waterway tube. This support assembly shall guide the monitor along the base rails of the aerial fly section. An electric actuator shall move the trolley lock to position the monitor to either the fly section or mid-section. An control switch shall be located on the turntable control console. The "monitor lock" shall be movable when the ladder is fully retracted. The lock assembly shall be constructed from stainless steel that is electropolished for smooth operation and to keep from corroding.

In "rescue mode", this feature shall allow the tip of the fly section to be placed very close to the edge of a building or window, minimizing the working and access heights "on" and "off" the ladder tip, without worrying about the monitor being damaged. Permanent monitor guards installed below the tip of the aerial are unacceptable.

To accommodate the movement of the "retractable" electric remote monitor, the monitor power/control cable for the electric monitor shall be equipped with a slide track to eliminate the need for plugs or reels.

Movable monitor designs that require a spring-rewind cord reel for the monitor power/control cord are unacceptable due to the additional cost, maintenance, weight and unattractive appearance associated with a cord reel permanently installed on the outside of the aerial base section.

PO00014544 - LADDER_MANUAL TFT_VALVE UNDER MONITOR

QTY: 1.00

Task Force Tips VUM, model # AKM13 _ 111D manually controlled monitor valve shall be provided under the monitor.

The valve shall be controlled with an NFPA compliant slow-close hand wheel gear operator which can be configured for left or right hand operation.

A position indicator shall be provided to allow for quick visualization of the status of the valve in the open, closed or partial positions.

For maximum corrosion protection the aluminum casting shall be hardcoat anodized, with a silver powder coat internal and external finish.

The valve ball shall be stainless steel and have an automatic drain for draining waterway when valve is closed and unpressurized.

The manifold of the valve shall be equipped with the following hardware:

Port C2, C3, C4 shall be terminated with a blind plug, Port C1 as stated below.

PO00014775 - 103' H.D. AERIAL LADDER, LADDER CAPACITIES, TANDEM AXLE

QTY: 1.00

The following ladder tip load capacities shall be established with the truck level, the outriggers fully extended and lowered to relieve the chassis weight from the axles. Capacities are based upon full extension and 360 degree rotation.

LADDER CAPACITIES IN POUNDS
(50 MPH WIND and 1/4" ICE BUILD UP CONDITIONS / UNCHARGED WATERWAY)
DEGREES OF ELEVATION

	-7 to 10	11 to 20	21 to 30	31 to 40	41 to 50	51 to 60	61 to 70	71 to 80
Base Section	250	250	500	500	500	500	500	500
Lower Mid	250	250	250	250	250	500	500	500
Upper Mid	---	---	---	---	250	250	500	500
Fly Section	---	---	---	---	---	---	250	500
Fly Tip	500	500	500	500	500	500	500	500

WATER TOWER OPERATION

The ladder and water system shall be designed to permit the following flows:

- 1500 GPM at 90 degrees to ladder centerline either side.
- 1500 GPM parallel to ladder centerline and as far below horizontal as nozzle design allows.
- 1500 GPM above ladder centerline as far as deck gun design allows.

Note: Tip capacity is reduced to 250 lbs when flowing water with the nozzle above the waterway centerline.

LADDER CAPACITIES IN POUNDS

(50 MPH WIND and 1/4" ICE BUILD UP CONDITIONS / CHARGED WATERWAY)

DEGREES OF ELEVATION

	-7 to 10	11 to 20	21 to 30	31 to 40	41 to 50	51 to 60	61 to 70	71 to 80
Base Section	---	---	250	250	500	500	500	500
Lower Mid	---	---	---	---	250	250	500	500
Upper Mid	---	---	---	---	---	250	250	500
Fly Section	---	---	---	---	---	---	250	250
Fly Tip	500	500	500	500	500	500	500	500

The aerial unit can be operated in any plane up to 3.5 degrees out of level at full capacities.

Operation beyond this limit shall be at operator's discretion.

PO00014821 - AERIAL LADDER, MANUALS, TWO (2) SETS

QTY: 1.00

The aerial manufacturer shall provide the following manuals pertaining to the aerial device:

- Two (2) Operator's manuals
- Two (2) Parts manuals
- Two (2) Complete Electrical and Hydraulic Diagrams

PO00014804 - FIRE DEPT AERIAL FAMILIARIZATION - PROVIDED BY FACTORY

QTY: 1.00

An on-site program for familiarization of Fire Department personnel shall be provided.

This program shall be designed to assure complete understanding of all aspects of the aerial device in the operating environment.

The familiarization shall cover all applicable required items in NFPA 1901 code, and be performed by a qualified person per the code.

The familiarization program shall be designed to instruct the individual who has never utilized an aerial device of this type before.

The individual shall receive thorough instructions on operation of the device including hands-on operations for personnel.

The training shall include at a minimum:

Location and operation of all gauges and indicators, as well as fluid level checks.

How to tilt the cab (if a tilt cab is provided), or how to locate all required maintenance areas.

Explanation of all cab controls, instruments, mirrors, safety devices or alarms, brake operations, transmission control, pump controls (if equipped), exhaust regeneration (if provided), seat adjustments, warning light engagement, and other operational equipment.

Familiarization of the aerial device engagement, operations, emergency overrides, safety devices, and maintenance systems.

If the unit is equipped with a fire pump, familiarization of the complete pumping system components, engagement, operations, etc.

If the unit is equipped with a generator, familiarization of the generator system engagement and operations.

If the unit is equipped with a foam system, familiarization of the foam system engagement and operations.

PO00014807 - FACTORY FAMILIARIZATION - THREE (3) DAYS

QTY: 1.00

After the unit has been accepted, a factory qualified person shall be provided for a minimum of three (3) days of familiarization.

PO00014819 - AERIAL SERVICE, ALL DEVICES

QTY: 1.00

Due to the importance of keeping this vital piece of firefighting apparatus in service with a minimum of downtime, the bidder maintains a network of service centers with factory trained personnel.

The bidder shall have a separate facility for service of units so they do not conflict with production units.

The service facility carries an inventory of parts, separate from production parts.

PO00014820 - WARNING DECALS, ALL DEVICES

QTY: 1.00

Warning decals shall be provided in appropriate locations to alert the operator of potential hazards and operating instructions.

All warning labels shall be in general compliance with ANSI Z34.1 recommendations.

PO00014853 - 103' H.D. AERIAL LADDER, TANDEM AXLE , CERT & TESTING

QTY: 1.00

The aerial device shall be tested in compliance with the National Fire Protection Association's Standard #1911 (latest edition).

Ongoing structural and physical property testing during construction shall also be done.

The following tests shall be conducted by personnel holding a Level II certification to detect defects and improperly secured components:

Three (3) random samples of each lot or shipment of raw material (plate, tubing, bar, etc.) and fabricated parts from outside vendors shall have a mechanical (tensile, yield, and elongation) and chemical (material content) analysis performed

Magnetic particle inspection shall be conducted on all ferrous welds to assure the integrity of the weldments and also detect any flaws or weaknesses. These tests shall be performed prior to paint or assembly.

Dye penetrant testing be conducted on all structural aluminum welds.

Ultrasonic inspection shall be used to detect any flaws in pins, bolts and other critical mounting components.

The bolts shall be tested after any torqueing to ensure the bolt was not damaged.

All extension/retraction cables shall be proof load tested, serialized, and certified by the cable vendor.

All cable ends shall be dye penetrant tested to find any cracks, imperfections, etc.

Functional tests, load tests, stability tests and visual structural examination shall be performed.

These tests shall determine any unusual deflection, vibration, or instability characteristic of the unit.

Hydraulic oil sample test prior to delivery.

Additionally, a waterway pressure test shall be performed.

Upon completion of the preceding inspections, the independent testing company shall issue a Certificate of Inspection indicating that all specified standards have been satisfied.

Aerial manufacturers not utilizing third party, independent testing companies shall not be acceptable.

The following test shall be conducted to the aerial device prior to delivery.

All listed tests shall be witnessed and certified to ensure the device meets all requirements of NFPA-1901.

The manufacturer of the aerial device is required to provide a written statement signed by the Chief Engineer certifying the aerial's ability to perform the following tests:

1-1/2:1 DYNAMIC STABILITY AND LIFT TEST -A test of the apparatus shall be performed that the ladder sections are so designed and powered to support a load representing 150% of the manufacturer's rated tip load capacity at maximum horizontal reach on level ground. Since this is a dynamic test, the load will be raised, lowered and rotated without evidence of instability. Specifically, 750 pounds at the ladder tip with the ladder fully extended at zero degrees shall be rotated 360°.

1-1/3:1 DYNAMIC STABILITY AND LIFT TEST -A test of the apparatus shall be performed that the tip and ladder sections are so designed and powered to support a load representing 133% of the manufacturer's rated tip load capacity at maximum horizontal reach on a five (5) degree slope. Since this is a dynamic test, the load will be raised, lowered and rotated without evidence of instability. Specifically, 666 pounds at the ladder tip with the ladder fully extended at zero degrees shall be rotated 360°.

TIME TEST - A test of the apparatus shall be performed to raise the ladder from a bedded position extended to full height and rotated through a 90° turn smoothly and without undue vibration in not over 120 seconds.

WATER TOWER TEST #1 -A test of the apparatus shall be performed to test its ability to discharge 1000 gallons per minute parallel to the ladder with the unit at full extension and zero degree elevation and through a 360° rotation. The unit shall be capable of performing this test with a rated tip load of 250 pounds at the ladder tip.

WATER TOWER TEST #2 -A test of the apparatus shall be performed to test the ability to discharge 1000 gallons per minute, 90° to the ladder with the ladder at full extension, zero degree elevation and through

360° of rotation. The unit shall be capable of performing this test with a rated tip load of 250 pounds at the ladder tip.

WATER TEST #3 -A test of the apparatus shall be performed to test the ability to discharge 1000 GPM above the ladder centerline and as many degrees above 0° as the deck gun design allows. This test shall also be performed with the ladder fully extended at 0° elevation and through 360° of rotation with a rated tip load of 250 pounds.

Bidders must state their ability to comply with all of the above tests.

Failure to do so shall be grounds for rejection of their bid.

PO00010847 - GENERAL PAINT DESCRIPTION

QTY: 1.00

The apparatus body shall be painted with Sikkens paint product. The paint process shall meet or exceed current state regulations concerning paint operations. Pollution control shall include measures to protect the atmosphere, water, and soil. Contractor shall, upon demand, provide evidence that the manufacturing facility is in compliance with State EPA rules and regulations.

The exterior shall have no mounted components prior to painting to assure full coverage of metal treatments and paint to the exterior surfaces of the body. Any vertically or horizontally hinged smooth-plate compartment doors shall be painted separately to assure proper paint coverage on body, door jambs and door edges.

Paint process shall feature Sikkens high solid LV products and be performed in the following steps:

- Corrosion Prevention - all aluminum surfaces shall be pre-treated with the Alodine 5700 conversion coating to provide superior corrosion resistance and excellent adhesion of the base coat.
- Sikkens Sealer/Primer LV - acrylic urethane sealer/primer shall be applied to guarantee excellent gloss hold-out, chip resistance and a uniform base color.
- Sikkens High Solid LVBT650 (Base coat) - a lead-free, chromate-free high solid acrylic urethane base coat shall be applied, providing excellent coverage and durability. A minimum of two (2) coats shall be applied.
- Sikkens High Solid LVBT650 (Clear coat) - high solid LV clear coat shall be applied as the final step in order to ensure full gloss and color retention and durability. A minimum of two (2) coats shall be applied.

Any location where the material is penetrated after painting, for the purpose of mounting steps, hand rails, doors, lights, or other specified components shall be treated at the point of penetration with a corrosion inhibiting pre-treatment (ECK Corrosion Control). The pre-treatment shall be applied to the aluminum sheet metal or aluminum extrusions in all locations where the aluminum has been penetrated. All hardware used in mounting steps, hand rails, doors, lights, or other specified components shall be individually treated with the corrosion inhibiting pre-treatment.

After the paint process is complete, the gloss rating of the unit shall be tested with a 20 degree gloss meter. Coating thickness shall be measured with a digital MIL gauge and the orange peel with a digital wave scan device.

PO00014914 - GENERAL PRIMER & PREP DESCRIPTION - LADDER/PLATFOR

QTY: 1.00

All exposed welds shall be ground smooth for final finishing of areas to be painted. The compartments and doors are totally degreased and phosphatized. After final body work is completed, grinding (36 and 80 grit), and finish sanding shall be used in preparation for priming.

PO00014917 - GENERAL FINISH PAINT DESCRIPTION - LADDER/PLATFORM

QTY: 1.00

The body shall be finish sanded and prepared for final paint. Upon completion of final preparation, the body shall be painted utilizing the highest quality, state of the art, low V.O.C., polyurethane base paint. Finish paint shall be applied in multiple coats to ensure proper paint coverage with a high gloss finish.

PO00010852 - CUSTOM FINISH PAINT & PREP

QTY: 1.00

The applicable areas of the cab shall be finish sanded and prepared for final paint.

Upon completion of final preparation, the cab shall be painted utilizing the highest quality, state of the art, low V.O.C., polyurethane base paint.

Finish paint shall be applied in multiple coats to ensure proper paint coverage with a high gloss finish.

PO00010851 - CUSTOM CAB PRIMER & PREP

QTY: 1.00

The cab primer shall be a two (2) stage process.

First stage shall be a coating with a two part component, self etching, and corrosion resistant primer to chemically bond the surface of the metal for increased adhesion.

Second stage shall be multiple coats of a catalyzed, two component, polyurethane primer applied for leveling of small imperfections and top coat sealing.

PO00011730 - CUSTOM CAB UNDERSIDE PAINT - JOB COLOR

QTY: 1.00

The exposed areas under the cab shall be painted job color to match the exterior cab.

On two tone cabs, this shall match the primary color.

PO00010853 - CUSTOM CAB BUFFING & FINISH

QTY: 1.00

The exposed exterior finish of the cab shall be buffed and detailed.

PO00004569 - CUSTOM CAB INTERIOR PAINT - TEXTURED GRAY

QTY: 1.00

The exposed interior metal surfaces of the cab shall be finish painted with a textured gray paint.

PO00014920 - BODY BUFFING & FINISH - LADDER/PLATFORM

QTY: 1.00

The visable and exposed areas of the body shall be buffed and detailed.

PO00022141 - INSIDE/UNDERSIDE BODY PAINTED JOB COLOR - LADDER/PLATFORM

QTY: 1.00

The inside and underside of the complete body assembly shall be painted job color using a Sikkens paint system, prior to installation of the body on the chassis or torque box.

PO00022165 - COMPARTMENT INT W/ MULTISPEC, WHITE MARBLE STONE - LADDER

QTY: 1.00

The interior of the compartments shall be finish painted with Multispec #7247 White Marble Stone scuff resistant paint to provide a protective application over all of the compartment interior surfaces.

******SPECIAL: SP00002672 - Pumphouse Plumbing Painted Black - Ladder/Platform***

QTY: 1.00

The pump enclosure and pump within the pump enclosure {will/shall} be painted black. All stainless steel piping will be left unpainted.

PO00014945 - SINGLE COLOR BODY PAINT SCHEME - LADDER/PLATFORM - RED FLNA32065

QTY: 1.00

The body paint finish shall be Sikkens paint system in a single color, to match customer furnished paint codes and requirements.

PO00004567 - TWO TONE CUSTOM CAB PAINT SCHEME - WHITE FLNA41528

QTY: 1.00

The cab exterior shall be painted with Sikkens paint system to match purchaser's furnished paint codes.

A two-tone paint finish shall be provided with the two-tone break line located approximately 3" below the cab side windows.

PO00012128 - "TUF-KOTE" UNDER SEAL - TANDEM AXLE

QTY: 1.00

Upon apparatus completion, the underside of the apparatus shall have anti corrosion film applied to help inhibit rust and the corrosion process. The semi-firm wax film shall be applied by air spray method. The film shall be applied as a minimum to the chassis major components such as: chassis frame rails and cross members, axles, springs, drive line components, lower radiator supports, fuel tank, air tanks, running boards, bumper apron and other related components.

The underside of the cab and body shall have the film applied to the following areas: cab steps, front gravel shield and underside of battery box, body substructure, underside of all body compartments, running board supports and rear step supports. No film shall be directly applied to the exhaust system or wheel wells.

NOTE: The film shall remain semi-firm to promote self-sealing. The film may leave a light tinted color to those areas treated.

PO00023890 - LADDER RUST INHIBITOR - ALL DEVICES

QTY: 1.00

All internal surfaces of the ladder exposed to the atmosphere, i.e., inside base, mid and fly section side rails shall be undercoated prior to ladder assembly using Procyon Corrosion Inhibitor to prevent internal corrosion. The corrosion inhibitor will meet the Boeing BMS-3-29 specification and meet a 1500-hour salt spray test. Manufacturers that do not rustproof the interiors of the ladder sections shall not be considered. (No Exceptions)

PO00010855 - PINT OF TOUCH-UP PAINT

QTY: 1.00

One (1) pint of each exterior color paint for touch-up purposes shall be supplied when the apparatus is delivered to the end user.

PO00014988 - FINALIZATION & DETAILING - LADDER/PLATFORM

QTY: 1.00

Prior to delivery of the vehicle, the interior and exterior be cleaned and detailed. The finalization process detailing shall include installation of NFPA required labels, checking fluid levels, sealing and caulking required areas of the cab and body, rust proofing, paint touch-up, etc.

PO00004576 - CUSTOM CHASSIS GLOSS BLACK COLOR FRAME RAILS

QTY: 1.00

The chassis frame rails, suspension, axles, and drivelines (with the exception of any PTO drivelines which shall be safety yellow) shall be painted black with a polyurethane base paint prior to installation of any air lines or electric systems to ensure proper serviceability.

PO00024542 - LADDER, PAINTING, ALL DEVICES, SILVER #FLNA95963

QTY: 1.00

Prior to any painting, all weldments such as the outrigger beams, torque box, turntable, and ladder sections shall be sand blasted, cleaned and inspected to insure the removal of any surface imperfections and to insure superior paint adhesion to the metal.

The entire painting system shall utilize a single manufacturer's paint for compatibility between primers and finished coats. All painting shall be done in atmosphere controlled spray booths. The weldments shall then be primed with Sikkens primer. All seams between adjoining pieces that are not continuously welded shall be caulked to inhibit corrosion.

Before assembly, in preparation for final painting, the aerial unit shall be thoroughly cleaned, conforming to good painting practices.

The aerial components shall then be sprayed with Sikkens Polyurethane primer sealer. Finished paint used on the turntable, lift cylinder, and ladder sections shall be painted Sikkens FLNA95963 silver.

PO00014958 - EXTENSION CYLINDERS PAINTED TO MATCH LADDER COLOR

QTY: 1.00

The extension cylinders shall be painted to match the color of the ladder.

PO00024544 - URETHABOND RUNG RAIL COATING

QTY: 1.00

The rung rails of the extending ladder sections shall be painted with Silver Urethabond 104 non-leafing aluminum urethane primer/finish.

PO00014964 - TORQUEBOX PAINT - BLACK

QTY: 1.00

The torque box shall be painted black, allowing easy touch-up after extended use.

PO00014966 - OUTRIGGER PAINT - SILVER URETHABOND 104

QTY: 1.00

The outrigger beams and the vertical jack shall be painted with Silver Urethabond 104 non-leafing aluminum urethane primer/finish, allowing easy touch-up after extended use.

PO00014968 - TURNTABLE PAINT - LADDER COLOR

QTY: 1.00

The turntable shall be painted to match the base color of the ladder, allowing easy touch-up after extended use.

PO00014970 - TURNTABLE CONSOLE PAINT - LADDER COLOR

QTY: 1.00

The turntable console shall be painted to match the base color of the ladder, allowing easy touch-up after extended use.

PO00014972 - LIFT CYLINDERS PAINT - LADDER COLOR

QTY: 1.00

The aerial lift cylinders shall be painted to match the base color of the ladder, allowing easy touch-up after extended use.

PO00015016 - 4" SCOTCH-LITE STRIPE ON CAB AND BODY - TA AERIAL

QTY: 1.00

A four (4) inch high "Scotch-Lite" stripe shall be provided. The stripe shall be applied on a minimum of 60 percent of each side of the unit, 60 percent on the rear of the unit and 40 percent on the front of the unit. The Scotch-Lite stripe layout shall be determined by the Fire Department.

PO00009526 - BLACK SCOTCH-LITE

QTY: 1.00

The Scotch-Lite shall be black in color.

PO00009495 - 4" SCOTCH-LITE "Z" IN STRIPE

QTY: 1.00

A four (4) inch simple "Z" effect shall be incorporated into the Scotch-Lite scheme on the body.

Final layout of this configuration shall be determined by the Fire Department.

PO00009514 - DUAL 1/2" SIGN GOLD ACCENT STRIPE ON MAIN STRIPE

QTY: 1.00

A half (1/2) inch high "Real Gold" vinyl gold leaf accent stripe shall be incorporated into the Scotch-Lite scheme to border the primary Scotch-Lite stripe on the top and bottom edges.

Final layout of this configuration shall be determined by the Fire Department.

PO00009536 - REAR CHEVRON STRIPING

QTY: 1.00

REAR CHEVRON STRIPING

PO00012449 - 50% VERTICAL SURFACE

QTY: 1.00

At least 50% of the rear facing vertical surface shall be covered with alternating strips of reflective striping.

PO00009541 - 6" 50% REAR ORALITE CHEVRON STRIPING

QTY: 1.00

The striping shall be 6" Oralite reflective striping.

PO00024628 - RED & YELLOW ORALITE V98

QTY: 1.00

The Oralite V98 reflective tape shall be #12 red and #18 yellow in color.

PO00014991 - 19" X 144" LETTERING PANELS ON BASE SECTION

QTY: 1.00

Painted aluminum panels shall be furnished on each side of the aerial device base section. The panels shall be approximately 19" high X 144" long.

PO00014996 - SIGN PANELS PAINTED TO MATCH AERIAL DEVICE COLOR

QTY: 1.00

The sign panels shall be painted to match the aerial ladder paint color.

PO00026066 - MISCELLANEOUS EQUIPMENT

QTY: 1.00

The following equipment shall be mounted as specified or as loose equipment provided with the completed apparatus at the time of delivery:

PO00011822 - ROAD SAFETY KITS

QTY: 1.00

A road safety kit shall be furnished with the following equipment:

- 2 1/2 lb. B-C fire extinguisher
- Triangle safety reflectors.

PO00000521 - TWO (2) ZICO #SAC-44 FOLDING WHEEL CHOCKS, (2) MTD DRIVER SIDE

QTY: 1.00

Two (2) ZICO #SAC-44 folding wheel chocks shall be mounted forward of the rear wheels on the driver side below the side running board compartments.

PO00023664 - KME WARRANTY, STARTING ON IN-SERVICE DATE

QTY: 1.00

Warranty coverage by KME will begin when the customer places the unit in service. This date may not exceed 60 days from the date of delivery to the customer.

The Customer must email kmeservice@kmefire.com within 60 days of delivery, or the warranty start date will default to the original delivery date.

PO00026895 - GENERAL ONE (1) YEAR OR 24,000 MILES LIMITED WARRANTY

QTY: 1.00

Purchaser shall receive a General One (1) Year or 24,000 Miles limited warranty in accordance with, and subject to, warranty certificate RFW0001. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

PO00026922 - REGULATED EMISSIONS SYSTEMS FIVE (5) YEARS OR CARB MILEAGE LIMITED WARRANTY

QTY: 1.00

Purchaser shall receive a Regulated Emissions Systems Five (5) Years or CARB Mileage limited warranty in accordance with, and subject to, warranty certificate RFW0140. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

PO00026923 - ELECTRICAL ONE (1) YEAR OR 18,000 MILES LIMITED WARRANTY

QTY: 1.00

Purchaser shall receive a Electrical One (1) Year or 18,000 Miles limited warranty in accordance with, and subject to, warranty certificate RFW0201. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

PO00026939 - FRAME ASSEMBLY STRUCTURAL TEN(10) YEARS OR 100,000 MILES LIMITED WARRANTY

QTY: 1.00

Purchaser shall receive a Frame Assembly Structural Ten(10) Years or 100,000 Miles limited warranty in accordance with, and subject to, warranty certificate RFW0302. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

PO00026942 - FRAME RAIL CORROSION (PAINTED) THREE (3) YEARS OR 48,000 MILES LIMITED WARRANTY

QTY: 1.00

Purchaser shall receive a Frame Rail Corrosion (Painted) Three (3) Years or 48,000 Miles limited warranty in accordance with, and subject to, warranty certificate RFW0310. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

PO00026951 - AERIAL LADDER STRUCTURE TWENTY (20) YEARS OR 100,000 MILES LIMITED WARRANTY

QTY: 1.00

Purchaser shall receive a Aerial Ladder Structure Twenty (20) Years or 100,000 Miles limited warranty in accordance with, and subject to, warranty certificate RFW0403. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

PO00026952 - AERIAL TORQUE BOX STRUCTURE TEN (10) YEARS OR 50,000 MILES LIMITED WARRANTY

QTY: 1.00

Purchaser shall receive a Aerial Torque Box Structure Ten (10) Years or 50,000 Miles limited warranty in accordance with, and subject to, warranty certificate RFW0411. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

PO00026954 - AERIAL LEAK-FREE HYDRAULICS THREE (3) YEARS OR 48,000 MILES LIMITED WARRANTY

QTY: 1.00

Purchaser shall receive a Aerial Leak-Free Hydraulics Three (3) Years or 48,000 Miles limited warranty in accordance with, and subject to, warranty certificate RFW0421. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

PO00026956 - BODY STRUCTURE (ALUMINUM) TEN (10) YEARS OR 100,000 MILES LIMITED WARRANTY

QTY: 1.00

Purchaser shall receive a Body Structure (Aluminum) Ten (10) Years or 100,000 Miles limited warranty in accordance with, and subject to, warranty certificate RFW0502. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

PO00026978 - PAINT AND FINISH (EXTERIOR CLEAR COATED) NON-PRORATED TEN (10) YEARS LIMITED WARRANTY

QTY: 1.00

Purchaser shall receive a Paint and Finish (Exterior Clear coated) Non-Prorated Ten (10) Years limited warranty in accordance with, and subject to, warranty certificate RFW0711. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

PO00026981 - PLUMBING AND PIPING (STAINLESS STEEL) TEN (10) YEARS OR 100,000 MILES LIMITED WARRANTY

QTY: 1.00

Purchaser shall receive a Plumbing and Piping (Stainless Steel) Ten (10) Years or 100,000 Miles limited warranty in accordance with, and subject to, warranty certificate RFW0800. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

PO00026983 - AERIAL WATERWAY TEN (10) YEARS OR 100,000 MILES LIMITED WARRANTY

QTY: 1.00

Purchaser shall receive a Aerial Waterway Ten (10) Years or 100,000 Miles limited warranty in accordance with, and subject to, warranty certificate RFW0810. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

PO00022661 - 5 YEAR CUMMINS BASE WARRANTY

QTY: 1.00

The proposed unit will be equipped with a Fire Service rated engine, which will come furnished with a five (5) year Engine Manufacturer's warranty. A copy of the manufacturer's warranty will be supplied to define additional details of the warranty provisions.

PO00022665 - 5 YEAR ALLISON EVS TRANSMISSION WARRANTY

QTY: 1.00

The proposed Allison transmission will be provided with a five (5) year warranty. A copy of the Allison transmission warranty will be supplied to the purchaser to define additional details of the warranty provisions.

PO00022980 - 3 YEAR COOLING SYSTEM WARRANTY - CUSTOM

QTY: 1.00

Kovatch Mobile Equipment (KME) warrants all Cooling System Equipment components used in the construction of KME Fire Apparatus against defects and workmanship provided the apparatus is used in a normal and reasonable manner. This warranty is extended only to the original user-purchaser for a period of three (3) years from the date of delivery/acceptance to the original user-purchaser, whichever occurs first.

This warranty applies to both purchased and fabricated, manufacturer supplied coolant system components and is not provided in lieu of any Vendor provided warranties. All coolant system components provided by the engine manufacturer are covered by the engine manufacturer's warranty only.

PO00022978 - SHEPPARD STEERING GEAR STANDARD - THREE YEAR WARRANTY

QTY: 1.00

The proposed Sheppard steering gear will be warranted for a period of three (3) years from the first date of service or 150,000 miles (241,401 kilometers), whichever occurs first. The product will be free from defects in material and workmanship under normal use in applications approved in advance by Sheppard.

PO00022957 - 5 YEAR MERITOR 180 SERIES TANDEM AXLE REAR - WARRANTY

QTY: 1.00

The Meritor axle/s shall be provided with a five (5) year warranty. The first two (2) years shall be parts and labor; the remaining three (3) years shall be parts only. Wheel seals, gaskets and wheel bearings shall be covered for one year. A copy of Meritor's warranty shall be supplied to define additional details of the warranty provisions. Vehicles that operate full or part-time outside the United States and Canada shall have a one (1) year, parts only warranty.

PO00022681 - 3 YEAR MERITOR ABS - WARRANTY

QTY: 1.00

The Meritor ABS shall be provided with a three (3) year warranty, parts and labor. A copy of Meritor's warranty shall be supplied to define additional details of the warranty provisions. Vehicles that operate full or part-time outside the United States and Canada shall have a one (1) year, parts only warranty.

PO00022703 - 1 YEAR BRIGHTWORK WARRANTY

QTY: 1.00

KME Fire Apparatus (KME) warrants all bright finish components used in the construction of KME Fire Apparatus against defects and workmanship provided the apparatus is used in a normal and reasonable manner. This warranty is extended only to the original user-purchaser for a period of one (1) year from the date of delivery/acceptance to the original user-purchaser, whichever occurs first.

The expressed warranty excludes corrosion or degradation of bright finished components caused by damage to the component.

PO00024719 - FRONT SUSPENSION - HENDRICKSON STEERTEK - 5 YEAR WARRANTY

QTY: 1.00

The Hendrickson Steertek NXT front axle shall be provided with a five (5) year parts and labor warranty and shall include the axle and kingpin assembly, the steering arm assembly, and the upper and lower steering knuckle assembly.

The warranty for the integrated suspension components shall be two (2) years or two hundred fifty thousand (250,000) miles, whichever occurs first.

The integrated suspension components covered under this two year warranty are limited to:

- Front Frame Hanger Assemblies
- Rear Shackle Assemblies
- Jounce Stop Assemblies
- Rear Frame Hanger Assemblies
- Shock Absorbers
- Shock Absorber Brackets
- Leaf Spring Assemblies

A copy of the Hendrickson Steertek NXT Warranty shall be provided to define additional details of the warranty provisions.

PO00022711 - REAR SUSPENSION - HENDRICKSON - 1 YEAR WARRANTY

QTY: 1.00

Hendrickson warrants suspension products manufactured by it to be free from defects in material and workmanship which occur under normal use and service for a period of one (1) year.
This warranty will not apply and no warranty of any kind will exist as to any product which has been subject to abuse, misuse, neglect, misapplication or accident of any type or cause or which has been repaired, replaced, substituted or used with parts other than genuine Hendrickson parts or altered by anyone.

PO00022973 - LIFETIME POLY TANK WARRANTY - ALL TANKS

QTY: 1.00

The proposed water tank will be warranted by the water tank manufacturer for the "Lifetime" of the unit. A copy of the manufacturer's warranty will be supplied to define additional details of the warranty provisions.

PO00022734 - HALE FIRE PUMP LIMITED STANDARD WARRANTY

QTY: 1.00

Hale Products, Incorporated ("Hale") hereby warrants to the original buyer that products manufactured by Hale shall be free of defects in material and workmanship for a period of five (5) years from the date product is first placed into service or five and one-half (5 1/2) years from date of shipment by Hale, whichever period shall be first to expire. Within this warranty period, Hale will cover parts and labor for the first two (2) years and parts only for years three (3) through five (5).

PO00022989 - CLASS 1 - PRODUCT WARRANTY

QTY: 1.00

Class 1 warrants that any equipment of our own manufacture (or manufactured for us pursuant to our specifications) found to have defects in material or workmanship during normal use and service, will be repaired or replaced (at our opinion) free of charge, provided that written notice of such defect is received by us within two (2) years, (three 3 years on liquid filled gauges) after initial shipment.

PO00022764 - ELKHART HEAVY DUTY VALVE - 10 YEAR WARRANTY

QTY: 1.00

Elkhart Brass warrants Heavy Duty Swing-Out Valves for a period of ten (10) years after purchase against defects in material or workmanship. Elkhart Brass shall repair or replace any Heavy Duty Swing Out Valve which fails to satisfy this warranty.

PO00022983 - CLASS 1 - ELECTRICAL PRODUCT WARRANTY - 2 YEAR

QTY: 1.00

Class 1 warrants that any equipment of our own manufacture (or manufactured for us pursuant to our specifications) found to have defects in material or workmanship during normal use and

service, will be repaired or replaced (at our option) free of charge, provided that written notice of such defect is received by us within two years (three for liquid-filled gauges) after initial shipment.

All equipment requiring repair or replacement under this warranty will be returned prepaid to Class 1. Such returned equipment will be examined by us and, if found to be defective as a result of materials failure or workmanship, will be repaired or replaced at no charge.

PO00022987 - VALOR SEATING 6 YEAR WARRANTY

QTY: 1.00

Valor will warrant each new seat manufactured, to be free from defects in materials and workmanship when delivered to the original purchaser for a period of six (6) years.

Labor to remove or reinstall defective items will not be covered under this warranty. All warranty claims shall have prior approval from Valor warranty department.

PO00024053 - ADDITIONAL ITEMS SHIPPED WITH VEHICLE

QTY: 1.00

- 1 - Bag of assorted stainless steel nuts and bolts
- 1 - Complete set of hydraulic filters for the pressure filter and the return line filter

PO00024715 - VEHICLE CLASS TIER 0

QTY: 1.00

Code/Unit#	Name	Year	Make / Model	VIN	Plate #	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2044	2045
ATV94	2015 John Deere Gator / ATV94	2015	John Deere / Gator	1M0825GECFM101489			x										x								
B94	2018 GMC Yukon / B94	2017	GMC / Yukon	1GKS2FKC7JR143283	M16				x						x						x				
C94	2023 Ford Interceptor / C94	2023	Ford / Interceptor	1FM5K8AW9PNA08737	M240169					x						x						x			
L94	2014 Pierce Aerial Ladder / L94	2014	Pierce Arrow XT / Aerial Ladder	4P1CA01D1EA014445													x								
M93	2021 Ford F-550 / M93	2021	Ford / Ambulance	1FDUF5HT6MEC74772	722303AM							x										x			
M94	2019 Ford F-550 / M94	2019	Ford / Ambulance	1FDUF5HT0KDA06867	722302AM				x										x						
M95	2016 International 4300 / M93	2016	International / Ambulance	1HTJSSKKXGH219376	722301AM			x										x							
R93	2017 Freightliner / R93	2017	Freightliner / Step Van	4UZAARFC0JCJL8656	M213026								x												
S93	2021 Pierce Enforcer / S93	2021	Pierce / Enforcer	4P1BAAFFXMA023784																	x				
S93N	2017 Pierce Enforcer / S93N	2017	Pierce / Enforcer	4P1BAAGF5JA018230										x											
T94	2021 Pierce Enforcer / T94	2021	Pierce / Enforcer	4P1BCAFF0MA023643						x															x
U93	2015 Ford Explorer / U93	2015	Ford / Explorer	1FM5K8ARXFGB12957	M200475		x						x						x						x
U94	2015 Ford F-350 / U94	2015	Ford / F-350	1FT8W3BT8FEB81354	M202013	x						x						x						x	
U95	2023 Ford Interceptor / U95	2023	Ford / Interceptor	1FM5K8AW0PNA08738	M238877				x						x						x				
U96	2019 Chevrolet Srban / U96	2019	Chevrolet / Suburban	1GNSKHKC9KR355375	M220146	x						x						x						x	
UT94	2015 Carryon Trailer / UT94	2015	Carryon / Trailer	4YMUL141XFM015119	M99167																				

ITEM 8.A.3.
BOARD OF TRUSTEES MEETING
SAMUEL E. DEAN BOARD ROOM
BUTLER GOVERNMENT CENTER
1200 OAK BROOK ROAD
OAK BROOK, ILLINOIS
630-368-5000

AGENDA ITEM

Board of Trustees Special Meeting
of
June 16, 2026

SUBJECT: Resolution R-2365, A Resolution Approving and Authorizing The Purchase of an ATV for Fire Department Use

FROM: Kevin Fleege, Fire Chief

BUDGET SOURCE/BUDGET IMPACT: Vehicle Replacement - 342-90200. Oak Brook FD Foreign Fire Tax Association has agreed to reimburse the Village for 50% of the total purchase, resulting in a total FY2026 budget impact not to exceed $28,093.66.

RECOMMENDED MOTION: I move that the Village Board approve Resolution R-2365, A Resolution Approving the Waiver of Competitive Bidding and Authorizing the Purchase of One Polaris Ranger Crew Cab ATV for the Fire Department, directing staff to issue a purchase order to Shorewood Home and Auto, in the amount not to exceed $45,421.30 plus $10,766.01 for upfitting to include emergency lighting, EMS skid insert, and graphics; for a total cost not to exceed $56,187.31.

Background/History:

Since 2015, the Oak Brook Fire Department has been operating an all-terrain vehicle (ATV) with the primary function being to provide emergency medical services in areas of the community not reachable by ambulance and/or fire apparatus. The fire department ATV is not only used at events such as the Taste of Oak Brook, large soccer or lacrosse tournaments or other similar events hosted within the Village, but also is ready to respond 24/7 to incidents occurring within Fullersburg Woods and the various golf courses located within the community.

The current 2015 John Deere Gator has reached the end of its useful life and sourcing parts for repair has become difficult. As a result, the fire department is seeking to replace the existing unit with a Polaris Ranger Crew Cab side-by-side all-terrain vehicle. Since the FD began operating the current unit in 2015, we have learned that the open, two-seat cab concept is inefficient for most EMS applications. Many patients we encounter need to be transported from remote locations seated in the vehicle and not lying down on the EMS transport skid. In addition, with many emergencies occurring in extreme heat or severe cold weather, the current unit does not offer a temperature-controlled environment to begin cooling or warming an exposure victim. The new Polaris Ranger Crew Cab side-by-side ATV will allow both first responders and a patient to be transported in the cab together, a temperature-controlled

environment to begin treatment, as well as the traditional EMS skid for more severely injured or ill patients that need to be transported lying down.

There was $70,000 budgeted in FY2026 for the purchase of this ATV with an expected Village impact of $35,000 after an agreement was reached with the OBFD Foreign Fire Tax Association to spilt 50% of the total cost. Through due diligence and finding a local Polaris dealer after receiving Polaris Direct Government pricing, this purchase will be at least $6,906.35 under budget after upfitting and cost split. Polaris and the Village of Oak Brook are members of Sourcewell, #091024-PSI, who conducted the bidding.

The current 2015 John Deere Gator ATV will be surplused following the new unit being delivered and listed for sale as-is on I-Bid or similar style platform.

Recommendation:

Staff recommends that the Village Board approve Resolution R-2365 authorizing the purchase of a Ranger Polaris Crew Cab with associated equipment and upfitting, splitting the cost 50% with the Oak Brook FD Foreign Fire Tax Association.

Attachments:

1. R-2365
2. 01-QUO28342
3. QUO-66219-Q5M3S9 Rev 4
4. MTECH QUOTE 19505 QTAC EMS-R+WELD ON RISER+MOUNTING KIT
5. Est_79822R1_from_Fleet_Safety_Supply_149712
6. Quote for Polaris graphics

THE VILLAGE OF OAK BROOK
COOK AND DUPAGE COUNTIES, ILLINOIS

RESOLUTION
NUMBER 2026-FD-CNTRCT-R-2365

A RESOLUTION APPROVING THE WAIVER OF COMPETITIVE BIDDING AND AUTHORIZING THE PURCHASE OF ONE POLARIS RANGER CREW CAB ATV FOR THE FIRE DEPARTMENT

LAURENCE E. HERMAN, Village President
NETASHA SCARPINITI, Village Clerk

JOHN ANOS
NAVEEN JAIN
MICHAEL MANZO
MELISSA MARTIN
A. SURESH REDDY
EDWARD TIESENGA

Village Board

Published in pamphlet form by authority of the
President and the Board of Trustees of the Village of Oak Brook
on the 16th day of June 2026

RESOLUTION NO. 2026-FD-CNTRCT-R-2365

A RESOLUTION
APPROVING THE WAIVER OF COMPETITIVE BIDDING AND AUTHORIZING THE PURCHASE OF ONE POLARIS RANGER CREW CAB ATV FOR THE FIRE DEPARTMENT

WHEREAS, the Village of Oak Brook is a municipal corporation with authority provided for and granted pursuant to the Illinois Municipal Code to exercise certain powers and perform certain functions pertaining to its local government and affairs;

WHEREAS, the Village of Oak Brook (hereinafter referred to as "Village") upon approval of the Village President and Board of Trustees (collectively, the "Corporate Authorities") may enter into an Agreement with another party pursuant to Illinois Statute;

WHEREAS, the Village Fire Department currently owns and operates an all-terrain vehicle (ATV) for emergency response purposes, which has reached the end of its useful life cycle;

WHEREAS, Staff is now recommending the purchase of one Polaris Ranger Crew Cab ATV from Shorewood Home and Auto ("Company") through the joint purchasing cooperative Sourcewell Contract #091024-PSI, the cost of which would be split with the OBFD Foreign Fire Tax Association;

WHEREAS, Company has prepared and submitted a proposal (Quote No: 01-28342) covering the purchase of one (1) Polaris Ranger Crew Cab ATV for a base cost not to exceed $45,421.30 an additional amount not to exceed $10,766.01 for upfitting to include emergency lighting, EMS skid insert, and graphics;

WHEREAS, OBFD Foreign Fire Tax Association has agreed to reimburse the Village for 50% of the total purchase, resulting in a total FY2026 budget impact not to exceed $28,093.66;

WHEREAS, Staff now recommends approval from the Corporate Authorities to purchase the ATV from Company for the reasons provided herein;

WHEREAS, the Village is interested in contracting with Company for the aforementioned purposes and as set forth in the Purchase Order, attached hereto and incorporated herein as Exhibit A; and

WHEREAS, the Village of Oak Brook Corporate Authorities are of the opinion that it is in the best interests of the Village of Oak Brook to issue the Purchase Order to the Company for the purposes referenced herein.

NOW, THEREFORE, BE IT RESOLVED, in open meeting assembled, by the Village President and Board of Trustees of the Village of Oak Brook, DuPage and Cook Counties, Illinois as follows:

Section One – Recitals

The Corporate Authorities hereby find that all of the recitals hereinbefore stated as contained in the preamble to this Resolution are full, true, and correct and do hereby, by reference, incorporate and make them part of this Resolution as legislative findings.

Section Two – Approval of Purchase

The Village hereby approves the issuance of the Purchase Order substantially in the form attached hereto and made a part hereof collectively as Exhibit A.

Section Three – Authorization and Direction

The Village Manager is hereby authorized to execute the Purchase Order, substantially in the form attached hereto as Exhibit A.

Section Four - Other Actions Authorized

The officers, employees and/or agents of the Village shall take all actions necessary or reasonably required to carry out and give effect to the intent of this resolution and otherwise to consummate the transactions contemplated herein, and shall take all actions necessary in conformity therewith including, without limitation, the execution and delivery of all documents required to be delivered in connection with the transaction contemplated herein.

Section Five - Authorization of Expenditures

The Corporate Authorities hereby authorize and direct the expenditure of all costs related to the execution of the Purchase Order, additionally, the Village is authorized and directed to allocate and spend all necessary funds to fulfill the requirements of the Purchase Order and of this Resolution.

Section Six – Waiver of Bidding Process

To the extent that any requirement of bidding would be applicable to the transactions contemplated hereunder, the same is hereby waived.

Section Seven - Acts of Village Officials

That all past, present and future acts and doings of the officials of the Village that are in conformity with the purpose and intent of this resolution are hereby, in all respects, ratified, approved, authorized and confirmed.

Section Eight – Effective Date

This resolution shall be in full force and effect from and after its passage, approval and publication as provided by law.

Section Nine - Publication

This resolution shall be published in book or pamphlet form as provided by the Illinois Municipal Code.

Section Ten – Conflict Clause

All resolutions, parts of resolutions or board actions in conflict herewith are hereby repealed to the extent of such conflict.

Section Eleven – Saving Clause

If any section, paragraph, clause or provision of this resolution is declared by a court of law to be invalid or unconstitutional, the invalidity or unconstitutionality thereof shall not affect the validity of any other provisions of this resolution, which are hereby declared to be separable.

Section Twelve – Recording

This resolution shall be entered into the minutes and upon the journals of the Board of Trustees of the Village of Oak Brook.

PASSED THIS 16th day of June 2026.

Ayes: _____

Nays: _____

Absent: _____

APPROVED THIS 16th day of June 2026.

_____
LAURENCE E. HERMAN,
Village President

ATTEST:

_____
NETASHA SCARPINITI,
Village Clerk

EXHIBIT A

[Purchase Order]

QUOTE - DO NOT PAY

Shorewood Home & Auto

1002 W Jefferson St
Shorewood, IL 60404 US

Phone: (815) 741-2941 Fax: (815) 741-2875
Email:
Web site: www.shorewoodhomeandauto.com

Quote: 01-28342
Date: 4/30/2026

PO:
CustId: OAK BROOK-01

Cust Email:
Phone: (630) 368-5200
Salesperson: KMarti
User: KMarti

Bill To:

OAK BROOK FIRE DEPARTMENT
1200 OAK BROOK RD
OAK BROOK, IL 60523 US

Ship To:

OAK BROOK FIRE DEPARTMENT

Item	Type	Description	Qty	Tax	Price	Discount	Net Price
R26X6L1RBJ	QU	POLARIS R26X6L1RBJ	1.0000		$44,999.00		
		37 - 2026 RANGER CREW XD1500					
		Line Discount: $3,000.00			($3,000.00)		
		Total R26X6L1RBJ					$41,999.00
2889767	PA	POL - K-ACCY,LIGHTS,BUMPER	1.0000		$399.99	$60.00	$339.99
		Discount applied: 15.00%					
2884876	PA	POL - K-ACCY,BMPR,RR	1.0000		$294.99	$44.25	$250.74
		Discount applied: 15.00%					
2889862	PA	POL - K-MIRROR,DOOR	1.0000		$179.99	$27.00	$152.99
		Discount applied: 15.00%					
2884875	PA	POL - K-ACCY,SLIDER 4P	1.0000		$629.99	$94.50	$535.49
		Discount applied: 15.00%					
2884872	PA	POL - K-ACCY BMPR,FRT,UPR	1.0000		$449.99	$67.50	$382.49
		Discount applied: 15.00%					
2890854	PA	POL - K-ACCY,SHACKLE	1.0000		$89.99	$13.50	$76.49
		Discount applied: 15.00%					
2890855	PA	POL - K-ACCY,BULL BAR	1.0000		$99.99	$15.00	$84.99
		Discount applied: 15.00%					
2889771	PA	POL - K-ACCY,WORKLIGHT,RR	1.0000		$249.99	$37.50	$212.49
		Discount applied: 15.00%					
2890423	PA	POL - K-ACCY,DOMELIGHT	1.0000		$99.99	$15.00	$84.99
		Discount applied: 15.00%					
TSK-1975	PA	31 - RGR XD 1500-Column Mounted Turn Signal Lever	1.0000		$799.00	$119.85	$679.15
		Discount applied: 15.00%					
2889738	PA	POL - K-ACCY,HARNESS,LIGHTBAR	1.0000		$149.99	$22.50	$127.49
		Discount applied: 15.00%					
NEW S/T	MC	NEW MACHINE SETUP	1.0000		$495.00		$495.00
						Total:	$45,421.30

Totals

Sub Total:	$45,421.30
Total Tax:	$0.00
Invoice Total:	$45,421.30

Signature:_____

No Return on Electrical Parts, Special Order Parts or Equipment
All Returns Must Be Accompanied By a Receipt Within 30 Days

Polaris Sales Inc., Medina, MN 55340
gov.info@polaris.com
Phone: 866-468-7783
www.polaris.com/gov

QUOTE

Contact Information

Name: ERIC FOCHT
Email: efocht@oak-brook.org
Phone: 6307462014
Fax:

Bill To: Oak Brook Fire Department
1200 Oak Brook Road
Oak Brook, IL 60523

Ship To: Oak Brook Fire Department
1200 Oak Brook Road
Oak Brook, IL 60523

Quote Number: QUO-66219-Q5M3S9
Revision #: 4
Date: 4/9/2026 3:17 PM
Quote Expires: 5/9/2026

Contract Name: Polaris Direct
Contract #:
Expiration Date:

Cage: 3FP69
Duns#: 123399383
Tax ID#: 41-1921490
Customer#:

Freight	Delivery Terms	Payment Terms	Payment Methods
FOB Destination-CONUS US Continental (CONUS) Only	180 Days	Net 30	Visa Mastercard Wire Check

Item #	QTY	Description	MSRP	Discount Price	Extended	Install Amount
R26X6L1RBJ	1	RANGER Crew XD 1500 NorthStar Premium - Super Graphite Smoke - 50 State	$44,999.00	$42,769.88	$42,769.88	$0.00
2889767	1	XD Auxiliary Lights for Front Brushguard	$399.99	$342.56	$342.56	$150.00
2884876	1	XD Rear Brushguard	$294.99	$252.64	$252.64	$75.00
2889862	1	XD Door Mount Sideview Mirrors	$179.99	$154.15	$154.15	$37.50
2884875	1	Crew XD Rockguard with Step	$629.99	$539.54	$539.54	$75.00
2884872	1	XD Upper Front Brushguard	$449.99	$385.38	$385.38	$75.00
2883870	1	RANGER Turn Signals w/Horn	$867.99	$743.37	$743.37	$225.00
2890854	1	XD Brushguard Shackles	$89.99	$77.07	$77.07	$37.50
2890855	1	XD Front Bumper Bull Bar	$99.99	$85.63	$85.63	$37.50
2889771	1	XD Rear Work Light	$249.99	$214.10	$214.10	$75.00

Polaris Sales Inc., Medina, MN 55340
gov.info@polaris.com
Phone: 866-468-7783
www.polaris.com/gov

QUOTE

Freight	Delivery Terms	Payment Terms	Payment Methods
FOB Destination-CONUS US Continental (CONUS) Only	180 Days	Net 30	Visa Mastercard Wire Check

Item #	QTY	Description	MSRP	Discount Price	Extended	Install Amount
2890423	1	K-ACCY-DOMELIGHT	$99.99	$85.63	$85.63	$0.00
2889738	1	XD Single Dash Light Bar Wire Harness	$149.99	$128.45	$128.45	$37.50

Comments: Customer requests both 32" light bars to be mounted on the roof; one as far forward as possible facing forward, one as far rearward as possible facing rearward, pending any potential fitment issues with the roof rack

Vehicle model year and color are subject to change dependent upon delivery date.

SUBTOTAL	$45,778.40
INSTALL*	$825.00
FREIGHT	$0.00
TAX	$0.00
TOTAL	$46,603.40

Acceptance and Payment Information

To accept the above quotation, please provide a purchase order via email (gov.info@polaris.com) and include the following:

- Bill to Address
- Billing Phone Number
- Ship to Address
- Point of Contact for Delivery
- Point of Contact E-Mail
- Point of Contact Phone
- Quote Number
- Alternate Point of Contact (Required)
- Do you have a loading dock, ramps, or forklift for offloading
- Tax exempt form for state we are shipping (or inform if taxable)

If you would like to submit payment via credit card, please call (866) 468-7783 to process payment during our hours of operation from 8:30 AM to 4:30 PM CST Monday through Friday. We accept Visa, Mastercard & American Express.

MTECH Inc.

1072 MARAUDER STREET
SUITE 210
CHICO, CA 95973
Phone: 530-894-5091
Fax: 530-894-5092

Quotation

Quote To: OAK BROOK FIRE DEPARTMENT
1200 OAK BROOK RD
Oak Brook, IL 60523
United States

Quote Number:	19505			**Contact:**	ERIC FOCHT
Quote Date:	04/03/2026	**Expires:**	05/03/2026	**Inquiry:**	
Customer:	OAKBROOKILFD			**Terms:**	Payment due on receipt
Salesman:	Emanuel Feliciano			**Phone:**	+1 (630) 746-2014
Ship Via:	FLAT RATE $800			**FAX:**	
FOB:	CHICO, CA				

1. This is an estimate only. Modification to line items may affect final pricing.
2. Price does not include sales tax (if applicable).

Item	Part Number Description	Revision	Quantity	Price
1	2300.009-10 QTAC EMS-R, Includes: - Red with white decals - Rescue/backboard rescue platform - Sliding storage tray, EMS-R, Black PolyTough - O2 Bottle Holder, Black PolyTough - IV Pole & Holder Assembly, EMS-R - Integrated latching rail/handle - Storage compartment with latching door - Sliding Storage Tray, Black, PolyTough - Adjustable attendant seat with seatbelt - Hand rail for attendant - Premium components		1	$4,195.0000 /EA
2	2250.025-04 QTAC Riser Platform, Weld-on, Polaris, for EMS-R and EMS-L		1	$255.0000 /EA
3	2250.091 QTAC MOUNTING KIT, POLARIS XD1500 FOR 85HP, EMS-C, EMS-R, 75UHP		1	$745.0000 /EA
4	FR800 QTAC (Central/Eastern) flat rate shipping fee to a commercial address within the Contiguous U.S. Additional services such as lift gate, appointment requests, school, secure location, military base, or farm delivery will require additional fees.		1	$800.0000 /EA
			Total:	***$5,995.00***

Emanuel Feliciano
efeliciano@qtacfire.com
(530) 261-9251

Item	Part Number Description	Revision	Quantity	Price

By EMANUEL FELICIANO
MTECH Inc.

Fleet Safety Supply
P.O. Box 649
Naperville, IL 60566
(630) 527-1341 Phone/Fax

Price Quote

DATE	ESTIMATE NO.
4/24/2026	79822R1

NAME / ADDRESS

Oak Brook Fire Department
1200 Oak Brook Rd.
Oak Brook, IL 60523

TERMS	FOB	P.O.
Net 30 Days	Naperville,IL	

ITEM	DESCRIPTION	QTY	COST	TOTAL
	Polaris			
	Headlight Flasher			
SO-ETHFSS-SP-ISO	Select-a-Flash, Isolation (replaces ET3PFISO00-P)	1	83.95	83.95
	Rigid			
RI-910313	SR Series Pro 10” Spot/Flood Combo. (Black housing and white light)	3	399.60	1,198.80
	Lightbar			
WH-RX8SP3R	WCX Duo Justice 50" DDDD Promo	1	2,064.15	2,064.15
WH-CCP	Dip Switch Programmable for Either a 18 Input Expansion Module for Use with CenCom Series of Control Modules, or WeCanX Control Point (18 Inputs and a Lightbar), For Use with Non-CenCore Control Devices/Modules	1	0.00	0.00
WH-MKAJ29	Adjustable Mounting Foot	1	0.00	0.00
	Taillight Flasher			
SO-ETHFSS-SP-ISO	Select-a-Flash, Isolation (replaces ET3PFISO00-P)	1	83.95	83.95
	Siren and Switch			
WH-WSSPA30	30 Watt Siren and Speaker Combination with PA and Mic	1	336.96	336.96
SO-ETCPMP801	800 Series Multi-purpose Control Panel and Switch Module w/ 8 Button Programming and Directional Arrow Function; includes Power Module & 35 selectable icon stickers	1	205.34	205.34
	Dome light			
SO-ECVDMLTAL00	Dome Light - Universal Mount Options ALL LED Red/White	1	97.95	97.95

Thank you for using Fleet Safety Supply!!!

TOTAL $4,071.10

STRYPES Plus More, Inc.
PO Box #1169
Hinckley, IL 60520
Cell 630.816.9069
email strypesplusmore@aol.com

DiamonDots™

DATE

4/9/2026

QUOTATION

BILL TO

Oak Brook Fire Dept

CONTACT INFO

Jeff Marciniak

QUANTITY	DESCRIPTION	COST EA	TOTAL
	Quote for New Polaris UTV graphics		
	Install lettering, custom OBFD scrambles, striping, numbers and chevron on a new Polaris UTV. All graphics are to match the existing department design for materials. Work to be done at the fire station.		
	Materials and labor to install	$700.00	$700.00
	GRAND TOTAL		$700.00

ITEM 8.A.4.
BOARD OF TRUSTEES MEETING
SAMUEL E. DEAN BOARD ROOM
BUTLER GOVERNMENT CENTER
1200 OAK BROOK ROAD
OAK BROOK, ILLINOIS
630-368-5000

AGENDA ITEM

Board of Trustees Special Meeting
of
June 16, 2026

SUBJECT: Purchase of Deicer Salt from Compass Minerals America Inc.

FROM: Tim O'Malley, Public Works Director

BUDGET SOURCE/BUDGET IMPACT: $29,732.00 from the FY2026/2027 Motor Fuel Tax (MFT) Improvements, Chemicals Account (431-61800).

RECOMMENDED MOTION: I move that the Village Board approve Resolution R-2371 and waive bidding on the grounds that DuPage County has previously conducted the bid process and authorize staff to issue a purchase order to Compass Minerals America Inc., Overland Park, KS, in the amount of $29,732.00 for 400 tons of deicer salt at $74.33 per ton "pending final attorney review and approval".

Background/History:
The Village has purchased bulk deicer salt through the DuPage County contract for many years. The last few years, we have split our purchase quantities between DuPage County and the State of Illinois' competitive bidding processes. This split purchase gives us the opportunity to receive salt from two suppliers to provide the Village with a safe redundancy option and to allow us to receive salt at the best price point. This upcoming season we are requesting 400 tons from DuPage County, which we are now requesting approval.

Recommendation:
Staff recommends that the Village Board approve Resolution R-2371 waiving further bidding, since DuPage County has already conducted the bid process and authorize staff to issue a purchase order to Compass Minerals America Inc., Overland Park, KS, in the amount of $29,732.00 for 400 tons of deicer salt at $74.33 per ton "pending final attorney review and approval."

Attachments:
1. 2026-PW-SALT-PG-R-2371
2. Executed Contract 26-00000-05-GM

THE VILLAGE OF OAK BROOK
COOK AND DUPAGE COUNTIES, ILLINOIS

RESOLUTION
NUMBER 2026-PW-SALT-PG-R-2371

A RESOLUTION TO WAIVE FURTHER BIDDING AND AUTHORIZE STAFF TO ISSUE A PURCHASE ORDER TO COMPASS MINERALS AMERICA INC., OF OVERLAND PARK KANSAS, FOR THE BULK PURCHASE OF DEICER SALT

LAURENCE E. HERMAN, Village President
NETASHA SCARPINITI, Village Clerk

JOHN ANOS
NAVEEN JAIN
MICHAEL MANZO
MELISSA MARTIN
A. SURESH REDDY
EDWARD TIESENGA

Village Board

Published in pamphlet form by authority of the
President and the Board of Trustees of the Village of Oak Brook
on the 16th of June 2026

RESOLUTION NO. 2026-PW-SALT-PG-R-2371

A RESOLUTION
TO WAIVE FURTHER BIDDING AND AUTHORIZE STAFF TO ISSUE A PURCHASE ORDER TO COMPASS MINERALS AMERICA INC., OF OVERLAND PARK KANSAS, FOR THE BULK PURCHASE OF DEICER SALT

WHEREAS, the Village of Oak Brook is a municipal corporation with authority provided for and granted pursuant to the Illinois Municipal Code to exercise certain powers and perform certain functions pertaining to its local government and affairs;

WHEREAS, the Village of Oak Brook (hereinafter referred to as "Village") upon approval of the Village President and Board of Trustees (collectively, the "Corporate Authorities") may enter into an Purchase Order with another party pursuant to Illinois Statute;

WHEREAS, pursuant to Section 1-7-10 of the Village Code, the Village shall have the authority to join with other units of government in cooperative purchasing plans when the best interests of the Village will be served by engaging in such cooperative purchasing plans;

WHEREAS, the County of DuPage has solicited bids for the supply of deicer salt to be used on roadways, sidewalks and other public ways for the 2026-2027 winter season;

WHEREAS, the County has awarded its deicer salt supply contract to Compass Minerals America Inc., ("Compass") located out of Overland Park, Kansas;

WHEREAS, pursuant to the awarded contract, Compass has agreed to provide 400 tons of deicer salt to the Village at the cost of $74.33 per ton for a total amount of $29,732.00;

WHEREAS, to the extent the Village were to engage in a competitive bid process to secure pricing for deicer salt, the Village would be unable to secure pricing at or lower than the prices secured by the County; and

WHEREAS, the Village President and the Board of Trustees have determined that it is in the best interest of the Village to participate in the cooperative purchasing of deicer salt offered by the County and hereby approve the bulk purchase of deicer salt from Compass at the prices provided herein and pursuant to the Purchase Order, attached hereto and incorporated herein as Exhibit A.

NOW, THEREFORE, BE IT RESOLVED, in open meeting assembled, by the Village President and Board of Trustees of the Village of Oak Brook, DuPage and Cook Counties, Illinois as follows:

Section One – Recitals

The Corporate Authorities hereby find that all of the recitals hereinbefore stated as contained in the preamble to this Resolution are full, true, and correct and do hereby, by reference, incorporate and make them part of this Resolution as legislative findings.

Section Two – Approval of Purchase Order

The President and Board of Trustees hereby approve the Purchase Order to Compass in substantially the same form attached as Exhibit A.

Section Three – Authorization and Direction

The Village Manager is hereby authorized to execute the Purchase Order, substantially in the form of such attached hereto as Exhibit A.

Section Four - Other Actions Authorized

The officers, employees and/or agents of the Village shall take all actions necessary or reasonably required to carry out and give effect to the intent of the Purchase Order and otherwise to consummate the transactions contemplated herein, and shall take all actions necessary in conformity therewith including, without limitation, the execution and delivery of all documents required to be delivered in connection with the transaction contemplated herein.

Section Five - Authorization of Expenditures

The Corporate Authorities hereby authorize and direct the expenditure of all costs related to the execution of the Agreement. Additionally, the Village is authorized and directed to allocate and spend all necessary funds to fulfill the requirements of the Purchase Order and of this Resolution.

Section Six – Waiver of Bidding Process

To the extent that any requirement of bidding would be applicable to the transactions contemplated hereunder, the same is hereby waived.

Section Seven - Acts of Village Officials

That all past, present and future acts and doings of the officials of the Village that are in conformity with the purpose and intent of this Resolution are hereby, in all respects, ratified, approved, authorized and confirmed.

Section Eight – Effective Date

This resolution shall be in full force and effect from and after its passage, approval and publication as provided by law.

Section Nine - Publication

This resolution shall be published in book or pamphlet form as provided by the Illinois Municipal Code.

Section ten – Conflict Clause

All resolutions, parts of resolutions or board actions in conflict herewith are hereby repealed to the extent of such conflict.

Section Eleven – Saving Clause

If any section, paragraph, clause or provision of this resolution is declared by a court of law to be invalid or unconstitutional, the invalidity or unconstitutionality thereof shall not affect the validity of any other provisions of this resolution, which are hereby declared to be separable.

Section Twelve – Recording

This resolution shall be entered into the minutes and upon the journals of the Board of Trustees of the Village of Oak Brook.

PASSED THIS 16th day of June 2026.

Ayes: _____

Nays: _____

Absent: _____

APPROVED THIS 16th day of June 2026.

_____
LAURENCE E. HERMAN,
Village President

ATTEST:

_____
NETASHA SCARPINITI,
Village Clerk

EXHIBIT A

[Purchase Order]

Illinois Department of Transportation

Local Public Agency Formal Contract

Contractor's Name
Compass Minerals America, Inc.

Contractor's Address	City	State	Zip Code
9900 W. 109th St	Overland Park	KS	66210

STATE OF ILLINOIS

Local Public Agency	County	Section Number
County of DuPage	DuPage	26-00000-05-GM

Street Name/Road Name	Type of Funds
2026 Salt Purchase	MFT and other funds

☒ CONTRACT BOND (when required)

For a County and Road District Project

Submitted/Approved
Highway Commissioner Signature & Date

Submitted/Approved
County Engineer/Superintendent of Highways Signature & Date
William C. Elson 6/2/2026

For a Municipal Project

Submitted/Approved/Passed
Signature & Date

Official Title

Department of Transportation

☐ Concurrence in approval of award
Regional Engineer Signature & Date

Local Public Agency	Local Street/Road Name	County	Section Number
County of DuPage	2026 Salt Purchase	DuPage	26-00000-05-GM

1. THIS AGREEMENT, made and concluded the 12th (Day) day of May 2026 (Month and Year) between the County (Local Public Agency Type) of DuPage (Local Public Agency), known as the party of the first part, and Compass Minerals America, Inc. (Contractor), its successor, and assigns, known as the party of the second part.

2. For and in consideration of the payments and agreements mentioned in the Proposal hereto attached, to be made and performed by the party of the first part, and according to the terms expressed in the Bond referring this contract, the party of the second part agrees with said party of the first part, at its own proper cost and expense, to do all the work, furnish all materials and all labor necessary to complete the work in accordance with the plans and specifications hereinafter described, and in full compliance with all of the terms of this contract.

3. It is also understood and agreed that the LPA Formal Contract Proposal, Special Provisions, Affidavit of Illinois Business Office, Apprenticeship or Training Program Certification, and Contract Bond hereto attached, and the Plans for Section 26-00000-05-GM (Section Number) in County of DuPage (Local Public Agency), approved by the Illinois Department of Transportation on _____ (Date), are essential documents of this contract and are a part hereof.

4. IN WITNESS WHEREOF, the said parties have executed this contract on the date above mentioned.

Attest: The County (Local Public Agency Type) of DuPage (Name of Local Public Agency)

Clerk Signature & Date

Jean Kaczmarek

(SEAL, if required by the LPA)

THE COUNTY OF DU PAGE WHEATON, ILLINOIS

Party of the First Part Signature & Date

By: 6-2-2026

(If a Corporation)

Corporate Name

Compass Minerals America, Inc.

President, Party of the Second Part Signature & Date

By: 5/26/2026

Joel Gerdes Director Highway Sales US

(SEAL, if required by the LPA)

(If a Limited Liability Corporation)

LLC Name

By: Manager or Authorized Member, Party of the Second Part

(If a Partnership)

Partner Signature & Date

Attest:

Secretary Signature & Date

Partner Signature & Date

Partners doing Business under the firm name of

Party of the Second Part

(SEAL, if required by the LPA)

(If an individual)

Party of the Second Part Signature & Date

Illinois Department of Transportation

Bond Number: 011238902
Executed In Triplicate

Contract Bond

Local Public Agency	County	Street Name/Road Name	Section Number
County of DuPage	DuPage	2026 Salt Purchase	26-00000-05-GM

Bond information to be returned to Local Public Agency at Div. of Trans., 421 N. County Farm Rd, Wheaton, IL 60187 (Complete Address).

We, Compass Minerals America, Inc. 9900 W. 109th St., Overland Park, KS 66210 (Contractor's Name and Address)

a/an Corporation organized under the laws of the State of Delaware (State) as PRINCIPAL, and

Liberty Mutual Insurance Company, 175 Berkeley Street, Boston, MA 02116 (Surety Name and Address)

as SURETY, are held and firmly bound unto the above Local Public Agency (thereafter referred to as "LPA") in the penal sum of

nine hundred sixty-six thousand two hundred ninety and 00/100 ----------

Dollars ($966,290.00) lawful money of the United States, to be paid to said LPA, the payment of which we bind ourselves, successors and assigns jointly to pay to the LPA this sum under the conditions of this instrument.

WHEREAS, THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH that the said Principal has entered into a written contract with the LPA acting through its awarding authority for the construction of work on the above sections, which contract is hereby referred to and made a part hereof, as if written herein at length, and whereby the said Principal has promised and agreed to perform said work in accordance with the terms of said contract, and has promised to pay all sums of money due for any labor, materials, apparatus, fixtures or machinery furnished to such Principal for the purpose of performing such work and has further agreed to pay all direct and indirect damages to any person, firm, company or corporation to whom any money may be due from the Principal, subcontractor or otherwise for any such labor, materials, apparatus, fixtures or machinery so furnished and that suit may be maintained on such bond by any such person, firm, company or corporation for the recovery of any such money.

NOW, THEREFORE, if the said Principal shall perform said work in accordance with the terms of said contract, and shall pay all sums of money due or to become due for any labor, materials, apparatus, fixtures or machinery furnished to it for the purpose of constructing such work, and shall commence and complete the work within the time prescribed in said contract, and shall pay and discharge all damages, direct and indirect, that may be suffered or sustained on account of such work during the time of the performance thereof and until the said work shall have been accepted, and shall hold the LPA and its awarding authority harmless on account of any such damages and shall in all respects fully and faithfully comply with all the provisions, conditions and requirements of said contract, then this obligation shall be void; otherwise it shall remain in full force and effect.

IN TESTIMONY WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by their respective agents this 15th (Day) day of May, 2026 (Month and Year).

PRINCIPAL

Company Name	Company Name
Compass Minerals America, Inc.	
By Signature & Date 6/1/26	By Signature & Date
Attest Signature & Date 6/1/26	Attest Signature & Date

(If PRINCIPAL is a joint venture of two or more contractors, the company names and authorized signature of each contractor must be affixed.)

STATE OF KS

COUNTY OF Johnson

I, Alan Emmons, a Notary Public in and for said county, do hereby certify that
Notary Name

Joel Gerdes
Insert name of Individuals signing on behalf of PRINCIPAL

who is/are each personally known to me to be the same person(s) whose name(s) is/are subscribed to the foregoing instrument on behalf of PRINCIPAL, appeared before me this day in person and acknowledged respectively, that he/she/they signed and delivered said instrument freely and voluntarily for the uses and purposes therein set forth.

Given under my hand and notarial seal this 1st (Day) day of June, 2026 (Month, Year).

NOTARY PUBLIC - State of Kansas
(SEAL)
Alan Emmons
My Appt. Expires 4/9/2029

Notary Public Signature & Date

6/1/2026

Date commission expires _____

SURETY

Name of Surety

Liberty Mutual Insurance Company

Title

By: Marie Claire Trinidad, Attorney-In-Fact

*Please see attached CA All-Purpose Acknowledgment Form for Surety

STATE OF KS

COUNTY OF _____

I, _____, a Notary Public in and for said county, do hereby certify that
Notary Name

_____
Insert name of Individuals signing on behalf of SURETY

who is/are each personally known to me to be the same person(s) whose name(s) is/are subscribed to the foregoing instrument on behalf of SURETY, appeared before me this day in person and acknowledged respectively, that he/she/they signed and delivered said instrument freely and voluntarily for the uses and purposes therein set forth.

Given under my hand and notarial seal this _____ (Day) day of _____ (Month, Year).

(SEAL)

Notary Public Signature & Date

Date commission expires _____

Approved this 12th (Day) day of May, 2026 (Month, Year).

Attest:

Local Public Agency Clerk Signature & Date

Jean Kaczmarek

County Clerk
Local Public Agency Type

Awarding Authority

County of DuPage

Awarding Authority Signature & Date

6-2-2026

RETURN WITH BID

Illinois Department of Transportation

Material Proposal Schedule of Prices

For the 2026 Renewal:
Unit Prices reflect a 5% increase from the prices bid in 2025

Local Public Agency	County	Section Number
DuPage County Division of Transportation	DuPage	**26-00000-05-GM**

Material Proposal Schedule of Prices

Group No.	Item(s)	Delivery	Unit	Quantity	Unit Price	Total
1	ROCK SALT	FOB	TON	13000	$74.33	$966,290.00
1	ROCK SALT (130% to 150%)	FOB	TON		$74.33	
	Bidder's Total Proposal for Group 1					**$966,290.00**
2	ROCK SALT	FOB	TON	T.B.D.	$74.33	
2	ROCK SALT, EARLY DELIVERY	FOB	TON	T.B.D.	$74.33	
2	ROCK SALT (130% to 150%)	FOB	TON		$74.33	
	Bidder's Total Proposal for Group 2					

The undersigned firm certifies that it has not been convicted of bribery or attempting to bribe an officer or employee of the State of Illinois, nor has the firm made an admission of guilt of such conduct which is a matter of record, nor has an official, agent, or employee of the firm committed bribery or attempted bribery on behalf of the firm and pursuant to the direction or authorization of a responsible official of the firm. The undersigned firm further certifies that it is not barred from contracting with any unit of State or local government as a result of a violation of State laws prohibiting bid-rigging or bid rotating.

Bidder Signature and Date

5/26/2024

Joel Gerdes - Director Highway Sales US

Address	City	State	Zip Code
9900 W. 109th Street	Overland Park	KS	66210

The 2026 Salt Purchase, Section Number 26-00000-05-GM,
is a renewal of the 2025 Salt Purchase, Section 25-0SALT-02-MS.

The 2025 Salt Purchase documents are attached for reference.

Illinois Department of Transportation

Local Public Agency Formal Contract

Contractor's Name: Compass Minerals America Inc.

Contractor's Address: 9900 W. 109th St | City: Overland Park | State: KS | Zip Code: 66210

STATE OF ILLINOIS

Local Public Agency: County of DuPage | County: DuPage | Section Number: 25-0SALT-02-MS

Street Name/Road Name: 2025 Salt Purchase | Type of Funds: MFT and other funds

☒ CONTRACT BOND (when required)

For a County and Road District Project

Submitted/Approved

Highway Commissioner Signature & Date

Submitted/Approved

County Engineer/Superintendent of HighwaysSignature & Date

William C. Eidson 7/15/2025

County Engineer
On behalf of IDOT pursuant to
Agreement of Understanding
dated June 18, 2024

For a Municipal Project

Submitted/Approved/Passed

Signature & Date

Official Title

Department of Transportation

☐ Concurrence in approval of award

Regional Engineer Signature & Date

Local Public Agency	Local Street/Road Name	County	Section Number
County of DuPage	2025 Salt Purchase	DuPage	25-0SALT-02-MS

1. THIS AGREEMENT, made and concluded the 24th (Day) day of June 2025 (Month and Year) between the County (Local Public Agency Type) of DuPage (Local Public Agency), known as the party of the first part, and Compass Minerals America Inc. (Contractor), its successor, and assigns, known as the party of the second part.

2. For and in consideration of the payments and agreements mentioned in the Proposal hereto attached, to be made and performed by the party of the first part, and according to the terms expressed in the Bond referring this contract, the party of the second part agrees with said party of the first part, at its own proper cost and expense, to do all the work, furnish all materials and all labor necessary to complete the work in accordance with the plans and specifications hereinafter described, and in full compliance with all of the terms of this contract.

3. It is also understood and agreed that the LPA Formal Contract Proposal, Special Provisions, Affidavit of Illinois Business Office, Apprenticeship or Training Program Certification, and Contract Bond hereto attached, and the Plans for Section 25-0SALT-02-MS (Section Number) in County of DuPage (Local Public Agency), approved by the Illinois Department of Transportation on _____ (Date), are essential documents of this contract and are a part hereof.

4. IN WITNESS WHEREOF, the said parties have executed this contract on the date above mentioned.

Attest: The County (Local Public Agency Type) of DuPage (Name of Local Public Agency)

Clerk Signature & Date

Jean Kaczmarek

(SEAL, if required by the LPA)

THE COUNTY OF DU PAGE WHEATON, ILLINOIS

Party of the First Part Signature & Date

By: 7-2-2025

(If a Corporation)

Corporate Name

Compass Minerals America Inc.

President, Party of the Second Part Signature & Date

By: 6/30/2025

- Sean Lierz, Senior Manager Highway Sales

(If a Limited Liability Corporation)

(SEAL, if required by the LPA)

LLC Name

Manager or Authorized Member, Party of the Second Part

By:

(If a Partnership)

Partner Signature & Date

Attest:

Secretary Signature & Date

Partner Signature & Date

Partners doing Business under the firm name of

(SEAL, if required by the LPA)

Party of the Second Part

(If an individual)

Party of the Second Part Signature & Date

EXECUTED IN TRIPLICATE
BOND NUMBER: 014261936

Illinois Department of Transportation

Contract Bond

Local Public Agency	County	Street Name/Road Name	Section Number
County of DuPage	DuPage	2025 Salt Purchase	25-0SALT-02-MS

Bond information to be returned to Local Public Agency at Div. of Trans., 421 N. County Farm Rd, Wheaton, IL 60187 (Complete Address).

We, Compass Minerals America Inc. 9900 W. 109th St., Overland Park, KS 66210 (Contractor's Name and Address)

a/an Corporation organized under the laws of the State of Delaware (State) as PRINCIPAL, and

Liberty Mutual Insurance Company 175 Berkeley Street, Boston, MA 02116 (Surety Name and Address)

as SURETY, are held and firmly bound unto the above Local Public Agency (thereafter referred to as "LPA") in the penal sum of

seven hundred seven thousand nine hundred and 00/100 ----------

Dollars ($707,900.00) lawful money of the United States, to be paid to said LPA, the payment of which we bind ourselves, successors and assigns jointly to pay to the LPA this sum under the conditions of this instrument.

WHEREAS, THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH that the said Principal has entered into a written contract with the LPA acting through its awarding authority for the construction of work on the above sections, which contract is hereby referred to and made a part hereof, as if written herein at length, and whereby the said Principal has promised and agreed to perform said work in accordance with the terms of said contract, and has promised to pay all sums of money due for any labor, materials, apparatus, fixtures or machinery furnished to such Principal for the purpose of performing such work and has further agreed to pay all direct and indirect damages to any person, firm, company or corporation to whom any money may be due from the Principal, subcontractor or otherwise for any such labor, materials, apparatus, fixtures or machinery so furnished and that suit may be maintained on such bond by any such person, firm, company or corporation for the recovery of any such money.

NOW, THEREFORE, if the said Principal shall perform said work in accordance with the terms of said contract, and shall pay all sums of money due or to become due for any labor, materials, apparatus, fixtures or machinery furnished to it for the purpose of constructing such work, and shall commence and complete the work within the time prescribed in said contract, and shall pay and discharge all damages, direct and indirect, that may be suffered or sustained on account of such work during the time of the performance thereof and until the said work shall have been accepted, and shall hold the LPA and its awarding authority harmless on account of any such damages and shall in all respects fully and faithfully comply with all the provisions, conditions and requirements of said contract, then this obligation shall be void; otherwise it shall remain in full force and effect.

IN TESTIMONY WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by their respective agents this 27TH (Day) day of JUNE, 2025 (Month and Year).

PRINCIPAL

Company Name	Company Name
Compass Minerals America Inc.	
By	By
Signature & Date: Sean Lilly 6/30/25	Signature & Date
Attest	Attest
Signature & Date: 6/30/2025	Signature & Date

(If PRINCIPAL is a joint venture of two or more contractors, the company names and authorized signature of each contractor must be affixed.)

STATE OF Kansas
COUNTY OF Johnson

I, Alan Emmons, a Notary Public in and for said county, do hereby certify that
Notary Name

Sean Lierz
Insert name of Individuals signing on behalf of PRINCIPAL

who is/are each personally known to me to be the same person(s) whose name(s) is/are subscribed to the foregoing instrument on behalf of PRINCIPAL, appeared before me this day in person and acknowledged respectively, that he/she/they signed and delivered said instrument freely and voluntarily for the uses and purposes therein set forth.

Given under my hand and notarial seal this 30th day of June, 2025.
Day Month, Year

NOTARY PUBLIC - State of Kansas
Alan Emmons
My Appt. Expires 4/9/2029

Notary Public Signature & Date
6/30/2025

Date commission expires 4/9/2029

SURETY

Name of Surety
Liberty Mutual Insurance Company

Title: Attorney-in-Fact
By: Marie Daires Trinidad

* please see CA all-purpose acknowledgement form for surety

STATE OF
COUNTY OF

I, _____, a Notary Public in and for said county, do hereby certify that
Notary Name

_____
Insert name of Individuals signing on behalf of SURETY

who is/are each personally known to me to be the same person(s) whose name(s) is/are subscribed to the foregoing instrument on behalf of SURETY, appeared before me this day in person and acknowledged respectively, that he/she/they signed and delivered said instrument freely and voluntarily for the uses and purposes therein set forth.

Given under my hand and notarial seal this _____ day of _____.
Day Month, Year

Notary Public Signature & Date

(SEAL)

Date commission expires

Approved this 24th day of June 2025.
Day Month, Year

Attest:

Local Public Agency Clerk Signature & Date
Jean Kaczmarek

County Clerk
Local Public Agency Type

Awarding Authority
County of DuPage

Awarding Authority Signature & Date
7-2-2025

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT CIVIL CODE§ 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
County of Orange)

On 06-27-2025 before me, Kathy R. Mair, Notary Public ,
DATE [Name of Notary Public and Title "Notary Public"]

personally appeared Marie Claire Trinidad ,
[Name(s) of Signer(s)]

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

KATHY R. MAIR
Notary Public - California
Orange County
Commission # 2518209
My Comm. Expires May 22, 2029

WITNESS my hand and official seal.

Signature of Notary Public: Kathy R. Mair

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: Marie Claire Trinidad

- ☐ Corporate Officer – Title(s): _____
- ☐ Partner – ☐ Limited ☐ General
- ☐ Individual ☒ Attorney-in-Fact
- ☐ Trustee ☐ Guardian or Conservator
- ☐ Other: _____

Signer Is Representing: _____

Signer's Name: _____

- ☐ Corporate Officer – Title(s): _____
- ☐ Partner – ☐ Limited ☐ General
- ☐ Individual ☐ Attorney-in-Fact
- ☐ Trustee ☐ Guardian or Conservator
- ☐ Other: _____

Signer is Representing: _____

Liberty Mutual SURETY

POWER OF ATTORNEY

Certificate No: 8204867

American States Insurance Company
First National Insurance Company of America
General Insurance Company of America
Safeco Insurance Company of America

KNOWN ALL PERSONS BY THESE PRESENTS: That American States Insurance Company is a corporation duly organized under the laws of the State of Indiana, First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America are corporations duly organized under the laws of the State of New Hampshire (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint,

Marie Claire Trinidad

all of the city of Irvine, state of CA each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 1st day of July, 2024.

American States Insurance Company
First National Insurance Company of America
General Insurance Company of America
Safeco Insurance Company of America

By: _____
Nathan J. Zangerle, Assistant Secretary

STATE OF PENNSYLVANIA ss
COUNTY OF MONTGOMERY

On this 1st day of July, 2024, before me personally appeared Nathan J. Zangerle, who acknowledged himself to be Assistant Secretary of American States Insurance Company, First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Plymouth Meeting, Pennsylvania, on the day and year first above written.

Commonwealth of Pennsylvania - Notary Seal
Teresa Pastella, Notary Public
Montgomery County
My commission expires March 28, 2029
Commission number 1126044
Member, Pennsylvania Association of Notaries

By: _____
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-law and Authorizations of American States Insurance Company, First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America, which are now in full force and effect reading as follows:

ARTICLE IV - OFFICERS: Section 12. Power of Attorney

Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorney-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

Certificate of Designation – The President of the Company, acting pursuant to the Bylaws of the Company, authorizes Nathan J. Zangerle, Assistant Secretary to appoint such attorneys-infact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization – By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, of American States Insurance Company, First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America do hereby certify that this power of attorney executed by said Companies is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 27th day of June, 2025.

By: _____
Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

For bond and/or Power of Attorney (POA) verification inquiries, please call 610-832-8240 or email HOSUR@libertymutual.com.

Illinois Department of Transportation

Local Public Agency Material
Proposal or Deliver & Install Proposal

Proposal Submitted By:

Contractor's Name			
Compass Minerals America Inc.			
Contractor's Address	**City**	**State**	**Zip Code**
9900 W. 109th St.	Overland Park	KS	66210

STATE OF ILLINOIS

Local Public Agency	County	Section Number
County of DuPage	DuPage	25-0SALT-02-MS

Street Name/Road Name	Type of Funds
2025 Salt Purchase	MFT and other funds

☒ Material proposal ☐ Deliver and Install Proposal ☐ Plans

For a County and Road District Project

Submitted/Approved

Highway Commissioner Signature & Date

Submitted/Approved

County Engineer/Superintendent of Highways Signature & Date

William C. Edson 7/15/2025

County Engineer
On behalf of IDOT pursuant to
Agreement of Understanding
dated June 18, 2024

For a Municipal Project

Submitted/Approved/Passed

Signature & Date

Official Title

Department of Transportation

Released for bid based on limited review

Regional Engineer Signature & Date

Note: All proposal documents, including Proposal Guaranty Checks or Proposal Bid Bonds, should be stapled together to prevent loss when bids are processed.

Local Public Agency	County	Section Number
County of DuPage	DuPage	25-0SALT-02-MS

NOTICE TO BIDDERS

Sealed proposals for the project described below will be received at the office of the DuPage County Division of Transportation (Name of Office)

421 N. County Farm Road, 2nd Floor, Wheaton, IL 60187 (Address) until 2:00 PM (Time) on 06/05/25 (Date).

1. Plans and proposal forms will be available in the office of
online at
https://www.dupagecounty.gov/government/departments/transportation/doing_business/bids_and_lettings.php

2. ☐ Prequalification
   If checked, the 2 low bidders must file within 24 hours after the letting an "Affidavit of Availability" (Form BC 57) in duplicate, showing all uncompleted contracts awarded to them and all low bids pending award for Federal, State, County, Municipal and private work. One original shall be filed with the Awarding Authority and one original with the IDOT District Office.
3. The Awarding Authority reserves the right to waive technicalities and to reject any or all proposals as provided in BLRS Special Provision for Bidding Requirements and Conditions for Material/Deliver and Install Proposals.
4. A proposal guaranty in the proper amount, as specified in the BLRS Special Provision for Bidding Requirements and Conditions for Material/Deliver and Install Proposals, will be required. See the attached Special Provisions for specific instructions for proposal guaranty for this proposal packet.
5. The successful bidder at the time of execution of the contract will be required to deposit a contract bond or proposal guaranty as provided for in the special provisions. Failure on the part of the contractor to deliver the material within the time specified or to do the work specified herein will be considered just cause to forfeit his surety as provided in Article 108.10 of the Standard Specifications.
6. Proposals shall be submitted on forms furnished by the Awarding Authority and shall be enclosed in an envelope endorsed "Material Proposal, Section 25-0SALT-02-MS ".

By Order of Awarding Authority	County Engineer/Superintendent of Highways/ Municipal Clerk	Date
County of DuPage	William C. Eidson	05/01/25

Material Proposal or Deliver & Install Proposal

To
Awarding Authority
County of DuPage

Awarding Authority Address	City	State	Zip Code
421 N. County Farm Road	Wheaton	IL	60187

If this bid is accepted within 45 days from the date of opening, the undersigned agrees to furnish or to deliver & install any or all of the materials, at the quoted unit prices, subject to the following:

1. It is understood and agreed that the "Standard Specifications for Road and Bridge Construction", adopted 01/01/22 and the "Supplemental Specifications and Recurring Special Provisions", adopted 01/01/25 , prepared by the Department of Transportation, shall govern insofar as they may be applied and insofar as they do not conflict with the special provision and supplemental specifications attached hereto.
2. It is understood that quantities listed are approximate only and that they may be increased or decrease as may be needed to properly complete the improvement within its present limits or extensions thereto, at the unit prices stated and that bids will be compared on the basis of total price bid for each group.
3. Delivery in total or partial shipments as ordered shall be made within the time specified in the special provisions or by the acceptance at the point and in the manner specified in the "Schedule of Prices". If delivery on the job site is specified, it shall mean any place or paces on the road designed by the awarding authority or its authorized representative.
4. The contractor and/or local public agency performing the actual material placement operations shall be responsible for providing work zone traffic control, unless otherwise specified in this proposal. Such devices shall meet the requirements of and be installed in accordance with applicable provisions of the "Illinois Manual on Uniform Traffic Control Devices" and any referenced Illinois Highway Standards.

5. Each pay item should have a unit price and a total price. If no total price is shown or if there is a discrepancy between the product of the unit price multiplied by the quantity, the unit price shall govern. If a unit price is omitted, the total price will be divided by the quantity in order to establish a unit price. A bid will be declared unacceptable if neither a unit price nor a total price is shown.

6. A proposal guaranty in the proper amount, as specified in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals, will be required. The proposal guaranty as specified in the special provisions is attached.

   If a bid bond is allowed or required, Department form BLR 12230 or a proposal guaranty check, complying with the specifications, made payable to: County Treasurer of DuPage .

   The amount of the check is (Bid Bond was submitted) (_____).

Attach Cashier's Check or Certified Check Here

In the event that one proposal guaranty check is intended to cover two or more bid proposals, the amount must be equal to the sum of the proposal guaranties which would be required for each individual bid proposal. If the proposal guaranty check is place in another bid proposal, state below where it may be found.

The proposal guaranty check will be found in the bid proposal for: Section Number _____).

Discounts will be allowed for payment as follows: _____ _____calendar days _____ _____calendar days

Discounts will not be considered in determining the low bidder

Bidder

By | Title

Address | City | State | Zip Code

RETURN WITH BID

Illinois Department of Transportation

Material Proposal Schedule of Prices

Local Public Agency	County	Section Number
DuPage County Division of Transportation	DuPage	**25-0SALT-02-MS**

Material Proposal Schedule of Prices

Group No.	Item(s)	Delivery	Unit	Quantity	Unit Price	Total
1	ROCK SALT	FOB	TON	10000	$70.79	$707,900.00
1	ROCK SALT (130% to 150%)	FOB	TON		$70.79	
	Bidder's Total Proposal for Group 1					**$707,900.00**

The undersigned firm certifies that it has not been convicted of bribery or attempting to bribe an officer or employee of the State of Illinois, nor has the firm made an admission of guilt of such conduct which is a matter of record, nor has an official, agent, or employee of the firm committed bribery or attempted bribery on behalf of the firm and pursuant to the direction or authorization of a responsible official of the firm. The undersigned firm further certifies that it is not barred from contracting with any unit of State or local government as a result of a violation of State laws prohibiting bid-rigging or bid rotating.

Bidder Signature and Date

Sean Lierz 6/30/25

- Sean Lierz, Senior Manager Highway Sales

Address	City	State	Zip Code
9900 W. 109th Street	Overland Park	KS	66210

RETURN WITH BID

Illinois Department of Transportation

Material Proposal Schedule of Prices

Local Public Agency	County	Section Number
DuPage County Division of Transportation	DuPage	25-0SALT-02-MS

Material Proposal Schedule of Prices

Group No.	Item(s)	Delivery	Unit	Quantity	Unit Price	Total
1	ROCK SALT	FOB	TON	10000	$ 70.79	$ 707,900.00
1	ROCK SALT (130% to 150%)	FOB	TON		70.79	
	Bidder's Total Proposal for Group 1				$	700,900.00
2	ROCK SALT	FOB	TON	45270	$ 70.79	$ 3,204,663.30
2	ROCK SALT, EARLY DELIVERY	FOB	TON	1650	$ 70.79	$ 116,803.50
2	ROCK SALT (130% to 150%)	FOB	TON		70.79	
	Bidder's Total Proposal for Group 2				$	3,321,466.80

The undersigned firm certifies that it has not been convicted of bribery or attempting to bribe an officer or employee of the State of Illinois, nor has the firm made an admission of guilt of such conduct which is a matter of record, nor has an official, agent, or employee of the firm committed bribery or attempted bribery on behalf of the firm and pursuant to the direction or authorization of a responsible official of the firm. The undersigned firm further certifies that it is not barred from contracting with any unit of State or local government as a result of a violation of State laws prohibiting bid-rigging or bid rotating.

Bidder Signature and Date

6/3/25

Address	City	State	Zip Code
9900 W. 109th Street	Overland Park	KS	66210

DuPage County
Finance Department
Procurement Division
421 North County Farm Road
Room 3-400
Wheaton, Illinois 60187-3978

REQUIRED VENDOR ETHICS DISCLOSURE STATEMENT

Section I: Contact Information

Please complete the contact information below.

BID NUMBER:	25-0SALT-02-MS
COMPANY NAME:	Compass Minerals America Inc.
CONTACT PERSON:	Sean Lierz
CONTACT EMAIL:	highwaygroup@compassminerals.com

Section II: Procurement Ordinance Requirements

Every contractor, union, or vendor that is seeking or has previously obtained a contract, change orders to one (1) or more contracts, or two (2) or more individual contracts with the County, shall provide to the Procurement Division a written disclosure of all political campaign contributions made by such contractor, union, or vendor to any incumbent County Board member, County Board chairman, or Countywide elected official whose office the contract to be awarded will benefit within the current and previous calendar year. The contractor, union, or vendor shall update such disclosure annually during the term of a multi-year contract and prior to any change order or renewal requiring approval by the county board. For purposes of this disclosure requirement, "contractor or vendor" includes owners, officers, managers, lobbyists, agents, consultants, bond counsel and underwriters counsel, subcontractors, and corporate entities under the control of the contracting person, and political action committees to which the contracting person has made contributions.

Has the Bidder made contributions as described above?

- ☐ Yes
- ☒ No

If "Yes", complete the required information in the table below.

RECIPIENT	DONOR	DESCRIPTION (e.g., cash, type of item, in-kind services, etc.)	AMOUNT/VALUE	DATE MADE

All contractors and vendors who have obtained or are seeking contracts with the County shall disclose the names and contact information of their lobbyists, agents and representatives and all individuals who are or will be having contact with county officers or employees in relation to the contractor bid and shall update such disclosure with any changes that may occur.

Has the Bidder had or will the Bidder have contact with lobbyists, agents, representatives or individuals who are or will be having contact with county officers or employees as described above.

☒ Yes

☐ No

If "Yes", list the name, phone number, and email of lobbyists, agents, representatives, and all individuals who are or will be having contact with county officers or employees in the table below.

NAME	PHONE	EMAIL
Sean Lierz, Sr., Manager Highway Sales	800-323-1641 option 2	highwaygroup@compassminerals.com
Joel Gerdes, Director US Highway Sales	800-323-1641 option 2	highwaygroup@compassminerals.com
Brenda Blunt, Customer Experience Spcl	800-323-1641 option 1	highwaygroup@compassminerals.com

Section III: Violations

A contractor or vendor that knowingly violates these disclosure requirements is subject to penalties which may include, but are not limited to, the immediate cancellation of the contract and possible disbarment from future County contracts. Continuing and supplemental disclosure is required. The Bidder agrees to update this disclosure form as follows:

- If information changes, within five (5) days of change, or prior to county action, whichever is sooner;
- 30 days prior to the optional renewal of any contract;
- Annual disclosure for multi-year contracts on the anniversary of said contract
- With any request for change order except those issued by the county for administrative adjustments

The full text of the County's Ethics Ordinance is available at:
http://www.dupagecounty.gov/government/county_board/ethics_at_the_county/

The full text of the County's Procurement Ordinance is available at:

https://www.dupagecounty.gov/government/departments/finance/procurement/procurement_ordinance_and_guiding_principles.php

Section IV: Certification

By signing below, the Bidder hereby acknowledges that it has received, read, and understands these requirements, and certifies that the information submitted on this form is true and correct to the best of its knowledge.

Printed Name: Joel Gerdes or Sean Lierz

Signature: Sean Lierz

Title: Director US Highway Sales
Senior Manager Highway Sales

Date: 6/30/25

RETURN WITH BID

ADDENDUM NO. 1

May 30, 2025

2025 SALT PURCHASE
SECTION 25-0SALT-02-MS

The proposal documents include the following forms:

- Affidavit of Illinois Business Office
- References

These forms are **not** required and do not need to be included with the bid.
A revised proposal book will not be issued.

By Order of
County of DuPage
(Awarding Authority)

William C. Eidson, P.E.
County Engineer

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DuPage County – Required Vendor Ethics Disclosure Statement
Three (3) references form
IRS Form W-9: Request for Taxpayer Identification Number and Certification

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STATE OF ILLINOIS

SPECIAL PROVISIONS

The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction", adopted January 1, 2022, the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways", in effect on the date of invitation for bids and the "Supplemental Specifications and Recurring Special Provisions" indicated on the Check Sheet included herein which apply to and govern the proposed improvement designated as Section 25-0SALT-02-MS , and in case of conflict with any part or parts of said Specifications, the said Special Provisions shall take precedence and shall govern.

BIDDING REQUIREMENTS AND CONDITIONS FOR MATERIAL PROPOSALS

(Illinois Department of Transportation Bureau of Local Roads and Streets Special Provision for BIDDING REQUIREMENTS AND CONDITIONS FOR MATERIAL PROPOSALS LRS Check Sheet #7)

Add the following to the section **Prequalification of Bidders**: "Prequalification is not required. Prospective bidders shall submit a Request for Authorization to Bid form to the DuPage County Division of Transportation. The Request for Authorization to Bid shall be submitted at least one business day prior to the public opening of proposals. Authorization to bid will be issued by the DuPage County Division of Transportation to prospective bidders who are qualified to perform the work."

Revise the first sentence of the section **Preparation of the Proposal** to read: "Bidders shall submit their proposals on the form furnished by the Awarding Authority or on a form approved by the Awarding Authority prior to submittal of the Proposal."

Add the following to the section **Preparation of the Proposal**: "Unit prices shall only be accepted rounded to the nearest one-hundredth (0.01) of a dollar."

Add the following to the section **Preparation of the Proposal**: "The low bidder shall complete and submit the IRS W-9 form included in this proposal within 48 hours of being notified as the low bidder. The form shall be emailed to Department at DOTBidInfo@dupagecounty.gov. Bidders may either submit the W-9 form with their bid proposal or wait to be notified that they are the low bidder.

Add the following to the section **Public Opening of Proposals**: "Proposals will only be accepted by bidders who have been issued an authorization to bid by the DuPage County Division of Transportation. Proposals submitted without authorization to bid will be returned unopened."

Add the following to the section **Consideration of Proposals**: "Each Awarding Authority or Agency may consider the amounts bid for their respective work and need not consider the total bid for all agencies."

Revise the first sentence of the section **Requirement of Contract Bond** to read: "The Contractor or Supplier shall furnish the Awarding Authority a performance and payment bond with good and sufficient sureties in an amount not less than twenty percent (20%) of the full amount of the award as the penal sum. The other participating agencies may require additional individual performance bonds against inadequate performance per all requirements of the bid documents."

SECTION 107 LEGAL REGULATIONS AND RESPONSIBILITY TO PUBLIC

Add the following to Article 107.01: The Department will provide forms or a website for the Contractor and Subcontractors to enter and submit vendor information to comply with Public Act 102-0265.

Article 107.27 Insurance. In addition to the requirements of this Article, the policies of insurance for Commercial (Comprehensive) General Liability and Commercial (Comprehensive) Automobile Liability shall include an additional insured endorsement naming the County of DuPage, its officers and employees as additional insureds. The endorsements shall be on forms acceptable to the County of DuPage. This additional insured is to be on a primary and non-contributory basis and include a Waiver of Subrogation endorsement. Other agencies will require insurance with similar additional insured endorsements.

Employer's Liability insurance shall be in an amount not less than one million ($1,000,000.00) dollars each accident/injury and one million ($1,000,000.00) dollars each employee/disease.

Limits of Umbrella Excess Liability (over primary) shall not be less than an amount that in combination with Commercial General Liability totals $6,000,000 of liability insurance per occurrence. The Umbrella Excess Liability Policy shall include in the "Who is Insured" pages of the policy wording such as "Any other person or organization you have agreed in a written contract to provide additional insurance" or wording to that affect. The contractor shall provide a copy of said section of the excess/umbrella liability policy upon request by the County of DuPage or other agency.

The Contractor shall require all subcontractors to maintain the same insurance coverage required of the contractor. The County of DuPage retains the right to obtain evidence of subcontractor insurance coverage at any time.

Replace the second sentence of the second paragraph (third to last paragraph) of this article with the following: "It is the duty of the Contractor to immediately notify the County of DuPage or other certificate holder if any insurance required under this contract has been cancelled, materially changed, or renewal has been refused, and the Contractor shall immediately suspend all work in progress and take the necessary steps to purchase, maintain and provide the required insurance coverage. If a suspension of work should occur due to insurance requirements, upon verification by the County of DuPage or other agency of the required insurance coverage, the County of DuPage or other agency shall notify the Contractor that the Contractor can proceed with the work that is a part of this contract. Failure to provide and maintain the required insurance coverage could result in the immediate cancellation of this contract, and the Contractor shall accept and bear all costs that may result from the cancellation of this contact due to Contractor's failure to provide and maintain the required insurance."

SECTION 109 MEASUREMENT AND PAYMENT

Article 109.08 Acceptance and Final Payment. Add the following to this Article: "Prior to final payment, an affidavit from the Contractor will be required."

SCOPE OF CONTRACT

This work consists of furnishing and delivering bulk rock salt to the DuPage County Division of Transportation ("County") and other local units of government within DuPage County ("Agencies") for snow and ice control.

TERM OF CONTRACT

This contract shall be in effect for one year from the date of issuance. DuPage County and other participating agencies reserve the right to renew this contract, or any part of this contract, for an additional one-year period, subject to acceptable performance by the contractor. DuPage County and other participating agencies may update their locations and quantities in the event of a renewal.

ESCALATOR PROVISION:
The unit price shall remain firm/fixed for the first year. Written requests for price revisions after the first year shall be submitted at least 60 days before the annual contract period. Requests shall be based upon and include documentation of the actual change in the costs of the components involved in the contract and shall not include overhead and profit. Changes in the contract price shall be made in the amount of the actual change in contractor cost or the percentage change in the U.S. Average Consumer Price Index for the Midwest Urban - per category "All Items," whichever is less. Surcharges for fuel and/or other costs shall not be allowed. Manufacturer and/or Warehouse Distributor's price sheets or an equivalent document showing the new pricing may be considered sufficient documentation for a price change. PRICE INCREASES SHALL NOT EXCEED 5.0%, FOR ANY YEAR. The County and other agencies reserve the right to reject any price increase request.

BULK ROCK SALT

MATERIALS

- Bulk Rock Salt shall meet the requirements of AASHTO Specification M143, Sodium Chloride Type 1, Grade 1
- Bulk rock salt shall be 95 to 98 percent pure sodium chloride.
- The maximum moisture content shall be no more than two and one-half percent (2.5%).
- Reclaimed or re-crushed rock salt will not be accepted.
- Deliveries of rock salt shall be free of any foreign materials (e.g., mud, rocks, wood, tarpaulins, etc.). The contractor shall be informed of the reason for rejection and removal within two (2) working days.
- All salt shall be lump-free. No salt with lumps larger than two (2) inches in diameter will be accepted and loads with lumps larger than two (2) inches will be rejected.
- Rejected loads shall be separated, and the contractor shall be informed of the reason for rejection. The contractor is required to replace the rejected load within 2 business days.

Bulk rock salt that does not meet the above standards may be rejected. Rejected loads will be replaced at the contractor's expense within 5 business days.

DELIVERY REQUIREMENTS

- DuPage County and other participating agencies will issue individual releases for bulk rock salt.
- Orders shall be shipped within three (3) working days from the order date and completed within seven (7) working days.
- Deliveries will not be accepted outside of agreed-upon hours.
- All order releases shall be delivered to completion unless mutually agreed upon.
- All salt deliveries shall be made with trucks equipped with tailgate dump trailers.
- All trucks shall be covered with approved waterproof material.
- The contractor shall ensure that upon delivery, the driver inspects the inside of the trailer and confirms that all salt has been removed before leaving the point of delivery.

- Each delivery shall be accompanied by a delivery ticket. The ticket shall be a certified scale ticket indicating the gross, tare, and net weight of each truckload of rock salt. The contractor shall ensure that all weights and measures shown on the delivery tickets are correct.
- Deliveries shall not be made without an authorized representative from the participating agency present during dumping.
- Delivery tickets shall be signed by an authorized representative from the agency.
- All agencies reserve the right to require that delivery trucks be directed to a local scale to check the accuracy of the delivered loads.
- The actual tonnage delivered by the contractor shall be within twenty (20) tons of the ordered tonnage unless mutually agreed upon by both parties.
- The contractor shall notify the agency of the trucking firm that will be delivering the salt, as well as the contact's name, address, and phone number of said trucking firm. The contractor shall supply the same information for the terminal location.
- The contractor and/or carrier shall call to schedule deliveries 24-48 hours in advance.
- The contractor shall be responsible for all deliveries, accepting order releases, and communicating order information to the trucking firms.
- The contractor is solely responsible for the carrier's failure to meet any of the requirements in this contract.

PRICING

- Each agency which awards a contract agrees to purchase a minimum of 80% of their quantities.
- If an agency does not utilize or order 80% of its Standard Delivery quantities by the end of the contract period, it agrees to pay the contractor for the remaining 80%. The undelivered rock salt shall be stored for up to 1 year from the contract expiration date. Delivery arrangements shall be mutually agreed upon between the agency and the contractor. The contractor will handle this at no additional charge.
    - The agency agrees to notify the contractor of the remaining salt balance and to arrange for payment prior to the expiration of the contract.
    - The agency agrees to accept all the remaining salt from the prior year before placing any orders from a new contract.
- Unit prices shall be honored up to 130% of the quantities listed in the Schedule of Prices. If a unit price is not entered for this item, then the unit price for ROCK SALT shall be used.
- Bidders shall enter a unit price for quantities greater than 130% and less than 150%.
- Early Delivery pricing shall apply to those agencies for which quantities have been designated in the Schedule of Prices and when salt is ordered for delivery between May 1 and December 1 of any year. Agencies without quantities designated for early delivery may order salt prior to December 1 but would not receive the pricing to reflect such early delivery.

GROUP 1

Deliveries shall be made Monday through Friday excluding weekends and holidays between the listed hours. Arrangements can be made for after-hours and weekend deliveries to maintain a prompt order delivery schedule. DuPage County Division of Transportation sites include:

- 140 N. County Farm Road, Wheaton IL - 6:30 a.m. – 2:00 p.m.
- 7900 S. Rt 53, Woodridge IL - 7:00 a.m. – 2:00 p.m.

GROUP 2

The contractor and the participating agencies will agree upon delivery conditions and hours after the contract is awarded.

Group 2 delivery sites and contacts include:

Municipality	Primary Contact	Bill To Address	Ship-To Address	Estimated Quantities (tons)	
				Early Delivery	Standard Delivery
Addison Township	Don Holod donh@addisontownship.com	411 West Potter Street Wood Dale, IL 60191	411 West Potter Wood Dale, IL 60191	-	600
Addison, Village of	Ron Remus rremus@addison-il.org	1491 W Jeffrey Drive Addison, ILlinolis 60101	1491 W Jeffrey Drive Addison, ILlinois 60101	-	2,200
Aurora, City of	Jolene Coulter coulterj@aurora.il.us	44 E. Downer Place Aurora, IL 60507	Site 1: 720 N. Broadway Site 2: 2100 E. New York Street Aurora, IL 60505	-	5,000
Bartlett, Village of	Mike Warmus mwarmus@bartlettil.gov	228 S. Main St Bartlett, IL 60103	Site 1: 1150 Bittersweet Dr Site 2: 315 E. Devon Ave Bartlett, IL 60103	-	500
Bensenville, Village of	Frank Palumbo fpalumbo@bensenville.il.us	12 S. Center St Bensenville, IL 60106	717 E. Jefferson St Bensenville, IL 60106	-	500
Bloomingdale Township	Bob Nogan highway@bloomingdaletownship.com	6N030 Rosedale Ave Bloomingdale, IL 60108	6N030 Rosedale Ave Bloomingdale, IL 60108	-	1,200
Bloomingdale, Village of	Elias Vega vegae@vil.bloomingdale.il.us	201 South Bloomingdale Road Bloomingdale, IL 60108	305 Glen Ellyn Road Bloomingdale, IL 60108	-	1,300
Carol Stream, Village of	Jason Pauling jpauling@carolstream.org	500 North Gary Ave. Carol Stream, IL 60188	124 Gerzevske Lane Carol Stream, IL 60188	-	1,700
Clarendon Hills, Village of	Brendan McLaughlin bmclaughlin@clarendonhills.us	1 N Prospect Clarendon Hills, IL 60514	452 Park Avenue Clarendon Hills, IL 60514	-	400
Darien, City of	Dan Gombac dgombac@darienil.gov	1702 Plainfield Rd. Darien, IL 60561	1041 S. Frontage Rd. Darien, IL 60561	-	1,500
Downers Grove Township	Dave Smith highway@dgtownship.com	4340 Prince St. Downers Grove, IL 60515	318 E Quincy Westmont, IL 60559	100	1,100

Downers Grove, Village of	John Tucker jtucker@downers.us	5101 Walnut Ave Downers Grove, IL 60515	5101 Walnut Ave Downers Grove, IL 60515	1,200	-
DuPage Airport Authority	Karin Kietzman kkietzman@dupageairport.gov	2700 International Drive Suite 200 West Chicago, IL 60185	Maintenance Building 2751 Aviation Avenue West Chicago, IL 60185	-	120
Elmhurst, Village of	Kim McGrew kim.mcgrew@elmhurst.org	209 N York St Elmhurst, IL 60126	985 S Riverside Dr Elmhurst, IL 60126	-	2,500
Glen Ellyn, Village of	Justin Ross jross@glenellyn.org	535 Duane St. Glen Ellyn, IL 60137	Site 1: 30 S. Lambert Site 2: 1051 St. Charles Rd. Glen Ellyn, IL 60137	350	950
Hanover Park, Village of	Thomas Moore tmoore@hpil.org	2041 West Lake Street Hanover Park, IL. 60133	2041 west Lake Street Hanover Park, IL. 60133	-	1,200
Hinsdale, Village of	Rich Roehn rroehn@villageofhinsdale.org	19 E Chicago Ave Hinsdale, IL 60521	225 Symonds Dr Hinsdale, IL 60521	-	600
Itasca, Village of	Michael Subers msubers@itasca.com	411 N. Prospect Ave. Itasca, IL 60143	411 N. Prospect Ave. Itasca, IL 60143	-	1,000
Lisle Township	Marty Srail highway@lisletownship.com	4719 Indiana Ave. Lisle, IL 60532	4719 Indiana Ave. Lisle, IL 60532	-	800
Lisle, Village of	Jason Elias jelias@villageoflisle.org	925 Burlington Ave Lisle, IL 60532	4905 Yackley Ave Lisle, IL 60532	-	1,200
Lombard, Village of	Tom Ellis ellist@villageoflombard.org	255 E Wilson Ave. Lombard, IL 60148	Site 1: 1135 N Garfield Site 2: 282 E Central Ave. Lombard, IL 60148	-	3,500
Milton Township	Gary Muehlfelt Kasi Steinhilber mthd@miltonhighway.com	23 W 040 Poss St. Glen Ellyn, IL 60137	23 W 040 Poss St. Glen Ellyn, IL 60137	-	1,200
Naperville Township	Eddie Bedford eddieb@napervilletownship.com	31 W 331 North Aurora Road Naperville, IL 60563-1719	31 W 331 North Aurora Road Naperville, IL 60563-1719	-	400
Oak Brook, Village of	John Temes jtemes@oak-brook.org	1200 Oak Brook Rd Oak Brook, IL 60523	640 Oak Brook Rd Oak Brook, IL 60523	-	400

Oak Brook Terrace, City of	Craig Ward cward@oakbrookterrace.net	City of Oakbrook Terrace Attn Craig Ward Public Works Director 17W275 Butterfield Road Oakbrook Terrace, IL 60181	Site 1: Oakbrook Terrace Public Services 17W130 Butterfield Road Site 2: IDOT Salt Dome 17W125 Butterfield Road	-	400
Schaumburg, Village of	Adam Domek adomek@schaumburg.com	101 Schaumburg Ct Schaumburg, IL 60193	714 S Plum Grove Rd Schaumburg, IL 60193	-	5,000
Warrenville, City of	Phil Kuchler pkuchler@warrenville.il.us	3S258 Manning Avenue Warrenville, IL 60555	3S346 Mignin Drive Warrenville, IL 60555	-	1,000
Wayne Township	Martin McManamon wtrd@sbcglobal.net	4N230 Klein Rd. West Chicago, IL 60185	4N230 Klein Rd. West Chicago, IL 60185	-	300
West Chicago, City of	Jake Whiteaker jwhiteaker@westchicago.org	475 Main Street West Chicago, IL 60185	Site 1: 1350 W Hawthorne Ln. Site 2: 135 W. Grandlake Blvd. West Chicago, IL 60185	-	1,600
Westmont, Village of	Melissa Brendle mbrendle@westmont.il.gov	155 E. Burlington Ave. Westmont, IL 60559	155 E. Burlington Ave. Westmont, IL 60559	-	600
Wheaton, City of	Tony Sperkowski asperkowski@wheaton.il.us	303 W. Wesley St Wheaton, IL 60187	821 W. Liberty Dr Wheaton, IL 60187	-	2,000
Willowbrook, Village of	Rick Valent Rvalent@willowbrook.il.us	835 Midway Dr Willowbrook, IL 60527	700 Willowbrook Centre Parkway Willowbrook, IL 60527	-	300
Winfield Township	John S Dusza road@winfieldtownship.com	30W575 Roosevelt Rd West Chicago, IL 60185	30W575 Roosevelt Rd West Chicago, IL 60185	-	400
Winfield, Village of	Tye Loomis tloomis@villageofwinfield.com	27 W 465 Jewell Road Winfield, IL. 60190	OS 040 Wynwood Road Winfield, IL. 60190	-	500
Wood Dale, City of	Layla Werner lwener@wooddale.com	790 N Central Avenue Wood Dale, IL 60191	790 N Central Avenue Wood Dale, IL 60191	-	700
Woodridge, Village of	Chris Bethel cbethel@woodridgeil.gov	1 Plaza Drive Woodridge, IL 60517	7245 Janes Avenue Woodridge, IL 60517	-	1,800
York Township	Dan Lindeen road@yorktownshiproad.com	19W475 Roosevelt Rd. Lombard, IL 60148	19W475 Roosevelt Rd. Lombard, IL 60148	-	800
Totals				**1,650**	**45,270**

INVOICING

The original invoice shall be presented for payment in accordance with the instructions contained in the purchase order. Invoices shall include a reference to the purchase order number and be submitted to the correct address for processing. The County shall pay all invoices for Group 1 pursuant to 50 ILCS 505, "Local Government Prompt Payment Act". Payment will not be made on invoices submitted later than six months (180 days) after delivery of goods and any statute of limitations to the contrary is hereby waived.

Invoices shall be reconciled with submitted weight tickets and include the delivery date, order number, and shipped quantities, which shall match delivery tickets.

LIQUIDATED DAMAGES

From December 1 through April 30, if the contractor is unable to make delivery within seven (7) business days from the date of order, each agency shall have the right to retain $.20 per ton, per calendar day as liquidated damages on the undelivered portion of the order. An order placed before 12:00 p.m. on any business day (Monday through Friday, except holidays) would be considered the first business day of the seven (7) business day delivery period. For orders placed after 12:00 p.m. on a given day, the following day would be considered the first business day of the seven (7) day delivery period. If after seven (7) days of liquidated damage assessment, the contractor fails to deliver as required, each agency may take action to remedy the failure of the contractor's performance without prior notification of such failure. This may include termination of the order and purchase of salt from other sources or taking action consistent with public safety as needed to continue business. Any or all additional costs may be collected from the contractor, in addition to any liquidated damage.

STOCKING REQUIREMENTS

Upon receiving the notice of award (purchase order), the contractor must submit a list of delivery contacts, including email and phone number, to DuPage County and other participating agencies within 10 days. The contractor must also provide an emergency contact person's name and phone number in case the stockpile contact is not responsive.

Within thirty (30) days of the notice of award (issuance of purchase order), the contractor must provide DuPage County with their salt source and local terminal information. One hundred thirty percent (130%) of the standard delivery quantity listed must be in stock at a local terminal by November 1st. DuPage County reserves the right to inspect the contractor's local terminal to verify the quantity and condition of salt, as required in the specifications.

The contractor shall have enough rock salt in Illinois or near its borders to satisfy contractual requirements. Such stockpiles shall be near enough to delivery points for timely delivery as required by contractual requirements.

Freezing of waterways and other impacts to delivery shall be reasonably anticipated by the contractor and are not a cause to claim force majeure.

USAGE REPORTS

The contractor may be required to submit a semi-annual report on orders placed against the contract. The report format shall contain the contractor's name, item number, and contract term at the top of the page. The report shall indicate the period covered by the report starting from the date the first order is received and ending with the date it is prepared. The report must be organized as follows:

Delivery Location	Delivery Date	Delivery Ticket #	Qty	Unit Price	Extended Price

The contractor may be requested to produce reports within a particular time frame, i.e. the fiscal year. These reports must be furnished within seven (7) business days of request.
Reports are to be forwarded to Michael.Figuray@Dupagecounty.gov and Roula.Eikosidekas@DuPagecounty.gov.

BASIS OF PAYMENT

This work will be paid for at the contract unit price per ton for ROCK SALT, or ROCK SALT (130% to 150%), or for ROCK SALT, EARLY DELIVERY. The rock salt shall be bid F.O.B. destination, with all freight and transportation charges included in the bid price. The term F.O.B. Destination shall mean delivered to a specified location.

INDEX
FOR
SUPPLEMENTAL SPECIFICATIONS
AND RECURRING SPECIAL PROVISIONS

Adopted January 1, 2025

This index contains a listing of SUPPLEMENTAL SPECIFICATIONS, frequently used RECURRING SPECIAL PROVISIONS, and LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS.

ERRATA Standard Specifications for Road and Bridge Construction
(Adopted 1-1-22) (Revised 1-1-25)

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Illinois Department of Transportation

Check Sheet for Recurring Special Provisions

Local Public Agency	County	Section Number
County of DuPage	DuPage	25-0SALT-02-MS

☐ **Check this box for lettings prior to 01/01/2025**

The Following Recurring Special Provisions Indicated By An "X" Are Applicable To This Contract And Are Included By Reference:

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Local Public Agency	County	Section Number
County of DuPage	DuPage	25-0SALT-02-MS

The Following Local Roads And Streets Recurring Special Provisions Indicated By An "X" Are Applicable To This Contract And Are Included By Reference:

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ITEM 8.A.5.
BOARD OF TRUSTEES MEETING
SAMUEL E. DEAN BOARD ROOM
BUTLER GOVERNMENT CENTER
1200 OAK BROOK ROAD
OAK BROOK, ILLINOIS
630-368-5000

AGENDA ITEM

Board of Trustees Special Meeting
of
June 16, 2026

SUBJECT: Non-Resident Library Card Program

FROM: Jacob Post, Head Librarian

BUDGET SOURCE/BUDGET IMPACT: None

RECOMMENDED MOTION: I move to approve Resolution R-2373, A Resolution Authorizing and Approving the Oak Brook Public Library to Participate in the Non-Resident Library Card Program from July 1, 2026 to June 30, 2027.

Background/History:
In accordance with the administrative rules and regulations implementing Illinois Public Act 92-0166, the governing body of each public library is required to adopt a resolution annually to authorize and direct the library to participate in the non-resident card program. Each library governing board has the option to participate or not participate.

Last year, the Village Board of Trustees adopted R-2305 directing OBPL to participate in the program from July 1, 2025 through June 30, 2026. Currently there are forty non-resident cards active in the system.

Staff encourages the Village Board to authorize the Library to participate in this program from July 1, 2026 through June 30, 2027. The cost for a non-resident family card during this period is $413.00 using the State's required mathematical formula and $154.00 for an individual card. This is a $40 increase for a family card and an $15 increase for an individual card.

Recommendation:
Staff recommends that the Village Board approve Resolution R-2373 authorizing participation in the Non-Resident Library Card Program from July 1, 2026 to June 30, 2027.

Attachments:
1. NonResidentResolution

THE VILLAGE OF OAK BROOK

COOK AND DUPAGE COUNTIES, ILLINOIS

RESOLUTION

2026-LY-R-2373

A RESOLUTION

AUTHORIZING AND APPROVING

THE OAK BROOK PUBLIC LIBRARY TO

PARTICIPATE IN THE NON-RESIDENT LIBRARY CARD PROGRAM

FROM JULY 1, 2026 TO JUNE 30, 2027

LAURENCE E. HERMAN, Village President
NETASHA SCARPINITI, Village Clerk

JOHN ANOS
NAVEEN JAIN
MICHAEL MANZO
MELISSA MARTIN
A. SURESH REDDY
EDWARD TIESENGA
Village Board

Published in pamphlet form by authority of the
President and the Board of Trustees of the Village of Oak Brook
on this the 16th day of June, 2026

RESOLUTION 2026-LY-R-2373

A RESOLUTION AUTHORIZING AND APPROVING

THE OAK BROOK PUBLIC LIBRARY TO PARTICIPATE

IN THE NON-RESIDENT LIBRARY CARD PROGRAM

FROM JULY 1, 2026 TO JUNE 30, 2027

WHEREAS, the General Assembly passed Public Act 92-0166 which provides in part that public libraries may opt in or opt out of a non-resident card program which grants non-resident card holders borrowing privileges at all participating public libraries in the regional library system; and

WHEREAS, Public Act 92-0166 was effective July 1, 2002; and

WHEREAS, administrative rules and regulations implementing this public act provide at 26 Ill.Reg. 3050.20 that the governing body shall annually take action to decide whether to issue non-resident library cards during the ensuing 12 months; and

WHEREAS, the Oak Brook Library Commission has recommended that the Village of Oak Brook participate in the non-resident library card program; and

WHEREAS, the Village Board concurs with the Library Commission's recommendation.

NOW, THEREFORE, BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF OAK BROOK, DU PAGE AND COOK COUNTIES, ILLINOIS as follows:

Section 1: That for the period July 1, 2026 to June 30, 2027, the Oak Brook Public Library is hereby authorized and directed to participate in the non-resident library card program pursuant to Public Act 92-0166 and the applicable implementing regulations.

Section 2: That this resolution shall be in full force and effect from and after July 1, 2026.

APPROVED THIS 16th day of June, 2026.

_____
Laurence E. Herman
Village President

PASSED THIS 16th day of June, 2026.

Ayes: _____

Nays: _____

Absent: _____

ATTEST:

_____
Netasha Scarpiniti
Village Clerk

ITEM 8.A.6.
BOARD OF TRUSTEES MEETING
SAMUEL E. DEAN BOARD ROOM
BUTLER GOVERNMENT CENTER
1200 OAK BROOK ROAD
OAK BROOK, ILLINOIS
630-368-5000

AGENDA ITEM

Board of Trustees Special Meeting
of
June 16, 2026

SUBJECT: Resolution R-2374, A Resolution Approving the Final Plat of Subdivision for the Property Commonly Known as 2715, 2815, 2915 Jorie Blvd, Oak Brook, IL 60523

FROM: Rebecca Von Drasek, Development Services Director

BUDGET SOURCE/BUDGET IMPACT: N/A

RECOMMENDED MOTION: I move that the Village Board concurs with the recommendation from the Planning & Zoning Commission and approve Resolution R-2374 approving the Final Plat for the Oak Brook Reserve, subject to the following conditions:

A. Final engineering approval prior to recording of the Plat;
B. Adoption of attached Resolution R-2374 and recording of the document by Village staff.
C. A declaration of covenants, conditions, restrictions, easements, and shared maintenance agreements for the three (3) parcels is required and shall be recorded; and
D. The Owner and all subsequent Owners of the Subject Property shall at all times comply with all applicable requirements of law, including without limitation, federal, state, and local laws, ordinances, resolutions, and regulations, relating to the Subject Property.

Background/History:

JPD Oak Brook Holdings, LLC, owner of the property located at 2715, 2815, and 2915 Jorie Boulevard has submitted a petition requesting approval of a final plat of subdivision for the 80-acre property currently identified as Butler GHQ Subdivision. The 2-lot Butler GHQ Subdivision is improved with a multi-tenant office building, the Hyatt Lodge, ACE Hardware HQ, and surface parking lots. The proposed subdivision, Oak Brook Reserve, would create three (3) lots that are 24.01-acres, 24.01-acres, and 32.53-acres in area. The subject lots comply with the bulk requirements of the ORA-3, Office, Research, and Assembly zoning district. The proposal appears to comply with the Subdivision and Zoning Ordinance regulations.

At their meeting on June 3, 2026, the Planning & Zoning Commission reviewed and deliberated on the

petition. No members of the public spoke to the commission for or against the requested consolidation Plat. The Planning & Zoning Commission discussed the Plat and asked about the reason(s) for the request. The Commission confirmed that the previously approved restriction on Lot 2 of the Butler GHQ subdivision plat would be maintained. All questions were answered to the satisfaction of the Planning & Zoning Commission.

By a vote of 8 to 0, the Planning & Zoning Commission recommended approval of the final plat for the Final Plat for the Oak Brook Reserve as presented.

Resolution R-2374 and the case file have been included with the Planning & Zoning Commission recommendation letter, both providing additional information and details pertaining to the application.

Recommendation:
Staff recommends that the Village Board approve Resolution R-2374, a resolution approving the final plat of consolidation for the Oak Brook Reserve, Oak Brook, Illinois.

Attachments:
1. 2026-SR-FP-EX-R-2374
2. Exhibits - BOT 6-16-26

THE VILLAGE OF OAK BROOK
COOK AND DUPAGE COUNTIES, ILLINOIS

RESOLUTION
NUMBER 2026-SR-FP-EX-R-2374

A RESOLUTION
APPROVING THE FINAL PLAT OF SUBDIVISION FOR THE PROPERTY COMMONLY KNOWN AS 2715, 2815, 2915 JORIE BLVD, OAK BROOK, IL 60523

LAURENCE E. HERMAN, Village President
NETASHA SCARPINITI, Village Clerk

JOHN ANOS
NAVEEN JAIN
MICHAEL MANZO
MELISSA MARTIN
A. SURESH REDDY
EDWARD TIESENGA

Village Board

Published in pamphlet form by authority of the
President and the Board of Trustees of the Village of Oak Brook
on this 16th day of June 2026

RESOLUTION NO. 2026-SR-FP-EX-R-2374

AN RESOLUTION
APPROVING THE FINAL PLAT OF SUBDIVISION FOR THE PROPERTY COMMONLY KNOWN AS 2715, 2815, 2915 JORIE BLVD, OAK BROOK, IL 60523

PIN(s): 06-26-401-008, 06-26-401-009, 06-26-401-010, 06-26-400-015

WHEREAS, the Village of Oak Brook (hereinafter the "Village") is a municipal corporation with authority provided for and granted pursuant to the Illinois Municipal Code to exercise certain powers and perform certain functions pertaining to its local government and affairs;

WHEREAS, the Village has in full force and effect a codified set of those ordinances of the Village which are of a general and permanent nature, which said codified set is known and designated as the Village Code of the Village of Oak Brook, as amended (the "Village Code");

WHEREAS, JPD Oak Brook Holdings, LLC (hereinafter referred to as the "Petitioner") is the owner of the 80-acre parcel located at 2715, 2815, 2915 Jorie Blvd., Oak Brook, IL (hereinafter referred to as the "Subject Property") existing in the ORA-3 Office, Research, Assembly District and has submitted a petition requesting approval of a final plat of subdivision to subdivide the existing two lots (four PINs) into three lots (the "Petition");

WHEREAS, the property is currently improved with a multi-tenant office building, the Hyatt Lodge, and the ACE Hardware headquarters. The proposed subdivision would create separate parcels, allowing each building to be located on its own lot;

WHEREAS, at its meeting on June 3, 2026, the Planning & Zoning Commission completed its review and deliberations on the Petitioner's Petition;

WHEREAS, the Planning & Zoning Commission by a vote of 8 to 0 recommended approval of the request for a final plat of Subdivision for the Subject Property to the Village Board; and

WHEREAS, the Village President and Board of Trustees have reviewed the recommendations of the Plan Commission and deem the final plat of Subdivision for the Subject Property, as set forth below, to be in the best interests of the Village.

NOW, THEREFORE, BE IT RESOLVED by the Village President and Board of Trustees of the Village of Oak Brook, Cook and DuPage Counties, Illinois as follows:

Section One – Recitals

The Corporate Authorities hereby find that all of the recitals hereinbefore stated as contained in the preamble to this resolution are full, true and correct and do hereby, by reference, incorporate and make them part of this resolution as legislative findings.

Section Two – Approval of Final Plat of Subdivision.

A. Approval of Final Plat. Subject to and contingent upon the conditions set forth in Section 3 of this Resolution, the final plat of subdivision attached to this Resolution as Exhibit A ("Final Plat"), is hereby approved.

B. Authorization and Execution. The Village President, Clerk, and other appropriate Village officials are hereby authorized and directed to execute and seal, on behalf of the Village, the Final Plat of Subdivision and the customary certifications indicating such approval.

C. Recordation. Upon the execution of the Final Plat of Subdivision by all required parties, the Village Clerk is hereby directed to record the Final Plat of Subdivision with the Recorder of Deeds of DuPage County, Illinois, and the Village Clerk will then be authorized and directed to assess against and collect from the Petitioner any costs in connection with those actions and this Resolution.

Section Three – Conditions

The approvals granted in Section 2 of this Resolution are hereby expressly subject to and contingent upon each of the following conditions:

A. Final engineering approval prior to recording of the Plat;
B. Recording of the document by Village staff.
C. A declaration of covenants, conditions, restrictions, easements, and shared maintenance agreements for the three (3) parcels is required and shall be recorded; and
D. The Owner and all subsequent Owners of the Subject Property shall at all times comply with all applicable requirements of law, including without limitation, federal, state, and local laws, ordinances, resolutions, and regulations, relating to the Subject Property.

Section Four – Severability

If any section, paragraph, clause or provision of this resolution shall be held invalid, the invalidity thereof shall not affect any of the other provisions of this resolution.

Section Five – Effective Date

This resolution shall be in full force and effect from and after its passage, approval, and publication in the manner provided by law.

Section Six – Recording

This resolution shall be entered into the minutes and upon the journals of the Board of Trustees of the Village of Oak Brook.

[Remainder of page intentionally left blank; roll call vote to follow]

PASSED THIS 16th day of June 2026.

Ayes: _____

Nays: _____

Absent: _____

APPROVED THIS 16th day of June 2026.

_____
LAURENCE E. HERMAN,
Village President

ATTEST:

_____
NETASHA SCARPINITI,
Village Clerk

EXHIBIT A

[Final Plat]

FINAL PLAT OF SUBDIVISION

OAK BROOK RESERVE

BEING A SUBDIVISION OF PART OF SECTION 26, TOWNSHIP 39 NORTH, RANGE 11
EAST OF THE THIRD PRINCIPAL MERIDIAN, IN DUPAGE COUNTY, ILLINOIS

SUBDIVISION

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.

AREA SUMMARY

GROSS AREA (TO HEAVY LINES): 3,508,884 SQUARE FEET OR 80.553 ACRES
LESS R.O.W. DEDICATION: 0 SQUARE FEET OR 0 ACRES

NET AREA: 3,508,884 SQUARE FEET OR 80.553 ACRES
(BASED ON MEASURED VALUES)

GRID NORTH

LOT 1
1,045,970 S.F.
24.012 AC.

LOT 2
1,046,002 S.F.
24.013 AC.

LOT 3
1,416,912 S.F.
32.529 AC.

PART OF LOT 2

LOT ONE
OAK BROOK VILLAGE COMMONS SUBDIVISION
DOCUMENT NUMBER R74-014102

PRESERVATION RESTRICTION
OVER LOT 2,
DOCUMENT R80-44966

EXCEPTION

FOREST GATE ROAD

JORIE BOULEVARD

SALT CREEK

OAK BROOK ROAD
(A.K.A. 31ST STREET)
(A.K.A. COUNTY HIGHWAY 34)

FOUND NAIL 0.15' WEST
FOUND 7/8" O.D.I.P.
FOUND 1" O.D.I.P. (HELD)
FOUND REBAR ON LINE
FOUND NAIL
FOUND REBAR 0.14' WEST & HELD NORTH-SOUTH
FOUND REBAR 0.19' NORTH & 0.10' WEST
SET NAIL
SET 7/8" O.D.I.P. 60.0' NORTHWESTERLY ON LINE
SET CROSS 25.00' SOUTH ON LINE EXTENDED
SET 7/8" O.D.I.P. 100.0' WESTERLY ON LINE

ORIGINAL WESTERN UNITED GAS AND ELECTRIC EASEMENT PER DOCUMENT R29-37240 PARTIALLY ABANDONED AND MODIFIED (SEE NOTE 1)

VACATED SPRINGFIELD RIGHT-OF-WAY PER DOC. R61-10729

OTHER FLOOD AREAS ZONE X
SPECIAL FLOOD HAZARD AREAS ZONE AE
FLOODWAY AREAS ZONE AE

B.S.L. H.B.E.
P.S.L. H.B.E.
P.U. & D.E.

BUILDING SETBACK PER BUTLER GHQ SUBDIVISION HEREBY ABROGATED
PARKING SETBACK PER BUTLER GHQ SUBDIVISION HEREBY ABROGATED
SETBACK PER BUTLER GHQ SUBDIVISION HEREBY ABROGATED
PROPOSED B.S.L. H.B.E.

N02°06'49"W(M) 24.36'(M)
N00°06'26"W(R) 24.36'(R)
S02°12'20"E(M) 314.15'(R=M)
N00°09'08"W(R)
S02°08'52"E(M) 1811.01'(M)
N00°05'40"W(R) 1811.05'(R)
N02°10'18"W(M) 529.16'(M)
N00°04'40"W(R) 553.61'(R)
N88°13'48"E(M) 837.41'(M)
N85°40'30"W(R) 838.23'(R)
S56°34'26"E(R) 424.59'(R)
S58°39'58"E(M) 423.91'(M)
S70°23'58"E(R) 256.19'(R)
S72°21'02"E(M) 255.84'(M)
S67°57'59"E(R) 492.60'(R)
S69°54'55"E(M) 492.60'(M)
S53°55'52"E(R) 658.29'(R)
S56°02'38"E(M) 658.04'(M)
S39°38'03"E(M) 97.32'(M)
S37°03'26"E(R) 97.09'(R)
S57°31'43"E(M) 99.62'(M)
S55°22'48"E(R) 99.73'(R)
S77°48'37"E(M) 23.03'(M)
S76°19'55"E(R) 22.69'(R)
S61°41'21"E(M) 17.41'(M)
S60°15'11"E(R) 18.21'(R)
S49°51'02"E(M) 17.90'(M)
S48°25'50"E(R) 17.80'(R)
S38°35'17"E(M) 23.35'(M)
S36°03'11"E(R) 23.38'(R)
S31°30'21"E(R)
S33°40'50"E(M)
283.68'(R)
283.78'(M)
S23°25'52"W(M) 337.84'(M)
S25°30'22"W(R) 337.84'(R)
S11°25'30"W(M) 150.00'(R=M)
S13°30'00"W(R)
S09°30'00"E(R)
S11°34'30"E(M) 200.00'(R=M)
S18°30'00"E(R)
S20°34'30"E(M) 200.00'(R=M)
S04°30'00"E(R)
S06°34'30"E(M) 100.00'(R=M)
S14°00'00"W(R)
S11°55'30"W(M) 100.00'(M)
S27°00'00"W(R)
S24°55'30"W(M) 200.00'(M)
R=8267.70'(M)
A=49.16'(M)
CH=49.16'(M)
CB=S87°52'34"W(M)
S03°00'02"E(M) 128.10'(M)
S00°55'32"E(R) 184.96'(R=M)
N88°02'47"E(M) 399.16'(M)
S02°17'39"E(M) 16.40'(M)
R=8152.87'(M)
A=87.94'(M)
CH=87.94'(M)
CB=N85°26'13"E(M)
N88°05'01"E(M) 908.08'(M)
N89°52'57"W(R) 908.56'(R)
R=8251.30'(M)
A=371.24'(M)
CH=371.21'(M)
CB=S86°25'01"W(M)

LEGEND

- ● SET 7/8" O.D.I.P. UNLESS OTHERWISE NOTED
- ■ SET CONCRETE MONUMENT UNLESS OTHERWISE NOTED
- \+ SET CROSS IN CONCRETE UNLESS OTHERWISE NOTED

MONUMENTS NOT SET WITHIN WATER

ABBREVIATIONS

O.D.I.P. = OUTSIDE DIAMETER IRON PIPE
N = NORTH
S = SOUTH
E = EAST
W = WEST
(R) = RECORD BEARING OR DISTANCE
(M) = MEASURED BEARING OR DISTANCE
(C) = CALCULATED BEARING OR DISTANCE
(D) = DEED BEARING OR DISTANCE
B.S.L. = BUILDING SETBACK LINE
P.S.L. = PARKING SETBACK LINE
U.E. = UTILITY EASEMENT
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P.O.C. = POINT OF COMMENCEMENT
P.O.B. = POINT OF BEGINNING
P.U. & D.E. = PUBLIC UTILITY AND DRAINAGE EASEMENT
H.B.E. = HEREBY ESTABLISHED
H.B.G. = HEREBY GRANTED

LINE LEGEND

- LIMITS OF LAND PER LEGAL DESCRIPTION
- ADJACENT LAND PARCEL LINE
- EASEMENT LINE
- CENTERLINE
- BUILDING SETBACK LINE
- SECTION LINE
- FLOOD ZONE DIVISION LINE

38N RNE TOWNSHIP 39N RNE TOWNSHIP
26 26
35 35

11/7/2025 1:13 PM – J:\PSDATA\2025 PROJECTS\25.0054\25.0054 POSUBD.DWG

PROJ. NO.: 25.0054
2 OF 6
SCALE: 1" = 100'

COMPASS SURVEYING LTD
ALTA SURVEYS ● TOPOGRAPHY ● CONSTRUCTION STAKING
2631 GINGER WOODS PARKWAY, STE. 100
AURORA, IL 60502
PHONE: (630) 820-9100 FAX: (630) 820-7030 EMAIL: ADMIN@CLSURVEYING.COM

PROJECT: OAK BROOK RESERVE

CLIENT / ENGINEER: Kimley»Horn

© 2025 KIMLEY-HORN AND ASSOCIATES, INC.

10814 JOLLYVILLE ROAD, BUILDING IV, SUITE 200
AUSTIN, TX 78759
WWW.KIMLEY-HORN.COM

OWNER:
JPD OAK BROOK HOLDINGS, LLC
109 W SEVENTH ST
GEORGETOWN, TX 78626

DATE: 3/10/25 | N/A | DRAWN BY: MRA | CHECKED BY: MP | BOOK N/A PG N/A

NO.	REVISIONS	DATE	BY

FINAL PLAT OF SUBDIVISION

OAK BROOK RESERVE

BEING A SUBDIVISION OF PART OF SECTION 26, TOWNSHIP 39 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN DUPAGE COUNTY, ILLINOIS

LOT 1 DETAIL

LINE CHART				
NO.	DISTANCE(M)	BEARING(M)	BEARING(R)	DISTANCE(R)
L1	24.36	N02°06'49"W	N00°06'20"W(R)	24.36'(R)

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

GRID NORTH

LOT 1
1,045,970 S.F.
24.012 AC.

LOT 2
SEE SHEET 4

LOT 3
SEE SHEET 5

PART OF LOT 2

FOUND NAIL 0.15' WEST
FOUND 1" O.D.I.P. (HELD)
FOUND 7/8" O.D.I.P.
FOUND 1" O.D.I.P.
FOUND 7/8" O.D.I.P.
FOUND 1" O.D.I.P.
FOUND 1" O.D.I.P.
FOUND 1" O.D.I.P.
FOUND 1" O.D.I.P.
FOUND 1" O.D.I.P.
FOUND 7/8" O.D.I.P.
FOUND 1" O.D.I.P.
FOUND 1" O.D.I.P.
FOUND 1" O.D.I.P.
FOUND 1" O.D.I.P.
FOUND 7/8" O.D.I.P.
SET 7/8" O.D.I.P. 60.0' NORTHWESTERLY ON LINE

S56°34'26"E(R) 424.59'(R)
S58°39'58"E(M) 423.91'(M)

ORIGINAL WESTERN UNITED GAS AND ELECTRIC EASEMENT PER DOCUMENT 479-11790 PARTIALLY ABANDONED AND MODIFIED (SEE NOTE 1)

VACATED SPRINGFIELD RIGHT-OF-WAY PER DOC. R61-10729

S67°57'59"E(R) 492.60'(R)
S69°54'55"E(M) 492.60'(M)

S53°55'52"E(R) 658.29'(R)
S56°02'38"E(M) 658.04'(M)

S39°38'03"E(M) 97.32'(M)
S37°03'26"E(R) 97.09'(R)

S57°31'43"E(M) 99.62'(M)
S55°22'48"E(R) 99.73'(R)

S77°48'37"E(M) 23.03'(M)
S76°19'55"E(R) 22.69'(R)

S61°41'21"E(M) 17.41'(M)
S60°15'11"E(R) 18.21'(R)

S49°51'02"E(M) 17.90'(M)
S48°25'50"E(R) 17.80'(R)

S38°35'17"E(M) 23.35'(M)
S36°03'11"E(R) 23.38'(R)

S31°30'21"E(R) 285.68'(R)
S33°40'30"E(M) 283.78'(M)

S02°12'20"E(M) 314.15'(R=M)
N00°09'08"W(R)

S02°12'20"E(M) 134.71'
N00°09'08"W(R)

S02°08'52"E(M) 1811.01'(M)
N00°05'40"W(R) 1811.05'(R)

N87°51'08"E 808.35'

N85°39'19"E 208.19'
S04°20'41"E 100.00'
N85°39'19"E 129.47'
S47°48'15"E 30.26'
S03°56'07"E 172.35'
S59°00'05"E 137.43'
S20°15'03"E 149.88'
S23°25'52"W(M) 337.84'(M)
S25°30'22"W(R) 337.84'(R)
S11°25'30"W(M) 150.00'(R=M)
S13°30'00"W(R)

N32°23'09"E 166.88'
S64°38'36"E 48.64'
N66°00'14"E 116.87'
S48°10'21"E 25.87'
S85°44'43"E 48.70'
N63°59'24"E 125.38'
S26°40'46"W 76.31'
N16°44'36"E 66.41'
N76°04'47"E 82.88'
N76°04'47"E 154.26'
S57°36'51"E 297.14'
N03°01'29"W 287.05'
S03°01'29"E 392.13'
S08°20'05"E 85.31'
N80°20'05"W 18.21'
N02°08'05"W 96.58'
S02°08'05"E 22.72'
N23°08'44"W 11.40'
S23°08'44"E 45.27'
CH=218.79' CB=N12°38'24"W R=600.00' A=219.07'
CH=116.02' CB=S07°20'36"E R=599.00' A=116.18'
CH=436.32' CB=N49°00'53"W R=500.00' A=457.50'
CH=458.13' CB=S49°00'53"E R=525.00' A=474.08'
CH=222.59' CB=N70°03'56"W R=1325.00' A=222.86'
CH=200.25' CB=N77°24'57"W R=475.00' A=201.77'
CH=15.64' CB=S61°59'51"W R=20.00' A=15.96'
CH=210.79' CB=S77°24'57"E R=500.00' A=212.39'
CH=58.84' CB=S60°27'35"E R=70.00' A=60.27'
S38°27'05"E 27.41'
N89°35'59"W 15.64'
CH=1359.13' CB=S79°05'58"E R=1300.00' A=1359.58'
CH=228.39' CB=S05°08'58"E R=215.00' A=228.73'
CH=55.84' CB=S08°38'58"E R=215.00' A=55.96'

ACCESS EASEMENT HEREBY GRANTED
WAST WATER EASEMENT HEREBY GRANTED
ACCESS EASEMENT HEREBY GRANTED

OTHER FLOOD AREAS ZONE X
SPECIAL FLOOD HAZARD AREAS ZONE AE
FLOODWAY AREAS ZONE AE
SPECIAL FLOOD HAZARD AREAS ZONE AE

B.S.L. H.B.E.
P.S.L. H.B.E.
P.S.L. H.B.E.
P.S.L. H.B.E.
P.S.L. H.B.E.
P.S.L. H.B.E.
P.S.L. H.B.E.

JORIE BOULEVARD

SALT CREEK

ABBREVIATIONS

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P.O.B. = POINT OF BEGINNING
P.U. & D.E. = PUBLIC UTILITY AND DRAINAGE EASEMENT
H.B.E. = HEREBY ESTABLISHED
H.B.G. = HEREBY GRANTED

LEGEND

- ● SET 7/8" O.D.I.P. UNLESS OTHERWISE NOTED
- ■ SET CONCRETE MONUMENT UNLESS OTHERWISE NOTED
- \+ SET CROSS IN CONCRETE UNLESS OTHERWISE NOTED

MONUMENTS NOT SET WITHIN WATER

LINE LEGEND

- LIMITS OF LAND PER LEGAL DESCRIPTION
- ADJACENT LAND PARCEL LINE
- EASEMENT LINE
- CENTERLINE
- BUILDING SETBACK LINE
- SECTION LINE
- FLOOD ZONE DIVISION LINE

11/7/2025 1:13 PM – J:\PSDATA\2025 PROJECTS\25.0054\25.0054 POSUBD.DWG

PROJ. NO: 25.0054

3 OF 6

SCALE: 1" = 60'

COMPASS SURVEYING LTD
ALTA SURVEYS ● TOPOGRAPHY ● CONSTRUCTION STAKING
2631 GINGER WOODS PARKWAY, STE. 100
AURORA, IL 60502
PHONE: (630) 820-9100 FAX: (630) 820-7030 EMAIL: ADMIN@CLSURVEYING.COM

PROJECT: OAK BROOK RESERVE

CLIENT / ENGINEER: Kimley»Horn

© 2025 KIMLEY-HORN AND ASSOCIATES, INC.

10814 JOLLYVILLE ROAD, BUILDING IV, SUITE 200
AUSTIN, TX 78759
WWW.KIMLEY-HORN.COM

OWNER: JPD OAK BROOK HOLDINGS, LLC
109 W SEVENTH ST
GEORGETOWN, TX 78626

DATE: 3/10/25 | N/A | DRAWN BY: MRA | CHECKED BY: MP | BOOK N/A PG N/A

NO.	REVISIONS	DATE	BY

FINAL PLAT OF SUBDIVISION

OAK BROOK RESERVE

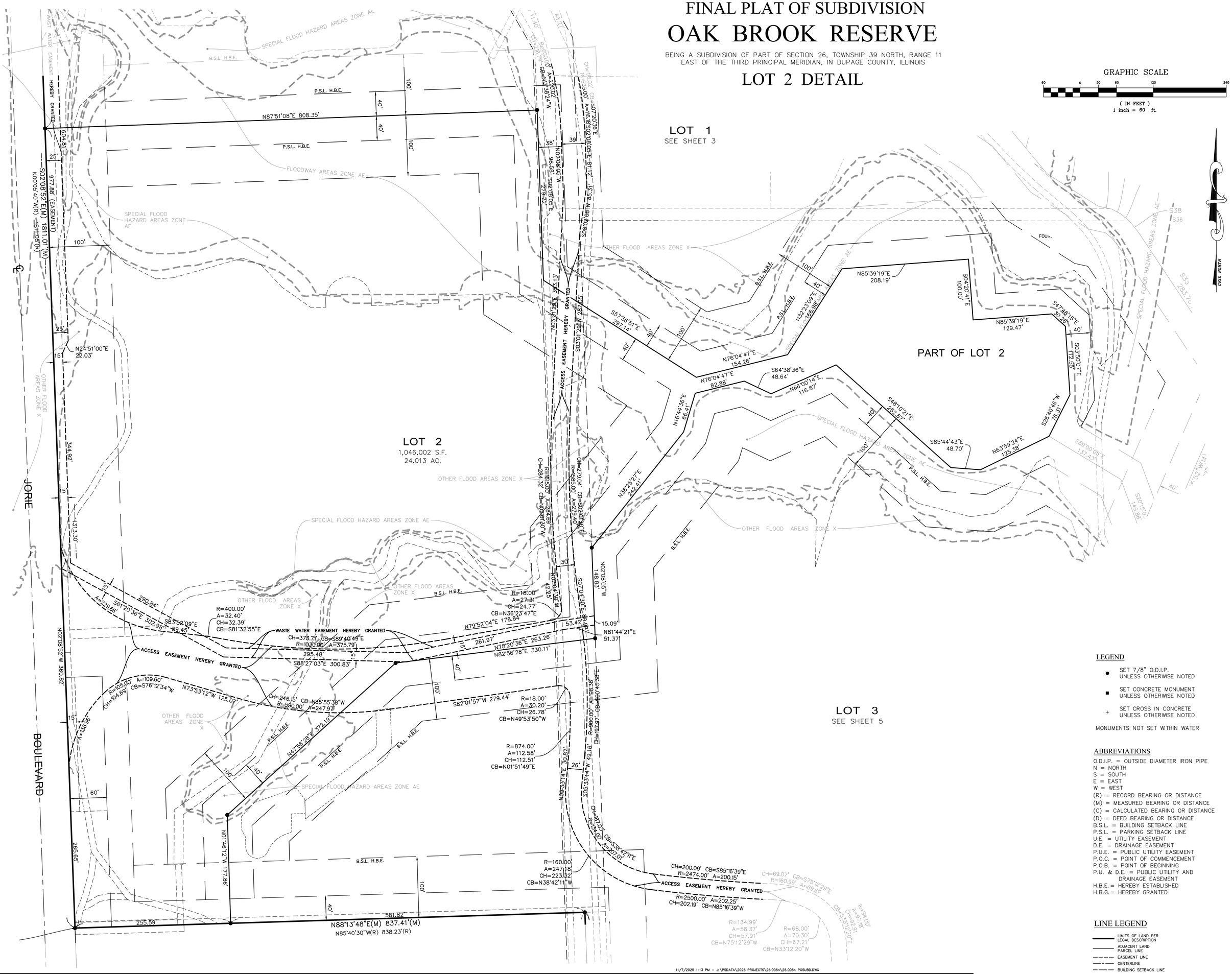
BEING A SUBDIVISION OF PART OF SECTION 26, TOWNSHIP 39 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN DUPAGE COUNTY, ILLINOIS

LOT 2 DETAIL

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.



LEGEND

- ● SET 7/8" O.D.I.P. UNLESS OTHERWISE NOTED
- ■ SET CONCRETE MONUMENT UNLESS OTHERWISE NOTED
- \+ SET CROSS IN CONCRETE UNLESS OTHERWISE NOTED

MONUMENTS NOT SET WITHIN WATER

ABBREVIATIONS

O.D.I.P. = OUTSIDE DIAMETER IRON PIPE
N = NORTH
S = SOUTH
E = EAST
W = WEST
(R) = RECORD BEARING OR DISTANCE
(M) = MEASURED BEARING OR DISTANCE
(C) = CALCULATED BEARING OR DISTANCE
(D) = DEED BEARING OR DISTANCE
B.S.L. = BUILDING SETBACK LINE
P.S.L. = PARKING SETBACK LINE
U.E. = UTILITY EASEMENT
D.E. = DRAINAGE EASEMENT
P.U.E. = PUBLIC UTILITY EASEMENT
P.O.C. = POINT OF COMMENCEMENT
P.O.B. = POINT OF BEGINNING
P.U. & D.E. = PUBLIC UTILITY AND DRAINAGE EASEMENT
H.B.E. = HEREBY ESTABLISHED
H.B.G. = HEREBY GRANTED

LINE LEGEND

- LIMITS OF LAND PER LEGAL DESCRIPTION
- ADJACENT LAND PARCEL LINE
- EASEMENT LINE
- CENTERLINE
- BUILDING SETBACK LINE
- SECTION LINE
- FLOOD ZONE DIVISION LINE

11/7/2025 1:13 PM – J:\PSDATA\2025 PROJECTS\25.0054\25.0054 POSUBD.DWG

PROJ. NO. 25.0054 | 4 OF 6 | SCALE: 1" = 60'

COMPASS SURVEYING LTD
ALTA SURVEYS ● TOPOGRAPHY ● CONSTRUCTION STAKING
2631 GINGER WOODS PARKWAY, STE. 100
AURORA, IL 60502
PHONE: (630) 820-9100 FAX: (630) 820-7030 EMAIL: ADMIN@CLSURVEYING.COM

PROJECT: OAK BROOK RESERVE

CLIENT / ENGINEER: Kimley»Horn

© 2025 KIMLEY-HORN AND ASSOCIATES, INC.

10814 JOLLYVILLE ROAD, BUILDING IV, SUITE 200
AUSTIN, TX 78759
WWW.KIMLEY-HORN.COM

OWNER: JPD OAK BROOK HOLDINGS, LLC
109 W SEVENTH ST
GEORGETOWN, TX 78626

DATE: 3/10/25 | N/A | DRAWN BY: MRA | CHECKED BY: MP | BOOK N/A PG N/A

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FINAL PLAT OF SUBDIVISION

OAK BROOK RESERVE

BEING A SUBDIVISION OF PART OF SECTION 26, TOWNSHIP 39 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN DUPAGE COUNTY, ILLINOIS

LOT 3 DETAIL

GRAPHIC SCALE
60 0 30 60 120 240
(IN FEET)
1 inch = 60 ft.

LOT 1
SEE SHEET 3

PART OF LOT 2

LOT 2
1,046,002 S.F.
24.013 AC.

LOT 2
SEE SHEET 4

LOT 3
1,416,912 S.F.
32.529 AC.

SALT CREEK

GRID NORTH

SPECIAL FLOOD HAZARD AREAS ZONE AE

OTHER FLOOD AREAS ZONE X

FLOODWAY AREAS ZONE AE

B.S.L. H.B.E.

P.S.L. H.B.E.

ACCESS EASEMENT HEREBY GRANTED

WASTE WATER EASEMENT HEREBY GRANTED

BUILDING SETBACK PER BUTLER GHQ SUBDIVISION HEREBY ABROGATED

PARKING SETBACK PER BUTLER GHQ SUBDIVISION HEREBY ABROGATED

SETBACK PER BUTLER GHQ SUBDIVISION HEREBY ABROGATED

PROPOSED B.S.L. H.B.E.

EXCEPTION

SET 7/8" O.D.I.P. 100.0' WESTERLY ON LINE

SET CROSS 25.00' SOUTH ON LINE EXTENDED

FOUND NAIL

FOUND REBAR 0.19' NORTH & 0.10' WEST

FOUND REBAR 0.14' WEST & HELD NORTH-SOUTH

N88°13'48"E(M) 837.41'(M)
N85°40'30"W(R) 838.23'(R)

N02°10'18"W(M) 529.16'(M)
N00°04'40"W(R) 553.61'(R)

N88°02'47"E(M)
399.16'(M)

S03°00'02"E(M)
128.10'(M)

S00°55'32"E(R)
184.96'(R=M)

S11°25'50"W(M)
150.00'(R=M)
S13°30'00"W(R)

S09°30'00"E(R)
S11°34'30"E(M)
200.00'(R=M)

S16°50'00"E(R)
S20°34'30"E(M)
200.00'(R=M)

S04°30'00"E(R)
S06°34'30"E(M)
100.00'(R=M)

S14°00'00"W(R)
S11°55'30"W(M)
100.00'(M)

S27°00'00"W(R)
S24°55'30"W(M)
200.00'(M)

S23°25'52"W(M) 337.84'(M)
S25°30'22"W(R) 337.84'(R)

ABBREVIATIONS

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PROJ. NO.: 25.0054 | 5 OF 6 | SCALE: 1" = 60'

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PROJECT: OAK BROOK RESERVE

CLIENT / ENGINEER: Kimley»Horn

© 2025 KIMLEY-HORN AND ASSOCIATES, INC.

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AUSTIN, TX 78759
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OWNER: JPD OAK BROOK HOLDINGS, LLC
109 W SEVENTH ST
GEORGETOWN, TX 78626

DATE: 3/10/25 | N/A | DRAWN BY: MRA | CHECKED BY: MP | BOOK N/A PG N/A

NO.	REVISIONS	DATE	BY

FINAL PLAT OF SUBDIVISION

OAK BROOK RESERVE

BEING A SUBDIVISION OF PART OF SECTION 26, TOWNSHIP 39 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN DUPAGE COUNTY, ILLINOIS

OWNER'S CERTIFICATE

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

THIS IS TO CERTIFY THAT THE UNDERSIGNED IS THE OWNER OF THE LAND DESCRIBED IN THE ANNEXED PLAT, AND HAS CAUSED THE SAME TO BE SURVEYED AND SUBDIVIDED, AS INDICATED THEREON, FOR THE USES AND PURPOSES THEREIN SET FORTH, AND DOES HEREBY ACKNOWLEDGE AND ADOPT THE SAME UNDER THE STYLE AND TITLE THEREON INDICATED.

THE UNDERSIGNED HEREBY DEDICATES FOR PUBLIC USE THE LANDS SHOWN ON THIS PLAT FOR THOROUGHFARES, STREETS, ALLEYS AND PUBLIC SERVICES; AND HEREBY ALSO RESERVES FOR AND GRANTS EASEMENTS FOR PUBLIC USE AND FOR THE INSTALLATION OF VARIOUS PUBLIC UTILITIES AS DESIGNATED AND/OR AS STATED IN THE UTILITY EASEMENT PROVISIONS WHICH ARE STATED HEREON.

ALL EASEMENTS INDICATED AS PUBLIC UTILITY EASEMENTS ON THIS PLAT ARE RESERVED FOR AND GRANTED TO THE VILLAGE OF OAK BROOK AND TO THOSE PUBLIC AND PRIVATE UTILITY COMPANIES OPERATING WITHIN THE VILLAGE INCLUDING, BUT NOT LIMITED TO, AMERITECH, COMMONWEALTH EDISON COMPANY, NORTHERN ILLINOIS GAS COMPANY, DOWNERS GROVE* OR HINSDALE* SANITARY DISTRICT, AND THEIR SUCCESSORS AND ASSIGNS FOR THE PERPETUAL RIGHT, PRIVILEGE AND AUTHORITY TO INSTALL, CONSTRUCT, RECONSTRUCT, INSPECT, REPLACE, ALTER, ENLARGE, REMOVE, REPAIR, CLEAN, OPERATE AND MAINTAIN VARIOUS UTILITY, TRANSMISSION, DISTRIBUTION, COLLECTION AND DRAINAGE SYSTEMS TOGETHER WITH ANY AND ALL NECESSARY BUFFALO BOXES, CONNECTIONS, HYDRANTS, MANHOLES, CATCH BASINS, PIPES, SANITARY OR STORM SEWERS, SWALES, WATER MAINS, CABLES, WIRES, CONDUITS, TRANSFORMERS, PEDESTALS, AND WITHOUT LIMITATION SUCH OTHER APPURTENANCES OR DEVICES AS MAY BE DEEMED NECESSARY BY SAID VILLAGE OR UTILITY COMPANY UPON, ALONG, UNDER AND THROUGH SAID INDICATED EASEMENTS, TOGETHER WITH RIGHT OF ACCESS ACROSS THE PROPERTY FOR NECESSARY WORKERS AND EQUIPMENT TO DO ANY OF THE ABOVE WORK AND THE RIGHT IS ALSO GRANTED TO CUT DOWN, TRIM OR REMOVE ANY TREES, SHRUBS OR OTHER PLANTS ON THE EASEMENT THAT INTERFERE WITH THE OPERATION OF SEWERS OR OTHER UTILITIES. NO PERMANENT BUILDINGS OR STRUCTURES SHALL BE PLACED ON SAID EASEMENTS, EXCEPT AS REFERENCED ABOVE, BUT SAME MAY BE USED FOR GARDENS, SHRUBS, LANDSCAPING AND OTHER PURPOSES THAT DO NOT THEN OR LATER INTERFERE WITH THE AFORESAID USES OR RIGHTS.

THIS IS TO ALSO CERTIFY THAT THE UNDERSIGNED, AS OWNER OF THE PROPERTY DESCRIBED AS THE SUBDIVISION AND LEGALLY DESCRIBED ON THIS PLAT OF THE SAME NAME, HAVE DETERMINED, TO THE BEST OF MY KNOWLEDGE, THE SCHOOL DISTRICTS IN WHICH EACH OF THE FOLLOWING LOTS LIES:

LOT NUMBER(S)	ELEMENTARY	HIGH SCHOOL
ALL	GRADE SCHOOL DIST 53	HIGH SCHOOL DIST 86

DATED THIS _____ DAY OF _____, A.D., 20_____ .

BY: _____ OWNER'S NAME AND ADDRESS

_____ _____

PRINTED NAME AND TITLE _____

_____

_____

NOTARY CERTIFICATE

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

I, _____, A NOTARY PUBLIC IN AND FOR SAID COUNTY, IN THE STATE AFORESAID, DO HEREBY CERTIFY THAT_____ PERSONALLY KNOWN TO ME TO BE THE SAME PERSONS WHOSE NAMES ARE SUBSCRIBED TO THE AFORESAID INSTRUMENT AS SUCH OWNERS, APPEARED BEFORE ME THIS DAY IN PERSON AND ACKNOWLEDGED THAT THEY SIGNED THE ANNEXED PLAT AS THEIR OWN FREE AND VOLUNTARY ACT FOR THE USES AND PURPOSES THEREIN SET FORTH.

GIVEN UNDER MY HAND AND NOTARIAL SEAL

THIS _____ DAY OF _____, 20_____ .

_____
NOTARY PUBLIC

MORTGAGEE CONSENT

THE UNDERSIGNED, AS MORTGAGEE, UNDER THE PROVISIONS OF CERTAIN MORTGAGE DATED _____ AND RECORDED IN THE RECORDER'S OFFICE OF DUPAGE COUNTY, ILLINOIS, ON THE _____ DAY OF _____, A.D., _____, AS DOCUMENT NUMBER _____ HEREBY CONSENTS TO THE SUBDIVISION STATED HEREIN.

DATED: _____, A.D., 20_____

BY: _____
NAME:
TITLE:

MORTGAGEE NOTARY PUBLIC

STATE OF _____)
)SS
COUNTY OF _____)

I, _____, A NOTARY PUBLIC IN AND FOR THE COUNTY AND STATE AFORESAID, DO HEREBY CERTIFY THAT _____ WHO IS PERSONALLY KNOWN TO ME TO BE THE SAME WHOSE NAME IS SUBSCRIBED TO THE FOREGOING CERTIFICATE, APPEARED BEFORE ME THIS DAY IN PERSON AND ACKNOWLEDGED THAT THEY DID SIGN AND DELIVER THIS INSTRUMENT AS A FREE AND VOLUNTARY ACT FOR THE USES AND PURPOSES HEREIN SET FORTH.

GIVEN UNDER MY HAND AND NOTORIAL SEAL

THIS _____ DAY OF _____, A.D. 20_____

_____
NOTARY PUBLIC

DRAINAGE CERTIFICATE

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

TO THE BEST OF OUR KNOWLEDGE AND BELIEF, THE DRAINAGE OF SURFACE WATERS WILL NOT BE CHANGED BY THE CONSTRUCTION OF SUCH SUBDIVISION OR ANY PART THEREOF, OR, THAT IF SUCH SURFACE WATER DRAINAGE WILL BE CHANGED, REASONABLE PROVISION HAS BEEN MADE FOR COLLECTION AND DIVERSION OF SUCH SURFACE WATERS INTO PUBLIC AREAS, OR DRAINS WHICH THE SUBDIVIDER HAS A RIGHT TO USE, AND THAT SUCH SURFACE WATERS WILL BE PLANNED FOR IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES SO AS TO REDUCE THE LIKELIHOOD OF DAMAGE TO THE ADJOINING PROPERTY BECAUSE OF THE CONSTRUCTION OF THE SUBDIVISION.

DATED THIS _____ DAY OF _____, 20_____ .

OWNER / ATTORNEY: _____

_____
PRINTED NAME AND TITLE

ENGINEER: _____

_____

_____

_____

VILLAGE ENGINEER'S CERTIFICATE

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

I, _____, VILLAGE ENGINEER OF THE VILLAGE OF OAK BROOK, ILLINOIS, HEREBY CERTIFY THAT THE LAND IMPROVEMENTS DESCRIBED IN THE ANNEXED PLAT AND THE PLANS AND SPECIFICATIONS THEREFOR MEET THE MINIMUM REQUIREMENTS OF SAID VILLAGE AND HAVE BEEN APPROVED BY ALL PUBLIC AUTHORITIES HAVING JURISDICTION THEREOF.

DATED AT OAK BROOK, DUPAGE COUNTY, ILLINOIS,

THIS _____ DAY OF _____, 20_____ .

_____
VILLAGE ENGINEER

VILLAGE CLERK'S CERTIFICATE

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

I, _____, VILLAGE CLERK OF THE VILLAGE OF OAK BROOK, ILLINOIS, HEREBY CERTIFY THAT THE ANNEXED PLAT WAS PRESENTED TO AND BY RESOLUTION DULY APPROVED BY THE VILLAGE BOARD OF SAID VILLAGE AT ITS MEETING HELD ON _____, 20____ , AND THAT THE REQUIRED BOND OR OTHER GUARANTEE HAS BEEN POSTED FOR THE COMPLETION OF THE IMPROVEMENTS REQUIRED BY THE REGULATIONS OF SAID VILLAGE.

IN WITNESS WHEREOF I HAVE HERETO SET MY HAND AND THE SEAL OF THE VILLAGE OF OAK BROOK, ILLINOIS,

THIS _____ DAY OF _____, 20_____ .

_____
VILLAGE CLERK

CERTIFICATE AS TO SPECIAL ASSESSMENTS

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

I,_____ , VILLAGE TREASURER OF THE VILLAGE OF OAK BROOK DO HEREBY CERTIFY THAT THERE ARE NO DELINQUENT OR UNPAID CURRENT OR FORFEITED SPECIAL ASSESSMENTS OR ANY DEFERRED INSTALLMENTS THEREOF THAT HAVE BEEN APPORTIONED AGAINST THE TRACT OF LAND INCLUDED IN THE PLAT.

DATED AT OAK BROOK, DUPAGE COUNTY, ILLINOIS,

THIS _____ DAY OF _____, 20_____ .

_____
VILLAGE TREASURER

PLAN COMMISSION CERTIFICATE

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

APPROVED BY THE PLAN COMMISSION OF THE VILLAGE OF OAK BROOK, DUPAGE COUNTY, ILLINOIS, DATED

THIS _____ DAY OF _____, 20_____ .

_____
CHAIRMAN

CERTIFICATE OF TOWNSHIP HIGHWAY COMMISSIONER

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

APPROVED THIS _____ DAY OF _____ , 20_____.

BY:_____
HIGHWAY COMMISSIONER

_____
TOWNSHIP

SANITARY DISTRICT CERTIFICATE

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

I, _____, SECRETARY OF THE _____SANITARY DISTRICT, DUPAGE COUNTY, ILLINOIS, HEREBY CERTIFY THAT THERE ARE NO DELINQUENT OR UNPAID CURRENT OR FORFEITED SPECIAL ASSESSMENTS OR ANY DEFERRED INSTALLMENTS THEREOF THAT HAVE BEEN CONFIRMED AGAINST THE TRACT OF LAND INCLUDED IN THE PLAT.

DATED AT _____,

THIS _____ DAY OF _____, 20_____ .

_____
SECRETARY

WASTE WATER SEWER EASEMENT PROVISIONS

A WASTE WATER EASEMENT IS HEREBY RESERVED FOR AND GRANTED TO THE FLAGG CREEK WATER RECLAMATION DISTRICT FOR ALL AREAS HEREON PLATTED AND DESIGNATED "SANITARY SEWER EASEMENT"; TO CONSTRUCT, INSTALL, RECONSTRUCT, REPAIR, REMOVE, REPLACE, INSPECT, MAINTAIN AND OPERATE WASTE WATER SEWERS. NO ENCROACHMENT OF ANY KIND SHALL BE ALLOWED WITHIN SAID EASEMENT UNLESS THE DISTRICT DETERMINES THAT SAID ENCROACHMENT SHALL NOT INTERFERE WITH THE PROPER FUNCTIONING OF SUCH UTILITY FACILITIES, SUCH AS ENCROACHMENT BY NON-INTERFERING GARDENS, SHRUBS AND OTHER LANDSCAPING MATERIAL. THE DISTRICT MAY ENTER UPON SAID EASEMENT FOR THE USES HEREIN SET FORTH AND HAVE THE RIGHT TO CUT, TRIM OR REMOVE ANY TREES, SHRUBS OR OTHER PLANTS WITHIN THE AREAS DESIGNATED "SANITARY SEWER EASEMENT"WHICH ENCROACH ON AND INTERFERE WITH THE CONSTRUCTION, INSTALLATION, RECONSTRUCTION, REPAIR, REMOVAL, REPLACEMENT, MAINTENANCE AND OPERATION OF THE SANITARY SEWER SYSTEM AND SUCH FACILITIES APPURTENANT THERETO.

FOLLOWING ANY WORK TO BE PERFORMED BY THE DISTRICT IN THE EXERCISE OF ITS EASEMENT RIGHTS GRANTED HEREIN, THE DISTRICT SHALL HAVE NO OBLIGATION WITH RESPECT TO SURFACE RESTORATION, INCLUDING BUT NOT LIMITED TO, THE LAWN OR SHRUBBERY; PROVIDED, HOWEVER, THAT THE DISTRICT SHALL BE OBLIGATED FOLLOWING MAINTENANCE WORK TO BACKFILL AND MOUND ANY TRENCH CREATED SO AS TO RETAIN SUITABLE DRAINAGE, TO COLD PATCH ANY ASPHALT OR CONCRETE SURFACE, TO REMOVE ALL EXCESS DEBRIS AND SPOIL AND TO LEAVE THE MAINTENANCE AREA IN A GENERALLY CLEAN AND WORKMANLIKE CONDITION.

ACCESS EASEMENT

AN ACCESS EASEMENT IS HEREBY RESERVED FOR AND GRANTED TO ALL OWNERS WITHIN THIS SUBDIVISION, THEIR HEIRS, SUCCESSORS AND ASSIGNS, OVER ALL AREAS HEREON PLATTED AND DESIGNATED "ACCESS EASEMENT " FOR THE PURPOSE OF INGRESS AND EGRESS TO A PUBLIC ROADWAY.

STORM WATER DETENTION AND WATER QUALITY

FUTURE SITE IMPROVEMENTS THAT ADD OR MODIFY IMPERVIOUS COVER MAY REQUIRE NEW OR EXPANDED WATER QUALITY TREATMENT AND STORMWATER DETENTION CONTROLS. THE DEVELOPER IS REQUIRED TO OBTAIN APPROPRIATE PERMITS FROM THE VILLAGE OF OAK BROOK PRIOR TO FUTURE DEVELOPMENT.

COUNTY CLERK CERTIFICATE

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

I,_____, COUNTY CLERK OF DUPAGE COUNTY, ILLINOIS, DO HEREBY CERTIFY THAT THERE ARE NO DELINQUENT GENERAL TAXES, NO UNPAID FORFEITED TAXES, AND NO REDEEMABLE TAX SALES AGAINST ANY OF THE LAND INCLUDED IN THE ANNEXED PLAT.

GIVEN UNDER MY HAND AND SEAL AT WHEATON, DUPAGE COUNTY, ILLINOIS,

THIS _____ DAY OF _____, 20_____ .

_____
COUNTY CLERK

COUNTY RECORDER'S CERTIFICATE

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

THIS INSTRUMENT _____WAS FILED FOR RECORD IN THE RECORDER'S OFFICE OF DUPAGE COUNTY, ILLINOIS, ON THE _____ DAY OF _____, 20_____ , AT _____O'CLOCK _____M., AND WAS RECORDED IN BOOK _____ OF PLATS ON PAGE _____ .

_____
RECORDER OF DEEDS

SURVEYOR'S CERTIFICATE

STATE OF ILLINOIS)
) SS
COUNTY OF KANE)

THIS IS TO CERTIFY THAT I, SCOTT C. KREBS, REGISTERED ILLINOIS LAND SURVEYOR NO. 3509, HAVE SURVEYED AND SUBDIVIDED THE FOLLOWING DESCRIBED PROPERTY:

LOT 1 AND LOT 2 (EXCEPT THAT PART FALLING 31ST STREET, DESCRIBED IN DOCUMENT R 2001 183464), IN BUTLER GHQ SUBDIVISION, BEING A SUBDIVISION OF PART OF SECTION 26, TOWNSHIP 39 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED AUGUST 6, 1980 AS DOCUMENT R80-44966, IN DUPAGE COUNTY, ILLINOIS AS SHOWN BY THE ANNEXED PLAT, WHICH IS A CORRECT REPRESENTATION OF SAID SURVEY AND SUBDIVISION. ALL DISTANCES ARE SHOWN IN FEET AND DECIMALS THEREOF. I FURTHER CERTIFY THAT ALL REGULATIONS ENACTED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF OAK BROOK RELATIVE TO PLATS AND SUBDIVISIONS HAVE BEEN COMPLIED WITH IN PREPARATION OF THIS PLAT. I FURTHER CERTIFY THAT THE LAND IS WITHIN THE VILLAGE OF OAK BROOK WHICH HAS ADOPTED AN OFFICIAL COMPREHENSIVE PLAN AND IS EXERCISING THE SPECIAL POWERS AUTHORIZED BY THE STATE OF ILLINOIS ACCORDING TO 65 ILCS 5/11-12-6 AS HERETOFORE AND HEREAFTER AMENDED.

I FURTHER CERTIFY THAT THIS SITE FALLS WITHIN "OTHER AREAS ZONE X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) "OTHER FLOOD AREAS ZONE X" (AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD) "SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD ZONE A"(NO BASE FLOOD ELEVATIONS DETERMINED) AND "FLOODWAY AREAS IN ZONE AE (THE FLOODWAY IS THE CHANNEL OF A STREAM PLUS ANY ADJACENT FLOODPLAIN AREAS THAT MUST BE KEPT FREE OF ENCROACHMENT SO THAT THE 1% ANNUAL CHANCE FLOOD CAN BE CARRIED WITHOUT SUBSTANTIAL INCREASES IN FLOOD HEIGHT HEIGHTS) AS DEFINED BY THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL NUMBER 0179J, MAP NUMBER 17043C0179J HAVING AN EFFECTIVE DATE OF AUGUST 1, 2019.

GIVEN UNDER MY HAND AND NOTARIAL SEAL

THIS _____ DAY OF _____, 20_____ .

COMPASS SURVEYING LTD
PROFESSIONAL DESIGN FIRM
LAND SURVEYOR CORPORATION NO. 184-002778
LICENSE EXPIRES 4/30/2027

BY:_____
SCOTT C. KREBS
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3509
LICENSE EXPIRES 11/30/2026

SURVEYOR'S AUTHORIZATION TO RECORD

STATE OF ILLINOIS)
) SS
COUNTY OF KANE)

I HEREBY DESIGNATE ANY REPRESENTATIVE OF THE VILLAGE OF OAK BROOK, TO RECORD THIS PLAT, A TRUE COPY OF WHICH HAS BEEN RETAINED BY ME TO ASSURE NO CHANGES HAVE BEEN MADE TO SAID PLAT.

DATED THIS _____DAY OF_____, 20_____,
AT AURORA, KANE COUNTY, ILLINOIS.

COMPASS SURVEYING LTD
PROFESSIONAL DESIGN FIRM
LAND SURVEYOR CORPORATION NO. 184-002778
LICENSE EXPIRES 4/30/2027

BY:_____
SCOTT C. KREBS
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3509

EXPIRES 11/30/2026

11/7/2025 1:13 PM - J:\PSDATA\2025 PROJECTS\25.0054\25.0054 POSUBD.DWG

PROJ NO.: 25.0054

6 OF 6

SCALE: 1" = 100'

COMPASS SURVEYING LTD
ALTA SURVEYS ● TOPOGRAPHY ● CONSTRUCTION STAKING
2631 GINGER WOODS PARKWAY, STE. 100
AURORA, IL 60502
PHONE: (630) 820-9100 FAX: (630) 820-7030 EMAIL: ADMIN@CLSURVEYING.COM

PROJECT: OAK BROOK RESERVE

CLIENT / ENGINEER:
Kimley»Horn
© 2025 KIMLEY-HORN AND ASSOCIATES, INC.
10814 JOLLYVILLE ROAD, BUILDING IV, SUITE 200
AUSTIN, TX 78759
WWW.KIMLEY-HORN.COM

OWNER:
JPD OAK BROOK HOLDINGS, LLC
109 W SEVENTH ST
GEORGETOWN, TX 78626

DATE: 3/10/25 | N/A | DRAWN BY: MRA | CHECKED BY: MP | BOOK N/A PG N/A

NO.	REVISIONS	DATE	BY

VILLAGE OF OAK BROOK
Illinois

BUTLER GOVERNMENT CENTER
1200 OAK BROOK ROAD
OAK BROOK, ILLINOIS 60523

June 4, 2026

Village President and Board of Trustees
Village of Oak Brook
1200 Oak Brook Road
Oak Brook, IL 60523

Subject: Oak Brook Reserve – 2715, 2815, 2915 Jorie Blvd - Final Plat of Subdivision

Dear Village President and Board of Trustees:

Background

At its meeting on June 3, 2026, the Planning & Zoning Commission completed its review and deliberations on a petition from representatives for the owner of the properties located at 2715, 2815 and 2915 Jorie Blvd seeking approval of a final plat to subdivide two existing parcels into three.

The two existing lots are currently improved with a multi-tenant office building, the Hyatt Lodge, and the ACE Hardware headquarters. The proposed subdivision would create separate parcels, allowing each building to be located on its own lot.

The Commission was in receipt of the Village Engineer's review and recommended approval of the proposed final plat.

Public Comment

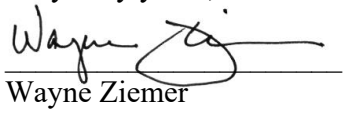
All interested parties were notified of the public meeting. No one spoke in support of or in opposition to the request.

Planning & Zoning Commission Recommendation

By a vote of 8 to 0, the Planning & Zoning Commission recommended approval of the final plat for the Oak Brook Reserve Subdivision subject to:

1. Final engineering approval prior to recording of the Plat.
2. Recording of the document by Village staff.
3. A declaration of covenants, conditions, restrictions, easements, and shared maintenance agreements for the three (3) lots is required and shall be recorded.
4. Add the condition "Notwithstanding the attached exhibits, the applicant shall meet all Village Ordinance requirements at the time of building permit application except as specifically varied or waived."

Very truly yours,



Wayne Ziemer
Chairman
Planning & Zoning Commission

MINUTES OF THE JUNE 3, 2026
REGULAR MEETING OF THE
PLANNING & ZONING COMMISSION OF THE
VILLAGE OF OAK BROOK
APPROVED AS WRITTEN/AMENDED ON

1. CALL TO ORDER:

CALL TO ORDER

The Meeting of the Planning & Zoning Commission was called to order by Chairman Wayne Ziemer at 6:30 p.m.

2. ROLL CALL:

ROLL CALL

Rama Raman called the roll with the following persons:
PRESENT: Chairman Wayne Ziemer, Vice Chairman Kenneth Wilczak, Members Natalie Cappetta, Richard DiBernardo, Rahma Hasan, Baker Nimry, James Pontrelli and Marc Simon
IN ATTENDANCE: Village Attorney Michael Castaldo III, Director Rebecca Von Drasek and Village Planner Rama Raman

3. APPROVAL OF MINUTES

MINUTES

SPECIAL PLANNING & ZONING COMMISSION MEETING OF MAY 13, 2026

MAY 13, 2026

Motion by Member Hasan, seconded by Member Bulin to approve the minutes of the December 3, 2025 Special Planning & Zoning Commission meeting as written. VOICE VOTE: Motion Carried.

4. UNFINISHED BUSINESS

UNFINISHED BUSINESS

There was no unfinished business.

5. NEW BUSINESS

NEW BUSINESS

A. FINAL PLAT OF SUBDIVISION OAK BROOK RESERVE – 2715, 2815, 2915 JORIE BLVD

F.P. OF SUBDIVISION OAK BROOK RESERVE – 2715, 2815, 2915 JORIE BLVD

Chairman Ziemer announced the commencement of the public meeting for the petition.

Planner Raman gave an overview of the petition.

Lance Oriti, Kimley-Horn Associates, Inc, Austin, TX, and John McNaughton, representatives of the property owner, JPD Oak Brook Holdings, LLC, explained that they are proposing to subdivide the two existing lots into three separate lots, allowing each of the three existing buildings to be located on its own lot. Mr. Oriti stated that all three proposed lots would comply with the regulations of the ORA-3 Zoning District.

Vice Chairman Wilczak asked if the restriction on the proposed Lot 3 would remain in place and if there were any curb cuts being proposed.

Mr. Oriti replied that the restriction would remain in place and there are no plans for any development.

Motioned by Member Hasan, seconded by Member DiBernardo to recommend approval of the final plat of subdivision, subject to the following conditions:

1. Final engineering approval prior to recording of the Plat.
2. Recording of the document by Village staff.
3. A declaration of covenants, conditions, restrictions, easements, and shared maintenance agreements for the three (3) lots is required and shall be recorded.
4. Add the condition "Notwithstanding the attached exhibits, the applicant shall meet all Village Ordinance requirements at the time of building permit application except as specifically varied or waived."

ROLL CALL:
Ayes: 8 – Chairman Ziemer, Vice Chairman Wilczak, Members Cappetta, DiBernardo, Hasan, Nimry, Pontrelli and Simon. Motion carried.
Absent: 1 - Member Bulin

Vice Chairman Ziemer announced that the public meeting for this matter was concluded.

5.

B. PLANNED DEVELOPMENT – OB22 – FRANKLIN PARTNERS – 1211-1315 22ND STREET

PD – OB22 – FRANKLIN PARTNERS – 1211-1315 22ND STREET

Chairman Ziemer announced the commencement of the public hearing for the petition and swore in everyone that was presenting for the remaining petitions.

Planned Raman summarized the request seeking planned development to enclose the outdoor dining for STK and to allow a fitness studio to operate in O-3 District.

Kelsea Neal Nolot, Elrod Friedman LLP, 350 N Clark St, Chicago, representative the for the property owner Franklin Oak Brook 22, LLC, explained that OB22 is an existing mixed used campus with two 11-story buildings. They are asking for relief to enhance the existing use by adding and boutique fitness studio – Solidcore into a vacant space and by enclosing the STK outdoor dining to create a year-round amenity.

The petitioner was seeking a front yard setback from 100-feet to 87-feet, permitting a fitness use in O-3 District and potential FAR adjustment for the enclosed outdoor dining.

Ms. Nolot discussed the benefits of having Solidcore as a tenant as well as the benefits of year-round dining at STK.

Member Cappetta questioned the enclosed outdoor dining capacity.

Chief Fleege replied that the enclosed outdoor dining would have its own capacity dependent on the number of available exits, and to be determined.

Vice Chair Wilczak asked where the entrance to the STK outdoor dining area would be located.

Jeff Levin, Levin Associates, Northbrook, IL replied that the only entrance to the outdoor dining would be through the restaurant.

Motioned by Member Hasan, seconded by Member DiBernardo to recommend approval of Planned Development, subject to the following conditions:

1. Compliance with Plans: The fitness studio use, operation and enclosed outdoor dining will be in substantial compliance with the plans and documents as submitted, except for minor changes approved by the Development Services Director and Village Manager in accordance with Section 13-15-8 of the Zoning Ordinance.
2. Sign proposals shall comply with applicable sign code regulations of the Oak Brook zoning ordinance unless otherwise modified or varied.

ROLL CALL:

Ayes:	8	–	Chairman Ziemer, Members Cappetta, DiBernardo, Hasan, Nimry, Pontrelli and Simon. Motion carried.
Absent:	1	-	Member Bulin

Vice Chairman Ziemer announced that the public hearing for this matter was concluded.

VILLAGE OF OAK BROOK
Planning & Zoning Commission

STAFF REPORT

DATE: May 27, 2026

FILE NOS: 2026-6-SR-FP

DESCRIPTION: Final Plat of Subdivision

PETITIONERS: Lance Oriti
Kimley-Horn Associates, Inc.
10814 Jollyville Road
Building IV, Suite 200
Austin, TX 78759

LOCATION: North of Oak Brook Road and east Jorie Boulevard.

ADDRESS: 2715, 2815, and 2915 Jorie Blvd

ACREAGE: 80 acres

EXISTING ZONING/USE: ORA-3 Office-Research-Assembly District and R-1 Single-Family Detached Residence District, single-family home.

ZONING/USE OF SURROUNDING PROPERTY:

North: ORA-1 Office-Research-Assembly District, office buildings and R-1, Single-Family Residential, Butler National Golf Course

South: R-3 Single-Family Detached Residence District, Village Hall of Oak Brook. Oak Brook Road is to the immediate south of the property and residential single family homes (R-2) are to the south of Oak Brook Road.

East: R-1, Single-Family Detached Residence District, Oak Brook Bath and Tennis, CR Conservation/ Recreation Area, Oak Brook library, and Oak Brook Golf Course

West: CR Conservation/ Recreation Area, Oak Brook Park District, R-3 Single-Family Detached Residence District, single-family homes.

CONTROLLING AGREEMENTS:

Ordinance 1958-S-1 – Annexing Property, 05/1/1958
Ordinance 1997-S-880 – to permit a heliport
Ordinance 2023-S-1674 – to permit a parking lot expansion.

STAFF REPORT – FINAL PLAT
OAK BROOK RESERVE – 2815 JORIE BLVD
CASE NO. 2026-6-SR-FP

Ordinances related to McDonald's development/ ORA-3 District : Ord. G-60, 3-22-1966; Ord. G-233, 5-31-1978; Ord. G-305, 9-8-1981; Ord. G-447, 4-24-1990; Ord. G-558, 7-25-1995; Ord. G-696, 6-11-2002; Ord. G-1163, 4-28-2020; Ord. G-1261, 10-22-2024

DISCUSSION:

JPD Oak Brook Holdings, LLC, owner of the property located at 2715, 2815, and 2915 Jorie Boulevard, has submitted a petition requesting approval of a final plat of subdivision for the 80-acre property currently identified as Butler GHQ Subdivision. The 4-lot property is improved with the multi-tenant office building, the Hyatt Lodge, ACE Hardware HQ, and surface parking lots. The proposed subdivision, Oak Brook Reserve, would create three (3) lots. The subject lots appear to comply with the bulk requirements of the ORA-3, Office- Research-Assembly zoning district.

Please see the materials provided by the petitioner in the case file for a more detailed description and the rationale for this request.

STAFF COMMENTS:

1. The subject parcel existed as McDonald's Corporation and was subsequently purchased by JPD Oak Brook Holdings LLC in 2019.
2. The 1990 Village of Oak Brook Comprehensive Plan identifies the land use for the subject property as ORA-3, Office-Research-Assembly District under Panning District 2.
3. The proposal complies with the minimum lot size and setback requirements for the ORA-3, Office- Research-Assembly zoning district. The proposed subdivision, Oak Brook Reserve, creates three (3) lots that are 24.01-acres, 24.01-acres, and 32.53-acres in area.
4. The final subdivision plat includes easements for each subdivided parcel.
5. Staff finds that the proposed Lot 2 is irregularly shaped and could be revised to create a more regular configuration. If the revised Lot 2 results in an area smaller than the required 24 acres, staff recommends that the applicant seek a variance for the undersized lot.
6. The Village Engineer has reviewed this submittal, and his comments are included in the case file.
7. The Butler GHQ Subdivision, Lot 2 restriction (R1980-44966) shall be retained and remain in effect as noted: Restriction hereby declared that Lot 2 be kept, maintained and preserved in its natural state, and except for hiking trails and bicycle and bridle paths, the exiting roadway of a replacement thereof, an entrance way installation including signs, gate, guard house and vehicular turn around area near the intersection of said roadway and 31st St., public utilities and public road improvements all of which shall be subject to prior written approval of the Village of Oak Brook (which approval shall not be unreasonably withheld) no structure or improvements of any kind, weather temporary or permanent shall be erected or permitted on this Lot, nor shall any use be made of any portion thereof for vehicular parking , theatrical or musical presentations or performances, picnicking, camping or similar activities.

8. Staff notes shared common features in the Lots such as bridges, walking paths, drive aisles, parking lots etc.
9. This property is located in the regulatory floodplain and floodway.

RESPONSIBILITIES OF HEARING BODIES:

The Planning & Zoning Commission has the responsibility to make a recommendation on this request for a subdivision. Please include in your consideration, your findings with respect to the standards specified in the Zoning Ordinance for a Final Plat of Subdivision. The materials submitted by the applicant specifically addresses these standards.

CONCLUSION:

Based on the information provided, if it is the opinion of the Planning & Zoning Commission that the applicant has satisfied the requirements of the Subdivision Regulations for approval of the final plat, a recommendation would be in order to approve this request as presented, subject to the following conditions:

- Final engineering approval prior to recording of the Plat.
- Recording of the document by Village staff.
- A declaration of covenants, conditions, restrictions, easements, and shared maintenance agreements for the three (3) lots is required and shall be recorded.
- Add the condition "Notwithstanding the attached exhibits, the applicant shall meet all Village Ordinance requirements at the time of building permit application except as specifically varied or waived."

Respectfully Submitted,

Rama Raman

Rama Raman
Village Planner

May 23, 2026

VILLAGE OF OAK BROOK – ENGINEERING REVIEW

PROJECT	PERMIT NO.	REVIEW NO.	STATUS
2815 Jorie Boulevard – Subdivision	SD 26 2	1	Not Approved

EZA Engineering received the following permit submittal documents on April 13, 2026:

DOCUMENT	PREPARED BY	SHEETS	DATE
Final Plat of Subdivision	Kimley Horn	6	3-10-26

The above documents have been reviewed for compliance with the Village Code of Oak Brook (Village Code) and the Village of Oak Brook Stormwater and Flood Plain Ordinance (VOBSFPO). Please consider the following comments:

FINAL PLAT OF SUBDIVISION

1. Title 14-4-2.B.2 – Provide a full and detailed description of the land embraced in the plat in accordance with the referenced section.
2. Title 14-4-2.B.2 – Revise PIN 06-26-401-015 to 06-26-400-015.
3. Title 14-4-2.C.1 – The limits of the subdivision are shown differently on the existing plat than the final plat (see south property line of existing lot 2). This appears to be due to an indicated Exception. Provide a reference (recorded document?) to the Exception on the final plat.
4. Title 14-4-2.C.2 – Provide a narrative (not to be recorded with the subdivision plat) identifying and providing reasons for all easements to be granted and/or abrogated.
5. Title 14-4-2-C.2 – Provide an exhibit with approximate locations of all private utilities (storm, sanitary, water, electric, gas, telecom, fiber, etc.) serving buildings on each proposed lot. If a service to Lot 1 is located on Lot 2 (or another similar example), a private easement between property owners shall be granted.lllllllllllllllll
6. Title 14-4-2.C.4 – Section lines are located within the subdivision. Show all section lines on the plat and accurately tie them to the lines of the subdivision by distances and angles.
7. Title 14-4-2-C.9 – Provide written confirmation in agreement from the Flagg Creek Water Reclamation District that the Waste Water Sewer Easement Provisions are adequate.
8. Title 14-4-2.D – Address the following certificate comments:
    - Include all easements shown on the detail sheets (3-5) on the main subdivision sheet (2).
    - In the Owner's Certificate, replace **Downers Grove* or Hinsdale* Sanitary District** with **Flagg Creek Water Reclamation District**.
    - Revise the **Plan Commission Certificate** to the **Planning and Zoning Commission Certificate**. Revise the reference within the certificate language as well.
    - In the Sanitary District Certificate, revise **Secretary of the _____ Sanitary District** to **Executive Director of the Flagg Creek Water Reclamation District**.
    - Remove the Certificate of Township Highway Commissioner.
    - Add the **Certificate of County Engineer**.
9. Add the **Submitted By:** block, which shall include the name and mailing address.
10. Land improvements are not required for this subdivision. Therefore, a Subdivision Improvement Agreement (SIA) is not required. A response to this comment is not necessary.
11. Provide an itemized comment response letter in the next submittal.

VILLAGE OF OAK BROOK
Illinois

BUTLER GOVERNMENT CENTER
1200 OAK BROOK ROAD
OAK BROOK, ILLINOIS 60523

May 14, 2026

Dear Resident:

The Oak Brook Planning & Zoning Commission and the Village Board will be considering a final plat of subdivision.

MEETING DATE AND INFORMATION:

Planning & Zoning Commission .....6:30 p.m., Wednesday, June 3, 2026
Board of Trustees Meeting..... 7:00 p.m., Tuesday, July 14, 2026***
*** Pending P&Z

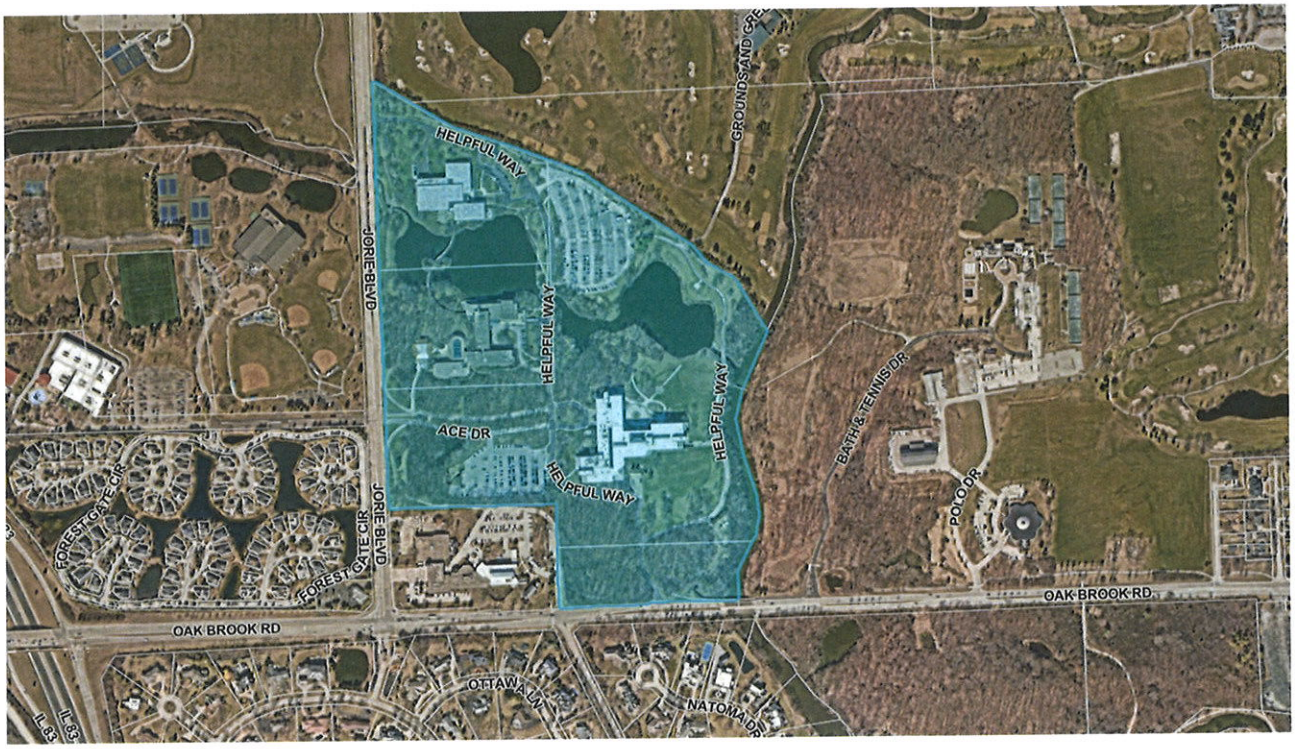
The application has been filed by:	Lance Oriti Kimley-Horn and Associates Austin, TX
The property is located at:	2715/2815/2915 Jorie Blvd
Relationship of applicant to property:	Agent

Kimley-Horn and Associates with the approval of JPD Oak Brook Holdings, LLC, owner of the property located at 2715, 2815, and 2915 Jorie Boulevard, has submitted a petition requesting approval of a final plat of subdivision for the 80-acre property currently identified as Butler GHQ Subdivision. The 4-lot property is improved with the multi-tenant office building, the Hyatt Lodge, ACE Hardware HQ, and surface parking lots. The proposed subdivision, Oak Brook Reserve, would create three (3) lots that are 24.01-acres, 24.01-acres, and 32.53-acres in area.

For more detailed information of the request, please contact the Development Services Department at 630-368-5103 between 8 AM-4 PM, Monday through Friday, except for holidays.

Sincerely,

Rebecca Von Drasek
Development Services Director



*Note: The map provided is only an approximation of the area in question and is intended to be used only as a visual aid to determine your relationship to the property.

The Village of Oak Brook, in compliance with the Americans with Disabilities Act, requests that persons with disabilities, who require certain accommodations to allow them to observe and/or participate in this meeting or have questions about the accessibility of the meeting facilities, contact the Village ADA Coordinator at 630-368-5010 as soon as possible before the meeting date.

All meetings are held in the Samuel E. Dean Board Room of the Oak Brook Village Hall, Butler Government Center located at 1200 Oak Brook Road (31st Street) and Spring Road, Oak Brook, Illinois.

ITEM 6.D.1.
BOARD OF TRUSTEES MEETING
SAMUEL E. DEAN BOARD ROOM
BUTLER GOVERNMENT CENTER
1200 OAK BROOK ROAD
OAK BROOK, ILLINOIS
630-368-5000

AGENDA ITEM

Board of Trustees Regular Meeting
of
May 12, 2026

SUBJECT: Referral – 2715, 2815, and 2915 Jorie Blvd – Final Plat of Subdivision Oak Brook Reserve

FROM: Rebecca Von Drasek, Development Services Director

BUDGET SOURCE/BUDGET IMPACT: N/A

RECOMMENDED MOTION: I move to refer the request for the final plat of subdivision to the Planning & Zoning Commission for review and recommendation.

Background/History:
JPD Oak Brook Holdings, LLC, owner of the property located at 2715, 2815, and 2915 Jorie Boulevard, has submitted a petition requesting approval of a final plat of subdivision for the 80-acre property currently identified as Butler GHQ Subdivision. The 4-lot property is improved with the multi-tenant office building, the Hyatt Lodge, ACE Hardware HQ, and surface parking lots. The proposed subdivision, Oak Brook Reserve, would create three (3) lots that are 24.01-acres, 24.01-acres, and 32.53-acres in area. The subject lots appear to comply with the bulk requirements of the ORA-3, Office, Research, and Assembly zoning district.

Recommendation:
Staff recommends that the Village Board refer Final Plat to the Planning & Zoning Commission (P&Z) for public meeting, review and recommendation.

Attachments:
1. Exhibits - Referral

Record No: SD-26-2

Subdivision Application

Status: Active

Submitted On: 4/8/2026

Primary Location

2815 JORIE BLVD
OAK BROOK, IL 60523

Owner

JPD OAK BROOK HOLDINGS
109 W 7TH ST STE 200
GEORGETOWN , TX 78626

Applicant

Lance Oriti
[redacted]
10814 Jollyville Road, Building IV
Suite 200
Austin, TX 78759

Project Information

Subdivision Type*

Final Plat of Subdivision

Subdivision Title*

Oak Brook Reserve

Date Filed*

03/26/2026

Village Code Info

Number of Street Frontages for Public Hearing Signs*

2

General Location and Legal Address of Property to be Subdivided*

Commercial

Are you seeking any variation (relief) to the subdivision regulations?*

No

If YES, list the specific section in the Subdivision Regulations and attach a detailed explanation of the relief you are seeking:

Relationship of Applicant to Property Owner*

Agent

Owner of Record*

JPD Oak Brook Holdings, LLC

Phone*

(512)-762-6750

Address*

109 W 7th Street, Suite 200

City, State, Zip*

Georgetown TX 78626

Is the property in Trust?*

No

I (we) certify that all of the above statements and the statements contained in any papers or plans submitted herewith are true to the best of my (our) knowledge and belief. I (we) give permission to the Village to install public hearing sign(s) on the lot frontages of the above subject property as described in the Village Code. In addition to the above fees, applicant agrees to reimburse the Village for publication costs within 30 days of billing.*

Lance Oriti
Mar 20, 2026

OWNERS AFFIDAVIT FOR SUBDIVISIONS OF NOT MORE THAN FIVE (5) LOTS This plat contains the entire contiguous undeveloped land area in which I have any interest.*

Lance Oriti
Mar 20, 2026

Sizing by Land Use Category

Number of Lots by Type*

Commercial

Number of Lots*

3

Number of Acres by Type*	Number of Acres*
Commercial	80.55

Number of Square Feet by Type*	Number of Square Feet*
Commercial	3508884

April 8, 2026

Letter of Explanation

JPD Oak Brook Holdings, owner of the Oak Brook Reserve Campus, wishes to subdivide the property into three new lots. Currently, the project site contains two lots. Existing Lot 1 contains a hotel and two office buildings, while existing Lot 2 contains a preservation restriction over it, and therefore, does not contain any structures. The proposed subdivision would create three new lots, each with a minimum area of 24 acres to conform with the ORA3 zoning regulations. No new development is proposed with this Subdivision Application and no changes to the current zoning regulations are being requested. The purpose of the Subdivision Application is to allow each of the three existing buildings to be located on their own lot, which will allow ownership to better allocate the campus expenses. A Property Owner's Association will be created to define expenses related to each lot and to shared property features.

.

April 8, 2026

Lance Oriti
Kimley-Horn and Associates, Inc.
10814 Jollyville Road
Building IV, Suite 200
Austin, TX 78759

Re: Revised Plat Application
Oak Brook Reserve
2715 / 2815 / 2915 Jorie Blvd
Oak Brook, IL 60523
Owner's Authorization

Dear Mr. Oriti:
This letter shall serve as authorization for Kimley-Horn and Associates, Inc. to represent and act on behalf of JPD Oak Brook Holdings, LLC for the purpose of preparing and submitting all required applications associated with the Revised Plat Application for Oak Brook Reserve.

Please contact Jonathan McNaughton if additional information is required.
Jonathan McNaughton: jmcnaughton@improveone.com

Signed by:

[redacted]

Name: Paul McNaughton
Title: Manager, JPD Oak Brook Holdings, LLC

Application Fee

Record No.**SD-26-2**

Status Completed

Type Payment

Assignee Lance Oriti

Invoice ID 266260

Became Active April 9, 2026

Due Date None

Fee Breakdown

Fee Name	Total Fee	Paid	Due
✓ Public Hearing Signs	$100.00	$100.00	$0.00
✓ Final Plat of Subdivision-No Improvements	$750.00	$750.00	$0.00
✓ Plan Review Fee: Engineering	$1,000.00	$1,000.00	$0.00
Subdivision Amendment and/or Variation	$0.00	$0.00	$0.00
Time Extension Fee	$0.00	$0.00	$0.00
Final Plat of Consolidation and/or Plat of Vacation	$0.00	$0.00	$0.00
Total	**$1,850.00**	**$1,850.00**	**$0.00**

Payment History

Date	Method	Note	Paid
04/13/2026	Credit Card		$1,850.00

MAKE CHECK PAYABLE TO: DU PAGE COLLECTOR - SEND THIS COUPON WITH YOUR 1ST INSTALLMENT PAYMENT OF 2024 Tax

MAIL PAYMENT TO: P.O. BOX 4203, CAROL STREAM, IL 60197-4203
PAY ON-LINE AT: www.dupagecounty.gov/treasurer
SEE REVERSE SIDE FOR ADDITIONAL INFORMATION

06-26-401-008
JPD OAK BROOK HOLDINGS
ATTN: KYLE W MC DANIEL
109 W 7TH ST STE 200
GEORGETOWN TX 78626

$41,491.46 PAID May 14, 2025

1

ON OR BEFORE:	PAY:
JUN 02, 2025	0.00

PAYING LATE?	PAY THIS AMOUNT:
JUN 3 THRU 30	0.00
JUL 1 THRU 31	
AUG 1 THRU 31	
SEP 1 THRU 30	
OCT 1 THRU 31	
NOV 1 THRU 19	

U.S. POSTMARK IS USED TO DETERMINE LATE PENALTY.

PAYMENT OF THIS 2024 TAX BILL AFTER OCTOBER 31, 2025, REQUIRES A CASHIER'S CHECK, CASH OR MONEY ORDER.

☐ CHECK BOX AND COMPLETE CHANGE OF ADDRESS ON BACK.

NO PAYMENT WILL BE ACCEPTED AFTER NOV 19, 2025

10626401008061430004149146 51

MAKE CHECK PAYABLE TO: DU PAGE COLLECTOR - SEND THIS COUPON WITH YOUR 2ND INSTALLMENT PAYMENT OF 2024 Tax

MAIL PAYMENT TO: P.O. BOX 4203, CAROL STREAM, IL 60197-4203
PAY ON-LINE AT: www.dupagecounty.gov/treasurer
SEE REVERSE SIDE FOR ADDITIONAL INFORMATION

06-26-401-008
JPD OAK BROOK HOLDINGS
ATTN: KYLE W MC DANIEL
109 W 7TH ST STE 200
GEORGETOWN TX 78626

$41,491.46 PAID August 18, 2025

2

ON OR BEFORE:	PAY:
SEP 02, 2025	0.00

PAYING LATE?	PAY THIS AMOUNT:
SEP 3 THRU 30	
OCT 1 THRU 31	0.00
* NOV 1 THRU 19	

*INCLUDES $10 COST: SEE BACK OF BILL FOR EXPLANATION

U.S. POSTMARK IS USED TO DETERMINE LATE PENALTY.

PAYMENT OF THIS 2024 TAX BILL AFTER OCTOBER 31, 2025, REQUIRES A CASHIER'S CHECK, CASH OR MONEY ORDER.

☐ CHECK BOX AND COMPLETE CHANGE OF ADDRESS ON BACK.

NO PAYMENT WILL BE ACCEPTED AFTER NOV 19, 2025

20626401008061430004149146 52

Rate 2023	Tax 2023	Taxing District	Rate 2024	Tax 2024
		** COUNTY **		
0.0899	2,001.28	COUNTY OF DU PAGE	0.0832	1,852.14
0.0180	400.70	PENSION FUND	0.0165	367.30
0.0291	647.80	HEALTH DEPARTMENT	0.0250	556.52
0.0103	229.30	PENSION FUND	0.0114	253.78
0.1001	2,228.34	FOREST PRESERVE DIST	0.1213	2,700.26
0.0075	166.96	PENSION FUND	0.0097	215.94
0.0132	293.86	DU PAGE AIRPORT AUTH	0.0122	271.60
		** LOCAL **		
NO LEVY	0.00	DU PAGE WATER COMM	NO LEVY	0.00
0.0426	948.34	YORK TOWNSHIP	0.0425	946.10
0.0047	104.62	PENSION FUND	0.0020	44.52
0.0449	999.52	YORK TWP ROAD	0.0443	986.18
0.0014	31.16	PENSION FUND	0.0008	17.80
NO LEVY	0.00	VLG OF OAK BROOK	NO LEVY	0.00
0.3085	6,867.58	OAK BROOK PARK DIST	0.2842	6,326.62
0.0180	400.70	PENSION FUND	0.0219	487.52
NO LEVY	0.00	FLAGG CRK WATER REC	NO LEVY	0.00
		** EDUCATION **		
1.2629	28,113.66	GRADE SCHOOL DIST 53	1.2255	27,281.06
0.0152	338.38	PENSION FUND	0.0148	329.46
1.6596	36,944.70	HIGH SCHOOL DIST 86	1.5964	35,537.72
0.0439	977.26	PENSION FUND	0.0366	814.76
0.1907	4,245.20	COLLEGE DU PAGE 502	0.1794	3,993.64
		** TIF **		
3.8605	85,939.36	TOTALS	3.7277	82,982.92
2023	**2,226,120**	**Assessed Value**	**2024**	**2,226,116**

Mailed to:
JPD OAK BROOK HOLDINGS
ATTN: KYLE W MC DANIEL
109 W 7TH ST STE 200
GEORGETOWN TX 78626

Property Location:
2715 JORIE BLVD
OAK BROOK IL 60523

Township Assessor:
YORK
630-627-3354

Tax Code:
6143

Property Index Number:
06-26-401-008

CHANGE OF NAME/ADDRESS:
CALL: 630-407-5900

*** S OF A FACTOR 1.0786**

1st INST PAID May 14, 2025
2nd INST PAID August 18, 2025

TIF Frozen Value	
Fair Cash Value	6,679,000
Land Value	2,179,421
+ Building Value	46,695
= Assessed Value	**2,226,116 ***
x State Multiplier	1.0000
- Equalized Value	2,226,116
- Residential Exemption	
- Senior Exemption	
- Senior Freeze	
- Disabled Veteran	
- Disability Exemption	
- Returning Veteran Exemption	
- Home Improvement Exemption	
- House Abatement	
= Net Taxable Value	2,226,116
x Tax Rate	3.7277
= Total Tax Due	82,982.92
- Less Advance Payment	
- Commercial Abatement	
+ PACE Reimbursement	
= Net Due as of 03/30/26	0.00

2024 DuPage County Real Estate Tax Bill
Gwen Henry, CPA, County Collector
421 N, County Farm Road
Wheaton, IL 60187

Office Hours - 8:00 am -4.30 pm, Mon - Fri
Telephone = (630) 407-5900

MAKE CHECK PAYABLE TO: DU PAGE COLLECTOR - SEND THIS COUPON WITH YOUR 1ST INSTALLMENT PAYMENT OF 2024 Tax

MAIL PAYMENT TO: P.O. BOX 4203, CAROL STREAM, IL 60197-4203
PAY ON-LINE AT: www.dupagecounty.gov/treasurer
SEE REVERSE SIDE FOR ADDITIONAL INFORMATION

06-26-401-009
JPD OAK BROOK HOLDINGS
ATTN: KYLE W MCDANIEL
109 W 7TH ST STE 200
GEORGETOWN TX 78626

$54,176.04 PAID May 14, 2025

1

ON OR BEFORE:	PAY:
JUN 02, 2025	0.00

PAYING LATE?	PAY THIS AMOUNT:
JUN 3 THRU 30	0.00
JUL 1 THRU 31	
AUG 1 THRU 31	
SEP 1 THRU 30	
OCT 1 THRU 31	
NOV 1 THRU 19	

U.S. POSTMARK IS USED TO DETERMINE LATE PENALTY.

PAYMENT OF THIS 2024 TAX BILL AFTER OCTOBER 31, 2025, REQUIRES A CASHIER'S CHECK, CASH OR MONEY ORDER.

☐ CHECK BOX AND COMPLETE CHANGE OF ADDRESS ON BACK.

NO PAYMENT WILL BE ACCEPTED AFTER NOV 19, 2025

10626401009861430005417604 51

MAKE CHECK PAYABLE TO: DU PAGE COLLECTOR - SEND THIS COUPON WITH YOUR 2ND INSTALLMENT PAYMENT OF 2024 Tax

MAIL PAYMENT TO: P.O. BOX 4203, CAROL STREAM, IL 60197-4203
PAY ON-LINE AT: www.dupagecounty.gov/treasurer
SEE REVERSE SIDE FOR ADDITIONAL INFORMATION

06-26-401-009
JPD OAK BROOK HOLDINGS
ATTN: KYLE W MCDANIEL
109 W 7TH ST STE 200
GEORGETOWN TX 78626

$54,176.04 PAID August 18, 2025

2

ON OR BEFORE:	PAY:
SEP 02, 2025	0.00

PAYING LATE?	PAY THIS AMOUNT:
SEP 3 THRU 30	
OCT 1 THRU 31	0.00
* NOV 1 THRU 19	

*INCLUDES $10 COST: SEE BACK OF BILL FOR EXPLANATION

U.S. POSTMARK IS USED TO DETERMINE LATE PENALTY.

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NO PAYMENT WILL BE ACCEPTED AFTER NOV 19, 2025

20626401009861430005417604 52

Rate 2023	Tax 2023	Taxing District	Rate 2024	Tax 2024
		** COUNTY **		
0.0899	2,613.10	COUNTY OF DU PAGE	0.0832	2,418.36
0.0180	523.20	PENSION FUND	0.0165	479.60
0.0291	845.84	HEALTH DEPARTMENT	0.0250	726.66
0.0103	299.38	PENSION FUND	0.0114	331.36
0.1001	2,909.58	FOREST PRESERVE DIST	0.1213	3,525.80
0.0075	218.00	PENSION FUND	0.0097	281.94
0.0132	383.68	DU PAGE AIRPORT AUTH	0.0122	354.62
		** LOCAL **		
NO LEVY	0.00	DU PAGE WATER COMM	NO LEVY	0.00
0.0426	1,238.22	YORK TOWNSHIP	0.0425	1,235.34
0.0047	136.62	PENSION FUND	0.0020	58.14
0.0449	1,305.10	YORK TWP ROAD	0.0443	1,287.64
0.0014	40.70	PENSION FUND	0.0008	23.26
NO LEVY	0.00	VLG OF OAK BROOK	NO LEVY	0.00
0.3085	8,967.08	OAK BROOK PARK DIST	0.2842	8,260.76
0.0180	523.20	PENSION FUND	0.0219	636.56
NO LEVY	0.00	FLAGG CRK WATER REC	NO LEVY	0.00
		** EDUCATION **		
1.2629	36,708.34	GRADE SCHOOL DIST 53	1.2255	35,621.30
0.0152	441.82	PENSION FUND	0.0148	430.18
1.6596	48,239.10	HIGH SCHOOL DIST 86	1.5964	46,402.14
0.0439	1,276.02	PENSION FUND	0.0366	1,063.84
0.1907	5,543.02	COLLEGE DU PAGE 502	0.1794	5,214.58
		** TIF **		
3.8605	112,212.00	TOTALS	3.7277	108,352.08
2023	**2,906,670**	**Assessed Value**	**2024**	**2,906,674**

Mailed to:
JPD OAK BROOK HOLDINGS
ATTN: KYLE W MCDANIEL
109 W 7TH ST STE 200
GEORGETOWN TX 78626

Property Location:
2815 JORIE BLVD
OAK BROOK IL 60523

Township Assessor:
YORK
630-627-3354

Tax Code:
6143

Property Index Number:
06-26-401-009

CHANGE OF NAME/ADDRESS:
CALL: 630-407-5900

*** S OF A FACTOR 1.0786**

1st INST PAID May 14, 2025
2nd INST PAID August 18, 2025

TIF Frozen Value	
Fair Cash Value	8,720,900
Land Value	1,812,005
+ Building Value	1,094,669
= Assessed Value	**2,906,674 ***
x State Multiplier	1.0000
- Equalized Value	2,906,674
- Residential Exemption	
- Senior Exemption	
- Senior Freeze	
- Disabled Veteran	
- Disability Exemption	
- Returning Veteran Exemption	
- Home Improvement Exemption	
- House Abatement	
= Net Taxable Value	2,906,674
x Tax Rate	3.7277
= Total Tax Due	108,352.08
- Less Advance Payment	
- Commercial Abatement	
+ PACE Reimbursement	
= Net Due as of 03/30/26	0.00

2024 DuPage County Real Estate Tax Bill
Gwen Henry, CPA, County Collector
421 N, County Farm Road
Wheaton, IL 60187

Office Hours - 8:00 am -4.30 pm, Mon - Fri
Telephone = (630) 407-5900

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06-26-401-010
JPD OAK BROOK HOLDINGS
ATTN: KYLE W MCDANIEL
109 W 7TH ST. STE 200
GEORGETOWN TX 78626

$155,320.63 PAID May 14, 2025

1

ON OR BEFORE:	PAY:
JUN 02, 2025	0.00

PAYING LATE?	PAY THIS AMOUNT:
JUN 3 THRU 30	0.00
JUL 1 THRU 31	
AUG 1 THRU 31	
SEP 1 THRU 30	
OCT 1 THRU 31	
NOV 1 THRU 19	

U.S. POSTMARK IS USED TO DETERMINE LATE PENALTY.

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NO PAYMENT WILL BE ACCEPTED AFTER NOV 19, 2025

10626401010661430015532063 31

MAKE CHECK PAYABLE TO: DU PAGE COLLECTOR - SEND THIS COUPON WITH YOUR 2ND INSTALLMENT PAYMENT OF 2024 Tax

MAIL PAYMENT TO: P.O. BOX 4203, CAROL STREAM, IL 60197-4203
PAY ON-LINE AT: www.dupagecounty.gov/treasurer
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06-26-401-010
JPD OAK BROOK HOLDINGS
ATTN: KYLE W MCDANIEL
109 W 7TH ST. STE 200
GEORGETOWN TX 78626

$155,320.63 PAID August 18, 2025

2

ON OR BEFORE:	PAY:
SEP 02, 2025	0.00

PAYING LATE?	PAY THIS AMOUNT:
SEP 3 THRU 30	
OCT 1 THRU 31	0.00
* NOV 1 THRU 19	

*INCLUDES $10 COST: SEE BACK OF BILL FOR EXPLANATION

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NO PAYMENT WILL BE ACCEPTED AFTER NOV 19, 2025

20626401010661430015532063 32

Rate 2023	Tax 2023	Taxing District	Rate 2024	Tax 2024
		** COUNTY **		
0.0899	6,398.38	COUNTY OF DU PAGE	0.0832	6,933.32
0.0180	1,281.10	PENSION FUND	0.0165	1,375.00
0.0291	2,071.12	HEALTH DEPARTMENT	0.0250	2,083.34
0.0103	733.06	PENSION FUND	0.0114	950.00
0.1001	7,124.32	FOREST PRESERVE DIST	0.1213	10,108.30
0.0075	533.80	PENSION FUND	0.0097	808.34
0.0132	939.48	DU PAGE AIRPORT AUTH	0.0122	1,016.68
		** LOCAL **		
NO LEVY	0.00	DU PAGE WATER COMM	NO LEVY	0.00
0.0426	3,031.94	YORK TOWNSHIP	0.0425	3,541.68
0.0047	334.50	PENSION FUND	0.0020	166.66
0.0449	3,195.62	YORK TWP ROAD	0.0443	3,691.66
0.0014	99.64	PENSION FUND	0.0008	66.66
NO LEVY	0.00	VLG OF OAK BROOK	NO LEVY	0.00
0.3085	21,956.60	OAK BROOK PARK DIST	0.2842	23,683.30
0.0180	1,281.10	PENSION FUND	0.0219	1,825.00
NO LEVY	0.00	FLAGG CRK WATER REC	NO LEVY	0.00
		** EDUCATION **		
1.2629	89,883.24	GRADE SCHOOL DIST 53	1.2255	102,124.86
0.0152	1,081.82	PENSION FUND	0.0148	1,233.34
1.6596	118,117.20	HIGH SCHOOL DIST 86	1.5964	133,033.14
0.0439	3,124.46	PENSION FUND	0.0366	3,050.00
0.1907	13,572.52	COLLEGE DU PAGE 502	0.1794	14,949.98
		** TIF **		
3.8605	274,759.90	TOTALS	3.7277	310,641.26
2023	**7,117,210**	**Assessed Value**	**2024**	**8,333,322**

Mailed to:
JPD OAK BROOK HOLDINGS
ATTN: KYLE W MCDANIEL
109 W 7TH ST. STE 200
GEORGETOWN TX 78626

Property Location:
2915 JORIE BLVD
OAK BROOK IL 60523

Township Assessor:
YORK
630-627-3354

Tax Code:
6143

Property Index Number:
06-26-401-010

CHANGE OF NAME/ADDRESS:
CALL: 630-407-5900

*** S OF A FACTOR 1.0786**

1st INST PAID May 14, 2025
2nd INST PAID August 18, 2025

TIF Frozen Value	
Fair Cash Value	25,002,500
Land Value	6,547,877
+ Building Value	1,785,445
= Assessed Value	**8,333,322 ***
x State Multiplier	1.0000
- Equalized Value	8,333,322
- Residential Exemption	
- Senior Exemption	
- Senior Freeze	
- Disabled Veteran	
- Disability Exemption	
- Returning Veteran Exemption	
- Home Improvement Exemption	
- House Abatement	
= Net Taxable Value	8,333,322
x Tax Rate	3.7277
= Total Tax Due	310,641.26
- Less Advance Payment	
- Commercial Abatement	
+ PACE Reimbursement	
= Net Due as of 03/30/26	0.00

2024 DuPage County Real Estate Tax Bill
Gwen Henry, CPA, County Collector
421 N, County Farm Road
Wheaton, IL 60187

Office Hours - 8:00 am -4.30 pm, Mon - Fri
Telephone = (630) 407-5900

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SEE REVERSE SIDE FOR ADDITIONAL INFORMATION

06-26-400-015

JPD OAK BROOK HOLDINGS
ATTN: KYLE W MC DANIEL
109 W 7TH ST. STE 200
GEORGETOWN TX 78626

$1,553.21 PAID May 14, 2025

1

ON OR BEFORE:	PAY:
JUN 02, 2025	0.00

PAYING LATE?	PAY THIS AMOUNT:
JUN 3 THRU 30	0.00
JUL 1 THRU 31	
AUG 1 THRU 31	
SEP 1 THRU 30	
OCT 1 THRU 31	
NOV 1 THRU 19	

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NO PAYMENT WILL BE ACCEPTED AFTER NOV 19, 2025

10626400015661430000155321 31

MAKE CHECK PAYABLE TO: DU PAGE COLLECTOR - SEND THIS COUPON WITH YOUR 2ND INSTALLMENT PAYMENT OF 2024 Tax

MAIL PAYMENT TO: P.O. BOX 4203, CAROL STREAM, IL 60197-4203
PAY ON-LINE AT: www.dupagecounty.gov/treasurer
SEE REVERSE SIDE FOR ADDITIONAL INFORMATION

06-26-400-015

JPD OAK BROOK HOLDINGS
ATTN: KYLE W MC DANIEL
109 W 7TH ST. STE 200
GEORGETOWN TX 78626

$1,553.21 PAID August 18, 2025

2

ON OR BEFORE:	PAY:
SEP 02, 2025	0.00

PAYING LATE?	PAY THIS AMOUNT:
SEP 3 THRU 30	
OCT 1 THRU 31	0.00
* NOV 1 THRU 19	

*INCLUDES $10 COST: SEE BACK OF BILL FOR EXPLANATION

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☐ CHECK BOX AND COMPLETE CHANGE OF ADDRESS ON BACK.

NO PAYMENT WILL BE ACCEPTED AFTER NOV 19, 2025

20626400015661430000155321 32

Rate 2023	Tax 2023	Taxing District	Rate 2024	Tax 2024
		** COUNTY **		
0.0899	74.92	COUNTY OF DU PAGE	0.0832	69.32
0.0180	15.00	PENSION FUND	0.0165	13.76
0.0291	24.24	HEALTH DEPARTMENT	0.0250	20.84
0.0103	8.58	PENSION FUND	0.0114	9.50
0.1001	83.42	FOREST PRESERVE DIST	0.1213	101.08
0.0075	6.24	PENSION FUND	0.0097	8.08
0.0132	11.00	DU PAGE AIRPORT AUTH	0.0122	10.18
		** LOCAL **		
NO LEVY	0.00	DU PAGE WATER COMM	NO LEVY	0.00
0.0426	35.50	YORK TOWNSHIP	0.0425	35.42
0.0047	3.92	PENSION FUND	0.0020	1.66
0.0449	37.42	YORK TWP ROAD	0.0443	36.92
0.0014	1.16	PENSION FUND	0.0008	0.66
NO LEVY	0.00	VLG OF OAK BROOK	NO LEVY	0.00
0.3085	257.08	OAK BROOK PARK DIST	0.2842	236.84
0.0180	15.00	PENSION FUND	0.0219	18.24
NO LEVY	0.00	FLAGG CRK WATER REC	NO LEVY	0.00
		** EDUCATION **		
1.2629	1,052.38	GRADE SCHOOL DIST 53	1.2255	1,021.24
0.0152	12.66	PENSION FUND	0.0148	12.34
1.6596	1,382.96	HIGH SCHOOL DIST 86	1.5964	1,330.34
0.0439	36.58	PENSION FUND	0.0366	30.50
0.1907	158.90	COLLEGE DU PAGE 502	0.1794	149.50
		** TIF **		
3.8605	3,216.96	TOTALS	3.7277	3,106.42
2023	**83,330**	**Assessed Value**	**2024**	**83,333**

Mailed to:
JPD OAK BROOK HOLDINGS
ATTN: KYLE W MC DANIEL
109 W 7TH ST. STE 200
GEORGETOWN TX 78626

Property Location:
OAK BROOK RD
OAK BROOK IL 60521

Township Assessor:
YORK
630-627-3354

Tax Code:
6143

Property Index Number:
06-26-400-015

CHANGE OF NAME/ADDRESS:
CALL: 630-407-5900

*** S OF A FACTOR 1.0786**

1st INST PAID May 14, 2025
2nd INST PAID August 18, 2025

TIF Frozen Value	
Fair Cash Value	250,000
Land Value	83,333
+ Building Value	
= Assessed Value	**83,333 ***
x State Multiplier	1.0000
- Equalized Value	83,333
- Residential Exemption	
- Senior Exemption	
- Senior Freeze	
- Disabled Veteran	
- Disability Exemption	
- Returning Veteran Exemption	
- Home Improvement Exemption	
- House Abatement	
= Net Taxable Value	83,333
x Tax Rate	3.7277
= Total Tax Due	3,106.42
- Less Advance Payment	
- Commercial Abatement	
+ PACE Reimbursement	
= Net Due as of 03/30/26	0.00

2024 DuPage County Real Estate Tax Bill
Gwen Henry, CPA, County Collector
421 N, County Farm Road
Wheaton, IL 60187

Office Hours - 8:00 am -4.30 pm, Mon - Fri
Telephone = (630) 407-5900

SUBJECT PROPERTY VERIFICATION

(Complete a separate form for each P.I.N.)

1. Permanent Index Number (P.I.N. from Real Estate Tax Bill): 0626401008
2. Common Address: 2715 Jorie Blvd. Oak Brook, Illinois 60523
3. Provide the Legal Description for each lot as noted on the Plat of Survey as an attachment.
4. Provide the proposed Legal Description for each lot as an attachment.
5. Email the Current and Proposed Legal Description in a Word document to cchiarelli@oak-brook.org

Existing Legal Description: Lot 1, Butler GHQ Subdivision, Document R80-44966

Proposed Legal Description: Lot 1, Oak Brook Reserve Subdivision

The Permanent Index Number, Common Address and Legal information provided has been verified as follows:

DuPage County Records/Research Room At: 630-407-5401 Contact Person:

Only First name of Contact is required. Date called:

I verify that the information provided above is accurate.

Lance Oriti

Printed Name

[redacted]

Signature

Date

4-8-2026

Relationship to Applicant:

SUBJECT PROPERTY VERIFICATION

(Complete a separate form for each P.I.N.)

1. Permanent Index Number (P.I.N. from Real Estate Tax Bill): 0626401009
2. Common Address: 2815 Jorie Blvd. Oak Brook, Illinois 60523
3. Provide the Legal Description for each lot as noted on the Plat of Survey as an attachment.
4. Provide the proposed Legal Description for each lot as an attachment.
5. Email the Current and Proposed Legal Description in a Word document to cchiarelli@oak-brook.org

Existing Legal Description: Lot 1, Butler GHQ Subdivision, Document R80-44966

Proposed Legal Description: Lot 2, Oak Brook Reserve Subdivision

The Permanent Index Number, Common Address and Legal information provided has been verified as follows:

DuPage County Records/Research Room At: 630-407-5401 Contact Person:

Only First name of Contact is required. Date called:

I verify that the information provided above is accurate.

Lance Oriti

Printed Name

[redacted]

Signature

Date

4-8-2026

Relationship to Applicant:

SUBJECT PROPERTY VERIFICATION

(Complete a separate form for each P.I.N.)

1. Permanent Index Number (P.I.N. from Real Estate Tax Bill): 0626401010
2. Common Address: 2915 Jorie Blvd. Oak Brook, Illinois 60523
3. Provide the Legal Description for each lot as noted on the Plat of Survey as an attachment.
4. Provide the proposed Legal Description for each lot as an attachment.
5. Email the Current and Proposed Legal Description in a Word document to cchiarelli@oak-brook.org

Existing Legal Description: Lot 1, Butler GHQ Subdivision, Document R80-44966
Proposed Legal Description: Lot 3, Oak Brook Reserve Subdivision

The Permanent Index Number, Common Address and Legal information provided has been verified as follows:

DuPage County Records/Research Room At: 630-407-5401 Contact Person:

Only First name of Contact is required. Date called:

I verify that the information provided above is accurate.

Lance Oriti
Printed Name

[redacted]
Signature

Date

4-8-2026

Relationship to Applicant:

SUBJECT PROPERTY VERIFICATION

(Complete a separate form for each P.I.N.)

1. Permanent Index Number (P.I.N. from Real Estate Tax Bill): 0626400015
2. Common Address: Oak Brook Road, Illinois 60521
3. Provide the Legal Description for each lot as noted on the Plat of Survey as an attachment.
4. Provide the proposed Legal Description for each lot as an attachment.
5. Email the Current and Proposed Legal Description in a Word document to cchiarelli@oak-brook.org

Existing Legal Description: Lot 2, Butler GHQ Subdivision, Document R80-44966

Proposed Legal Description: Lot 3, Oak Brook Reserve Subdivision

The Permanent Index Number, Common Address and Legal information provided has been verified as follows:

DuPage County Records/Research Room At: 630-407-5401 Contact Person:

Only First name of Contact is required. Date called:

I verify that the information provided above is accurate.

Lance Oriti

Printed Name

[redacted]

Signature

Date

4-8-2026

Relationship to Applicant:

Names of Surrounding Properties within 250' of Oak Brook Reserve

Name of Property Owner	Mailing Address of Property Owner	Property Address	Permanent Index Number
BUTLER NATIONAL GOLF CLUB	2616 S YORK RD OAK BROOK IL 60523	2616 YORK RD OAK BROOK IL 60523	626202002
VILLAGE OF OAK BROOK	1200 OAK BROOK RD OAK BROOK IL 60523	1200 OAK BROOK RD OAK BROOK IL 60523	625300017
FOREST PRESERVE DIST	P O BOX 5000 WHEATON IL 60189	31ST ST OAK BROOK IL 60521	635201006
NATOMA PROPERTIES LLC	15 NATOMA DR OAK BROOK IL 60523-7711	15 NATOMA DR OAK BROOK IL 60523-7711	635207014
RIZVI INVESTMENT GROUP	2005 BLOOMINGDALE RD NO A GLENDALE HTS IL 60139	17 NATOMA DR OAK BROOK IL 60523-7711	635207025
ATLURI, HARVINDER K S & P	19 NATOMA DR OAK BROOK IL 60523	19 NATOMA DR OAK BROOK IL 60523	635207024
ATG TRUST CO	925 S RT 83 ELMHURST IL 60126	22 NATOMA DR OAK BROOK IL 60523-7713	635207023
FORUTAN, SHALA & M	P O BOX 3911 LISLE IL 60532	21 NATOMA DR OAK BROOK IL 60523	635207028
LIYANAPATABENDI, S & C	308 OTTAWA LN OAK BROOK IL 60523-2788	308 OTTAWA LN OAK BROOK IL 60523-2788	635205004
SHIRAZI, NIDA	306 OTTAWA LN OAK BROOK IL 60523-2788	306 OTTAWA LN OAK BROOK IL 60523-2788	635205003
VILLAGE OF OAK BROOK	1200 OAK BROOK RD OAK BROOK IL 60523	1200 OAK BROOK RD OAK BROOK IL 60523	626400016
FOREST GATE HOA	40 FOREST GATE CIR OAK BROOK IL 60523	FOREST GATE CIR OAK BROOK IL 60523	626301016
FOREST GATE HOA	40 FOREST GATE CIR OAK BROOK IL 60523	FOREST GATE CIR OAK BROOK IL 60523	626301017
HUBER JR, GEORGE	17 FOREST GATE CIR OAK BROOK IL 60523	17 FOREST GATE CIR OAK BROOK IL 60523	626301058
GIORNO, CARMEN J	10 FOREST GATE CIR OAK BROOK IL 60523-2129	10 FOREST GATE CIR OAK BROOK IL 60523-2129	626301051
KANG TR, DAVID & CHUNGHEE	16 FOREST GATE CIR OAK BROOK IL 60523	16 FOREST GATE CIR OAK BROOK IL 60523	626301057
EVANS, DWIGHT & CHRISTY	11 FOREST GATE CIR OAK BROOK IL 60523-2129	11 FOREST GATE CIR OAK BROOK IL 60523-2129	626301052
OAK BROOK PARK DIST	1450 FOREST GATE RD OAK BROOK IL 60523	1300 FOREST GATE RD OAK BROOK IL 60523	626303002
OAK BROOK PARK DIST	1450 FOREST GATE RD OAK BROOK IL 60523	1300 FOREST GATE RD OAK BROOK IL 60523	626303001
OAK BROOK PARK DIST	1450 FOREST GATE RD OAK BROOK IL 60523	KENSINGTON RD OAK BROOK IL 60523	626102008
CYGAN, THOMAS S	12 FOREST GATE CIR OAK BROOK IL 60523	12 FOREST GATE CIR OAK BROOK IL 60523	626301053
PAPPAS, PATROKLOS S	3616 SPRING RD OAK BROOK IL 60523	3616 SPRING RD OAK BROOK IL 60523	626301056
MEHTA, TUSHAR	310 OTTAWA LN OAK BROOK IL 60523	310 OTTAWA LN OAK BROOK IL 60523	635205005
PERKOWSKI, JOHN	732 N CASS AVE WESTMONT IL 60559	20 NATOMA DR OAK BROOK IL 60523	635207010

Certification
Surrounding Property Owners

I (we) certify that the names and addresses of all the surrounding property owners including mailing labels submitted with this application are located within a minimum distance of 250 feet in all directions from the perimeter of the subject property and that the number of feet occupied by all public roads, streets, alleys, and public ways has been excluded in computing the 250-foot requirement.

Said names and addresses are as recorded in the office of the County Recorder of Deeds (or the Registrar of Titles of the County) and as appear from the authentic tax records of this County. The property owners as listed have been obtained from within 30 days of the filing of this application.

The surrounding property owners list as submitted herewith and supporting attachments are true to the best of my (our) knowledge and belief.

I (we) give permission to the Village to install public hearing sign(s) on the lot frontages of the subject property as described in the Village Code. In addition to the required application fees, applicant/owner agrees to reimburse the Village for publication costs, recording fees, and any other associated costs or fees within 30 days of billing.

Paul McNaughton
Printed Name of Owner

[redacted]
Signature of Owner

4/8/2026
Date

Manager, JPD
Oak Brook Holdings, LLC Lance Oriti
Printed Name of Applicant

[redacted]
Signature of Applicant

4-7-2026
Date

BILL TO INFORMATION:

Brittany Spizzirri, JLL, as agent for owner
Print Name/Company — Contact Person

Contact Phone

2715 Jorie Blvd. Suite 275, Oak Brook, IL, 60523
Address To be Billed

(630)-418-5584
Alternate Phone

NOTE: If the applicant/owner has not complied with these requirements and notification has not been sent to a neighboring property owner within the 250-foot requirement less than 10 days prior to the scheduled hearing, the hearing on this matter will be postponed to the next regular meeting, or until such time as all neighbors within the 250-foot requirement have been sent proper notification.

FINAL PLAT OF SUBDIVISION

OAK BROOK RESERVE

BEING A SUBDIVISION OF PART OF SECTION 26, TOWNSHIP 39 NORTH, RANGE 11
EAST OF THE THIRD PRINCIPAL MERIDIAN, IN DUPAGE COUNTY, ILLINOIS

SITE SURVEY

PIN: 06-26-401-008
PIN: 06-26-401-009
PIN: 06-26-401-010
PIN: 06-26-401-015

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.

PAGE INDEX:

1. SITE SURVEY
2. SUBDIVISION
3. LOT 1 DETAILS
4. LOT 2 DETAILS
5. LOT 3 DETAILS
6. CERTIFICATION

AFTER RECORDING
RETURN TO:

COMPASS SURVEYING LTD.
2631 GINGER WOODS PARKWAY
SUITE 100
AURORA, IL 60502

GRID NORTH

EASEMENT NOTES

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- 3 BUILDING LINE 60 FEET ON THE WEST LINE OF LOT 2 PER DOCUMENT R71-43495
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- ● SET 7/8" O.D.I.P. UNLESS OTHERWISE NOTED
- ■ SET CONCRETE MONUMENT UNLESS OTHERWISE NOTED
- \+ SET CROSS IN CONCRETE UNLESS OTHERWISE NOTED

MONUMENTS NOT SET WITHIN WATER

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- LIMITS OF LAND PER LEGAL DESCRIPTION
- ADJACENT LAND PARCEL LINE
- EASEMENT LINE
- CENTERLINE
- BUILDING SETBACK LINE
- SECTION LINE
- FLOOD ZONE DIVISION LINE

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N00°06'26"W(R) 24.36'(R)
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FOUND 1" O.D.I.P. (HELD)
FOUND 7/8" O.D.I.P.
S56°34'26"E(R) 424.59'(R)
S58°39'58"E(M) 423.91'(M)
ORIGINAL WESTERN UNITED GAS AND ELECTRIC EASEMENT PER DOCUMENT R79-37290 PARTIALLY ABANDONED AND MODIFIED (SEE NOTE 1)
FOUND 1" O.D.I.P.
VACATED SPRINGFIELD RIGHT-OF-WAY PER DOC. R61-10729
66'
S70°23'58"E(R) 256.19'(R)
S72°21'02"E(M) 255.84'(M)
S02°12'20"E(M) 314.15'(R=M)
N00°06'08"W(R)
50' 50'
S67°57'59"E(R) 492.60'(R)
S69°54'55"E(M) 492.60'(M)
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S39°38'03"E(M) 97.32'(M)
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S57°31'43"E(M) 99.62'(M)
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JORIE BOULEVARD
FOREST GATE ROAD
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LOT 1
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FOUND 7/8" O.D.I.P.
FOUND 1" O.D.I.P.
FOUND 7/8" O.D.I.P.
100'
220.32'
N00°04'40"W(R) 553.61'(R)
N02°10'18"W(M) 529.16'(M)
306.85'
LOT ONE
OAK BROOK VILLAGE COMMONS SUBDIVISION
DOCUMENT NUMBER R74-014102
LOT 2
PRESERVATION RESTRICTION OVER LOT 2, DOCUMENT R80-44966
N88°05'01"E 981.50'
32.93'
167.07'
R=8267.70'(M)
A=49.16'(M)
CH=49.16'(M)
CB=S87°52'34"W(M)
S03°00'02"E(M) 128.10'(M)
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FOUND REBAR 0.19' NORTH & 0.10' WEST
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℄
38N RITE TOWNSHIP 26 26 35 35 38N RITE TOWNSHIP

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PROJ. NO.: 25.0054
1 OF 6
SCALE: 1" = 100'

COMPASS SURVEYING LTD
ALTA SURVEYS ● TOPOGRAPHY ● CONSTRUCTION STAKING
2631 GINGER WOODS PARKWAY, STE. 100
AURORA, IL 60502
PHONE: (630) 820-9100 FAX: (630) 820-7030 EMAIL: ADMIN@CLSURVEYING.COM

PROJECT: OAK BROOK RESERVE

CLIENT / ENGINEER: Kimley»Horn

© 2025 KIMLEY-HORN AND ASSOCIATES, INC.

10814 JOLLYVILLE ROAD, BUILDING IV, SUITE 200
AUSTIN, TX 78759
WWW.KIMLEY-HORN.COM

OWNER: JPD OAK BROOK HOLDINGS, LLC
109 W SEVENTH ST
GEORGETOWN, TX 78626

DATE: 3/10/25 | N/A | DRAWN BY: MRA | CHECKED BY: MP | BOOK N/A PG N/A

NO.	REVISIONS	DATE	BY

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PHONE: (630) 820-9100 FAX: (630) 820-7030 EMAIL: ADMIN@CLSURVEYING.COM

PROJECT: OAK BROOK RESERVE

CLIENT / ENGINEER: Kimley»Horn

© 2025 KIMLEY-HORN AND ASSOCIATES, INC.

10814 JOLLYVILLE ROAD, BUILDING IV, SUITE 200
AUSTIN, TX 78759
WWW.KIMLEY-HORN.COM

OWNER: JPD OAK BROOK HOLDINGS, LLC
109 W SEVENTH ST
GEORGETOWN, TX 78626

DATE: 3/10/25 | N/A | DRAWN BY: MRA | CHECKED BY: MP | BOOK N/A PG N/A

NO.	REVISIONS	DATE	BY

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EAST OF THE THIRD PRINCIPAL MERIDIAN, IN DUPAGE COUNTY, ILLINOIS

SUBDIVISION

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.

AREA SUMMARY

GROSS AREA (TO HEAVY LINES): 3,508,884 SQUARE FEET OR 80.553 ACRES
LESS R.O.W. DEDICATION: 0 SQUARE FEET OR 0 ACRES

NET AREA: 3,508,884 SQUARE FEET OR 80.553 ACRES
(BASED ON MEASURED VALUES)

GRID NORTH

LOT 1
1,045,970 S.F.
24.012 AC.

LOT 2
1,046,002 S.F.
24.013 AC.

LOT 3
1,416,912 S.F.
32.529 AC.

PART OF LOT 2

LOT ONE
OAK BROOK VILLAGE COMMONS SUBDIVISION
DOCUMENT NUMBER R74-014102

PRESERVATION RESTRICTION
OVER LOT 2,
DOCUMENT R80-44966

EXCEPTION

FOREST GATE ROAD

JORIE BOULEVARD

SALT CREEK

OAK BROOK ROAD
(A.K.A. 31ST STREET)
(A.K.A. COUNTY HIGHWAY 34)

FOUND NAIL 0.15' WEST
FOUND 7/8" O.D.I.P.
FOUND 1" O.D.I.P. (HELD)
FOUND REBAR ON LINE
FOUND NAIL
FOUND REBAR 0.14' WEST & HELD NORTH-SOUTH
FOUND REBAR 0.19' NORTH & 0.10' WEST
SET NAIL
SET 7/8" O.D.I.P. 60.0' NORTHWESTERLY ON LINE
SET CROSS 25.00' SOUTH ON LINE EXTENDED
SET 7/8" O.D.I.P. 100.0' WESTERLY ON LINE

ORIGINAL WESTERN UNITED GAS AND ELECTRIC EASEMENT PER DOCUMENT R29-37240 PARTIALLY ABANDONED AND MODIFIED (SEE NOTE 1)

VACATED SPRINGFIELD RIGHT-OF-WAY PER DOC. R61-10729

OTHER FLOOD AREAS ZONE X
SPECIAL FLOOD HAZARD AREAS ZONE AE
FLOODWAY AREAS ZONE AE

B.S.L. H.B.E.
P.S.L. H.B.E.
P.U. & D.E.

BUILDING SETBACK PER BUTLER GHQ SUBDIVISION HEREBY ABROGATED
PARKING SETBACK PER BUTLER GHQ SUBDIVISION HEREBY ABROGATED
SETBACK PER BUTLER GHQ SUBDIVISION HEREBY ABROGATED
PROPOSED B.S.L. H.B.E.

N02°06'49"W(M) 24.36'(M)
N00°06'26"W(R) 24.36'(R)
S02°12'20"E(M) 314.15'(R=M)
N00°09'08"W(R)
S02°08'52"E(M) 1811.01'(M)
N00°05'40"W(R) 1811.05'(R)
N02°10'18"W(M) 529.16'(M)
N00°04'40"W(R) 553.61'(R)
N88°13'48"E(M) 837.41'(M)
N85°40'30"W(R) 838.23'(R)
S56°34'26"E(R) 424.59'(R)
S58°39'58"E(M) 423.91'(M)
S70°23'58"E(R) 256.19'(R)
S72°21'02"E(M) 255.84'(M)
S67°57'59"E(R) 492.60'(R)
S69°54'55"E(M) 492.60'(M)
S53°55'52"E(R) 658.29'(R)
S56°02'38"E(M) 658.04'(M)
S39°38'03"E(M) 97.32'(M)
S37°03'26"E(R) 97.09'(R)
S57°31'43"E(M) 99.62'(M)
S55°22'48"E(R) 99.73'(R)
S77°48'37"E(M) 23.03'(M)
S76°19'55"E(R) 22.69'(R)
S61°41'21"E(M) 17.41'(M)
S60°15'11"E(R) 18.21'(R)
S49°51'02"E(M) 17.90'(M)
S48°25'50"E(R) 17.80'(R)
S38°35'17"E(M) 23.35'(M)
S36°03'11"E(R) 23.38'(R)
S31°30'21"E(R)
S33°40'50"E(M)
283.68'(R)
283.78'(M)
S23°25'52"W(M) 337.84'(M)
S25°30'22"W(R) 337.84'(R)
S11°25'30"W(M) 150.00'(R=M)
S13°30'00"W(R)
S09°30'00"E(R)
S11°34'30"E(M) 200.00'(R=M)
S18°30'00"E(R)
S20°34'30"E(M) 200.00'(R=M)
S04°30'00"E(R)
S06°34'30"E(M) 100.00'(R=M)
S14°00'00"W(R)
S11°55'30"W(M) 100.00'(M)
S27°00'00"W(R)
S24°55'30"W(M) 200.00'(M)
R=8267.70'(M)
A=49.16'(M)
CH=49.16'(M)
CB=S87°52'34"W(M)
S03°00'02"E(M) 128.10'(M)
S00°55'32"E(R) 184.96'(R=M)
N88°02'47"E(M) 399.16'(M)
S02°17'39"E(M) 16.40'(M)
R=8152.87'(M)
A=87.94'(M)
CH=87.94'(M)
CB=N85°26'13"E(M)
N88°05'01"E(M) 908.08'(M)
N89°52'57"W(R) 908.56'(R)
R=8251.30'(M)
A=371.24'(M)
CH=371.21'(M)
CB=S86°25'01"W(M)

LEGEND

- ● SET 7/8" O.D.I.P. UNLESS OTHERWISE NOTED
- ■ SET CONCRETE MONUMENT UNLESS OTHERWISE NOTED
- \+ SET CROSS IN CONCRETE UNLESS OTHERWISE NOTED

MONUMENTS NOT SET WITHIN WATER

ABBREVIATIONS

O.D.I.P. = OUTSIDE DIAMETER IRON PIPE
N = NORTH
S = SOUTH
E = EAST
W = WEST
(R) = RECORD BEARING OR DISTANCE
(M) = MEASURED BEARING OR DISTANCE
(C) = CALCULATED BEARING OR DISTANCE
(D) = DEED BEARING OR DISTANCE
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P.S.L. = PARKING SETBACK LINE
U.E. = UTILITY EASEMENT
D.E. = DRAINAGE EASEMENT
P.U.E. = PUBLIC UTILITY EASEMENT
P.O.C. = POINT OF COMMENCEMENT
P.O.B. = POINT OF BEGINNING
P.U. & D.E. = PUBLIC UTILITY AND DRAINAGE EASEMENT
H.B.E. = HEREBY ESTABLISHED
H.B.G. = HEREBY GRANTED

LINE LEGEND

- LIMITS OF LAND PER LEGAL DESCRIPTION
- ADJACENT LAND PARCEL LINE
- EASEMENT LINE
- CENTERLINE
- BUILDING SETBACK LINE
- SECTION LINE
- FLOOD ZONE DIVISION LINE

38N RNE TOWNSHIP 39N RNE TOWNSHIP
26 26
35 35

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PROJ. NO.: 25.0054
2 OF 6
SCALE: 1" = 100'

COMPASS SURVEYING LTD
ALTA SURVEYS ● TOPOGRAPHY ● CONSTRUCTION STAKING
2631 GINGER WOODS PARKWAY, STE. 100
AURORA, IL 60502
PHONE: (630) 820-9100 FAX: (630) 820-7030 EMAIL: ADMIN@CLSURVEYING.COM

PROJECT: OAK BROOK RESERVE

CLIENT / ENGINEER: Kimley»Horn

© 2025 KIMLEY-HORN AND ASSOCIATES, INC.

10814 JOLLYVILLE ROAD, BUILDING IV, SUITE 200
AUSTIN, TX 78759
WWW.KIMLEY-HORN.COM

OWNER:
JPD OAK BROOK HOLDINGS, LLC
109 W SEVENTH ST
GEORGETOWN, TX 78626

DATE: 3/10/25 | N/A | DRAWN BY: MRA | CHECKED BY: MP | BOOK N/A PG N/A

NO.	REVISIONS	DATE	BY

FINAL PLAT OF SUBDIVISION

OAK BROOK RESERVE

BEING A SUBDIVISION OF PART OF SECTION 26, TOWNSHIP 39 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN DUPAGE COUNTY, ILLINOIS

LOT 1 DETAIL

LINE CHART				
NO.	DISTANCE(M)	BEARING(M)	BEARING(R)	DISTANCE(R)
L1	24.36	N02°06'49"W	N00°06'20"W(R)	24.36'(R)

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

GRID NORTH

LOT 1
1,045,970 S.F.
24.012 AC.

LOT 2
SEE SHEET 4

LOT 3
SEE SHEET 5

PART OF LOT 2

FOUND NAIL 0.15' WEST
FOUND 1" O.D.I.P. (HELD)
FOUND 7/8" O.D.I.P.
FOUND 1" O.D.I.P.
FOUND 7/8" O.D.I.P.
FOUND 1" O.D.I.P.
FOUND 1" O.D.I.P.
FOUND 1" O.D.I.P.
FOUND 1" O.D.I.P.
FOUND 1" O.D.I.P.
FOUND 7/8" O.D.I.P.
FOUND 1" O.D.I.P.
FOUND 1" O.D.I.P.
FOUND 1" O.D.I.P.
FOUND 1" O.D.I.P.
FOUND 7/8" O.D.I.P.
SET 7/8" O.D.I.P. 60.0' NORTHWESTERLY ON LINE

S56°34'26"E(R) 424.59'(R)
S58°39'58"E(M) 423.91'(M)

ORIGINAL WESTERN UNITED GAS AND ELECTRIC EASEMENT PER DOCUMENT 479-11790 PARTIALLY ABANDONED AND MODIFIED (SEE NOTE 1)

VACATED SPRINGFIELD RIGHT-OF-WAY PER DOC. R61-10729

S67°57'59"E(R) 492.60'(R)
S69°54'55"E(M) 492.60'(M)

S53°55'52"E(R) 658.29'(R)
S56°02'38"E(M) 658.04'(M)

S39°38'03"E(M) 97.32'(M)
S37°03'26"E(R) 97.09'(R)

S57°31'43"E(M) 99.62'(M)
S55°22'48"E(R) 99.73'(R)

S77°48'37"E(M) 23.03'(M)
S76°19'55"E(R) 22.69'(R)

S61°41'21"E(M) 17.41'(M)
S60°15'11"E(R) 18.21'(R)

S49°51'02"E(M) 17.90'(M)
S48°25'50"E(R) 17.80'(R)

S38°35'17"E(M) 23.35'(M)
S36°03'11"E(R) 23.38'(R)

S31°30'21"E(R) 285.68'(R)
S33°40'30"E(M) 283.78'(M)

S02°12'20"E(M) 314.15'(R=M)
N00°09'08"W(R)

S02°12'20"E(M) 134.71'
N00°09'08"W(R)

S02°08'52"E(M) 1811.01'(M)
N00°05'40"W(R) 1811.05'(R)

N87°51'08"E 808.35'

N85°39'19"E 208.19'
S04°20'41"E 100.00'
N85°39'19"E 129.47'
S47°48'15"E 30.26'
S03°56'07"E 172.35'
S59°00'05"E 137.43'
S20°15'03"E 149.88'
S23°25'52"W(M) 337.84'(M)
S25°30'22"W(R) 337.84'(R)
S11°25'30"W(M) 150.00'(R=M)
S13°30'00"W(R)

N32°23'09"E 166.88'
S64°38'36"E 48.64'
N66°00'14"E 116.87'
S48°10'21"E 25.87'
S85°44'43"E 48.70'
N63°59'24"E 125.38'
S26°40'46"W 76.31'
N16°44'36"E 66.41'
N76°04'47"E 82.88'
N76°04'47"E 154.26'
S57°36'51"E 297.14'
N03°01'29"W 287.05'
S03°01'29"E 392.13'
S08°20'05"E 85.31'
N80°20'05"W 18.21'
N02°08'05"W 96.58'
S02°08'05"E 22.72'
N23°08'44"W 11.40'
S23°08'44"E 45.27'
CH=218.79' CB=N12°38'24"W R=600.00' A=219.07'
CH=116.02' CB=S07°20'36"E R=599.00' A=116.18'
CH=436.32' CB=N49°00'53"W R=500.00' A=457.50'
CH=458.13' CB=S49°00'53"E R=525.00' A=474.08'
CH=222.59' CB=N70°03'56"W R=1325.00' A=222.86'
CH=200.25' CB=N77°24'57"W R=475.00' A=201.77'
CH=15.64' CB=S61°59'51"W R=20.00' A=15.96'
CH=210.79' CB=S77°24'57"E R=500.00' A=212.39'
CH=58.84' CB=S60°27'35"E R=70.00' A=60.27'
S38°27'05"E 27.41'
N89°35'59"W 15.64'
CH=1359.13' CB=S79°05'58"E R=1300.00' A=1359.58'
CH=228.39' CB=S05°08'58"E R=215.00' A=228.73'
CH=55.84' CB=S08°38'58"E R=215.00' A=55.96'

ACCESS EASEMENT HEREBY GRANTED
WAST WATER EASEMENT HEREBY GRANTED
ACCESS EASEMENT HEREBY GRANTED

OTHER FLOOD AREAS ZONE X
SPECIAL FLOOD HAZARD AREAS ZONE AE
FLOODWAY AREAS ZONE AE
SPECIAL FLOOD HAZARD AREAS ZONE AE

B.S.L. H.B.E.
P.S.L. H.B.E.
P.S.L. H.B.E.
P.S.L. H.B.E.
P.S.L. H.B.E.
P.S.L. H.B.E.
P.S.L. H.B.E.

JORIE BOULEVARD

SALT CREEK

ABBREVIATIONS

O.D.I.P. = OUTSIDE DIAMETER IRON PIPE
N = NORTH
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P.U. & D.E. = PUBLIC UTILITY AND DRAINAGE EASEMENT
H.B.E. = HEREBY ESTABLISHED
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LEGEND

- ● SET 7/8" O.D.I.P. UNLESS OTHERWISE NOTED
- ■ SET CONCRETE MONUMENT UNLESS OTHERWISE NOTED
- \+ SET CROSS IN CONCRETE UNLESS OTHERWISE NOTED

MONUMENTS NOT SET WITHIN WATER

LINE LEGEND

- LIMITS OF LAND PER LEGAL DESCRIPTION
- ADJACENT LAND PARCEL LINE
- EASEMENT LINE
- CENTERLINE
- BUILDING SETBACK LINE
- SECTION LINE
- FLOOD ZONE DIVISION LINE

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PROJ. NO: 25.0054

3 OF 6

SCALE: 1" = 60'

COMPASS SURVEYING LTD
ALTA SURVEYS ● TOPOGRAPHY ● CONSTRUCTION STAKING
2631 GINGER WOODS PARKWAY, STE. 100
AURORA, IL 60502
PHONE: (630) 820-9100 FAX: (630) 820-7030 EMAIL: ADMIN@CLSURVEYING.COM

PROJECT: OAK BROOK RESERVE

CLIENT / ENGINEER: Kimley»Horn

© 2025 KIMLEY-HORN AND ASSOCIATES, INC.

10814 JOLLYVILLE ROAD, BUILDING IV, SUITE 200
AUSTIN, TX 78759
WWW.KIMLEY-HORN.COM

OWNER: JPD OAK BROOK HOLDINGS, LLC
109 W SEVENTH ST
GEORGETOWN, TX 78626

DATE: 3/10/25 | N/A | DRAWN BY: MRA | CHECKED BY: MP | BOOK N/A PG N/A

NO.	REVISIONS	DATE	BY

FINAL PLAT OF SUBDIVISION

OAK BROOK RESERVE

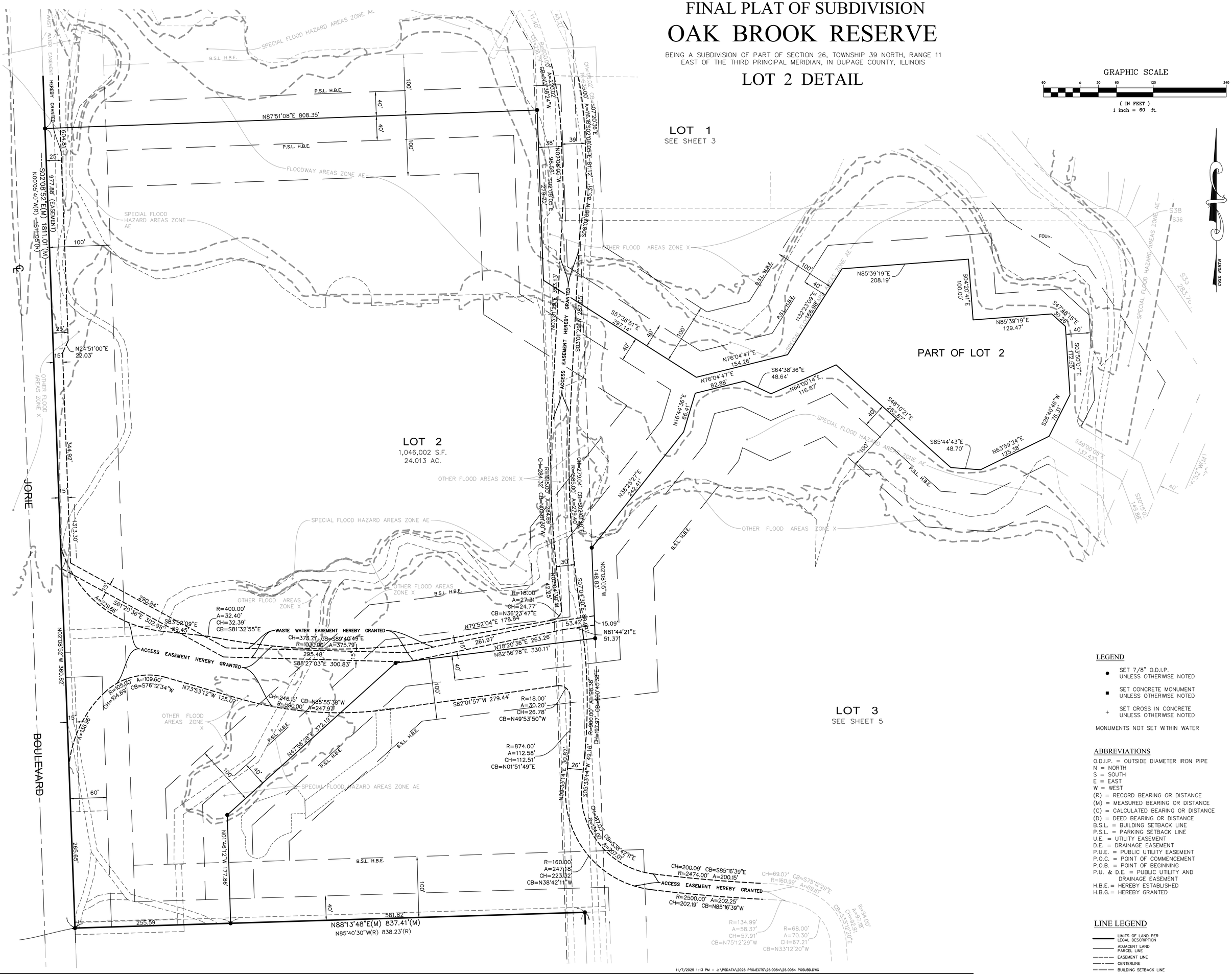
BEING A SUBDIVISION OF PART OF SECTION 26, TOWNSHIP 39 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN DUPAGE COUNTY, ILLINOIS

LOT 2 DETAIL

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.



LEGEND

- ● SET 7/8" O.D.I.P. UNLESS OTHERWISE NOTED
- ■ SET CONCRETE MONUMENT UNLESS OTHERWISE NOTED
- \+ SET CROSS IN CONCRETE UNLESS OTHERWISE NOTED

MONUMENTS NOT SET WITHIN WATER

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H.B.G. = HEREBY GRANTED

LINE LEGEND

- LIMITS OF LAND PER LEGAL DESCRIPTION
- ADJACENT LAND PARCEL LINE
- EASEMENT LINE
- CENTERLINE
- BUILDING SETBACK LINE
- SECTION LINE
- FLOOD ZONE DIVISION LINE

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PROJ. NO. 25.0054 | 4 OF 6 | SCALE: 1" = 60'

COMPASS SURVEYING LTD
ALTA SURVEYS ● TOPOGRAPHY ● CONSTRUCTION STAKING
2631 GINGER WOODS PARKWAY, STE. 100
AURORA, IL 60502
PHONE: (630) 820-9100 FAX: (630) 820-7030 EMAIL: ADMIN@CLSURVEYING.COM

PROJECT: OAK BROOK RESERVE

CLIENT / ENGINEER: Kimley»Horn

© 2025 KIMLEY-HORN AND ASSOCIATES, INC.

10814 JOLLYVILLE ROAD, BUILDING IV, SUITE 200
AUSTIN, TX 78759
WWW.KIMLEY-HORN.COM

OWNER: JPD OAK BROOK HOLDINGS, LLC
109 W SEVENTH ST
GEORGETOWN, TX 78626

DATE: 3/10/25 | N/A | DRAWN BY: MRA | CHECKED BY: MP | BOOK N/A PG N/A

NO.	REVISIONS	DATE	BY

FINAL PLAT OF SUBDIVISION

OAK BROOK RESERVE

BEING A SUBDIVISION OF PART OF SECTION 26, TOWNSHIP 39 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN DUPAGE COUNTY, ILLINOIS

LOT 3 DETAIL

GRAPHIC SCALE
60 0 30 60 120 240
(IN FEET)
1 inch = 60 ft.

LOT 1
SEE SHEET 3

PART OF LOT 2

LOT 2
1,046,002 S.F.
24.013 AC.

LOT 2
SEE SHEET 4

LOT 3
1,416,912 S.F.
32.529 AC.

SALT CREEK

GRID NORTH

SPECIAL FLOOD HAZARD AREAS ZONE AE

OTHER FLOOD AREAS ZONE X

FLOODWAY AREAS ZONE AE

B.S.L. H.B.E.

P.S.L. H.B.E.

ACCESS EASEMENT HEREBY GRANTED

WASTE WATER EASEMENT HEREBY GRANTED

BUILDING SETBACK PER BUTLER GHQ SUBDIVISION HEREBY ABROGATED

PARKING SETBACK PER BUTLER GHQ SUBDIVISION HEREBY ABROGATED

SETBACK PER BUTLER GHQ SUBDIVISION HEREBY ABROGATED

PROPOSED B.S.L. H.B.E.

EXCEPTION

SET 7/8" O.D.I.P. 100.0' WESTERLY ON LINE

SET CROSS 25.00' SOUTH ON LINE EXTENDED

FOUND NAIL

FOUND REBAR 0.19' NORTH & 0.10' WEST

FOUND REBAR 0.14' WEST & HELD NORTH-SOUTH

N88°13'48"E(M) 837.41'(M)
N85°40'30"W(R) 838.23'(R)

N02°10'18"W(M) 529.16'(M)
N00°04'40"W(R) 553.61'(R)

N88°02'47"E(M)
399.16'(M)

S03°00'02"E(M)
128.10'(M)

S00°55'32"E(R)
184.96'(R=M)

S11°25'50"W(M)
150.00'(R=M)
S13°30'00"W(R)

S09°30'00"E(R)
S11°34'30"E(M)
200.00'(R=M)

S16°50'00"E(R)
S20°34'30"E(M)
200.00'(R=M)

S04°30'00"E(R)
S06°34'30"E(M)
100.00'(R=M)

S14°00'00"W(R)
S11°55'30"W(M)
100.00'(M)

S27°00'00"W(R)
S24°55'30"W(M)
200.00'(M)

S23°25'52"W(M) 337.84'(M)
S25°30'22"W(R) 337.84'(R)

ABBREVIATIONS

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MONUMENTS NOT SET WITHIN WATER

LINE LEGEND

- LIMITS OF LAND PER LEGAL DESCRIPTION
- ADJACENT LAND PARCEL LINE
- EASEMENT LINE
- CENTERLINE
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- SECTION LINE
- FLOOD ZONE DIVISION LINE

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PROJ. NO.: 25.0054 | 5 OF 6 | SCALE: 1" = 60'

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PROJECT: OAK BROOK RESERVE

CLIENT / ENGINEER: Kimley»Horn

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AUSTIN, TX 78759
WWW.KIMLEY-HORN.COM

OWNER: JPD OAK BROOK HOLDINGS, LLC
109 W SEVENTH ST
GEORGETOWN, TX 78626

DATE: 3/10/25 | N/A | DRAWN BY: MRA | CHECKED BY: MP | BOOK N/A PG N/A

NO.	REVISIONS	DATE	BY

FINAL PLAT OF SUBDIVISION

OAK BROOK RESERVE

BEING A SUBDIVISION OF PART OF SECTION 26, TOWNSHIP 39 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN DUPAGE COUNTY, ILLINOIS

OWNER'S CERTIFICATE

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

THIS IS TO CERTIFY THAT THE UNDERSIGNED IS THE OWNER OF THE LAND DESCRIBED IN THE ANNEXED PLAT, AND HAS CAUSED THE SAME TO BE SURVEYED AND SUBDIVIDED, AS INDICATED THEREON, FOR THE USES AND PURPOSES THEREIN SET FORTH, AND DOES HEREBY ACKNOWLEDGE AND ADOPT THE SAME UNDER THE STYLE AND TITLE THEREON INDICATED.

THE UNDERSIGNED HEREBY DEDICATES FOR PUBLIC USE THE LANDS SHOWN ON THIS PLAT FOR THOROUGHFARES, STREETS, ALLEYS AND PUBLIC SERVICES; AND HEREBY ALSO RESERVES FOR AND GRANTS EASEMENTS FOR PUBLIC USE AND FOR THE INSTALLATION OF VARIOUS PUBLIC UTILITIES AS DESIGNATED AND/OR AS STATED IN THE UTILITY EASEMENT PROVISIONS WHICH ARE STATED HEREON.

ALL EASEMENTS INDICATED AS PUBLIC UTILITY EASEMENTS ON THIS PLAT ARE RESERVED FOR AND GRANTED TO THE VILLAGE OF OAK BROOK AND TO THOSE PUBLIC AND PRIVATE UTILITY COMPANIES OPERATING WITHIN THE VILLAGE INCLUDING, BUT NOT LIMITED TO, AMERITECH, COMMONWEALTH EDISON COMPANY, NORTHERN ILLINOIS GAS COMPANY, DOWNERS GROVE* OR HINSDALE* SANITARY DISTRICT, AND THEIR SUCCESSORS AND ASSIGNS FOR THE PERPETUAL RIGHT, PRIVILEGE AND AUTHORITY TO INSTALL, CONSTRUCT, RECONSTRUCT, INSPECT, REPLACE, ALTER, ENLARGE, REMOVE, REPAIR, CLEAN, OPERATE AND MAINTAIN VARIOUS UTILITY, TRANSMISSION, DISTRIBUTION, COLLECTION AND DRAINAGE SYSTEMS TOGETHER WITH ANY AND ALL NECESSARY BUFFALO BOXES, CONNECTIONS, HYDRANTS, MANHOLES, CATCH BASINS, PIPES, SANITARY OR STORM SEWERS, SWALES, WATER MAINS, CABLES, WIRES, CONDUITS, TRANSFORMERS, PEDESTALS, AND WITHOUT LIMITATION SUCH OTHER APPURTENANCES OR DEVICES AS MAY BE DEEMED NECESSARY BY SAID VILLAGE OR UTILITY COMPANY UPON, ALONG, UNDER AND THROUGH SAID INDICATED EASEMENTS, TOGETHER WITH RIGHT OF ACCESS ACROSS THE PROPERTY FOR NECESSARY WORKERS AND EQUIPMENT TO DO ANY OF THE ABOVE WORK AND THE RIGHT IS ALSO GRANTED TO CUT DOWN, TRIM OR REMOVE ANY TREES, SHRUBS OR OTHER PLANTS ON THE EASEMENT THAT INTERFERE WITH THE OPERATION OF SEWERS OR OTHER UTILITIES. NO PERMANENT BUILDINGS OR STRUCTURES SHALL BE PLACED ON SAID EASEMENTS, EXCEPT AS REFERENCED ABOVE, BUT SAME MAY BE USED FOR GARDENS, SHRUBS, LANDSCAPING AND OTHER PURPOSES THAT DO NOT THEN OR LATER INTERFERE WITH THE AFORESAID USES OR RIGHTS.

THIS IS TO ALSO CERTIFY THAT THE UNDERSIGNED, AS OWNER OF THE PROPERTY DESCRIBED AS THE SUBDIVISION AND LEGALLY DESCRIBED ON THIS PLAT OF THE SAME NAME, HAVE DETERMINED, TO THE BEST OF MY KNOWLEDGE, THE SCHOOL DISTRICTS IN WHICH EACH OF THE FOLLOWING LOTS LIES:

LOT NUMBER(S)	ELEMENTARY	HIGH SCHOOL
ALL	GRADE SCHOOL DIST 53	HIGH SCHOOL DIST 86

DATED THIS _____ DAY OF _____, A.D., 20_____ .

BY: _____ OWNER'S NAME AND ADDRESS

_____ _____

PRINTED NAME AND TITLE _____

_____

_____

NOTARY CERTIFICATE

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

I, _____, A NOTARY PUBLIC IN AND FOR SAID COUNTY, IN THE STATE AFORESAID, DO HEREBY CERTIFY THAT_____ PERSONALLY KNOWN TO ME TO BE THE SAME PERSONS WHOSE NAMES ARE SUBSCRIBED TO THE AFORESAID INSTRUMENT AS SUCH OWNERS, APPEARED BEFORE ME THIS DAY IN PERSON AND ACKNOWLEDGED THAT THEY SIGNED THE ANNEXED PLAT AS THEIR OWN FREE AND VOLUNTARY ACT FOR THE USES AND PURPOSES THEREIN SET FORTH.

GIVEN UNDER MY HAND AND NOTARIAL SEAL

THIS _____ DAY OF _____, 20_____ .

_____
NOTARY PUBLIC

MORTGAGEE CONSENT

THE UNDERSIGNED, AS MORTGAGEE, UNDER THE PROVISIONS OF CERTAIN MORTGAGE DATED _____ AND RECORDED IN THE RECORDER'S OFFICE OF DUPAGE COUNTY, ILLINOIS, ON THE _____ DAY OF _____, A.D., _____, AS DOCUMENT NUMBER _____ HEREBY CONSENTS TO THE SUBDIVISION STATED HEREIN.

DATED: _____, A.D., 20_____

BY: _____
NAME:
TITLE:

MORTGAGEE NOTARY PUBLIC

STATE OF _____)
)SS
COUNTY OF _____)

I, _____, A NOTARY PUBLIC IN AND FOR THE COUNTY AND STATE AFORESAID, DO HEREBY CERTIFY THAT _____ WHO IS PERSONALLY KNOWN TO ME TO BE THE SAME WHOSE NAME IS SUBSCRIBED TO THE FOREGOING CERTIFICATE, APPEARED BEFORE ME THIS DAY IN PERSON AND ACKNOWLEDGED THAT THEY DID SIGN AND DELIVER THIS INSTRUMENT AS A FREE AND VOLUNTARY ACT FOR THE USES AND PURPOSES HEREIN SET FORTH.

GIVEN UNDER MY HAND AND NOTORIAL SEAL

THIS _____ DAY OF _____, A.D. 20_____

_____
NOTARY PUBLIC

DRAINAGE CERTIFICATE

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

TO THE BEST OF OUR KNOWLEDGE AND BELIEF, THE DRAINAGE OF SURFACE WATERS WILL NOT BE CHANGED BY THE CONSTRUCTION OF SUCH SUBDIVISION OR ANY PART THEREOF, OR, THAT IF SUCH SURFACE WATER DRAINAGE WILL BE CHANGED, REASONABLE PROVISION HAS BEEN MADE FOR COLLECTION AND DIVERSION OF SUCH SURFACE WATERS INTO PUBLIC AREAS, OR DRAINS WHICH THE SUBDIVIDER HAS A RIGHT TO USE, AND THAT SUCH SURFACE WATERS WILL BE PLANNED FOR IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES SO AS TO REDUCE THE LIKELIHOOD OF DAMAGE TO THE ADJOINING PROPERTY BECAUSE OF THE CONSTRUCTION OF THE SUBDIVISION.

DATED THIS _____ DAY OF _____, 20_____ .

OWNER / ATTORNEY: _____

_____
PRINTED NAME AND TITLE

ENGINEER: _____

_____

_____

_____

VILLAGE ENGINEER'S CERTIFICATE

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

I, _____, VILLAGE ENGINEER OF THE VILLAGE OF OAK BROOK, ILLINOIS, HEREBY CERTIFY THAT THE LAND IMPROVEMENTS DESCRIBED IN THE ANNEXED PLAT AND THE PLANS AND SPECIFICATIONS THEREFOR MEET THE MINIMUM REQUIREMENTS OF SAID VILLAGE AND HAVE BEEN APPROVED BY ALL PUBLIC AUTHORITIES HAVING JURISDICTION THEREOF.

DATED AT OAK BROOK, DUPAGE COUNTY, ILLINOIS,

THIS _____ DAY OF _____, 20_____ .

_____
VILLAGE ENGINEER

VILLAGE CLERK'S CERTIFICATE

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

I, _____, VILLAGE CLERK OF THE VILLAGE OF OAK BROOK, ILLINOIS, HEREBY CERTIFY THAT THE ANNEXED PLAT WAS PRESENTED TO AND BY RESOLUTION DULY APPROVED BY THE VILLAGE BOARD OF SAID VILLAGE AT ITS MEETING HELD ON _____, 20____ , AND THAT THE REQUIRED BOND OR OTHER GUARANTEE HAS BEEN POSTED FOR THE COMPLETION OF THE IMPROVEMENTS REQUIRED BY THE REGULATIONS OF SAID VILLAGE.

IN WITNESS WHEREOF I HAVE HERETO SET MY HAND AND THE SEAL OF THE VILLAGE OF OAK BROOK, ILLINOIS,

THIS _____ DAY OF _____, 20_____ .

_____
VILLAGE CLERK

CERTIFICATE AS TO SPECIAL ASSESSMENTS

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

I,_____ , VILLAGE TREASURER OF THE VILLAGE OF OAK BROOK DO HEREBY CERTIFY THAT THERE ARE NO DELINQUENT OR UNPAID CURRENT OR FORFEITED SPECIAL ASSESSMENTS OR ANY DEFERRED INSTALLMENTS THEREOF THAT HAVE BEEN APPORTIONED AGAINST THE TRACT OF LAND INCLUDED IN THE PLAT.

DATED AT OAK BROOK, DUPAGE COUNTY, ILLINOIS,

THIS _____ DAY OF _____, 20_____ .

_____
VILLAGE TREASURER

PLAN COMMISSION CERTIFICATE

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

APPROVED BY THE PLAN COMMISSION OF THE VILLAGE OF OAK BROOK, DUPAGE COUNTY, ILLINOIS, DATED

THIS _____ DAY OF _____, 20_____ .

_____
CHAIRMAN

CERTIFICATE OF TOWNSHIP HIGHWAY COMMISSIONER

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

APPROVED THIS _____ DAY OF _____ , 20_____.

BY:_____
HIGHWAY COMMISSIONER

_____
TOWNSHIP

SANITARY DISTRICT CERTIFICATE

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

I, _____, SECRETARY OF THE _____SANITARY DISTRICT, DUPAGE COUNTY, ILLINOIS, HEREBY CERTIFY THAT THERE ARE NO DELINQUENT OR UNPAID CURRENT OR FORFEITED SPECIAL ASSESSMENTS OR ANY DEFERRED INSTALLMENTS THEREOF THAT HAVE BEEN CONFIRMED AGAINST THE TRACT OF LAND INCLUDED IN THE PLAT.

DATED AT _____,

THIS _____ DAY OF _____, 20_____ .

_____
SECRETARY

WASTE WATER SEWER EASEMENT PROVISIONS

A WASTE WATER EASEMENT IS HEREBY RESERVED FOR AND GRANTED TO THE FLAGG CREEK WATER RECLAMATION DISTRICT FOR ALL AREAS HEREON PLATTED AND DESIGNATED "SANITARY SEWER EASEMENT"; TO CONSTRUCT, INSTALL, RECONSTRUCT, REPAIR, REMOVE, REPLACE, INSPECT, MAINTAIN AND OPERATE WASTE WATER SEWERS. NO ENCROACHMENT OF ANY KIND SHALL BE ALLOWED WITHIN SAID EASEMENT UNLESS THE DISTRICT DETERMINES THAT SAID ENCROACHMENT SHALL NOT INTERFERE WITH THE PROPER FUNCTIONING OF SUCH UTILITY FACILITIES, SUCH AS ENCROACHMENT BY NON-INTERFERING GARDENS, SHRUBS AND OTHER LANDSCAPING MATERIAL. THE DISTRICT MAY ENTER UPON SAID EASEMENT FOR THE USES HEREIN SET FORTH AND HAVE THE RIGHT TO CUT, TRIM OR REMOVE ANY TREES, SHRUBS OR OTHER PLANTS WITHIN THE AREAS DESIGNATED "SANITARY SEWER EASEMENT"WHICH ENCROACH ON AND INTERFERE WITH THE CONSTRUCTION, INSTALLATION, RECONSTRUCTION, REPAIR, REMOVAL, REPLACEMENT, MAINTENANCE AND OPERATION OF THE SANITARY SEWER SYSTEM AND SUCH FACILITIES APPURTENANT THERETO.

FOLLOWING ANY WORK TO BE PERFORMED BY THE DISTRICT IN THE EXERCISE OF ITS EASEMENT RIGHTS GRANTED HEREIN, THE DISTRICT SHALL HAVE NO OBLIGATION WITH RESPECT TO SURFACE RESTORATION, INCLUDING BUT NOT LIMITED TO, THE LAWN OR SHRUBBERY; PROVIDED, HOWEVER, THAT THE DISTRICT SHALL BE OBLIGATED FOLLOWING MAINTENANCE WORK TO BACKFILL AND MOUND ANY TRENCH CREATED SO AS TO RETAIN SUITABLE DRAINAGE, TO COLD PATCH ANY ASPHALT OR CONCRETE SURFACE, TO REMOVE ALL EXCESS DEBRIS AND SPOIL AND TO LEAVE THE MAINTENANCE AREA IN A GENERALLY CLEAN AND WORKMANLIKE CONDITION.

ACCESS EASEMENT

AN ACCESS EASEMENT IS HEREBY RESERVED FOR AND GRANTED TO ALL OWNERS WITHIN THIS SUBDIVISION, THEIR HEIRS, SUCCESSORS AND ASSIGNS, OVER ALL AREAS HEREON PLATTED AND DESIGNATED "ACCESS EASEMENT " FOR THE PURPOSE OF INGRESS AND EGRESS TO A PUBLIC ROADWAY.

STORM WATER DETENTION AND WATER QUALITY

FUTURE SITE IMPROVEMENTS THAT ADD OR MODIFY IMPERVIOUS COVER MAY REQUIRE NEW OR EXPANDED WATER QUALITY TREATMENT AND STORMWATER DETENTION CONTROLS. THE DEVELOPER IS REQUIRED TO OBTAIN APPROPRIATE PERMITS FROM THE VILLAGE OF OAK BROOK PRIOR TO FUTURE DEVELOPMENT.

COUNTY CLERK CERTIFICATE

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

I,_____, COUNTY CLERK OF DUPAGE COUNTY, ILLINOIS, DO HEREBY CERTIFY THAT THERE ARE NO DELINQUENT GENERAL TAXES, NO UNPAID FORFEITED TAXES, AND NO REDEEMABLE TAX SALES AGAINST ANY OF THE LAND INCLUDED IN THE ANNEXED PLAT.

GIVEN UNDER MY HAND AND SEAL AT WHEATON, DUPAGE COUNTY, ILLINOIS,

THIS _____ DAY OF _____, 20_____ .

_____
COUNTY CLERK

COUNTY RECORDER'S CERTIFICATE

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

THIS INSTRUMENT _____WAS FILED FOR RECORD IN THE RECORDER'S OFFICE OF DUPAGE COUNTY, ILLINOIS, ON THE _____ DAY OF _____, 20_____ , AT _____O'CLOCK _____M., AND WAS RECORDED IN BOOK _____ OF PLATS ON PAGE _____ .

_____
RECORDER OF DEEDS

SURVEYOR'S CERTIFICATE

STATE OF ILLINOIS)
) SS
COUNTY OF KANE)

THIS IS TO CERTIFY THAT I, SCOTT C. KREBS, REGISTERED ILLINOIS LAND SURVEYOR NO. 3509, HAVE SURVEYED AND SUBDIVIDED THE FOLLOWING DESCRIBED PROPERTY:

LOT 1 AND LOT 2 (EXCEPT THAT PART FALLING 31ST STREET, DESCRIBED IN DOCUMENT R 2001 183464), IN BUTLER GHQ SUBDIVISION, BEING A SUBDIVISION OF PART OF SECTION 26, TOWNSHIP 39 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED AUGUST 6, 1980 AS DOCUMENT R80-44966, IN DUPAGE COUNTY, ILLINOIS AS SHOWN BY THE ANNEXED PLAT, WHICH IS A CORRECT REPRESENTATION OF SAID SURVEY AND SUBDIVISION. ALL DISTANCES ARE SHOWN IN FEET AND DECIMALS THEREOF. I FURTHER CERTIFY THAT ALL REGULATIONS ENACTED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF OAK BROOK RELATIVE TO PLATS AND SUBDIVISIONS HAVE BEEN COMPLIED WITH IN PREPARATION OF THIS PLAT. I FURTHER CERTIFY THAT THE LAND IS WITHIN THE VILLAGE OF OAK BROOK WHICH HAS ADOPTED AN OFFICIAL COMPREHENSIVE PLAN AND IS EXERCISING THE SPECIAL POWERS AUTHORIZED BY THE STATE OF ILLINOIS ACCORDING TO 65 ILCS 5/11-12-6 AS HERETOFORE AND HEREAFTER AMENDED.

I FURTHER CERTIFY THAT THIS SITE FALLS WITHIN "OTHER AREAS ZONE X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) "OTHER FLOOD AREAS ZONE X" (AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD) "SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD ZONE A"(NO BASE FLOOD ELEVATIONS DETERMINED) AND "FLOODWAY AREAS IN ZONE AE (THE FLOODWAY IS THE CHANNEL OF A STREAM PLUS ANY ADJACENT FLOODPLAIN AREAS THAT MUST BE KEPT FREE OF ENCROACHMENT SO THAT THE 1% ANNUAL CHANCE FLOOD CAN BE CARRIED WITHOUT SUBSTANTIAL INCREASES IN FLOOD HEIGHT HEIGHTS) AS DEFINED BY THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL NUMBER 0179J, MAP NUMBER 17043C0179J HAVING AN EFFECTIVE DATE OF AUGUST 1, 2019.

GIVEN UNDER MY HAND AND NOTARIAL SEAL

THIS _____ DAY OF _____, 20_____ .

COMPASS SURVEYING LTD
PROFESSIONAL DESIGN FIRM
LAND SURVEYOR CORPORATION NO. 184-002778
LICENSE EXPIRES 4/30/2027

BY:_____
SCOTT C. KREBS
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3509
LICENSE EXPIRES 11/30/2026

SURVEYOR'S AUTHORIZATION TO RECORD

STATE OF ILLINOIS)
) SS
COUNTY OF KANE)

I HEREBY DESIGNATE ANY REPRESENTATIVE OF THE VILLAGE OF OAK BROOK, TO RECORD THIS PLAT, A TRUE COPY OF WHICH HAS BEEN RETAINED BY ME TO ASSURE NO CHANGES HAVE BEEN MADE TO SAID PLAT.

DATED THIS _____DAY OF_____, 20_____,
AT AURORA, KANE COUNTY, ILLINOIS.

COMPASS SURVEYING LTD
PROFESSIONAL DESIGN FIRM
LAND SURVEYOR CORPORATION NO. 184-002778
LICENSE EXPIRES 4/30/2027

BY:_____
SCOTT C. KREBS
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3509

EXPIRES 11/30/2026

11/7/2025 1:13 PM - J:\PSDATA\2025 PROJECTS\25.0054\25.0054 POSUBD.DWG

PROJ NO.: 25.0054

6 OF 6

SCALE: 1" = 100'

COMPASS SURVEYING LTD
ALTA SURVEYS ● TOPOGRAPHY ● CONSTRUCTION STAKING
2631 GINGER WOODS PARKWAY, STE. 100
AURORA, IL 60502
PHONE: (630) 820-9100 FAX: (630) 820-7030 EMAIL: ADMIN@CLSURVEYING.COM

PROJECT: OAK BROOK RESERVE

CLIENT / ENGINEER:
Kimley»Horn
© 2025 KIMLEY-HORN AND ASSOCIATES, INC.
10814 JOLLYVILLE ROAD, BUILDING IV, SUITE 200
AUSTIN, TX 78759
WWW.KIMLEY-HORN.COM

OWNER:
JPD OAK BROOK HOLDINGS, LLC
109 W SEVENTH ST
GEORGETOWN, TX 78626

DATE: 3/10/25 | N/A | DRAWN BY: MRA | CHECKED BY: MP | BOOK N/A PG N/A

NO.	REVISIONS	DATE	BY

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BUTLER GHQ SUBDIVISION

Book 98
Page 91

R80-44966

BEING A SUBDIVISION OF PART OF SECTION 26, TOWNSHIP 39 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN IN THE VILLAGE OF OAK BROOK, DuPAGE COUNTY, ILLINOIS.

CORPORATE PLAZA SUB UNIT 2 (DOC NO R72 66895)

CORPORATE PLAZA SUB UNIT 1 (DOC NO R70 37311)

SLY & ELLY ROW LINE OF JORIE BLVD

VACATED JORIE BLVD (DOC NO R72-21725)

LOT 2 IN OAK BROOK INV CO ASSM'T PLAT NO 3 (DOC NO R64-26332)

NE COR OF LOT 3

CENTER OF SECTION 26

CENTER OF SECTION 25

SCALE 1"=100'

CONTINUATION (NO SCALE)

CENTERTHREAD OF SALT CREEK

LEGEND

0.00'	MEASURED DATA
(0.00')	RECORD, DEED OR PREVIOUSLY MEASURED DATA BY OTHERS*
	LIMITS OF SUBDIVISION
	SECTION LINE
	QUARTER SECTION LINE
	QUARTER, QUARTER SECTION LINE OR CENTER LINE
	EXISTING R.O.W. LINE OR EASEMENT LINE
	EDGE OF WATER
	FLOOD PLAIN LINE
26 35	QUARTER SECTION CORNER

I.P. AT ALL CORNERS

* "BY OTHERS" AS SHOWN HEREON REFERS TO A PLAT OF SURVEY PREPARED BY CONSDER, TOWNSEND AND ASSOCIATES, DATED JUNE 7, 1977 AND KNOWN AS THEIR ORDER NO. 77-05-239.

SEE BELOW

SEE CONTINUATION ABOVE

LOT 74.480 Acs

LOT 2 IN OAK BROOK INVESTMENT COMPANY ASSESSMENT PLAT NO 3 (DOC NO R64-26333)

LOT 3 IN OAK BROOK INVESTMENT COMPANY ASSESSMENT PLAT NO 5 (DOC NO R64-26333)

LOT 1 IN OAK BROOK INVESTMENT COMPANY ASSESSMENT PLAT NO 5 (DOC NO R64-26333)

LOT 2 IN BUTLER COMPANY SPRING ROAD SUBDIVISION UNIT ONE (DOC NO R71 41555)

LOT ONE IN OAK BROOK VILLAGE COMMONS DOC NO R74-14102

LOT 2 7.078 Acs.±

LOT 6 IN PLAT OF LANDS OF F.D AND J.F. BUTLER (DOC NO 1070737)

AUTUMN OAKS UNIT ONE Doc No R73-5825

OAK BROOK VILLAGE GREEN SUBDIVISION Doc No R71 45495

INTN'L ASSOC OF Y'S MEN'S CLUBS ASSM'T PLAT Doc No R67-39100

HUNTERS TRAILS WEST Doc No. R75-32184

PAUL BUTLER OWNERS ASSESSMENT PLAT No 1 Doc No 154010

FORMER T.R MOULMAN PROPERTY

FOREST GATE ROAD

OAK BROOK (31ST STREET) ROAD

JORIE BLVD

SPRING ROAD

GINGER CREEK

FLOOD PLAIN LINE

WATERCOURSE DRAINAGE, ACCESS AND MAINTENANCE EASEMENT PER DOC. Nº R80 44967

15' DRAINAGE EASEMENT PER DOC No. R80-44967

10' EASEMENT PER DOC No R80-39562

20' EASEMENT PER DOC No R80-39563

10' BICYCLE & PEDESTRIAN PATH EASEMENT PER DOC. NO. R80-42105

BICYCLE AND PEDESTRIAN PATH EASEMENT PER DOC No R80-42105

15' STORM DRAINAGE EASEMENT PER DOC Nos R73-30798 & R73-43495

15' STORM DRAINAGE EASMT PER DOC No R71-28548

33' EASEMENT FOR PUBLIC UTILITIES AND INGRESS AND EGRESS (EXCEPT THE EASTERLY 10' AND THE NORTHERLY 15') AND 10' NO ACCESS EASEMENT PER DOC. NO. R80-42107

33' EASEMENT FOR INGRESS & EGRESS (DOC NO R74-14102)

66' EASEMENT GRANTED TO ILLINOIS BELL TELEPHONE CO PER DOC NO 491058 & VACATED SPRING ROAD PER DOC Nº R74-32790 Nº R61-10729

100' BUILDING SET-BACK LINE

40' PARKING SET-BACK LINE

ROADWAY IS SUBJECT TO RESTRICTIONS PROVIDED IN ORD. No. S-409 UPON ANY DEVELOPMENT OF LOT 1.

FOR LOT 2 RESTRICTIONS SEE ABOVE

N. Line Of The S. 350' As Described In Doc. Nº R78-31533

LOT 2 RESTRICTION

RESTRICTION HEREBY DECLARED THAT LOT 2 SHALL BE KEPT, MAINTAINED AND PRESERVED IN ITS NATURAL STATE, AND, EXCEPT FOR HIKING TRAILS AND BICYCLE AND BRIDLE PATHS, THE EXISTING ROADWAY OR A REPLACEMENT THEREOF, AN ENTRANCE WAY INSTALLATION INCLUDING SIGNS, GATE, GUARD HOUSE AND VEHICULAR TURN AROUND AREA NEAR THE INTERSECTION OF SAID ROADWAY AND 31st ST., PUBLIC UTILITIES AND PUBLIC ROAD IMPROVEMENTS ALL OF WHICH SHALL BE SUBJECT TO PRIOR WRITTEN APPROVAL OF THE VILLAGE OF OAK BROOK (WHICH APPROVAL SHALL NOT BE UNREASONABLY WITHHELD) NO STRUCTURE OR IMPROVEMENTS OF ANY KIND, WHETHER TEMPORARY OR FERMANENT SHALL BE ERECTED OR PERMITTED ON THIS LOT, NOR SHALL ANY USE BE MADE OF ANY PORTION THEREOF, FOR VEHICULAR PARKING, THEATRICAL OR MUSICAL PRESENTATIONS OR PERFORMANCES, PICNICKING, CAMPING, OR SIMILAR ACTIVITIES.

REVISIONS CONT'D. AT RIGHT

REVISED : 11-13-79
REVISED : 11-2-79
REVISED : 5-11-79
MISC. REVISIONS : 4-16-79
REV. FLOOD PLAIN LINE : 3-9-79

REVISED: 5-16-80
REVISED: 4-17-80
REVISED: 3-19-80
REVISED: 3-12-80
REVISED: 3-6-80
REVISED: 3-5-80
REVISED: 3-4-80

BOLLINGER, LACH AND ASSOC., INC.
1010 JORIE BLVD
OAK BROOK, IL 60521
312-323-1385

REGISTERED PROFESSIONAL ENGINEERS ILLINOIS WISCONSIN INDIANA MICHIGAN

REGISTERED LAND SURVEYORS ILLINOIS WISCONSIN

1/3

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BUTLER GHQ SUBDIVISION

BEING A SUBDIVISION OF PART OF SECTION 26, TOWNSHIP 39 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN IN THE VILLAGE OF OAK BROOK, DuPAGE COUNTY, ILLINOIS.

CERTIFICATE AS TO SPECIAL ASSESSMENTS

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

I, _____, VILLAGE TREASURER OF THE VILLAGE OF OAK BROOK, DO HEREBY CERTIFY THAT THERE ARE NO DELINQUENT OR UNPAID CURRENT OR FORFEITED SPECIAL ASSESSMENTS OR ANY DEFERRED INSTALLMENTS THEREOF THAT HAVE BEEN APPORTIONED AGAINST THE TRACT OF LAND INCLUDED IN THE PLAT.

DATED AT OAK BROOK, DUPAGE COUNTY, ILLINOIS, THIS 7 DAY OF _____, 19__.

_____
TREASURER

PLAN COMMISSION CERTIFICATE

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

APPROVED BY THE PLAN COMMISSION OF THE VILLAGE OF OAK BROOK, DUPAGE COUNTY, ILLINOIS, THIS 21ST DAY OF MAY, 19 [illegible].

_____
CHAIRMAN SIGNED 7-11-80

VILLAGE CLERK'S CERTIFICATE

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

I, Marianne Lorenzini, VILLAGE CLERK OF THE VILLAGE OF OAK BROOK, ILLINOIS, HEREBY CERTIFY THAT THE ANNEXED PLAT WAS PRESENTED TO AND BY RESOLUTION DULY APPROVED BY THE VILLAGE BOARD OF SAID VILLAGE AT ITS MEETING HELD ON _____, 19_____, AND THAT THE REQUIRED BOND OR OTHER GUARANTEE HAS BEEN POSTED FOR THE COMPLETION OF THE IMPPOVEMENTS REQUIRED BY THE REGULATIONS OF SAID VILLAGE.

IN WITNESS WHEREOF I HAVE HERETO SET BY HAND AND THE SEAL OF THE VILLAGE OF OAK BROOK, ILLINOIS, THIS 24th DAY OF July, 1980

Marianne Lorenzini
VILLAGE CLERK

VILLAGE ENGINEER'S CERTIFICATE

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

I, DALE L. DURFEE JR. VILLAGE ENGINEER OF THE VILLAGE OF OAK BROOK ILLINOIS, HEREBY CERTIFY THAT THE LAND IMPROVEMENTS DESCRIBED IN THE ANNEXED PLAT AND THE PLANS AND SPECIFICATIONS THEREFOR MEET THE MINIMUM REQUIREMENTS OF SAID VILLAGE AND HAVE BEEN APPROVED BY ALL PUBLIC AUTHORITIES HAVING JURISDICTION THEREOF.

DATED AT OAK BROOK, DUPAGE COUNTY, ILLINOIS, THIS 23rd DAY OF JULY, 19 80

Dale L. Durfee Jr.

PLAT CERTIFICATE

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

APPROVED BY THE BOARD OF SUPERVISORS OF DUPAGE COUNTY, ILLINOIS, THIS _____ DAY OF _____, 19_____.

_____
PLAT OFFICER

COUNTY CLERK CERTIFICATE

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

I, Jay C. Bennett Jr. COUNTY CLERK OF DUPAGE COUNTY, ILLINOIS, DO HEREBY CERTIFY THAT THERE ARE NO DELINQUENT GENERAL TAXES, NO UNPAID FORFEITED TAXES, AND NO REDEEMABLE TAX SALES AGAINST ANY OF THE LAND INCLUDED IN THE ANNEXED PLAT.

GIVEN UNDER MAY HAND AND SEAL AT WHEATON, DUPAGE COUNTY, ILLINOIS, THIS 9th DAY OF July, 19 80

Jay C. Bennett Jr.
COUNTY CLERK

COUNTY RECORDER'S CERTIFICATION

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

THIS INSTRUMENT R80-44966 WAS FILED FOR RECORD IN THE RECORDER'S OFFICE OF DUPAGE COUNTY, ILLINOIS, ON THE 6th DAY OF Aug., A.D. 1980, AT 11:15 O'CLOCK A M., AND WAS RECORDED IN BOOK 98 OF PLATS ON PAGE 91.

George R. Pudlat
RECORDER OF DEEDS

For Details of this
State Letter
See Doc R80-44966

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

THIS IS TO CERTIFY THAT THE UNDERSIGNED IS THE OWNER OF THE LAND DESCRIBED IN THE ANNEXED PLAT, AND HAS CAUSED THE SAME TO BE SURVEYED AND SUBDIVIDED, AS INDICATED THEREON, FOR THE USES AND PURPOSES THEREIN SET FORTH, AND DOES HEREBY ACKNOWLEDGE AND ADOPT THE SAME UNDER THE STYLE AND TITLE THEREON INDICATED.

THE UNDERSIGNED HEREBY DEDICATES FOR PUBLIC USE THE LANDS SHOWN ON THIS PLAT FOR THOROUGHFARES, STREETS, ALLEYS AND PUBLIC SERVICES; AND HEREBY ALSO RESERVES FOR AND GRANTS EASEMENTS FOR PUBLIC USE AND FOR THE INSTALLATION OF VARIOUS PUBLIC UTILITIES AS DESIGNATED AND/OR AS STATED IN THE UTILITY EASEMENT PROVISIONS WHICH ARE STATED HEREON.

ALL EASEMENTS INDICATED AS PUBLIC UTILITY EASEMENTS ON THIS PLAT ARE RESERVED FOR AND GRANTED TO THE VILLAGE OF OAK BROOK AND TO THOSE PUBLIC UTILITY COMPANIES OPERATION UNDER FRANCHISE FROM THE VILLAGE OF OAK BROOK INCLUDING BUT NOT LIMITED TO ILLINOIS BELL TELEPHONE COMPANY, NORTHERN ILLINOIS GAS COMPANY, COMMONWEALTH EDISON COMPANY, HINSDALE SANITARY DISTRICT

AND THEIR SUCCESSORS AND ASSIGNS FOR THE PERPETUAL RIGHT, PRIVILEGE AND AUTHORITY TO CONSTRUCT, RECONSTRUCT, REPAIR, INSPECT, MAINTAIN AND OPERATE VARIOUS UTILITY, TRANSMISSION AND DISTRIBUTION SYSTEMS AND INCLUDING STORM AND/OR SANITARY SEWERS TOGETHER WITH ANY AND ALL NECESSARY MANHOLES, CATCH BASINS, CONNECTIONS, APPLIANCES AND OTHER STRUCTURSS AND APPURTENANCES AS MAY BE DEEMED NECESSARY BY SAID VILLAGE, OVER UPON, ALONG, UNDER AND THROUGH SAID INDICATED EASEMENTS, TOGETHER WITH RIGHT OF ACCESS ACROSS THE PROPERTY, FOR NECESSARY MEN AND EQUIPMENT TO DO ANY OF THE ABOVE WORK AND THE RIGHT IS ALSO GRANTED TO CUT DOWN, TRIM OR REMOVE ANY TREES, SHRUBS OR OTHER PLANTS ON THE EASEMENT THAT INTERFERE WITH THE OPERATION OF THE SEWERS OR OTHER UTILITIES. NO PERMANENT BUILDINGS OR TREES SHALL BE PLACED ON SAID EASEMENTS, BUT THEY MAY BE USED FOR GARDENS, SHRUBS, LANDSCAPING AND OTHER PURPOSES THAT DO NOT THEN OR LATER INTERFERE WITH THE AFORESAID USES OR RIGHTS. THE LOCATION OF UTILITY INSTALLATIONS WITHIN THE EASEMENT SHALL BE SUBJECT TO THE APPROVAL OF THE VILLAGE OF OAK BROOK, AS TO DESIGN AND LOCATION. ALL INSTALLATIONS ARE SUBJECT TO THE ORDINANCES OF THE VILLAGE OF OAK BROOK.

PRESIDENT

BUTLER COMPANY, AN ILLINOIS CORP, OAK BROOK, ILLINOIS
ADDRESS

DATED THIS 9TH DAY OF JULY, 1980

OWNER EFFECTIVE JULY 11, 1980 - McDONALD'S CORPORATION, A DELAWARE CORPORATION, DATED THIS 24th DAY OF July, 1980.

BY: [illegible]
VICE PRESIDENT

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

I, [illegible], A NOTARY PUBLIC IN AND FOR SAID COUNTY, IN THE STATE AFORESAID, DO HEREBY CERTIFY THAT Paul Butler PERSONALLY KNOWN TO ME TO BE THE SAME PERSONS WHOSE NAMES ARE SUBSCRIBED TO THE AFORESAID INSTRUMENT AS SUCH OWNERS, APPEARED BEFORE ME THIS DAY IN PERSON AND ACKNOWLEDGED THAT THEY SIGNED THE ANNEXED PLAT AS THEIR OWN FREE AND VOLUNTARY ACT FOR THE USES AND PURPOSES THEREIN SET FORTH.

GIVEN UNDER MY HAND AND NOTARIAL SEAL THIS 9th DAY OF July, 1980.

[illegible]
NOTARY PUBLIC

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

I, _____, A NOTARY PUBLIC IN AND FOR SAID COUNTY, IN THE STATE AFORESAID, DO HEREBY CERTIFY THAT _____ PERSONALLY KNOWN TO ME TO BE THE SAME PERSON(S) WHOSE NAMES ARE SUBSCRIBED TO THE AFORESAID INSTRUMENT AS SUCH OWNER(S) EFFECTIVE JULY 11, 1980, APPEARED BEFORE ME THIS DAY IN PERSON AND ACKNOWLEDGED THAT THEY SIGNED THE ANNEXED PLAT AS THEIR OWN FREE AND VOLUNTARY ACT FOR THE USES AND PURPOSES THEREIN SET FORTH.

GIVEN UNDER MY HAND AND NOTARIAL SEAL THIS _____ DAY OF _____, 19____.

_____
NOTARY PUBLIC

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

I, ROBERT F. WAITE, CLERK ~~SECRETARY~~ OF THE HINSDALE SANITARY DISTRICT, DUPAGE COUNTY, ILLINOIS, HEREBY CERTIFY THAT THERE ARE NO DELINQUENT OR UNPAID CURRENT OR FORFEITED SPECIAL ASSESSMENTS OR ANY DEFERRED INSTALLMENTS THEREOF THAT HAVE BEEN CONFIRMED AGAINST THE TRACT OR LAND INCLUDED IN THE PLAT.

DATED AT HINSDALE, ILLINOIS, THIS TENTH DAY OF JULY, 1980

Robert F. Waite
~~SECRETARY~~
CLERK

STATE OF ILLINOIS)
) SS
COUNTY OF DuPAGE)

THIS IS TO CERTIFY THAT I, WALTER A. BOLLINGER, REGISTERED ILLINOIS LAND SURVEYOR NO. 35-1979, HAVE SURVEYED AND SUBDIVIDED THE FOLLOWING DESCRIBED PROPERTY:

Those parts of lots 1, 2 and 3, taken as a tract, in Oak Brook Investment Company Assessment Plat No. 3, of parts of section 26, township 39 north, range 11, east of the 3rd principal meridian according to plat thereof recorded July 23, 1964 per document No. R64-26333 lying east of Jorie Blvd., per dedications recorded August 30, 1971 per document No. R71-43495 and May 30, 1973 per document No. R73-30748 and lying south of those parts thereof described as follows:

Beginning at the northeast corner of said lot 3; thence N. 27°-50'-10" W. along the east line of said lot 2, a distance of 430.63 feet (record 430.71 feet) to an angle point in the east line of said lot 2; thence N. 0°-02'-0" E., along the east line of lot 2, a distance of 803.24 feet, more or less, to a point on the south line of Jorie Blvd. as dedicated in corporate plaza subdivision unit one, as per plat thereof recorded October 14, 1970 as document No. R70-37311, and vacated per plat of vacation recorded April 28, 1972 per document No. R72-21725, said point being 76.69 feet arc-measure along said southerly line northeasterly of the southwest corner of said Jorie Blvd.; thence southwesterly along the southerly line of said vacated Jorie Blvd., being also an arc of a circle, convex to the northwest, having a radius of 474 feet the chord thereof, having a bearing of S. 40°-46'-46" W. and a length of 76.60 feet, an arc-distance of 76.69 feet to the most southerly corner of vacated Jorie Blvd., aforesaid; thence N. 0°-02'-0" E. along the west line and the west line extended north of said vacated Jorie Blvd., a distance of 188.23 feet to the southerly line of Jorie Blvd. as dedicated in Corporate Plaza Subdivision Unit Two, as per plat thereof, recorded August 10, 1972 as document No. R72-46895; thence south and west along the southerly and easterly lines of Jorie Blvd., as dedicated per document No. R72-46895 the following two (2) curves, courses and distances: (1) southwesterly along an arc of a circle, being convex to the northwest, having a radius of 330.82 feet, the chord thereof, having a bearing of S. 39°-41'-19" W. and a length of 423.47 feet, an arc-distance of 459.54 feet to a point of tangency; (2) thence S. 0°-06'-20" E., a distance of 868.86 feet; thence S. 56°-34'-26" E., a distance of 424.59 feet; thence S. 70°-23'-58" E., a distance of 256.19 feet; thence S. 67°-57'-55" E., a distance of 40.38 feet, more or less, to a point in the easterly line of said lot 3, which point is 243.64 feet S. 27°-50'-10" E. of the northeast corner of said lot 3; thence N. 27°-50'-10" W., a distance of 243.64 feet to the place of beginning, in DuPage County, Illinois.

Also: Lot 2 in Butler Company Spring Road Subdivision Unit One, being a subdivision of part of lot 6 in Oak Brook Investment Company Assessment Plat No. 3, of part of section 26, aforesaid, according to plat thereof recorded September 17, 1971 per document No. R71-47555, in DuPage County, Illinois.

Also: Lot 4 in Oak Brook Investment Company Assessment Plat No. 3, being a subdivision of Section 26, aforesaid according to plat thereof recorded July 23, 1964 per document No. R64-26333, in DuPage County, Illinois.

Also: The lands formerly owned by T. A. Mohlman, being that part of the SE 1/4 of section 26, aforesaid described as follows: commencing at the SW corner of said SE 1/4 of Section 26; thence N. 0°-06'-20" W. measured (N. 0°14' W. deed) along the west line of said SE 1/4 of Section 26, a distance of 1,195.2 feet measured (1,195.7 feet deed) to an iron pipe for a place of beginning; thence continuing N. 0°-06'-20" W. measured (N. 0°-14' W. deed) along the west line of SE 1/4 of Section 26, a distance of 364.4 feet; thence S. 88°-13'-45" E., a distance of 660.0 feet measured (651.1 feet deed) to the centerline of vacated Spring Road; thence S. 0°-04'-55" E. along said centerline, a distance of 338.9 feet; thence N. 85°-15'-12" W. measured (N. 85°-23' W. deed), a distance of 309.5 feet measured (300.0 feet deed); thence S. 84°-59'-48" W. measured (S. 84°-52' W. deed), a distance of 352.3 feet to the place of beginning in DuPage County, Illinois.

Also: That part of lot 6 in plat of lands of F.O. and J.F. Butler, Town of York, DuPage County, Illinois, of parts of sections 25 and 26, township 39 north, range 11, east of the 3rd principal meridian as per plat thereof recorded February 13, 1912 as document No. 107037 lying west of the center thread of Salt Creek and south of the following described boundary line: commencing at the center of said section 25; thence S. 89°-44'-33" W. along the south line of the northwest 1/4 of said section 25, a distance of 937.89 feet; thence S. 0°-15'-27" E. at right angles to the last described line, a distance of 51.80 feet; thence S. 89°-44'-33" W., parallel with the north line of the southwest 1/4 of said section 25, a distance of 790.62 feet to the place of beginning of said boundary line; thence continuing S. 89°-44'-33" W. along said parallel line a distance of 898.31 feet, more or less, to a point on the west line of the southwest 1/4 of said section 25, said point being 51.80 feet S. 0°-05'-55" E. of the west quarter corner of said section 25; thence S. 89°-28'-02" W., parallel with the north line of the southeast 1/4 of said section 26, a distance of 570.75 feet to the centerthread of Salt Creek; thence southerly along the centerthread of Salt Creek the following eight (8) courses and distances: (1) S. 7°-27'-27" E., a distance of 59.91 feet; (2) thence S. 22°-59'-47" W., a distance of 402.00 feet; (3) thence S. 9°-18'-58" W., a distance of 100.98 feet; (4) thence S. 1°-41'-03" E., a distance of 92.01 feet; (5) thence S. 5°-43'-56" E., a distance of 102.84 feet; (6) thence S. 12°-54'-23" W., a distance of 200.81 feet; (7) thence S. 18°-31'-18" W., a distance of 101.79 feet; (8) thence S. 30°-37'-59" W., a distance of 164.77 feet; thence N. 31°-30'-21" W., a distance of 283.68 feet; thence N. 36°-03'-11" W., a distance of 23.38 feet; thence N. 48°-25'-50" W., a distance of 17.80 feet; thence N. 60°-15'-11" W., a distance of 18.21 feet; thence N. 76°-19'-55" W., a distance of 22.69 feet; thence N. 55°-22'-48" W., a distance of 99.73 feet; thence N. 37°-43'-26" W., a distance of 97.09 feet; thence N. 53°-55'-52" W., a distance of 658.29 feet; thence N. 67°-57'-55" W., a distance of 452.22 feet, more or less, to a point on the east line of lot 3 in Oak Brook Investment Company Assessment Plat No. 3, as per plat thereof, recorded July 23, 1964 as document No. R64-26333, said point being 243.64 feet S. 27°-50'-10" E. of the northeast corner of said lot 3, all in DuPage County, Illinois.

Also lot 2 in Oak Brook Village Green Subdivision, being a subdivision of the southwest 1/4 of section 26 and lots 1 and 5 in Oak Brook Investment Company Assessment Plat No. 3 of part of said section 26, township 39 north, range 11 east of the third principal meridian in Du Page County, Illinois.

Except therefrom all that part lying within existing Oak Brook Road (31st Street) as dedicated per document number 296980 in the Recorder's Office of Du Page County, Illinois.

Said parcel of land herein described contains 81.558 acres, more or less.

AS SHOWN BY THE ANNEXED PLAT, WHICH IS A CORRECT REPRESENTATION OF SAID SURVEY AND SUBDIVISION. ALL DISTANCES ARE SHOWN IN FEET AND DECIMALS THEREOF. I FURTHER CERTIFY THAT ALL REGULATIONS ENACTED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF OAK BROOK RELATIVE TO PLATS AND SUBDIVISIONS HAVE BEEN COMPLIED WITH IN PREPARATION OF THIS PLAT. I FURTHER CERTIFY THAT THE LAND IS WITHIN THE VILLAGE OF OAK BROOK WHICH HAS ADOPTED A VILLAGE COMPREHENSIVE PLAN AND MAP AND IS EXCERCISING THE SPECIAL POWERS AUTHORISED BY DIVISION 12 OF ARTICLE 11 OF THE ILLINOIS MUNICIPAL CODE AS AMENDED. I FURTHER CERTIFY THAT THE LANDS SHOWN ON THIS PLAT ARE SITUATED WITHIN 500 FEET OF ANY SURFACE DRAIN OR WATER COURSE SERVING A TRIBUTARY AREA OF 640 ACRES OR MORE.

GIVEN UNDER MY HAND AND SEAL AT Oak Brook, ILLINOIS, THIS 6th DAY OF March, A.D., 1980

Walter A. Bollinger

REVISED 3-6-80
REVISED: 11-2-79

BOLLINGER, LACH AND ASSOC., INC.
1010 JORIE BLVD
OAK BROOK, IL 60521
312 323-1365

REGISTERED PROFESSIONAL ENGINEERS ILLINOIS WISCONSIN INDIANA MICHIGAN
REGISTERED LAND SURVEYORS ILLINOIS WISCONSIN

2/3

UNOFFICIAL COPY

R80-44966

TOPOGRAPHIC MAP

BUTLER GHQ SUBDIVISION

BEING A SUBDIVISION OF PART OF SECTION 26 , TOWNSHIP 39 NORTH , RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN IN THE VILLAGE OF OAK BROOK , DuPAGE COUNTY , ILLINOIS.

BENCH MARK — BENT R.R. SPIKE IN P.P. @ N.E. CORNER OF 31st ST. & SPRING RD., ELEV. = 696.83

STATE OF ILLINOIS)
) ss
COUNTY OF DU PAGE)

I, WALTER A. BOLLINGER, ILLINOIS REGISTERED LAND SURVEYOR, NO. 35-1979, HEREBY CERTIFY THAT THE PLAT SHOWN HEREON IS A CORRECT REPRESENTATION OF A TOPOGRAPHIC SURVEY PREFORMED AT AND UNDER MY DIRECTION.

GIVEN UNDER MY HAND AND SEAL AT Oak Brook, ILLINOIS, THIS 12th DAY OF March, A.D. 19 80.

Walter A. Bollinger

WALTER A. BOLLINGER REGISTERED LAND SURVEYOR 35-1979 ILLINOIS

Revised: 3-12-80
Revised: 11-2-79

3/3

BOLLINGER, LACH AND ASSOC., INC.
1010 JORIE BLVD.
OAK BROOK, IL 60521
312-323-1385

REGISTERED PROFESSIONAL ENGINEERS ILLINOIS WISCONSIN INDIANA MICHIGAN
REGISTERED LAND SURVEYORS ILLINOIS, WISCONSIN

ITEM 8.A.7.
BOARD OF TRUSTEES MEETING
SAMUEL E. DEAN BOARD ROOM
BUTLER GOVERNMENT CENTER
1200 OAK BROOK ROAD
OAK BROOK, ILLINOIS
630-368-5000

AGENDA ITEM

Board of Trustees Special Meeting
of
June 16, 2026

SUBJECT: Ordinance S-1741, An Ordinance Approving a Planned Development to Allow Enclosed Outdoor Dining and a Fitness Studio for the Property Located at 1211-1315 22nd Street, Oak Brook, IL 60523

FROM: Rebecca Von Drasek, Development Services Director

BUDGET SOURCE/BUDGET IMPACT: N/A

RECOMMENDED MOTION: I move that the Village Board concur with the recommendation from the Planning & Zoning Commission and approve Ordinance S-1741 approving the requested Planned Development in accordance with the accompanying standards for the property located at 1211-1315 22nd Street to permit and allow the construction of a fitness studio and a permanently enclosed outdoor dining, within the O-3, Office District subject to the following:

Compliance with Plans: The fitness studio use, operation and enclosed outdoor dining will be in substantial compliance with the plans and documents as submitted, except for minor changes approved by the Development Services Director and Village Manager in accordance with Section 13-15-8 of the Zoning Ordinance.

Sign proposals shall comply with applicable sign code regulations of the Oak Brook zoning ordinance unless otherwise modified or varied.

Background/History:
Franklin Oak Brook 22, LLC, the property owner, has submitted an application requesting approval of a Planned Development ("PD") to enclose outdoor dining for STK and allow a fitness studio, Solidcore, to operate in O-3, Office District. The request is to utilize an existing outdoor eating area and to allow a fitness studio to occupy a retail space. The subject property is improved with an existing office building with first floor retail. Instead of processing this case with multiple requests for variations before the Planning & Zoning Commission, the planned development submittal incorporates all of these elements into a single request that can be reviewed and evaluated as a unified development project. At the April 14, 2026 Village Board meeting, the applicant presented for the preliminary Board review.

On June 3, 2026 the Planning & Zoning Commission held the required public hearing and completed its review and deliberations on an application. The standards for a planned development were addressed in writing. They were also addressed as part of the presentation at the public hearing. At the public hearing, no members of the public spoke in favor or in opposition to the request.

The departures from standards being proposed as part of this application are identified and detailed in the supplemental information from the petitioner and are as follows: 1. *Use*: Section 13-10D-1 To allow the fitness studio to operate in a retail space. 2. *Setback.* Section 13-10D-3. To allow a reduction in the required setback from 100' to 87' from the property line.

By a vote of 8 to 0, the Planning & Zoning Commission found that the applicant had addressed all of the required planned development standards and recommended approval of the proposed development subject to certain conditions below.

1. Compliance with Plans: The fitness studio use, operation and enclosed outdoor dining will be in substantial compliance with the plans and documents as submitted, except for minor changes approved by the Development Services Director and Village Manager in accordance with Section 13-15-8 of the Zoning Ordinance.
2. Sign proposals shall comply with applicable sign code regulations of the Oak Brook zoning ordinance unless otherwise modified or varied.

Recommendation:

Staff recommends that the Village Board approve the Planned Development for the construction of a fitness studio and a permanently enclosed outdoor dining area, as recommended by the Planning and Zoning Commission by a vote of 8-0, including the proposed departures, and subject to compliance with the applicable standards and the conditions outlined in the Chair's recommendation letter dated June 4, 2026.

Attachments:

1. 2026-ZO-PUD-EX-S-1741
2. Exhibits - BOT 6-16-26

THE VILLAGE OF OAK BROOK
COOK AND DUPAGE COUNTIES, ILLINOIS

ORDINANCE
NUMBER 2026-ZO-PUD-EX-S-1741

AN ORDINANCE APPROVING A PLANNED DEVELOPMENT TO ALLOW ENCLOSED OUTDOOR DINING AND A FITNESS STUDIO FOR THE PROPERTY LOCATED AT 1211-1315 22ND STREET, OAK BROOK, IL 60523

LAURENCE E. HERMAN, Village President
NETASHA SCARPINITI, Village Clerk

JOHN ANOS
NAVEEN JAIN
MICHAEL MANZO
MELISSA MARTIN
A. SURESH REDDY
EDWARD TIESENGA

Village Board

Published in pamphlet form by authority of the
President and the Board of Trustees of the Village of Oak Brook
on this 16th day of June 2026

ORDINANCE NO. 2026-ZO-PUD-EX-S-1741

AN ORDINANCE
APPROVING A PLANNED DEVELOPMENT TO ALLOW ENCLOSED OUTDOOR DINING AND A FITNESS STUDIO FOR THE PROPERTY LOCATED AT 1211-1315 22ND STREET, OAK BROOK, IL 60523

PIN(s): 06-26-100-014

WHEREAS, the Village of Oak Brook (hereinafter the "Village") is a municipal corporation with authority provided for and granted pursuant to the Illinois Municipal Code to exercise certain powers and perform certain functions pertaining to its local government and affairs;

WHEREAS, the Village has in full force and effect a codified set of those ordinances of the Village which are of a general and permanent nature, which said codified set is known and designated as the Village Code of the Village of Oak Brook, as amended (the "Village Code");

WHEREAS, the Village is authorized by the Illinois Municipal Code, 65 ILCS 5/11-13-5, to vary its zoning regulations where there are practical difficulties or particular hardship in observing those regulations for the use, construction, or alteration of buildings or structures or the use of land;

WHEREAS, Kelsea Neal Nolot, of Elrod Friedman LLP (the "Applicant") on behalf of and with the consent of Franklin Oak Brook 22, LLC (the "Owner"), the owner of certain real property located in the Village's O-3 Office District, commonly known as 1211-1315 22nd Street, Oak Brook, Illinois, identified by Permanent Index Nos. 06-26-100-014, which property is legally described in Exhibit A, attached hereto and incorporated herein (the "Subject Property"), submitted an application ("Application"), attached hereto and incorporated herein as Exhibit B, requesting approval of Planned Development to enclose outdoor dining for STK and allow a fitness studio, Solidcore, to operate at the Subject Property (the "Planned Development");

WHEREAS, as part of the Planned Development, Applicant is requesting certain departures from Village Code to: (i) allow a fitness studio to operate in a retail space; and (ii) allow a reduction in the required setback from 100' to 87' from the property line as otherwise required by Section 13-10D-3.

WHEREAS, On April 14, 2026, the Village President and Board of Trustees (collectively the "Corporate Authorities") conducted a preliminary, pre-application review of the proposed Planned Development, at which time the Corporate Authorities directed the Village's Development Services Director to prepare a report on the Application for the Village's Planning & Zoning Commission (the "Commission"), and referred the Application to the Commission for the purpose of conducting a public hearing;

WHEREAS, On June 3, 2026, the Commission conducted a duly noticed public hearing for the purpose of hearing and considering testimony on the Applicant's request for approval of the Planned Development which resulted in overall positive findings and a recommendation to the Corporate Authorities for approval of the same, (the "Commission's Recommendation"; attached to this Ordinance as Exhibit C);

WHEREAS, after careful consideration of the foregoing, the Corporate Authorities of the Village of Oak Brook find that the approval of the Planned Development has no detrimental impact on the health, welfare or safety of the public in general and finds that the Applicant has met his burden in demonstrating the grounds for the requested relief including the demonstration of practical difficulties or particular hardship in the application of the Village's Zoning Regulations.

NOW, THEREFORE, BE IT RESOLVED by the Village President and Board of Trustees of the Village of Oak Brook, Cook and DuPage Counties, Illinois as follows:

Section One – Recitals. The Corporate Authorities hereby find that all of the recitals hereinbefore stated as contained in the preamble to this Ordinance are full, true and correct and do hereby, by reference, incorporate and make them part of this Ordinance as legislative findings.

Section Two -- Planned Development Approval. Pursuant to Section 13-15-5D of the Village Zoning Ordinance and subject to the conditions set forth in this Ordinance, the requested Planned Development shall be, and is hereby, approved for the Subject Property.

Section Three -- Site Development and Use Departures. Pursuant to Section 13-15-4 of the Zoning Ordinance, and subject to the conditions and restrictions set forth in this Ordinance, the President and Board of Trustees hereby approve the following site development and use departures for the proposed Planned Development:

A. To allow a fitness studio to operate in a retail space within the O-3 Office District; and

B. To allow a setback of 87' from the property line in lieu of the 100' otherwise required by Section 13-10D-3 of the Village Code.

Section Four -- Conditions of Approval. The approvals granted in this Ordinance shall be, and they are each hereby, subject to, conditioned upon, and limited by the following conditions, the material violation of any of which shall, in the reasonable discretion of the President and Board of Trustees, be grounds for the repeal and revocation of the approvals granted herein in accordance with the procedures set forth herein, and with respect to any portion of the Planned Development that has not received a certificate of occupancy from the Village or is not subject to a valid, active building permit issued by the Village:

1.Compliance with Plans: The fitness studio use (Exhibit D) operation and enclosed outdoor dining (Exhibit E) will be in substantial compliance with the plans and documents as submitted, except for minor changes approved by the Development Services Director and Village Manager in accordance with Section 13-15-8 of the Zoning Ordinance.

2. Signage. Sign proposals shall comply with applicable sign code regulations of the Oak Brook Zoning Ordinance unless otherwise modified or varied.

3. Applicable Codes. The Applicant shall meet all Village Ordinance requirements at the time of building permit application except as specifically varied or waived or otherwise approved in this Ordinance.

4. No Authorization of Work. This Ordinance does not authorize commencement of any work on the Subject Property. Except as otherwise specifically provided in writing in

advance by the Development Services Director, no work of any kind may be commenced on the Subject Property pursuant to the approvals granted in this Ordinance unless and until all conditions of this Ordinance precedent to that work have been fulfilled and after all permits, approvals, and other authorizations for the work have been properly applied for, paid for, and granted in accordance with applicable law.

5. Compliance with Laws. Except as otherwise provided in this Ordinance, all applicable ordinances and regulations of the Village shall apply to the Subject Property. Further, the Planned Development and use of the Subject Property shall be in compliance with all laws and regulations of all other federal, state, and local governments and agencies having jurisdiction over the Subject Property.

6. Fees and Costs.

1. Applicant shall be responsible for paying all applicable fees relating to the approval of this Ordinance.

2. Applicant shall pay all fees applicable to Applicant's Planned Development and use of the Subject Property after the approval of this Ordinance.

3. Applicant shall reimburse the Village for all of the Village's reasonable costs (including, without limitation, engineering, planning, and legal expenses) incurred in connection with the review, consideration, and approval of this Ordinance.

4. Applicant shall reimburse the Village for all of the Village's reasonable costs (including without limitation engineering, planning, and legal expenses) incurred in connection with the implementation or enforcement of this Ordinance by the Village following the approval hereof.

5. Any amount owed by Applicant under this Section that is not paid within 60 days after delivery of a demand in writing for such payment along with a reasonably detailed invoice for such costs, shall, along with interest and the costs of collection, become a lien upon the Subject Property (or that portion of the Subject Property to which the unpaid amount relates), and the Village shall have the right to foreclose such lien in the name of the Village as in the case of foreclosure of liens against real estate.

Section Six – Amendments. Unless otherwise expressly stated in this Ordinance, any minor or non-minor amendment to any provision of this Ordinance may be granted only pursuant to the procedures, and subject to the standards and limitations, provided in the Zoning Ordinance for the granting of such planned development amendments.

Section Seven -- Failure to Comply with Conditions. Upon failure or refusal of the Applicant to comply with any or all of the material conditions, restrictions, or provisions of this Ordinance, the approvals granted pursuant to this Ordinance will, at the sole discretion of the President and Board of Trustees, by ordinance duly adopted after written notice has been provided to the Applicant at least 15 days before the ordinance is adopted, be revoked and become null and void.

In the event of a conflict between the language of this Ordinance and the Exhibits attached hereto, the language of this Ordinance will control.

Section Eight – Severability. If any section, paragraph, clause or provision of this Ordinance shall be held invalid, the invalidity thereof shall not affect any of the other provisions of this Ordinance.

Section Nine -- Conflict Clause. All ordinances, parts of ordinances or board actions in conflict herewith are hereby repealed to the extent of such conflict.

Section Ten – Penalty. Any person violating the terms and conditions of this Ordinance shall, following prior notice thereof by the Village to such offending person and such opportunity to correct such violation(s) as the Village may determine appropriate, be subject to a penalty not exceeding $750.00, with each and every day that such violation of this Ordinance is allowed to remain in effect being deemed a complete and separate offense. In addition, the appropriate authorities of the Village may take such other actions they deem proper to enforce the terms and conditions of this Ordinance, including, without limitation, an action in equity to compel compliance with its terms. Any person violating the terms of this Ordinance shall be subject, in addition to the foregoing penalties, to the payment of court costs and reasonable attorneys' fees of the Village.

Section Eleven -- Effective Date, Publication & Recording

A. This Ordinance will be effective only upon the occurrence of all of the following events:

1. Passage by the President and Board of Trustees in the manner required by law;

2. Publication in pamphlet form in the manner required by law;

3. The recordation of this Ordinance in the Office of the DuPage County Recorder. The Applicant will bear the full cost of this recordation. This Ordinance will be recorded against all lots comprising the Subject Property.

[Remainder of page intentionally left blank; roll call vote to follow]

PASSED THIS 16th day of June 2026.

Ayes: _____

Nays: _____

Absent: _____

APPROVED THIS 16th day of June 2026.

_____
LAURENCE E. HERMAN,
Village President

ATTEST:

_____
NETASHA SCARPINITI,
Village Clerk

EXHIBIT A

LEGAL DESCRIPTION

LOT 1 IN THE MANU LIFE SUBDIVISION, BEING A RESUBDIVISION OF PART OF LOT 6 IN OAK BROOK INVESTMENT COMPANY ASSESSMENT PLAT NUMBER 4, OF PART OF THE NORTHWEST ¼ OF SECTION 26, TOWNSHIP 39 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT OF MANU LIFE SUBDIVISION RECORDED AUGUST 8, 1978 AS DOCUMENT R78-74138, IN DUPAGE COUNTY, ILLINOIS

Common Address: 1211-1315 22nd Street, Oak Brook, Illinois

PIN(s): 06-26-100-014

EXHIBIT B

APPLICATION

Record No: PD-26-3

Planned Development

Status: Active

Submitted On: 4/17/2026

Primary Location

1301 22ND ST
OAK BROOK, IL 60523

Owner

FRANKLIN OAK BROOK 22 LLC
SPRING RD 1900 OAK BROOK , IL 60523

Applicant

Kelsea Nolot
[redacted]
[redacted]
350 N Clark St
Second Floor
Chicago, Illinois 60654

Project Information

Type of Property*

Commercial

Development Type*

New Planned Development

Number of Waivers and/or Variations requested*

2

Number of Street Frontages*

1

General Location - Legal Address/s

1301 West 22nd Street

Zoning District*

O-3

Property Interest of the Applicant*

Owner's Agent

Owner of Record*

Franklin Oak Brook 22, LLC

Phone*

[redacted]

Owner Address*

1900 Spring Road, Suite 100, Oak Brook, Illinois 60523

Owner Email Address*

[redacted]

Name of Applicant*

Kelsea Neal Nolot

Applicant's Phone*

[redacted]

Applicant's Address*

350 North Clark Street, Second Floor,
Chicago, Illinois, 60654

Applicant Email Address*

[redacted]

Acknowledgement

I (we) certify that all of the above statements and the statements contained in any papers or plans submitted herewith are true to the best of my (our) knowledge and belief. I (we) give permission to the Village to install public hearing signs on the lot frontages of the above subject property as described in the Village Code. In addition to the above fees, applicant agrees to reimburse the Village for all recoverable costs within 30 days of billing.

Signature of Applicant*

Kelsea Neal Nolot
Apr 14, 2026

Date*

04/17/2026

If the applicant/Agent is not the owner of record, a written statement authorizing approval of the proposed planned development application is required from the property owner in addition to their signature above and supporting documents. * Note: Plus all applicable third party costs and recoverable expenses. ** List each waiver or variation on a separate sheet with applicable fees calculated.

Subject Property Verification

Permanent Index Number*

626100014

Common Address*

1211-1315 W 22ND ST OAK BROOK IL 60523-2006

EXHIBIT C

COMMISSION'S RECOMMENDATION

BUTLER GOVERNMENT CENTER
1200 OAK BROOK ROAD
OAK BROOK, ILLINOIS 60523

June 4, 2026

Village President and Board of Trustees
Village of Oak Brook
1200 Oak Brook Road
Oak Brook, IL 60523

Subject: Case No: 2026-5-ZO-PUD – OB22 – Franklin Partners 1211-1315 22nd Street

Dear Village President and Board of Trustees:

Background
At its meeting on June 3, 2026 the Planning & Zoning Commission held the required public hearing on a petition from Kelsea Neal Nolot, Elrod Friedman LLP, representative for the owners of the property – Franklin Oak Brook 22, LLC, seeking approval of a planned development to enclose outdoor dining for STK and allow a fitness studio, Solidcore to operate in O-3 District.

The subject multi-use buildings are located at 1211-1315 22nd Street in the O-3 Office District.

The applicant provided a preliminary presentation on the proposed project before the President and Board of Trustees on April 14, 2026 and comments were provided to the applicant by the Village Board. They presented again as a referral on May 12, 2026. The application moved forward pending a thorough review and recommendation by the Planning & Zoning Commission.

Waivers and Variations: The Planned Development process allows an applicant to request waiver of and variations from Village zoning laws that are necessary for the construction of the desired project. The following waivers and variations were requested.

1. *Use*: Section 13-10D-1 To allow the fitness studio to operate in a retail space.

2. *Setback.* Section 13-10D-3. To allow a reduction in the required setback from 100’ to 87’ from the property line.

Public Comment
All interested parties were notified of the public meeting. No one spoke in support of or in opposition to the request at the hearing.

Planning & Zoning Commission Discussion and Recommendation
The standards for a planned development were addressed as part of the presentation at the public hearing and were addressed in detail in writing in the case file.

The Planning & Zoning Commission reviewed and deliberated on the applicant's request and

By a vote of 8 to 0, the Planning & Zoning Commission found that the applicant had addressed all of the required planned development standards and recommended approval of the proposed development subject to certain conditions below.

1. Compliance with Plans: The fitness studio use, operation and enclosed outdoor dining will be in substantial compliance with the plans and documents as submitted, except for minor changes approved by the Development Services Director and Village Manager in accordance with Section 13-15-8 of the Zoning Ordinance.

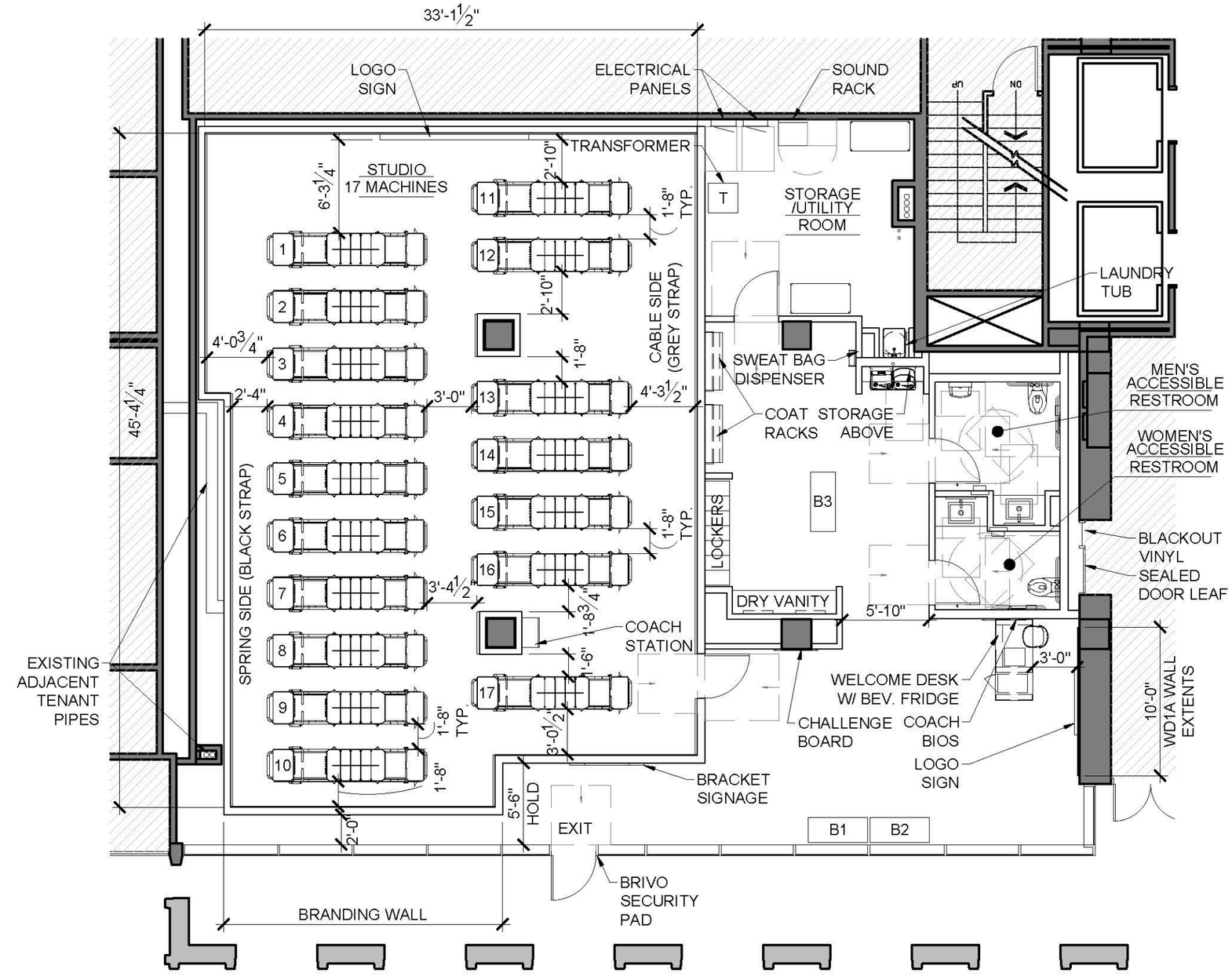
2. Sign proposals shall comply with applicable sign code regulations of the Oak Brook zoning ordinance unless otherwise modified or varied.

Very truly yours,

Wayne Ziemer
Chairman
Planning & Zoning Commission

EXHIBIT D

SOLIDCORE FLOOR PLAN



LEGEND
EXISTING PARTITION
NEW PARTITION
NOT IN CONTRACT (NIC)
SQ. FOOTAGE CALCULATIONS
+/-3,082 RSF

N 01 FLOOR PLAN
1/8" = 1'-0"

CLIENT
[solidcore]

[solidcore] OAK BROOK, IL

FLOOR PLAN

DXU ARCHITECTS
412 S. Wells Street • 2nd Floor • Chicago • IL • 60607
P: 312.955.0334 • dxuarch.com

DATE 03-09-2026
SHEET NO. TF

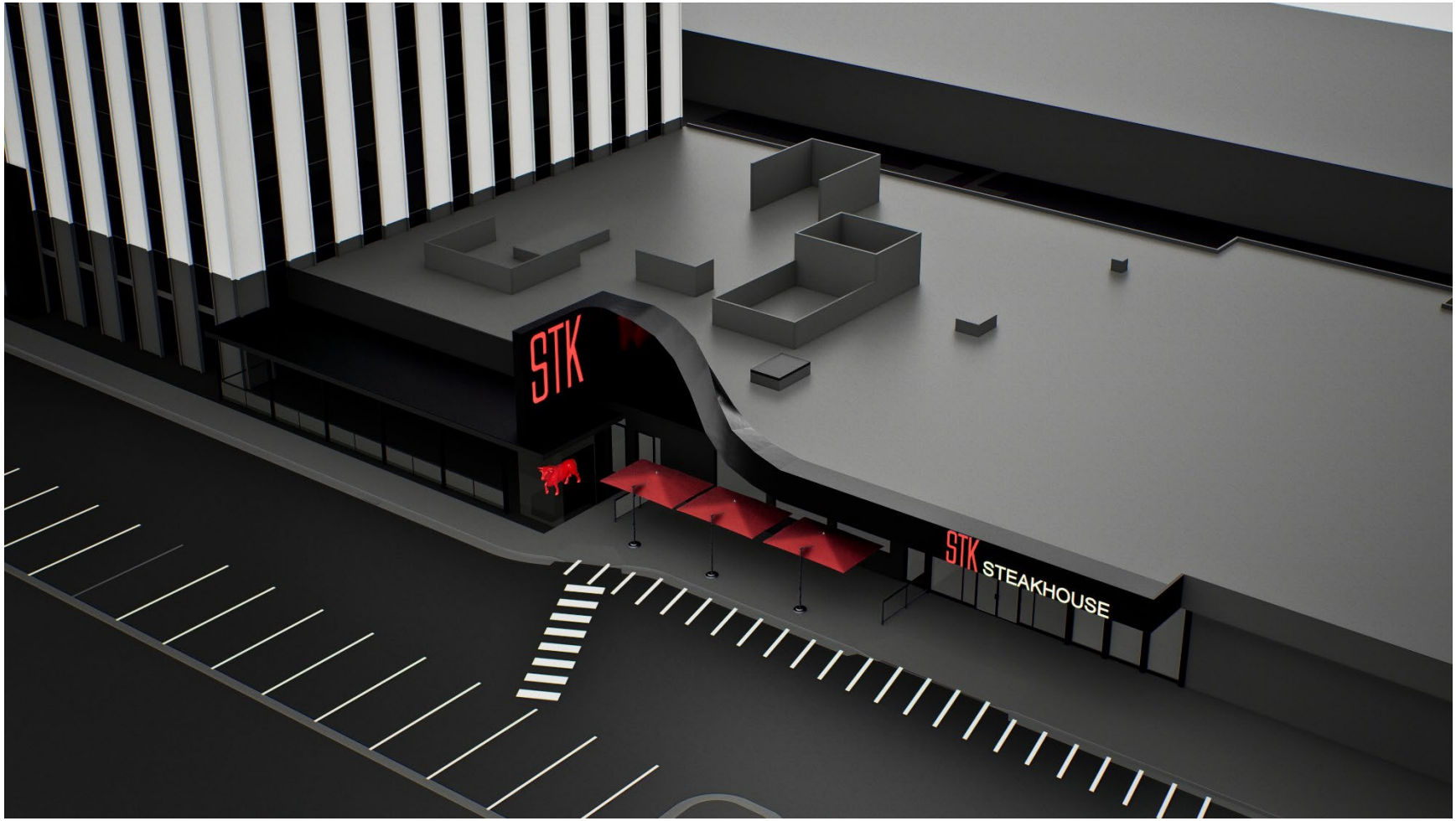
© DxU 2026

PLOT DATE: 3/9/2026 11:49 AM PLOTTED BY: SEAN JACKSON

EXHIBIT E

ENCLOSED OUTDOOR DINING EXHIBITS

STK
STK STEAKHOUSE


STK
STK STEAKHOUSE

From:	Jeff Leven
To:	Rama Raman
Cc:	Rebecca Von Drasek, MPA; Cathy Chiarelli; Kelsea Neal Nolot
Subject:	RE: STK enclosure
Date:	Tuesday, June 9, 2026 9:48:27 PM
Attachments:	image001.png SAMPLE-CARD-Soltis-502-Proof-EN.pdf ZIP TECNICAL DATASHEET (4).pdf

CAUTION: This email message originated from outside of the Village's email system. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Rama,

- The 'walls' will be made from Soltis 502 Proof (or similar) which is 100% recycled PET yarns and a PVC coating. Color is intended to be black. See the attached specification sheet.
- The 'windows' within the sections would be: Clear PVC 1mm thick. The manufacture was not able to provide a specification sheet, but hopefully the material description will be acceptable.
- The 'system' between post is planned to be Zipscreen System by Sunmaster (or similar). See page 8 for the detail on the attached specification sheet.
- As depicted in the renders there will be a lower rail (which would remain even when the shades are up) to approximately 30" AFF.

If you have any further questions, please do not hesitate to reach out. As the file size is large are you able to confirm receipt of this email.

Thank you,
Jeff

Jeff Leven

FORM Design Studio, LLC ¦ [redacted]

Think green. Please consider the environment before printing this e-mail

Disclaimer

These CAD files were prepared in accordance with generally accepted architectural principles and practices. These documents were produced from original shell drawings; we strongly urge you to field verify the space for your own purposes. **FORM Design Studio** bears no responsibility for errors in transmission or manipulation of the data contained herein. **FORM Design Studio** retains ownership of these documents and is not responsible for any losses or claims associated with the unauthorized use of these design materials.
The information contained in this e-mail message is confidential and is intended only for the use of the individual or entity to whom it is addressed. If the reader of this message is not the intended recipient, you are hereby notified that any disclosure, copying, distribution, or the taking of any action in reliance on the contents of this communication is strictly prohibited. If you have received this e-mail message in error, please contact the sender and delete this e-mail message.

From: Rama Raman <rraman@oak-brook.org>
Sent: Tuesday, June 9, 2026 9:25 AM
To: Jeff Leven [redacted]
Cc: Rebecca Von Drasek, MPA <rvondrasek@oak-brook.org>; Cathy Chiarelli <cchiarelli@oak-

I. Product introduction and features

a. Sunmaster, is a first class product designed to be used with confidence and comfort in all four seasons.

b. It provides a usage opportunity where the fabric can be gathered upwards in the vertical direction and closed completely when desired.

c. ZipScreen is made of special fabric mounted on a modular aluminum construction carrier frame, with aluminum profiles at the top / bottom and zipper frame systems suitable for clamping from the sides.

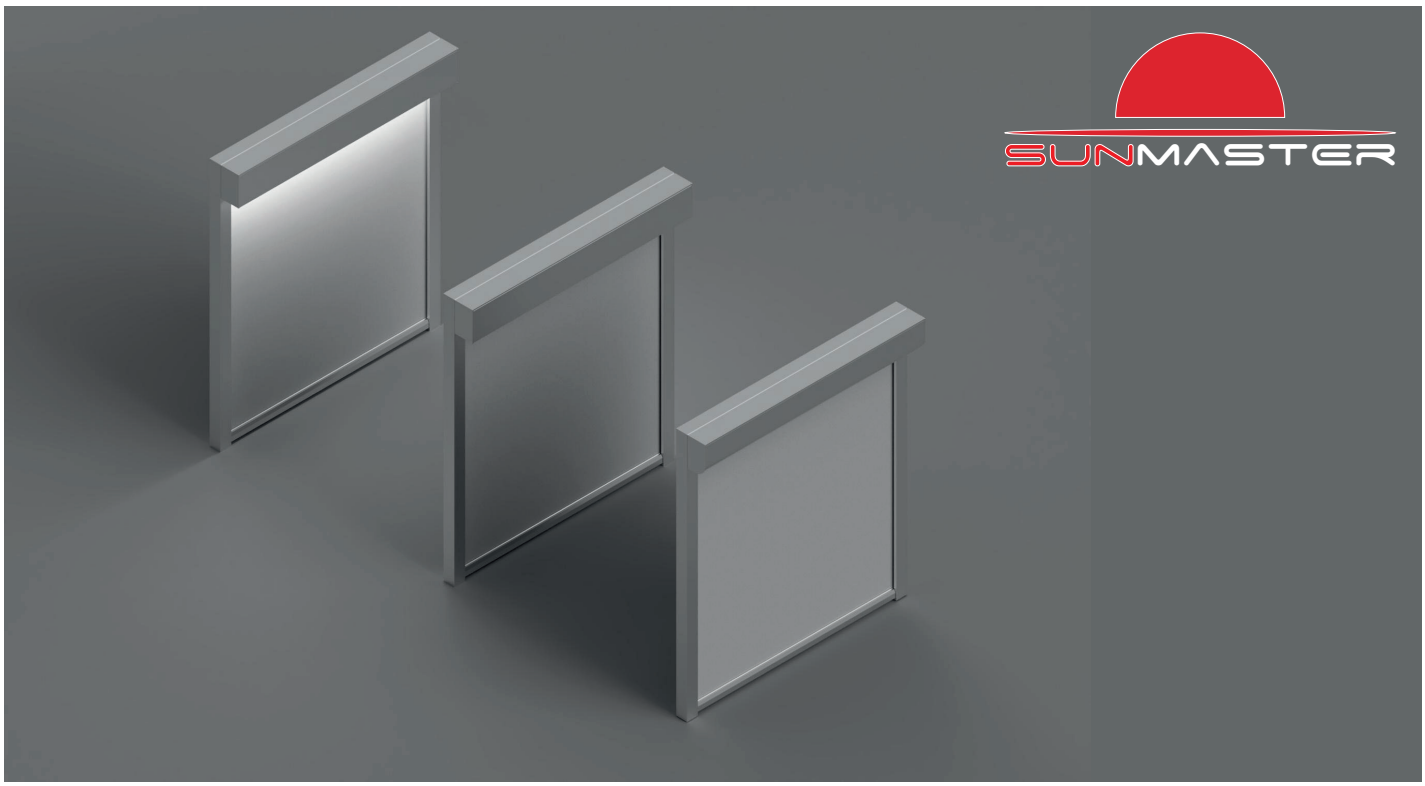
d. Since the fabric tension of the zip system is very high compared to similar products, its resistance against external wind and other pressures is quite high.

e. The fabric system, which is framed with profiles from the top and bottom, is clamped to the side stitch rails with the zipper attachment from the sides.

f. The lower aluminum profile of the zip frame is completely included in the upper box after the system is opened and is not visible from the outside.

g. With the plastic wheeled car system added to the left and right sides of the lower aluminum profile of the zip frame, the ease of movement is provided at maximum level when the system is opened.

h. Our zip systems offer our customers three options to choose from: Type1 - Top box profile with LED light, Type2 - Standart top box profile , Type3 - Round top box profile.



BUTLER GOVERNMENT CENTER
1200 OAK BROOK ROAD
OAK BROOK, ILLINOIS 60523

June 4, 2026

Village President and Board of Trustees
Village of Oak Brook
1200 Oak Brook Road
Oak Brook, IL 60523

Subject: Case No: 2026-5-ZO-PUD – OB22 – Franklin Partners 1211-1315 22nd Street

Dear Village President and Board of Trustees:

Background
At its meeting on June 3, 2026 the Planning & Zoning Commission held the required public hearing on a petition from Kelsea Neal Nolot, Elrod Friedman LLP, representative for the owners of the property – Franklin Oak Brook 22, LLC, seeking approval of a planned development to enclose outdoor dining for STK and allow a fitness studio, Solidcore to operate in O-3 District.

The subject multi-use buildings are located at 1211-1315 22nd Street in the O-3 Office District.

The applicant provided a preliminary presentation on the proposed project before the President and Board of Trustees on April 14, 2026 and comments were provided to the applicant by the Village Board. They presented again as a referral on May 12, 2026. The application moved forward pending a thorough review and recommendation by the Planning & Zoning Commission.

Waivers and Variations: The Planned Development process allows an applicant to request waiver of and variations from Village zoning laws that are necessary for the construction of the desired project. The following waivers and variations were requested.

1. *Use*: Section 13-10D-1 To allow the fitness studio to operate in a retail space.

2. *Setback.* Section 13-10D-3. To allow a reduction in the required setback from 100’ to 87’ from the property line.

Public Comment
All interested parties were notified of the public meeting. No one spoke in support of or in opposition to the request at the hearing.

Planning & Zoning Commission Discussion and Recommendation
The standards for a planned development were addressed as part of the presentation at the public hearing and were addressed in detail in writing in the case file.

The Planning & Zoning Commission reviewed and deliberated on the applicant's request and

By a vote of 8 to 0, the Planning & Zoning Commission found that the applicant had addressed all of the required planned development standards and recommended approval of the proposed development subject to certain conditions below.

1. Compliance with Plans: The fitness studio use, operation and enclosed outdoor dining will be in substantial compliance with the plans and documents as submitted, except for minor changes approved by the Development Services Director and Village Manager in accordance with Section 13-15-8 of the Zoning Ordinance.

2. Sign proposals shall comply with applicable sign code regulations of the Oak Brook zoning ordinance unless otherwise modified or varied.

Very truly yours,

Wayne Ziemer
Chairman
Planning & Zoning Commission

MINUTES OF THE JUNE 3, 2026
REGULAR MEETING OF THE
PLANNING & ZONING COMMISSION OF THE
VILLAGE OF OAK BROOK
APPROVED AS WRITTEN/AMENDED ON

1. CALL TO ORDER:

CALL TO ORDER

The Meeting of the Planning & Zoning Commission was called to order by Chairman Wayne Ziemer at 6:30 p.m.

2. ROLL CALL:

ROLL CALL

Rama Raman called the roll with the following persons:
PRESENT: Chairman Wayne Ziemer, Vice Chairman Kenneth Wilczak, Members Natalie Cappetta, Richard DiBernardo, Rahma Hasan, Baker Nimry, James Pontrelli and Marc Simon
IN ATTENDANCE: Village Attorney Michael Castaldo III, Director Rebecca Von Drasek and Village Planner Rama Raman

3. APPROVAL OF MINUTES

MINUTES

SPECIAL PLANNING & ZONING COMMISSION MEETING OF MAY 13, 2026

MAY 13, 2026

Motion by Member Hasan, seconded by Member Bulin to approve the minutes of the December 3, 2025 Special Planning & Zoning Commission meeting as written. VOICE VOTE: Motion Carried.

4. UNFINISHED BUSINESS

UNFINISHED BUSINESS

There was no unfinished business.

5. NEW BUSINESS

NEW BUSINESS

A. FINAL PLAT OF SUBDIVISION OAK BROOK RESERVE – 2715, 2815, 2915 JORIE BLVD

F.P. OF SUBDIVISION OAK BROOK RESERVE – 2715, 2815, 2915 JORIE BLVD

Chairman Ziemer announced the commencement of the public meeting for the petition.

Planner Raman gave an overview of the petition.

Lance Oriti, Kimley-Horn Associates, Inc, Austin, TX, and John McNaughton, representatives of the property owner, JPD Oak Brook Holdings, LLC, explained that they are proposing to subdivide the two existing lots into three separate lots, allowing each of the three existing buildings to be located on its own lot. Mr. Oriti stated that all three proposed lots would comply with the regulations of the ORA-3 Zoning District.

Vice Chairman Wilczak asked if the restriction on the proposed Lot 3 would remain in place and if there were any curb cuts being proposed.

Mr. Oriti replied that the restriction would remain in place and there are no plans for any development.

Motioned by Member Hasan, seconded by Member DiBernardo to recommend approval of the final plat of subdivision, subject to the following conditions:

1. Final engineering approval prior to recording of the Plat.
2. Recording of the document by Village staff.
3. A declaration of covenants, conditions, restrictions, easements, and shared maintenance agreements for the three (3) lots is required and shall be recorded.
4. Add the condition "Notwithstanding the attached exhibits, the applicant shall meet all Village Ordinance requirements at the time of building permit application except as specifically varied or waived."

ROLL CALL:
Ayes: 8 – Chairman Ziemer, Vice Chairman Wilczak, Members Cappetta, DiBernardo, Hasan, Nimry, Pontrelli and Simon. Motion carried.
Absent: 1 - Member Bulin

Vice Chairman Ziemer announced that the public meeting for this matter was concluded.

5.

B. PLANNED DEVELOPMENT – OB22 – FRANKLIN PARTNERS – 1211-1315 22ND STREET

PD – OB22 – FRANKLIN PARTNERS – 1211-1315 22ND STREET

Chairman Ziemer announced the commencement of the public hearing for the petition and swore in everyone that was presenting for the remaining petitions.

Planned Raman summarized the request seeking planned development to enclose the outdoor dining for STK and to allow a fitness studio to operate in O-3 District.

Kelsea Neal Nolot, Elrod Friedman LLP, 350 N Clark St, Chicago, representative the for the property owner Franklin Oak Brook 22, LLC, explained that OB22 is an existing mixed used campus with two 11-story buildings. They are asking for relief to enhance the existing use by adding and boutique fitness studio – Solidcore into a vacant space and by enclosing the STK outdoor dining to create a year-round amenity.

The petitioner was seeking a front yard setback from 100-feet to 87-feet, permitting a fitness use in O-3 District and potential FAR adjustment for the enclosed outdoor dining.

Ms. Nolot discussed the benefits of having Solidcore as a tenant as well as the benefits of year-round dining at STK.

Member Cappetta questioned the enclosed outdoor dining capacity.

Chief Fleege replied that the enclosed outdoor dining would have its own capacity dependent on the number of available exits, and to be determined.

Vice Chair Wilczak asked where the entrance to the STK outdoor dining area would be located.

Jeff Levin, Levin Associates, Northbrook, IL replied that the only entrance to the outdoor dining would be through the restaurant.

Motioned by Member Hasan, seconded by Member DiBernardo to recommend approval of Planned Development, subject to the following conditions:

1. Compliance with Plans: The fitness studio use, operation and enclosed outdoor dining will be in substantial compliance with the plans and documents as submitted, except for minor changes approved by the Development Services Director and Village Manager in accordance with Section 13-15-8 of the Zoning Ordinance.
2. Sign proposals shall comply with applicable sign code regulations of the Oak Brook zoning ordinance unless otherwise modified or varied.

ROLL CALL:

Ayes:	8	–	Chairman Ziemer, Members Cappetta, DiBernardo, Hasan, Nimry, Pontrelli and Simon. Motion carried.
Absent:	1	-	Member Bulin

Vice Chairman Ziemer announced that the public hearing for this matter was concluded.

VILLAGE OF OAK BROOK
Planning & Zoning Commission

STAFF REPORT

DATE: May 28, 2026

CASE FILE NO: 2026-5-ZO-PUD

DESCRIPTION: Planned Development proposal for Franklin Oak Brook 22, LLC to enclose outdoor dining for STK and allow a fitness studio, Solidcore, to operate in O-3 District.

PETITIONER: Franklin Oak Brook 22, LLC
1900 Spring Road, Suite 100
Oak Brook, Illinois 60523

ADDRESS: 1301 22nd Street, Oak Brook, IL 60523

EXISTING ZONING/USE: O-3, Office District, the property is currently improved with existing office buildings.

ZONING/USE OF SURROUNDING PROPERTY:

North: B-2 Regional Shopping Center District, Oakbrook Center Mall.

South: Tollway and R-4 Residence District.

East: ORA-1 Office Research and Assembly District, office building.

West: O-3 Office District, Marriott hotel.

LOCATION: The subject property is located west of Spring Road, north of Tollway, accessed from 22nd Street.

BACKGROUND:
Franklin Oak Brook 22, LLC, the property owner, has submitted an application requesting approval of a Planned Development ("PD") to enclose outdoor dining for STK and allow a fitness studio, Solidcore, to operate in O-3 District. The request is to utilize the existing outdoor area and to allow a fitness studio to utilize a retail space on the ground floor.

A Preliminary Board Review of the application was conducted by the Village Board on April 14, 2026, as required in the Village's PD regulations. The preliminary Board review is the first step in the process outlined in the PD regulations and is intended to provide an applicant with early feedback.

A separate neighborhood meeting was not required as part of the outreach for this redevelopment project. Since the property is surrounded solely by non-residential land uses such as offices and the mall, it was determined that a public hearing before the Planning & Zoning Commission would be adequate and provide the necessary and legally required forum for public feedback/comment on this redevelopment project. The application was referred by the Village Board on May 12, 2026.

1. Planned Development. A Planned Development is required for this proposal. The intent and purpose of the planned development regulations, standards and criteria is to provide an alternate zoning procedure under which land can be developed or redeveloped with innovation,

imagination, and creative architectural design when sufficiently justified under the provisions of this chapter. The objective of the planned development is to encourage a higher level of design and amenity than is possible to achieve under standard zoning regulations. The end result is intended to be a product which fulfills the objectives of the Village of Oak Brook's Comprehensive Plan and planning policies while allowing flexibility from the standard application of the use and bulk regulations. The planned development is intended to permit and encourage flexibility and to accomplish the following:

1. To stimulate creative approaches to commercial, nonsingle-family residential, and commercial/ mixed-use development of land;

2. To provide more efficient use of land;

3. To preserve natural features and provide open space areas and recreation in excess of those required under standard zoning regulations;

4. To develop and implement new approaches to the living environment through variety in type, design and layout of buildings, transportation systems, and public facilities;

5. To unify building and structures through design; and

6. To promote long-term planning pursuant to the village's plan, intended to allow harmonious and compatible land uses or combination of uses with surrounding areas.

Proposed Departures. Section 13-15-2E of the PD regulations acknowledges that proposed planned developments need not comply with the density, dimension, area, bulk, use, and other zoning regulations that, but for the provisions of this chapter, would otherwise apply to the property on which the proposed planned development is intended. Modifications and departures from the standard provisions may be provided in accordance with the provisions of this chapter and to the extent that they will not be detrimental to or endanger the public health, safety, morals, comfort or general welfare. The departures from standard being proposed as part of this PD application are identified in the petitioner's materials and are as follows:

1. *Use*: Section 13-10D-1 To allow the fitness studio to operate in a retail space.

2. *Setback.* Section 13-10D-3. To allow a reduction in the required setback from 100' to 87' from the property line.

STAFF ANALYSIS:
As part of this review, the following commentary should be considered as part of the PD Commission's analysis and deliberations on the request.

Planned Development. The subject property is currently zoned O-3 Office District. Fitness studios are not listed as a Permitted or Special Use in the O-3 District.

Two (2) waivers are being requested from the strict application of the zoning code. Instead of processing this case with multiple requests for variations before the Planning & Zoning Commission, the planned development submittal incorporates all of these elements into a single request that can be reviewed and evaluated as a unified development project.

Section 13-15-2A General Provisions of the PD regulations does allow redevelopment within a planned development overlay district. Section 13-15-2B further indicates that each PD shall be presented and reviewed on its own merits. The project must still be reviewed on a case-by-case basis and provide tangible benefits to the community.

As such, a PD application has been submitted for the fitness studio use and outdoor dining enclosure. The improvements will consist of outdoor dining enclosure only.

Consistency with the Planned Development Regulations. The applicant has provided documentation, plans, and other review materials for their PD application that are included in the packet.

Planned Development Standards. The applicant has addressed and responded in detail to the Planned Development Standards as required in Section 13-15-3 of the Regulations.

Building setbacks. The fitness studio is proposed in an existing retail tenant space within the building. The existing outdoor dining is proposed to be enclosed, which will result in reduction of the setback from required 100' to 87'.

Consistency with the Comprehensive Plan**.** The 1990 Comprehensive Plan, Planning District 1, does not mention this type of use within the O-3, Office District. The Village code permits "retail sales and personal service uses when located on floors below those used for the principal use", this revision was incorporated within the October, 2024 Text Amendments.

Stormwater and Floodplain. The property is not located within the regulatory floodway or floodplain. The proposed use shall comply with the Village's adopted stormwater ordinance requirements.

Water and Sanitary Utilities. Water service for the building is sufficient for the proposed use. Sanitary service is being provided by the Flagg Creek Water Reclamation District (FCWRD).

Site Lighting. There are no additional exterior lighting being proposed as a part of the Planned Development.

Building Architecture. Renderings have been provided for the outdoor dining enclosure.

Signs. The applicant is proposing a wall sign at the north entrance to the retail space in the building. A detailed review will be conducted by staff following a sign permit submittal.

Landscaping and Open Space. No changes are proposed to the existing landscaping and open space. Existing landscaping related to the parking lot will remain as is.

Traffic Access and Parking Considerations. There are no changes to the traffic and parking lot. The existing parking facilities comply with Village Code requirements.

Pedestrian Access and Circulation. The commercial areas in the Village are generally auto oriented but do include some pedestrian circulation. The subject property includes pedestrian access from the Spring Road and 22nd Street intersection, as well as internal walkways within the site.

RESPONSIBILITIES OF HEARING BODY:
As part of the Planned Development Regulations, the Planning & Zoning Commission shall review the application, the standards and requirements, the report of the Development Services Director, and any oral and written comments and testimony received by the Planning & Zoning Commission before and at the public hearing. The Planning & Zoning Commission shall recommend approval, approval with conditions, or denial of the proposed planned development.

Every recommendation of the Commission upon any application filed pursuant to the Planned Development Regulations shall include such findings of fact and conclusions as the Commission shall deem necessary. The findings shall generally refer to the evidence in the record and to the exhibits, plans, or specifications upon which the recommendation is based. The findings shall generally specify the reason or reasons for the recommendation and shall contain a conclusion or statement setting forth the recommendation of the commission. Every recommendation shall expressly set forth any limitations or conditions. In order to make a recommendation to approve (with or without conditions) or a recommendation to deny a proposed planned development or an amendment to an existing planned development, the affirmative vote of a majority of all members of the commission then holding office shall be required.

When appropriate, please include in your consideration, findings with respect to the standards specified in the Planned Development Regulations for approval of the planned development. The materials submitted by the applicant specifically address each of these standards.

CONCLUSION:
Staff would like the Planning & Zoning Commission's feedback on the proposed petition and the departures from the standards that are being requested. As part of this discussion, staff has provided a series of additional conditions that can be included in a recommendation to ensure that applicable considerations are memorialized for the development.

As such, staff is providing the accompanying conditions for Planning & Zoning Commission review and discussion. If the Commission is prepared to make a recommendation, I would ask that you consider the conditions, incorporate any new recommendations and include the planned development findings (as identified in the petitioner's application materials) in your motion.

1. Compliance with Plans: The fitness studio use, operation and enclosed outdoor dining will be in substantial compliance with the plans and documents as submitted, except for minor changes approved by the Development Services Director and Village Manager in accordance with Section 13-15-8 of the Zoning Ordinance.

2. Sign proposals shall comply with applicable sign code regulations of the Oak Brook zoning ordinance unless otherwise modified or varied.

Please contact staff if you have any questions.

Respectfully Submitted,

Rama Raman

Rama Raman
Village Planner

Elrod Friedman LLP

350 North Clark Street
Second Floor
Chicago, Illinois 60654
312-528-5200
www.elrodfriedman.com

NOTICE OF PUBLIC HEARING
VILLAGE OF OAK BROOK PLANNING & ZONING COMMISSION
JUNE 3, 2026 AT 6:30 P.M.

NOTICE IS HEREBY GIVEN that a public hearing before the Planning & Zoning Commission of the Village of Oak Brook, DuPage and Cook Counties, Illinois, will be held on Wednesday, June 3, 2026 at 6:30 p.m. in the Samuel E. Dean Board Room of the Butler Government Center, Village of Oak Brook, 1200 Oak Brook Road, Oak Brook, Illinois 60523 for the purpose of considering the application from the Petitioner, Franklin Oak Brook 22, LLC, 1900 Spring Road, Suite 100, Oak Brook, Illinois 60523, property owner of the property known as 1211-1315 22nd Street, Oak Brook, Illinois 60523, requesting a new planned development and related departures and other zoning relief to facilitate further the redevelopment of the existing commercial office building generally located at 1211-1315 22nd Street

The Petitioner has submitted an application, case number PD-26-3, seeking approval for a planned development on the property at the southwest corner of 22nd Street and Spring Road, as described below.

Project Description: Petitioner has submitted an application, case number PD-26-3, seeking approval of a new planned development and associated relief to facilitate a new fitness studio and the construction of a permanently enclosed outdoor dining area on the first floor of the existing commercial office building, in furtherance of its effort to modernize and reposition an aging Village asset.

In accordance with the zoning regulations, as part of the planned development, the Petitioner has requested certain departures pursuant to Chapter 15 of Title 13 of the Zoning Ordinance.

The subject property is generally described as 1211-1315 22nd Street, Oak Brook, Illinois 60523, Oak Brook, Illinois 60523, located at the southwest corner of 22nd Street and Spring Road, with the legal description as follows:

LOT 1 IN THE MANU LIFE SUBDIVISION, BEING A RESUBDIVISION OF PART OF LOT 6 IN OAK BROOK INVESTMENT COMPANY ASSESSMENT PLAT NUMBER 4, OF PART OF THE NORTHWEST ¼ OF SECTION 26, TOWNSHIP 39 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT OF MANU LIFE SUBDIVISION RECORDED AUGUST 8, 1978 AS DOCUMENT R78-74138, IN DUPAGE COUNTY, ILLINOIS

Questions about the proposed project can be directed to Kelsea Neal Nolot, Elrod Friedman LLP, 350 North Clark Street, Second Floor, Chicago, Illinois 60654; 312-528-5200; kelsea.nolot@elrodfriedman.com.

In accordance with the provisions of the Americans with Disabilities Act, any individual who needs a reasonable accommodation to participate in or benefit from attendance at this public meeting should contact the Butler Government Center (Village Hall) at 630-368-5010 as soon as possible before the meeting date.

AFFIDAVIT

May 14, 2026

Village of Oak Brook
Plan Commission
Village Hall
1200 Oak Brook Rd
Oak Brook, IL 60523

RE: Case Number PD-26-3

Planning and Zoning Commission:

The undersigned, Kelsea Neal Nolot, being first duly sworn under oath, deposes and states the following:

That the undersigned certifies they have complied with the requirements of Section 13-15-5 of the Oak Brook Zoning Ordinance, Title 13 of the Village Code of Oak Brook, by serving written notice, by USPS certified mail, return receipt requested (i) to the taxpayers of record and owner of record of the property commonly known as 1211-1315 22nd Street, Oak Brook, Illinois (the "***Property***"), which is the subject of the application for planned development and (ii) to the taxpayers of record and residents of all property within 500 feet of the Property, excluding the number of feet occupied by streets, alleys, other public ways in each direction of the lot lines of the Property, and that the notice contained the:

- Identification number designation of the application;
- Date and time of the public hearing;
- Location of the public hearing; and
- General location of the Property, the legal description of the Property, and its street addresses, and a short description of the proposed planned development and the purpose of the public hearing.

Further, the undersigned made a bona fide effort to determine the address of the parties to be notified under the above ordinance, and the accompanying list of names and addresses of surrounding property taxpayers and residents within 500 feet is a complete list.

Signature

Subscribed and sworn to before me this
14th day of May, 2026.

Notary Public

OFFICIAL SEAL
JIN S STOKES
NOTARY PUBLIC, STATE OF ILLINOIS
My Commission Expires 10/12/2026

PUBLIC NOTICE

NOTICE IS HEREBY GIVEN that a public hearing before the Planning & Zoning Commission of the Village of Oak Brook, DuPage and Cook Counties, Illinois, will be held on Wednesday, June 3, 2026 at 6:30 p.m. in the Samuel E. Dean Board Room of the Butler Government Center, Village of Oak Brook, 1200 Oak Brook Road, Oak Brook, Illinois 60523 for the purpose of considering the application from the Petitioner, Murphy Development Group, LLC, with approval of the owner Franklin 1900 Spring Road, LLC, seeking a planned development as provided for under Chapter 15 of Title 13, the Zoning Ordinance of the Village of Oak Brook, Illinois, Ordinance G-60 as amended.

The Petitioner has submitted an application, case number 2025-12-ZO-PUD (PD-26-2), seeking approval of a planned development to be located on the property at 1315 16th Street, Oak Brook, Illinois 60523, as further described below.

Project Description: Applicant/Owner have applied to the Village for planned development approval to authorize the construction of a 13-story building on the site. This location was previously approved for the Butler condominium project. The applicant proposes to construct 115 rental units with an average size of 1,382 sq. ft., 240 interior parking spaces, and added amenities of a pool, gym, outdoor seating areas, a golf simulator, climate-controlled storage, and co-working spaces.

The subject property is generally described as 1315 16th Street, Oak Brook, IL 60523 - permanent index number: 06-23-302-007, located at the corner of 16th Street and Spring Road.

The petitioner's application, including all supporting documents is on file with the Director of Development Services. Persons wishing to examine the petition documents may arrange to do so with the Development Services Department, Village of Oak Brook, 1200 Oak Brook Road, Oak Brook, IL 60523, telephone 630-368-5103, 8:00 a.m. to 4:00 p.m., Monday – Friday, excluding holidays.

In accord with the provisions of the American with Disabilities Act, any individual who is in need of a reasonable accommodation in order to participate in or benefit from attendance at this public meeting should contact the Butler Government Center (Village Hall), at 630-368-5010 as soon as possible before the meeting date.

Natasha Scarpiniti
Village Clerk

Published at the direction of the Corporate Authorities and the Planned Development Commission of the Village of Oak Brook, DuPage and Cook Counties, Illinois.
Published in Daily Herald May 15, 2026 (332002)

CERTIFICATE OF PUBLICATION

Paddock Publications, Inc.

Northwest Suburbs
Daily Herald

Corporation organized and existing under and by virtue of the laws of the State of Illinois, DOES HEREBY CERTIFY that it is the publisher of the **Northwest Suburbs DAILY HERALD**. That said **Northwest Suburbs DAILY HERALD** is a secular newspaper, published in Arlington Heights, Cook County, State of Illinois, and has been in general circulation daily throughout Cook County, continuously for more than 50 weeks prior to the first Publication of the attached notice, and a newspaper as defined by 715 ILCS 5/5.

I further certify that the **Northwest Suburbs DAILY HERALD** is a newspaper as defined in "an Act to revise the law in relation to notices" as amended in 1992 Illinois Compiled Statutes, Chapter 715, Act 5, Section 1 and 5. That a notice of which the annexed printed slip is a true copy, was published 05/15/2026 in said **Northwest Suburbs DAILY HERALD**. This notice was also placed on a statewide public notice website as required by 5 ILCS 5/2.1.

BY _____
Designee of the Publisher of the Daily Herald

Control # 332002

PADDOCK PUBLICATIONS, INC. Corporate SEAL ILLINOIS

ITEM 6.D.2.
BOARD OF TRUSTEES MEETING
SAMUEL E. DEAN BOARD ROOM
BUTLER GOVERNMENT CENTER
1200 OAK BROOK ROAD
OAK BROOK, ILLINOIS
630-368-5000

AGENDA ITEM

Board of Trustees Regular Meeting
of
May 12, 2026

SUBJECT: Referral of Planned Development for Franklin Partners OB22 –1211-1315 22nd Street

FROM: Rebecca Von Drasek, Development Services Director

BUDGET SOURCE/BUDGET IMPACT: N/A

RECOMMENDED MOTION: I move that the Village Board refer the Franklin Oak Brook 22, LLC request for a proposed fitness studio and the construction of a permanently enclosed outdoor dining, within the O-3, Office District to the Planning & Zoning Commission for public hearing, review and recommendation.

Background/History:
At the April 14, 2026, Village Board meeting, the applicant presented for preliminary Board review a proposal to include a fitness studio (Solidcore) within an existing ground-floor retail tenant space and constructing a permanently enclosed outdoor dining area for an existing restaurant tenant.

Staff Comments:

1. A Planned Development is required for this proposal. The intent and purpose of the planned development regulations is to provide an alternate zoning procedure under which land can be developed or redeveloped with innovation, imagination, and creative architectural design when sufficiently justified under the provisions of this chapter. The objective of the planned development is to encourage a higher level of design and amenity than is possible to achieve under standard zoning regulations.

2. A complete site plan with FAR calculations is required with the Planned Development application.

3. The subject property is currently zoned O-3, Office District. Fitness studio use is not listed as a Permitted or Special Use in the O-3 District. Health Club is defined within the Zoning Ordinance and is not a listed Permitted or Special Use.

4. The 1990 Comprehensive Plan, Planning District 1, does not mention this type of use within the O-3, Office District. The Village code permits "retail sales and personal service uses when located on floors below those used for the principal use", this revision was incorporated within the October, 2024 Text Amendments.

5. Section 13-15-2 indicates that each Planned Development (PD) shall be presented and reviewed on its own merits. As such, a new land use can be introduced into a zoning district through a PD if it is not currently permitted but the new use/project must still be reviewed on a case-by-case basis and provide tangible benefits to the community.

6. A separate neighborhood meeting is not required as part of the outreach for this project. The neighborhood meeting is an element of the Planned Development process outlined in Section 13-15-5.B.1d.

7. The O-3 District permits a floor area ratio (FAR) not to exceed 0.8. FAR compliance for the permanently enclosed outdoor dining will be determined after a final site plan and FAR calculations are submitted by the applicant. The enclosed outdoor dining would reduce the required front yard setback from 100' to 87'.

Please see the narrative and project presentation slides provided by the applicant for additional information and background.

Recommendation:
Staff recommends that the Village Board refer the request for a Planned Development to the Planning & Zoning Commission for public hearing, review and recommendation.

Attachments:
1. Exhibits - Referral

Franklin Partners
1900 Spring Road, Suite 100
Oak Brook, Illinois 60523

April 24, 2026

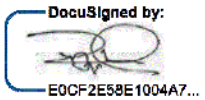
Ms. Rebecca Von Drasek
Director, Development Services
Village of Oak Brook
1200 Oak Brook Road
Oak Brook, Illinois 60523

Re: Oak Brook 22

Dear Ms. Von Drasek:

Franklin Partners, LLC, d/b/a Franklin Oak Brook 22, LLC, is the owner of the property located at 1211-1315 West 22nd Street, Oak Brook, Illinois, commonly known as Oak Brook 22. This letter confirms that we consent and support the filing of an application for a Planned Development by our attorney, Elrod Friedman LLP, for a Planned Development and other zoning relief as necessary. We authorize Elrod Friedman LLP to present an application to Village Staff and appear before the Village Board of Trustees and Planning and Zoning Committee in connection with the application.

Sincerely,



Raymond Warner
Franklin Partners, LLC

WAIVERS and VARIATIONS
(Site Development Departures)

Zoning Ordinance Section	Brief description of each waiver or variation sought	Fee Each
13-10D-1	A fitness facility as a permitted use in a planned development.	$ 500.00
13-10D-3	A reduction of the front yard setback requirement from 100 feet to 87 feet, to allow for development of a permanent enclosure of the existing patio, but within its current footprint.	$500.00

(To continue copy or retype form and Attach additional sheets if necessary)

PLANNED DEVELOPMENT - SITE DEVELOPMENT ALLOWANCES:
Section: 13-15-4

WAIVERS and VARIATIONS
(Site Development Departures)

Proposed site development characteristics that are not consistent with the Zoning Regulations otherwise applicable to the property on which a Planned Development or Planned Development amendment is proposed, may be approved in accordance with this Chapter as part of the ordinance approving the Planned Development or Planned Development amendment. The applicant shall specifically identify each site development departure and demonstrate how each departure will be compatible with surrounding development and is not inconsistent with the Planned Development standards set forth in Section 13-15-3 of this Chapter. Each departure shall be specifically stated and approved in the ordinance approving the Planned Development or Planned Development amendment. Any approved departures from the otherwise applicable Zoning Regulations shall not be deemed a nonconformity and shall not require a variation.

Identify each waiver below and if applicable refer to the page(s) of the site development plan that the departure can be found.

Code Section 13-10D-3 **Relief Sought** A fitness facility as a permitted use in a planned development.

RESPONSE: See accompanying narrative.

Code Section 13-10D-3 **Relief Sought** • A reduction of the front yard setback requirement from 100 feet to but within its current footprint.

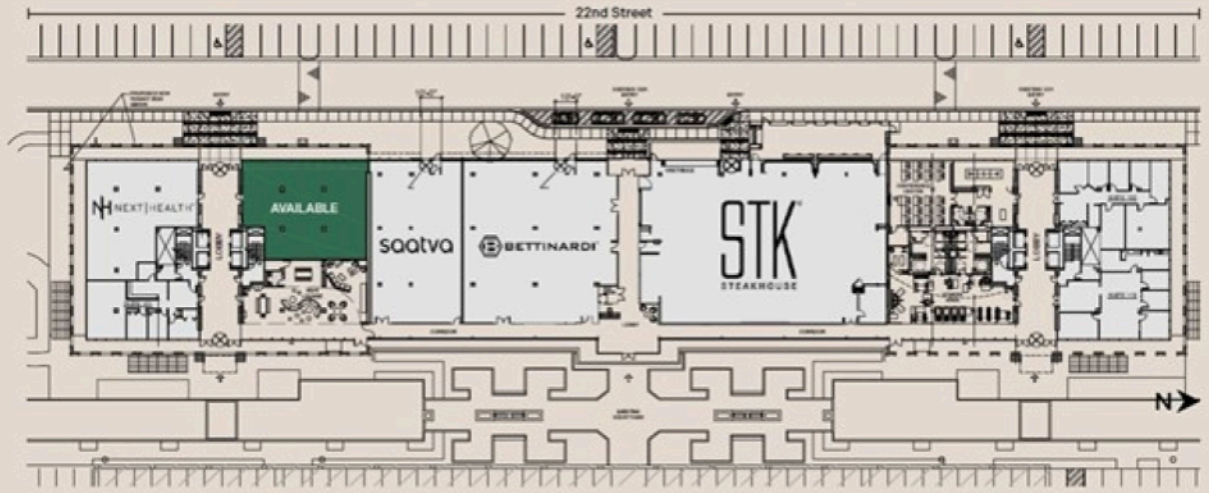
87 feet, to allow for development of a permanent enclosure of the existing patio,

RESPONSE: See accompanying narrative.

(To continue, Copy or retype form and attach additional sheets if necessary)

FLOOR PLAN

Available - 3,082 SF

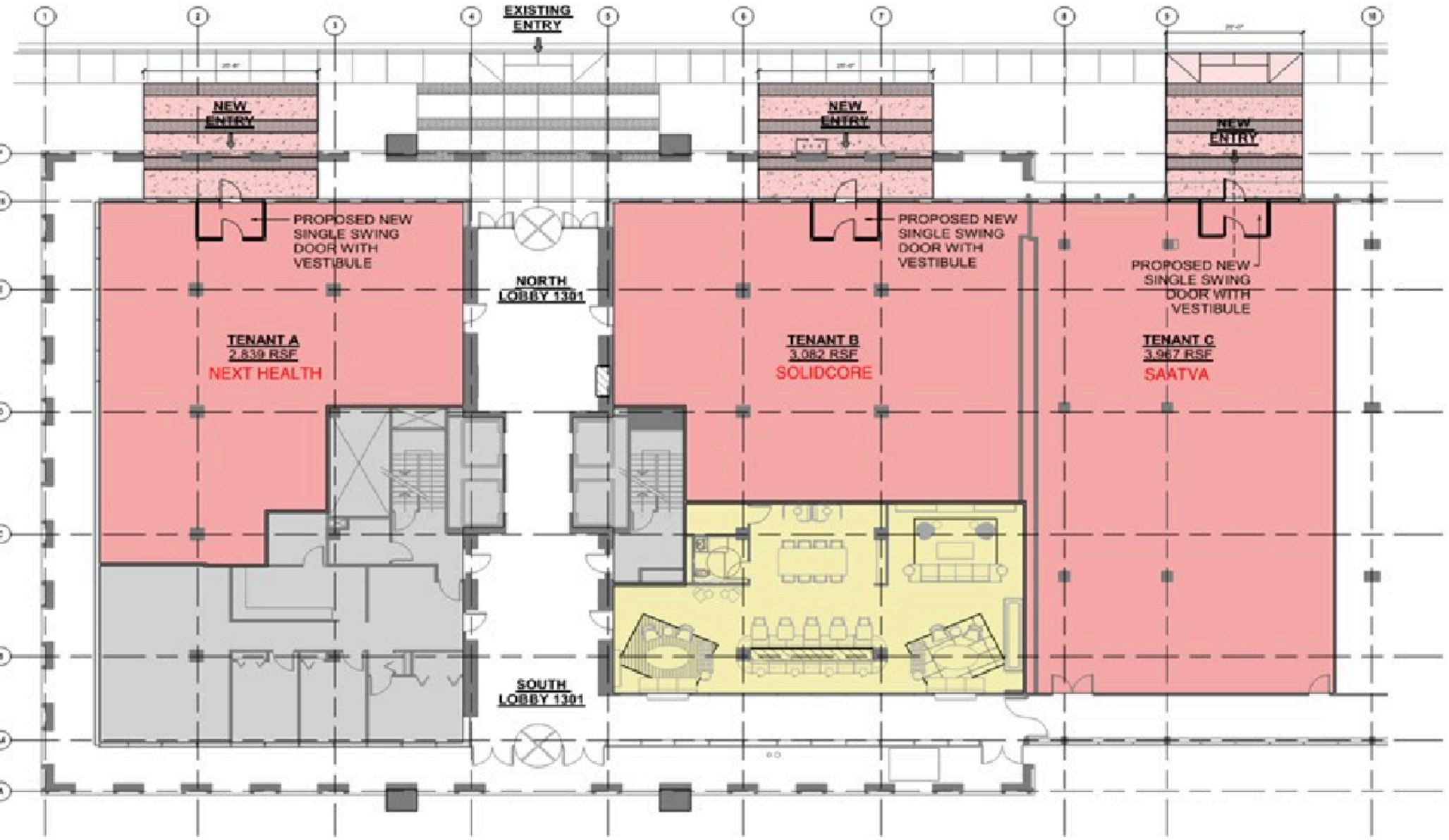


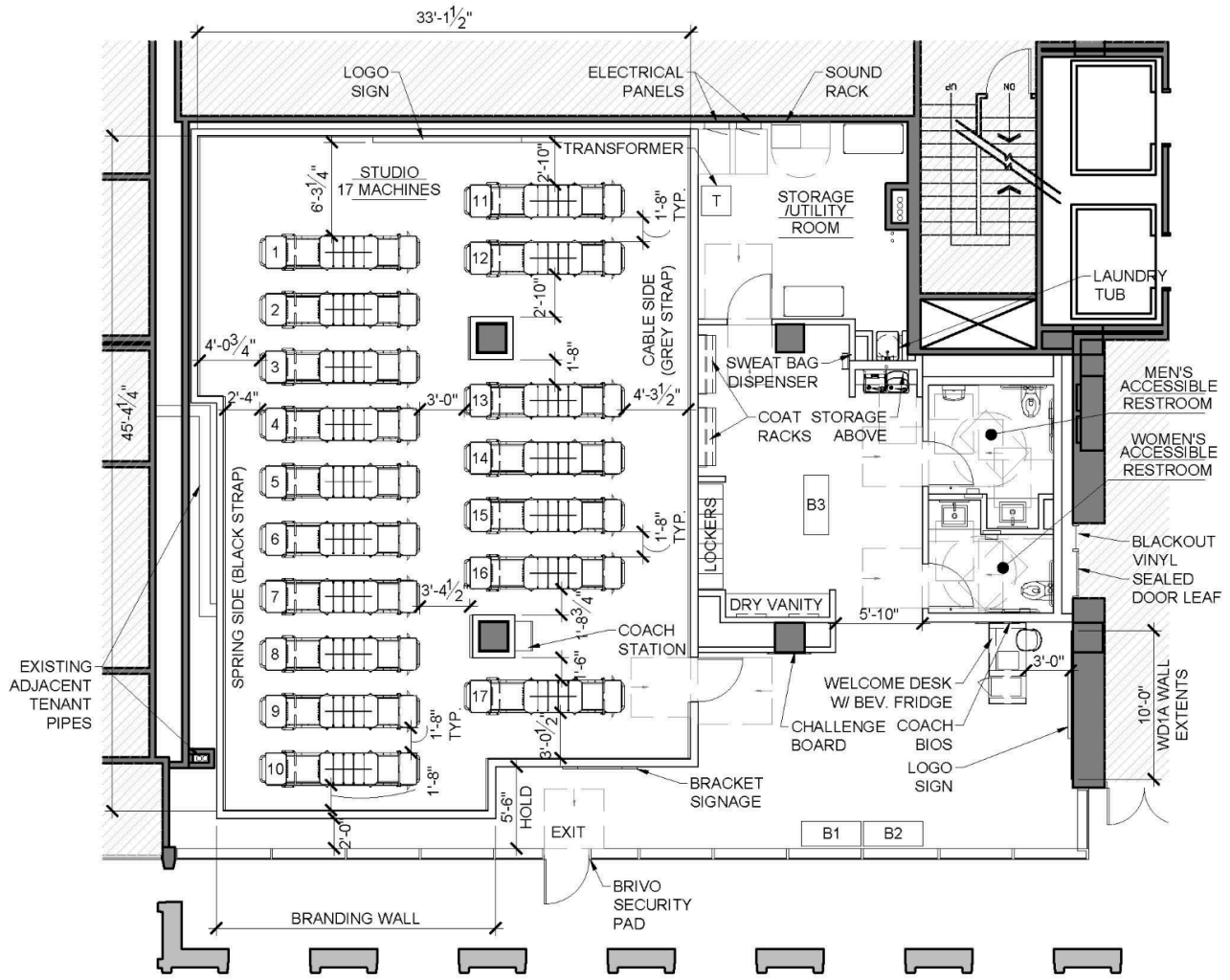
1,185
Parking Stalls

Across from
Oakbrook Center Mall

160,500 Average
Daily Vehicles along I-88

29,900 Average
Daily Vehicles along 22nd St


EXISTING ENTRY
NEW ENTRY
NEW ENTRY
NEW ENTRY
PROPOSED NEW SINGLE SWING DOOR WITH VESTIBULE
PROPOSED NEW SINGLE SWING DOOR WITH VESTIBULE
PROPOSED NEW SINGLE SWING DOOR WITH VESTIBULE
NORTH LOBBY 1301
SOUTH LOBBY 1301
TENANT A
2,839 RSF
NEXT HEALTH
TENANT B
3,082 RSF
SOLIDCORE
TENANT C
3,967 RSF
SAATVA



LEGEND
EXISTING PARTITION
NEW PARTITION
NOT IN CONTRACT (NIC)
SQ. FOOTAGE CALCULATIONS
+/-3,082 RSF

N 01 FLOOR PLAN
1/8" = 1'-0"

PLOT DATE: 3/9/2026 11:49 AM PLOTTED BY: SEAN JACKSON

CLIENT
[solidcore]

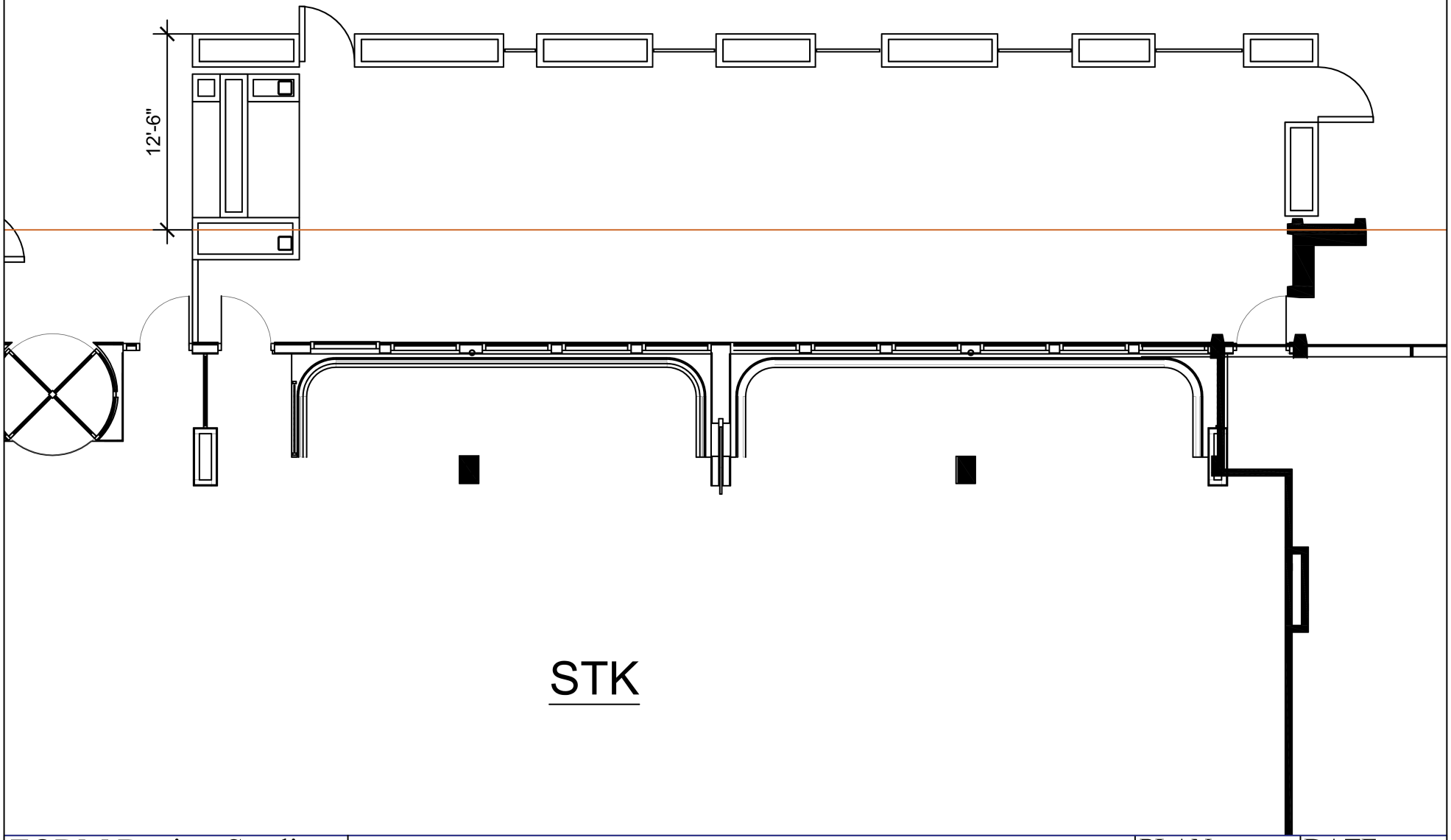
[solidcore] OAK BROOK, IL

FLOOR PLAN

DXU ARCHITECTS
412 S. Wells Street • 2nd Floor • Chicago • IL • 60607
P: 312.955.0334 • dxuarch.com

DATE 03-09-2026
SHEET NO. TF

© DxU 2026



STK

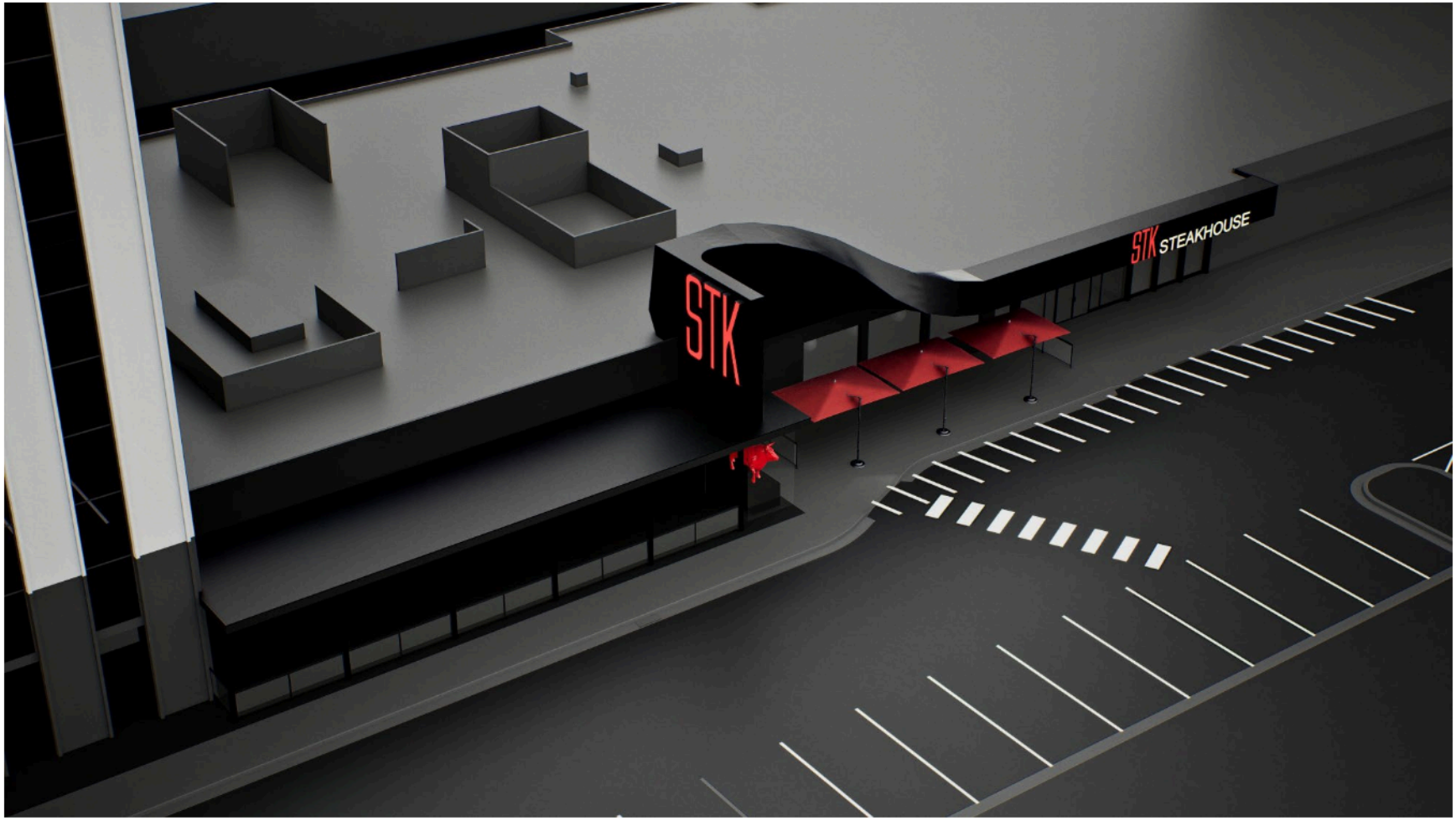
FORM Design Studio
ARCHITECTURE · INTERIOR DESIGN · FACILITY MANAGEMENT
200 East Randolph Street
Suite 5100
Chicago, IL 60601
TELEPHONE 773.931.8817

OB 22
1301-1225-1211 W 22ND STREET
OAK BROOK, IL

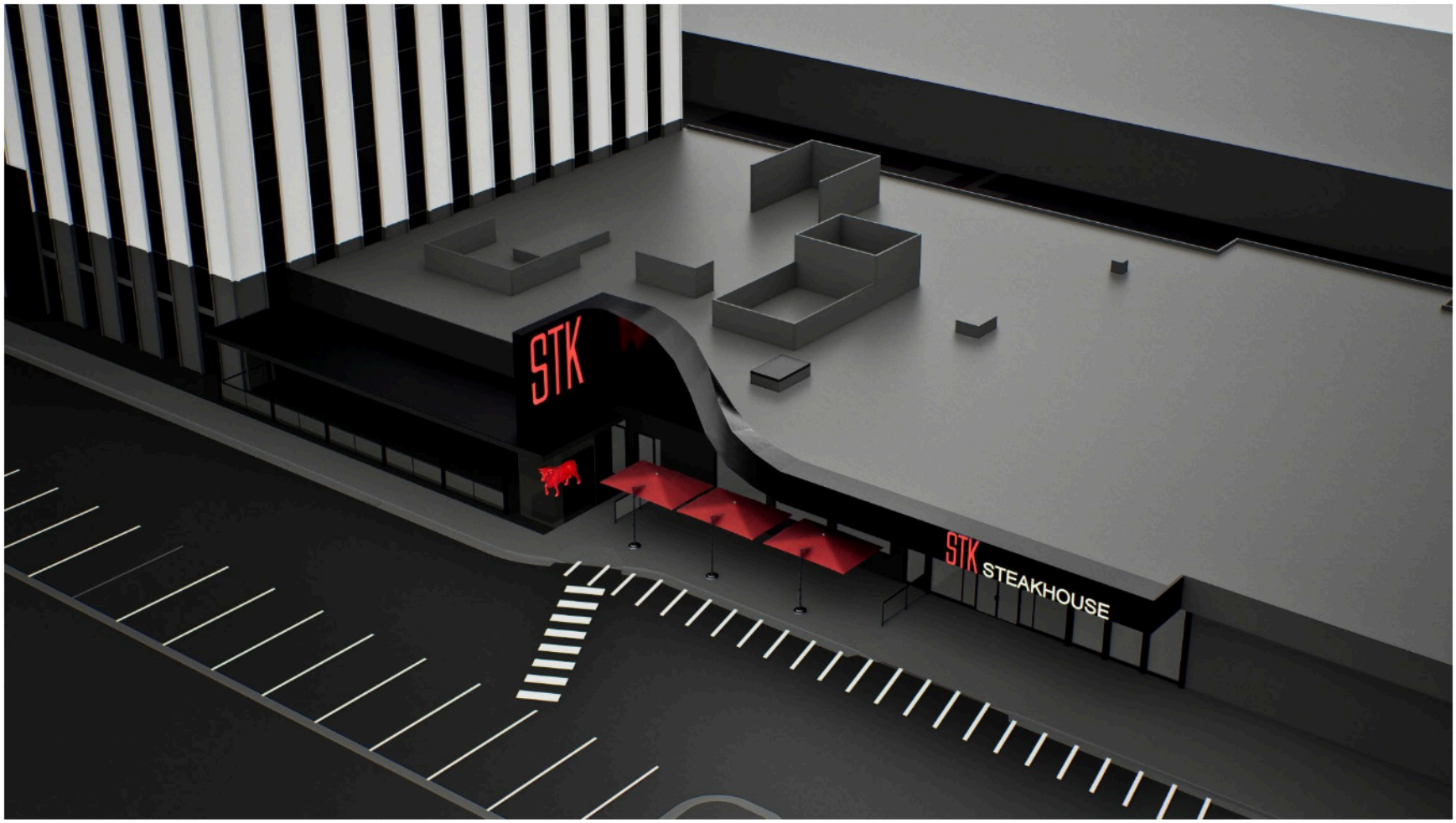
PLAN: EX.1

DATE: 04.06.26

1301
TENANT


STK
STK STEAKHOUSE

STK
STK STEAKHOUSE


STK
STK STEAKHOUSE

Record No: PD-26-3

Planned Development

Status: Active

Submitted On: 4/17/2026

Primary Location

1301 22ND ST
OAK BROOK, IL 60523

Owner

FRANKLIN OAK BROOK 22 LLC
SPRING RD 1900 OAK BROOK , IL 60523

Applicant

Kelsea Nolot
[redacted]
[redacted]
350 N Clark St
Second Floor
Chicago, Illinois 60654

Project Information

Type of Property*

Commercial

Development Type*

New Planned Development

Number of Waivers and/or Variations requested*

2

Number of Street Frontages*

1

General Location - Legal Address/s

1301 West 22nd Street

Zoning District*

O-3

Property Interest of the Applicant*

Owner's Agent

Owner of Record*

Franklin Oak Brook 22, LLC

Phone*

[redacted]

Owner Address*

1900 Spring Road, Suite 100, Oak Brook, Illinois 60523

Owner Email Address*

[redacted]

Name of Applicant*

Kelsea Neal Nolot

Applicant's Phone*

[redacted]

Applicant's Address*

350 North Clark Street, Second Floor,
Chicago, Illinois, 60654

Applicant Email Address*

[redacted]

Acknowledgement

I (we) certify that all of the above statements and the statements contained in any papers or plans submitted herewith are true to the best of my (our) knowledge and belief. I (we) give permission to the Village to install public hearing signs on the lot frontages of the above subject property as described in the Village Code. In addition to the above fees, applicant agrees to reimburse the Village for all recoverable costs within 30 days of billing.

Signature of Applicant*

Kelsea Neal Nolot
Apr 14, 2026

Date*

04/17/2026

If the applicant/Agent is not the owner of record, a written statement authorizing approval of the proposed planned development application is required from the property owner in addition to their signature above and supporting documents. * Note: Plus all applicable third party costs and recoverable expenses. ** List each waiver or variation on a separate sheet with applicable fees calculated.

Subject Property Verification

Permanent Index Number*

626100014

Common Address*

1211-1315 W 22ND ST OAK BROOK IL 60523-2006

Legal Description-* Contact DuPage County: 630-407-5401 to cross-check and verify the accuracy of the PIN number, legal and common address. (can copy/paste if available)*

LOT 1 IN THE MANU LIFE SUBDIVISION, BEING A RESUBDIVISION OF PART OF LOT 6 IN OAK BROOK INVESTMENT COMPANY ASSESSMENT PLAT NUMBER 4, OF PART OF THE NORTHWEST ¼ OF SECTION 26, TOWNSHIP 39 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT OF MANU LIFE SUBDIVISION RECORDED AUGUST 8, 1978 AS DOCUMENT R78-74138, IN DUPAGE COUNTY, ILLINOIS

I verify that the information provided above is accurate.*

Kelsea Neal Nolot
Apr 14, 2026

Date*

04/14/2026

Relationship to Applicant*

Owner's Agent

Planned Development Standards

A. Planned Developments Are Not Permitted As Of Right: Planned developments shall be approved by the village only in direct response to the accrual of tangible public benefits from the planned development to the village and its residents, along with the neighborhood and area in which the planned development is proposed. These benefits shall include, without limitation, exceptional amenities, landscape features, architectural or site design, or the conservation of special manmade or natural features of the site, all as more specifically set forth in the standards set forth in subsection B of this section.

B. General Design Standards: No application for a planned development shall be approved by the corporate authorities unless the proposed planned development satisfies the standards set forth in this subsection B and subsection C of this section. All of these standards shall not be regarded as inflexible, but shall be used as a framework by the village to test the quality of the amenities, benefits to the community, and design and desirability of the proposal. PLEASE RESPOND TO EACH ITEM BELOW.

1. Comprehensive Plan: The planned development shall not be inconsistent with the planning policies, goals, objectives, and provisions of the village's comprehensive plan. A planned development must also not be inconsistent with the intent and spirit of the village of Oak Brook comprehensive plan.*

The Proposed Planned Development is consistent with the planning policies, goals, objectives, and provisions of the Village of Oak Brook Comprehensive Plan and reflects its overall intent and spirit. The 1990 Comprehensive Plan designates the subject Property as part of an office-oriented district (O-3), intended to support office and related commercial uses serving the Village's daytime population.

The proposed modifications to OB22 further these objectives by reinvesting in and modernizing an existing office building, thereby supporting the continued viability of office uses on the Property and within the broader commercial district. Rather than altering the site's fundamental character, the Planned Development enhances an existing structure through adaptive reuse, extending its functional life and reinforcing the Property's role as a productive office asset.

Consistent with the Comprehensive Plan's emphasis on maintaining and enhancing commercial vitality, the project represents a significant capital investment in an aging office building, promoting long-term occupancy, economic activity, and sustainability. The improvements complement the surrounding commercial uses and support the Plan's goal of providing high-quality office environments for the Village's daytime workforce.

2. Public Welfare: The Planned Development shall be designed, located, and proposed to be operated and maintained so that it will not impair an adequate supply of light and air to adjacent property and will not substantially increase the danger of fire or otherwise endanger the public health, safety and welfare.*

The existing development at OB22 was originally designed to ensure adequate access to light and air for both the Property and the surrounding uses, and no modifications proposed as part of this Planned Development would alter those conditions. Accordingly, the proposed amendment will not impair the availability of light or air to adjacent properties.

The Proposed Planned Development does not introduce any changes that would increase the risk of fire or otherwise endanger public health, safety, or welfare. The Property will continue to operate in compliance with all applicable building, fire, and safety codes. In addition, existing site design features, including established circulation patterns, access points, and emergency vehicle access, will remain unchanged and continue to support safe and efficient operations.

3. Impact on Other Property: The Planned Development shall not be unnecessarily injurious to the use or enjoyment of other property in the neighborhood for the purposes permitted pursuant to the applicable zoning district, shall not prevent the normal and orderly development and improvement of surrounding properties for permitted uses, shall not be inconsistent with the community character of the neighborhood, shall not alter the essential character of the neighborhood, and shall not substantially diminish or impair property values within the neighborhood, or be incompatible with other property in the immediate vicinity. The uses permitted in a Planned Development must be of a type and so located so as to exercise no undue detrimental influence upon surrounding properties. The Planned Development must also address compliance with the Village's noise, lighting, and other performance standards. *

The Proposed Planned Development for OB22 will not be injurious to the use or enjoyment of neighboring properties, nor will it impede the normal and orderly development of surrounding properties for permitted uses. The proposed special use and requested relief are consistent with the established character of the neighborhood and will not alter its essential character. Additionally, the Planned Development will not diminish or impair property values or create incompatibility with nearby properties. The development will comply with applicable Village performance standards, including those related to noise, lighting, and other operational impacts.

4. Impact on Public Facilities and Resources: The Planned Development shall be designed so that adequate utilities, road access, drainage, and other necessary facilities will be provided to serve the development. The Planned Development shall include such impact donations as may be reasonably determined by the Corporate Authorities. The required impact donations, including, without limitation, obligations under the Village's subdivision regulations, shall be calculated in reasonable proportion to the impact of the Planned Development on public facilities and infrastructure to the extent permitted by law*

OB22 is designed to continue operating with adequate utilities, road access, drainage, and other necessary public facilities. The Property is fully served by existing infrastructure, including surrounding roadways, utilities, and stormwater management systems, all of which are sufficient to support the existing and proposed uses.

No modifications are proposed as part of this Planned Development that would materially impact utilities or public infrastructure, and no additional public improvements are anticipated or required. Existing drainage patterns and stormwater management systems will remain in place and continue to function in accordance with applicable Village and DuPage County requirements. The Property is not located within a special flood hazard area, and no regulatory wetlands are present on-site.

Accordingly, the Planned Development will not create any undue burden on public facilities or infrastructure, and any required impact contributions, if applicable, will be addressed in accordance with Village requirements and in proportion to the development's impact.

5. Archaeological, Historical or Cultural Impact: The Planned Development shall not substantially and adversely affect a known archaeological, historical, or cultural resource located on or off of the parcel proposed for development.*

No known archaeological, historical, or cultural resources are located on or off the Property impacted by the proposed planned development amendment.

6. Parking and Traffic: The Planned Development shall have or make adequate provision to provide ingress and egress to the proposed use in a manner that minimizes traffic congestion in the public streets, provides appropriate cross access to adjacent properties and parking areas, and provides adequate access for emergency vehicles.*

The Proposed Planned Development provides adequate ingress and egress designed to minimize traffic congestion on adjacent public streets and to ensure safe and efficient site circulation, including appropriate access for emergency vehicles. An existing signalized intersection from the west driveway and 22nd Street serves OB22 and facilitates orderly traffic flow to and from the Property. On the east edge of the Property, a driveway provides a direct entrance to the I-88 Tollway via a right-turn-only lane. There will be no adverse effect on the performance of surrounding roadways or intersections, and the proposed uses will not generate materially greater traffic volumes than previously approved uses.

Further, OB22 is already developed with an efficient internal circulation system and includes a 1,185-space parking structure that adequately serves the Property. The Community Development Department confirmed that no modifications to the existing parking or traffic circulation framework are required for this Planned Development.

7. Adequate Buffering: The Planned Development shall have adequate landscaping, public open space, and other buffering features to protect uses within the development and surrounding properties.*

The Applicant previously undertook voluntary landscaping improvements for the Property in 2025 in connection with zoning approvals for other retail uses on the Property. The Village informally reviewed and accepted the landscaping plan, finding that it provided appropriate buffering for uses within the development and on surrounding properties. While no additional landscaping improvements are anticipated for this Planned Development request, the existing landscaping plans have been submitted to the Village for formal review and approval.

8. Signage: Signage on the site of the Planned Development shall generally be in conformity with the Village's Sign Regulations (Chapter 11 of the Zoning Regulations), except as may otherwise be specifically provided in the ordinance approving a Planned Development. *

The existing development contains adequate signage, and no additional signage is proposed as part of this Planned Development. All existing and future signage will comply with prior Village approvals, including Ordinance 2017-ZO-V-EX-S-1488 and Ordinance 2024-ZO-V-EX-S-1688. To the extent applicable, OB22 will continue to comply with all relevant standards, regulations, and procedures of the Village Code and the ordinance approving the Planned Development.

9. Ownership/Control Area: The site of the Planned Development must be under ownership and/or unified control of the applicant.*

The Property is owned and under the unified control of the Applicant, Franklin Oak Brook 22, LLC.

10. Need: A clear showing of need for the Planned Development must be made by means of an economic feasibility, land utilization and marketing study*

The use of a Planned Development mechanism is somewhat unique in this context; however, Village staff recommended it to provide maximum flexibility and efficiency in evaluating and implementing the proposed modifications, and it ais necessary for the Applicant's continued revitalization of an aging office property. The Property was purchased with the intent of reinvesting significant capital to modernize and reposition a declining office building, and those efforts have already resulted in substantial improvements and renewed viability.

The Proposed Planned Development advances this effort by allowing for more efficient use of the existing Property, enhancing its functionality, market competitiveness, and long-term economic sustainability. By facilitating continued reinvestment and adaptive reuse, the Proposed Planned Development will support higher occupancy, improve tenant experience, and increase economic productivity.

From a land utilization and market perspective, the project responds to evolving demand for modernized office environments with integrated amenities, ensuring the Property remains a relevant and competitive asset to Village.

11. Compliance with Subdivision Regulations and Plat Act: All Planned Developments, whether or not they are by definition subject to the Village's subdivision regulations or the Illinois Plat Act, shall comply with all standards, regulations and procedures of the Village's subdivision regulations and the Plat Act except as is expressly provided otherwise in this Chapter, or as otherwise provided by the Corporate Authorities pursuant to the ordinance approving the Planned Development, or the applicable sections of the Village's subdivision regulations.*

The proposed Planned Development does not anticipate subdivision of the Property or the dedication of new public improvements to the Village. To the extent applicable, OB22 will comply with all standards, regulations, and procedures of the Village's subdivision regulations and the Illinois Plat Act, except as otherwise provided by the Village Code, applicable subdivision regulations, or the ordinance approving the Planned Development.

12. Covenants and Restrictions to be Enforceable by Village: All covenants, deed restrictions, easements, and similar restrictions to be recorded in connection with the Planned Development shall provide that they may not be modified, removed, or released without the express consent of the Corporate Authorities and that they may be enforced by the Village as well as by future landowners within the proposed development.*

To the extent that any covenants, deed restrictions, easements, or similar restrictions are required to be recorded in connection with the proposed amendment and OB22, the Applicant will coordinate with the Village Attorney to ensure that such documents provide that they may not be modified, removed, or released without the express consent of the Village, and that they are enforceable by both the Village and future landowners within the Project.

13. Security and Site Control: The Planned Development shall include the plans necessary to describe, establish, and maintain appropriate property and building security and site control measures for the Planned Development and the property on which the Planned Development is located. These plans shall also include measures to prevent adverse impacts on neighboring properties. *

The Applicant will implement all necessary and appropriate measures to secure the site during construction of improvements to the Property, maintain safe conditions for authorized personnel, restrict unauthorized access, and minimize adverse impacts on neighboring properties.

Additional Standards

C. Additional Standards: In addition to the standards required in Subsection B of this Section, the following standards shall be considered in reviewing all proposed and amended Planned Developments, particularly with regard to elements of Planned Development proposals that do not satisfy the otherwise applicable provisions of the underlying zoning and subdivision regulations

1. Integrated Design: A Planned Development shall be laid out and developed as a unit in accordance with an integrated overall design. This design shall provide for safe, efficient, convenient and harmonious grouping of structures, uses and facilities, and for appropriate relation of space inside and outside buildings to intended uses and structural features.*

The existing development was designed and functions as an integrated, cohesive mixed-use development that provides for the safe, efficient, and harmonious grouping of structures, uses, and facilities. The existing building consists of two office towers connected by a unified ground-floor retail environment, creating a coordinated layout that supports both office and complementary commercial uses.

This integrated design promotes convenient circulation, efficient use of space, and a strong connection between interior and exterior areas, enhancing the Property's overall functionality. The combination of office, retail, and amenity spaces has created a balanced, synergistic environment that supports the primary office use while providing services and conveniences for tenants and visitors.

No changes are proposed in this Planned Development that would alter the established design framework. Accordingly, the Property will continue to operate as a well-integrated development consistent with the intent of this standard.

2. Beneficial Common Open Space: Any common open space in the Planned Development shall be integrated into the overall design. These open spaces shall have a direct functional or visual relationship to the main building(s) and shall not be of isolated or leftover character. *

As it currently exists, OB22 includes common open spaces that are fully integrated into the overall design and maintain a direct functional and visual relationship with the principal buildings. The existing development features a recently renovated outdoor terrace and patio, which serve as key amenities for tenants and guests, providing usable, accessible open space that complements the building's primary office use.

In addition to outdoor amenities, the Property includes indoor common spaces, such as a fitness center and a tenant lounge, which further enhance the development's functionality and cohesion. These amenities are thoughtfully incorporated into the building design and are neither isolated nor residual.

While no additional common open space is proposed as part of this Planned Development, the existing amenities will continue to provide meaningful, integrated open space consistent with the intent of this standard.

The following would not be considered usable common open space: a. Areas reserved for the exclusive use or benefit of an individual tenant or owner. b. Dedicated streets, alleys and other public rights-of-way. c. Vehicular drives, parking, loading and storage areas. d. Irregular or unusable narrow strips of land.

3. Functional and Mechanical Features: Exposed storage areas, trash and garbage retainers, exposed machinery installations, service areas, truck loading areas, utility buildings and structures, and similar accessory areas and structures shall be accounted for in the design of the Planned Development and made as unobtrusive as possible. These features shall be subject to such setbacks, special planting or other screening methods as shall reasonably be required to prevent their being incongruous with the existing or contemplated environment and the surrounding properties.*

The existing development adequately accounts for all functional and mechanical features, including service areas, loading areas, and utility installations, which are integrated into its overall design. These elements have been designed and located to be as unobtrusive as possible and are appropriately screened to ensure compatibility with the surrounding environment and adjacent properties.

No modifications to these features are proposed as part of this Planned Development. Accordingly, all such elements will remain in compliance with applicable requirements and will continue to function in a manner that is consistent with the existing and contemplated character of the Property and surrounding area.

4. Visual and Acoustical Privacy: The Planned Development shall provide reasonable visual, and acoustical privacy. Fences, insulations, walks, barriers and landscaping shall be used as appropriate for the protection and aesthetic enhancement of property and the privacy of its occupants, screening of objectionable view or uses, and reduction of noises. *

The Proposed Planned Development does not include any modifications that would negatively impact existing visual or acoustic privacy for the subject Property or surrounding uses. Noise associated with the development is expected to remain limited to typical pedestrian and vehicular activity and will not result in adverse environmental impacts.

5. Energy Efficient Design: A Planned Development shall be designed with consideration given to various methods of site design and building location, architectural design of individual structures, and landscaping design capable of reducing energy consumption within the Planned Development. The applicant will be encouraged, to the extent feasible, to obtain Leadership in Energy and Environmental Design ("LEED") certification for the project. A Planned Development applicant may also undertake the following: a. Having at least one member of the applicant's project team be a "LEED Accredited Professional" -- a person who has received the LEED Accredited Professional designation from the United States Green Building Council ("USGBC"), the Green Building Certification Institute, or another entity authorized by the USGBC to grant that designation. *

The Applicant acquired the Property in 2024 with the specific intent to reinvest in and modernize an aging office building. Through substantial capital improvements, the building has been repositioned and revitalized, extending its useful life and avoiding demolition and new construction. This adaptive reuse approach represents a sustainable development strategy by conserving resources, reducing construction waste, and minimizing environmental impacts associated with ground-up development. As such, the project inherently advances the principles underlying LEED and sustainable design, even though formal LEED certification is neither required nor recommended in this instance.

b. Having its application materials include a "LEED Checklist" developed by the U.S. Green Building Council indicating the credits pursued and total points anticipated for a project under the most appropriate LEED rating system, in consultation with the Director of Community Development. *

The Director of Community Development has not indicated that a project-specific LEED Checklist or LEED certification is necessary or recommended, as the proposed Planned Development consists of modifications to an existing structure rather than new construction.

6. Drives, Parking and Circulation: Principal vehicular access shall be from dedicated public streets, and access points shall be designed to encourage smooth traffic flow with controlled turning movements and minimum hazards to vehicular or pedestrian traffic. With respect to vehicular and pedestrian circulation, including walkways, interior drives and parking, special attention shall be given to location and number of access points to the public streets, width of interior drives and access points, general interior circulation, separation of pedestrian and vehicular traffic, adequate provision for service by emergency vehicles, and arrangement of parking areas that are safe and convenient, and insofar as feasible, do not detract from the design of proposed buildings and structures and the neighboring properties. To the extent practical, Planned Developments shall provide connections to and from existing bike and walking paths so as to ensure a continuous route without gaps or disconnections.

The Property is currently improved with adequate ingress and egress from dedicated public streets, well-designed internal circulation, and a 1,185-space structured parking facility that sufficiently serves existing tenants and uses. The proposed modifications are not expected to materially affect traffic flow or parking demand. Accordingly, no changes to existing access points, drive aisles, parking areas, or circulation patterns are proposed as part of this Planned Development.

7. Surface Water Drainage: Special attention shall be given to proper site surface drainage so that removal of surface waters will not adversely affect neighboring properties or the public storm drainage system. Surface water in all paved areas shall be collected at intervals so that it will not obstruct the flow of vehicular or pedestrian traffic.*

The proposed Planned Development does not include any modifications to the existing storm drainage system and will not adversely affect neighboring properties or the public storm drainage system. Surface water in paved areas will continue to be collected at appropriate intervals to prevent interference with vehicular and pedestrian traffic, consistent with the approved Planned Development.

Acknowledgement

I (we) certify that all of the above statements and the statements contained in any documents or plans submitted herewith are true to the best of my (our) knowledge and belief. I (we) give permission to the Village to install public hearing sign(s) on the lot frontages of the above subject property as described in the Village Code. In addition to the above fees, applicant agrees to reimburse the Village for publication costs within 30 days of billing.*

Kelsea Neal Nolot
Apr 17, 2026

Signature of Applicant: I agree that my electronic signature is equivalent to a handwritten signature and is binding for all purposes related to this transaction.*

Kelsea Neal Nolot
Apr 17, 2026

Elrod Friedman LLP

350 North Clark Street
Second Floor
Chicago, Illinois 60654
312-528-5200
www.elrodfriedman.com

Kelsea Neal Nolot
[redacted]

Memorandum

Date: April 17, 2026

To: Rebecca Von Drasek
Director – Development Services

From: Peter M. Friedman
Kelsea Neal Nolot

Re: Oak Brook 22: Application for a Planned Development
Letter of Explanation
1211-1315 West 22nd Street, Oak Brook, Illinois

Franklin Oak Brook 22, LLC (the "***Applicant***"), owner of the property commonly known as Oak Brook 22 ("***OB22***" or the "***Property***"), respectfully submits this request for a Planned Development to facilitate targeted tenant improvements and site enhancements within an existing, fully developed mixed-use office development located at 1211–1315 West 22nd Street in Oak Brook, Illinois.

This application represents the continued evolution and reinvestment in a prominent and established office property in the heart of the Oak Brook commercial corridor. Since acquiring the Property in 2022, the Applicant has undertaken significant capital improvements to modernize and reposition an aging office building, successfully extending its useful life and enhancing its competitiveness in today's market. The proposed Planned Development is a natural continuation of that effort, enabling strategic, high-quality tenant activations that enhance the Property's functionality, economic performance, and long-term viability.

Key components of the proposed Planned Development include:

- Introduction of a boutique fitness studio (Solidcore) within an existing ground-floor tenant space;
- Construction of a permanent enclosed indoor/outdoor dining structure for the existing restaurant tenant, STK Restaurant, replacing a seasonal patio within the same footprint; and
- Limited zoning relief to accommodate these improvements in a coordinated and efficient manner.

These improvements are modest in scale, occur entirely within an existing developed site, and are intended to enhance, not alter, the established character of the Property.

I. Property and Development Overview

The Property is located within the O-3 Office District and consists of an approximately 400,000-square-foot mixed-use development featuring two 11-story office towers connected by a ground-floor retail concourse. The Property is supported by a 1,185-space structured parking facility and is strategically

positioned at the highly visible intersection of 22nd Street and Spring Road, adjacent to the I-88 interchange and across from Oakbrook Center.

OB22 has long served as a premier office destination within the Village, complemented by a mix of retail and dining uses that support both tenants and visitors. The Property's design integrates office, retail, dining, and amenity spaces into a cohesive environment that promotes efficient circulation, shared parking, and a strong relationship between interior and exterior spaces.

Recent reinvestment, including new restaurant offerings and upgraded tenant amenities, has further strengthened the Property's role as a modern mixed-use campus aligned with evolving market expectations.

II. Proposed Planned Development Improvements

The Planned Development seeks to facilitate two primary improvements:

1. Boutique Fitness Studio: Solidcore

The Applicant proposes to introduce a high-quality boutique fitness operator within an existing ground-floor tenant space. The use is characterized by scheduled, small-group classes with controlled occupancy, resulting in minimal impacts on parking and circulation. This use enhances tenant amenities, increases daily activity within the building, supports surrounding retail and dining uses, and increases tax generation within the Village.

2. Enclosed Dining Structure: STK Restaurant

The Applicant proposes to replace an existing seasonal outdoor patio with a permanent enclosed indoor/outdoor dining structure within the same footprint, similar to the nearby indoor/outdoor dining area at Wildberry Pancakes and Cafe. This improvement will allow for year-round use, enhance the dining experience, and support the long-term success of the existing restaurant tenant. No expansion of the building footprint or material changes to site layout, circulation, parking, drainage, or infrastructure are proposed as part of this request for a Planned Development.

III. Planned Development Framework and Zoning Relief

The Applicant seeks approval of a planned development to enable coordinated review and approval of the proposed improvements, including limited relief from underlying zoning requirements regarding permitted uses, setbacks, and floor area ratio.

The use of a planned development in this instance is appropriate and was recommended by Village Staff to provide maximum efficiency and flexibility in evaluating the proposed modifications. This approach:

- Consolidates approvals into a single, comprehensive review process;
- Ensures consistency with the Property's integrated mixed-use design; and
- Establishes a clear regulatory framework for future tenant improvements.

Importantly, the requested relief is limited in scope and tailored to the unique circumstances of an existing, fully developed property undergoing adaptive reuse and modernization.

IV. Consistency with Village Planning Objectives

The proposed Planned Development is consistent with the Village of Oak Brook's Comprehensive Plan and supports its goals for maintaining and enhancing high-quality office and commercial environments. The Property is located within a zoning district intended for office and commercial uses, and the proposed improvements reinforce its continued viability as a premier office destination.

The project advances key Village objectives by:

- Encouraging reinvestment in existing commercial properties;
- Supporting adaptive reuse as a sustainable development strategy;
- Enhancing tenant amenities and retails uses through mixed-use destinations; and
- Promoting long-term economic productivity and sales tax generation.

Rather than introducing greater intensity or fundamentally changing the site, the Planned Development builds upon an already successful integrated development and allows the Village to realize greater benefit from its existing assets.

V. Infrastructure, Parking, and Operations

OB22 is fully served by existing infrastructure, including utilities, roadways, and stormwater management systems. No modifications are proposed that would impact these systems.

The existing 1,185-space parking structure provides ample capacity to accommodate all users. The proposed uses are complementary, with staggered peak demand periods and operational characteristics that minimize parking and traffic impacts. Village Staff have confirmed that no changes to parking or circulation strategies are necessary.

VI. Economic and Community Benefits

The Planned Development represents a continued investment in the long-term success of OB22 and the Village as a whole. By enhancing tenant amenities and supporting high-quality retail, dining, and personal service uses, the project:

- Strengthens the Property's competitiveness in the regional office market;
- Supports tenant retention and attraction;
- Increases foot traffic and economic activity; and
- Contributes to the Village's tax base.

Moreover, the adaptive reuse and modernization of the existing structure reflect a sustainable development approach, avoiding the environmental and economic costs associated with demolition and new construction.

VII. Next Steps

Thank you for the opportunity to present the next phase of the Oak Brook 22 development to the Planning & Zoning Commission for a public hearing on June 3, 2026. The proposed Planned Development for OB22 represents a thoughtful and measured evolution of an established mixed-use property. The requested relief is limited in scope, consistent with the Property's existing design and function, and aligned with the Village's planning goals.

Additional development of OB22 in accordance with this proposal will support continued reinvestment in the Property by enhancing building functionality, tenant placemaking, market competitiveness, and, ultimately, its long-term economic sustainability.

VIII. OB22 Development Team

Franklin Partners has assembled a development team with the expertise, financial capability, Oak Brook-specific experience, and creativity to ensure the complete and successful execution of the proposed Planned Development and to continue revitalizing Oak Brook 22.

Developer – Franklin Partners

Since 1995, Franklin Partners has focused on quality and innovation, impacting more than 50 million square feet across development, property management, and new construction. Our portfolio spans Illinois, Missouri, Michigan, and Ohio with a focus on commercial office, industrial, and land development. We respect culture and innovation, and this mindset impacts everything we do. We work with the best industry experts and are motivated by what hasn't been done yet, taking great pride in our hospitality-inspired property management and leading-edge development.

Project Architect – Form Design Studio

Form Design Studio believes that architectural philosophy strikes a balance among function, efficiency, context, and aesthetics; what looks good can work well; and what works well endures. Its mission is to understand every aspect of each client's workplace environment and company culture. It believes that close client collaboration produces the optimal workplace environment.

Design is not about decoration; it's a critical component of how people communicate, collaborate, work, rest, and play. This is reflected in the spaces it creates, illustrating its ability to connect with our clients and their needs.

Its extensive expertise in commercial interior design, facility systems, and office technology, along with a detailed understanding of architecture and building systems, is perfect for both tenants and landlords to incorporate new design into their spaces.

Legal Counsel – Elrod Friedman LLP

Elrod Friedman LLP and Peter Friedman have extensive experience in zoning, entitlement, and land development matters. Having previously worked on establishing the Village's Planned Development regulations and having served for five years as Village Attorney, Mr. Friedman and his firm are uniquely able to guide the Oak Brook 22 through the Village review process in accordance with all Village planning and zoning regulations.

Franklin Partners
1900 Spring Road, Suite 100
Oak Brook, Illinois 60523

April 24, 2026

Ms. Rebecca Von Drasek
Director, Development Services
Village of Oak Brook
1200 Oak Brook Road
Oak Brook, Illinois 60523

Re: Oak Brook 22

Dear Ms. Von Drasek:

Franklin Partners, LLC, d/b/a Franklin Oak Brook 22, LLC, is the owner of the property located at 1211-1315 West 22nd Street, Oak Brook, Illinois, commonly known as Oak Brook 22. This letter confirms that we consent and support the filing of an application for a Planned Development by our attorney, Elrod Friedman LLP, for a Planned Development and other zoning relief as necessary. We authorize Elrod Friedman LLP to present an application to Village Staff and appear before the Village Board of Trustees and Planning and Zoning Committee in connection with the application.

Sincerely,

Raymond Warner
Franklin Partners, LLC

MAKE CHECK PAYABLE TO: DU PAGE COLLECTOR - SEND THIS COUPON WITH YOUR 1ST INSTALLMENT PAYMENT OF 2024 Tax

MAIL PAYMENT TO: P.O. BOX 4203, CAROL STREAM, IL 60197-4203
PAY ON-LINE AT: www.dupagecounty.gov/treasurer
SEE REVERSE SIDE FOR ADDITIONAL INFORMATION

06-26-100-014
FRANKLIN OAK BROOK 22 LLC
1900 SPRING RD STE 100
OAK BROOK IL 60523-1478

1

ON OR BEFORE:	PAY:
JUN 02, 2025	0.00

PAYING LATE?	PAY THIS AMOUNT:
JUN 3 THRU 30	0.00
JUL 1 THRU 31	
AUG 1 THRU 31	
SEP 1 THRU 30	
OCT 1 THRU 31	
NOV 1 THRU 19	

U.S. POSTMARK IS USED TO DETERMINE LATE PENALTY.

PAYMENT OF THIS 2024 TAX BILL AFTER OCTOBER 31, 2025, REQUIRES A CASHIER'S CHECK, CASH OR MONEY ORDER.

☐ CHECK BOX AND COMPLETE CHANGE OF ADDRESS ON BACK.

NO PAYMENT WILL BE ACCEPTED AFTER NOV 19, 2025

$217,868.93 PAID May 12, 2025

10626100014261430021786893 41

MAKE CHECK PAYABLE TO: DU PAGE COLLECTOR - SEND THIS COUPON WITH YOUR 2ND INSTALLMENT PAYMENT OF 2024 Tax

MAIL PAYMENT TO: P.O. BOX 4203, CAROL STREAM, IL 60197-4203
PAY ON-LINE AT: www.dupagecounty.gov/treasurer
SEE REVERSE SIDE FOR ADDITIONAL INFORMATION

06-26-100-014
FRANKLIN OAK BROOK 22 LLC
1900 SPRING RD STE 100
OAK BROOK IL 60523-1478

2

ON OR BEFORE:	PAY:
SEP 02, 2025	0.00

PAYING LATE?	PAY THIS AMOUNT:
SEP 3 THRU 30	
OCT 1 THRU 31	0.00
* NOV 1 THRU 19	

*INCLUDES $10 COST: SEE BACK OF BILL FOR EXPLANATION

U.S. POSTMARK IS USED TO DETERMINE LATE PENALTY.

PAYMENT OF THIS 2024 TAX BILL AFTER OCTOBER 31, 2025, REQUIRES A CASHIER'S CHECK, CASH OR MONEY ORDER.

☐ CHECK BOX AND COMPLETE CHANGE OF ADDRESS ON BACK.

NO PAYMENT WILL BE ACCEPTED AFTER NOV 19, 2025

$217,868.93 PAID August 01, 2025

20626100014261430021786893 42

Rate 2023	Tax 2023	Taxing District	Rate 2024	Tax 2024
		** COUNTY **		
NO LEVY	0.00	COUNTY OF DU PAGE	0.0832	9,725.40
NO LEVY	0.00	PENSION FUND	0.0165	1,928.72
NO LEVY	0.00	HEALTH DEPARTMENT	0.0250	2,922.30
NO LEVY	0.00	PENSION FUND	0.0114	1,332.56
NO LEVY	0.00	FOREST PRESERVE DIST	0.1213	14,178.98
NO LEVY	0.00	PENSION FUND	0.0097	1,133.86
NO LEVY	0.00	DU PAGE AIRPORT AUTH	0.0122	1,426.08
		** LOCAL **		
NO LEVY	0.00	DU PAGE WATER COMM	NO LEVY	0.00
NO LEVY	0.00	YORK TOWNSHIP	0.0425	4,967.92
NO LEVY	0.00	PENSION FUND	0.0020	233.78
NO LEVY	0.00	YORK TWP ROAD	0.0443	5,178.30
NO LEVY	0.00	PENSION FUND	0.0008	93.52
NO LEVY	0.00	VLG OF OAK BROOK	NO LEVY	0.00
NO LEVY	0.00	OAK BROOK PARK DIST	0.2842	33,220.66
NO LEVY	0.00	PENSION FUND	0.0219	2,559.94
NO LEVY	0.00	FLAGG CRK WATER REC	NO LEVY	0.00
		** EDUCATION **		
NO LEVY	0.00	GRADE SCHOOL DIST 53	1.2255	143,251.00
NO LEVY	0.00	PENSION FUND	0.0148	1,730.00
NO LEVY	0.00	HIGH SCHOOL DIST 86	1.5964	186,606.20
NO LEVY	0.00	PENSION FUND	0.0366	4,278.24
NO LEVY	0.00	COLLEGE DU PAGE 502	0.1794	20,970.40
		** TIF **		
0.0000	0.00	TOTALS	3.7277	435,737.86
2023		Assessed Value	2024	11,689,188

Mailed to:
FRANKLIN OAK BROOK 22 LLC
1900 SPRING RD STE 100
OAK BROOK IL 60523-1478

Property Location:
1211-1315 W 22ND ST
OAK BROOK IL 60523-2006

Township Assessor:
YORK
630-627-3354

Tax Code:
6143

Property Index Number:
06-26-100-014

CHANGE OF NAME/ADDRESS:
CALL: 630-407-5900

*** S OF A FACTOR 1.0786**

1st INST PAID May 12, 2025
2nd INST PAID August 01, 2025

TIF Frozen Value	
Fair Cash Value	35,071,100
Land Value	4,372,252
+ Building Value	7,316,936
= Assessed Value	**11,689,188 ***
x State Multiplier	1.0000
- Equalized Value	11,689,188
- Residential Exemption	
- Senior Exemption	
- Senior Freeze	
- Disabled Veteran	
- Disability Exemption	
- Returning Veteran Exemption	
- Home Improvement Exemption	
- House Abatement	
= Net Taxable Value	11,689,188
x Tax Rate	3.7277
= Total Tax Due	435,737.86
- Less Advance Payment	
- Commercial Abatement	
+ PACE Reimbursement	
= Net Due as of 03/23/26	0.00

2024 DuPage County Real Estate Tax Bill
Gwen Henry, CPA, County Collector
421 N, County Farm Road
Wheaton, IL 60187

Office Hours - 8:00 am -4.30 pm, Mon - Fri
Telephone = (630) 407-5900

WAIVERS and VARIATIONS
(Site Development Departures)

Zoning Ordinance Section	Brief description of each waiver or variation sought	Fee Each
13-10D-1	A fitness facility as a permitted use in a planned development.	$ 500.00
13-10D-3	A reduction of the front yard setback requirement from 100 feet to 87 feet, to allow for development of a permanent enclosure of the existing patio, but within its current footprint.	$500.00

(To continue copy or retype form and Attach additional sheets if necessary)

PLANNED DEVELOPMENT - SITE DEVELOPMENT ALLOWANCES:
Section: 13-15-4

WAIVERS and VARIATIONS
(Site Development Departures)

Proposed site development characteristics that are not consistent with the Zoning Regulations otherwise applicable to the property on which a Planned Development or Planned Development amendment is proposed, may be approved in accordance with this Chapter as part of the ordinance approving the Planned Development or Planned Development amendment. The applicant shall specifically identify each site development departure and demonstrate how each departure will be compatible with surrounding development and is not inconsistent with the Planned Development standards set forth in Section 13-15-3 of this Chapter. Each departure shall be specifically stated and approved in the ordinance approving the Planned Development or Planned Development amendment. Any approved departures from the otherwise applicable Zoning Regulations shall not be deemed a nonconformity and shall not require a variation.

Identify each waiver below and if applicable refer to the page(s) of the site development plan that the departure can be found.

Code Section 13-10D-3 **Relief Sought** A fitness facility as a permitted use in a planned development.

RESPONSE: See accompanying narrative.

Code Section 13-10D-3 **Relief Sought** • A reduction of the front yard setback requirement from 100 feet to but within its current footprint.

87 feet, to allow for development of a permanent enclosure of the existing patio,

RESPONSE: See accompanying narrative.

(To continue, Copy or retype form and attach additional sheets if necessary)

13-15-5: PROCEDURES:

The following procedures are required to assure the orderly review of every planned development application in a timely and equitable manner:

A. Preliminary Board Review:

1. A prospective applicant, prior to meeting with village staff for a formal prefiling review, shall appear before the corporate authorities for a preliminary board review. At a minimum, the applicant shall provide the following materials to the corporate authorities for its preliminary review: a) a preliminary concept plan of the development, and b) a brief narrative describing the overall character, intensity, uses, and nature of the proposed planned development. Prior to submission to the corporate authorities, the Director of Development Services will review the materials to confirm that the materials provide sufficient information to adequately inform the corporate authorities of the nature and scope of the proposed planned development. If sufficient information is provided, the applicant shall coordinate with the village manager to be placed on a corporate authorities agenda and scheduled for the earliest appropriate corporate authorities meeting.

2. The purpose of the preliminary board review shall be to broadly acquaint the corporate authorities with the applicant's proposal and to provide the applicant with any preliminary views or concerns that members of the corporate authorities may have at a time in the process when positions are still flexible and adjustment is still possible and prior to the time when the applicant is required to expend the funds necessary to prepare the complete documentation required for a formal application.

3. At the meeting at which the preliminary board review is conducted, any member of the corporate authorities may make any comments, suggestions or recommendations regarding the preliminary development concept plan deemed necessary or appropriate by that member; provided, however, that no final or binding action shall be taken with respect to any preliminary application. Any views expressed in the course of the corporate authorities' review of any preliminary development concept plan shall be deemed to be only preliminary and advisory and only the individual views of the member expressing them. Nothing said or done in the course of such review shall be deemed to create, or to prejudice, any rights of the applicant or to obligate the corporate authorities, or any member of it, to approve or deny any formal application following full consideration as required by this chapter.

COMPLETED DATE: _____

B. Prefiling Review And Transmittal Of Application:

1. Conference:

a. Following the preliminary board review, a prospective applicant, prior to submitting a formal application for a planned development, shall meet for a prefiling review conference with the village manager, the Director of Development Services, and any other village official or employee designated by the village manager. The purpose of the conference is to assist the applicant in understanding the comprehensive plan, the requirements of this chapter, the zoning regulations, the site development allowances, the standards by which the application will be evaluated, and the application requirements.

b. After reviewing the planned development process, the applicant may request a waiver of any application requirement which in the applicant's judgment should not apply to the proposed planned development. The justification for a waiver must be that the application requirement should not apply because it does not relate and is not necessary given the nature and scope of the proposed planned development. All requests for application waivers shall be made in writing to the community development director prior to the submission of the formal application documents.

c. All requests for waiver shall be reviewed by the Director of Development Services, who will make a final determination regarding the waiver within fifteen (15) working days of receipt of the request.

d. If deemed appropriate by the Director of Development Services, the applicant, prior to submitting a formal application for a planned development, will schedule a public meeting to discuss the proposed planned development and the nature and extent of impact, if any, on area residents. If a meeting is required, the applicant shall send a written notice of the meeting via certified mail to all taxpayers of record and residents for all property within five hundred feet (500') of the proposed planned development. The notice shall be mailed not more than thirty (30) nor less than fifteen (15) days prior to the date of the meeting. A copy of the notice and mailing list shall be provided to the Director of Development Services. A written summary of comments made at the meeting shall be maintained and submitted by the applicant with the application.

2. Filing Of Application: Following the completion of the prefiling review conference, the applicant shall file an application for a planned development in accordance with this chapter. The Director of Development Services shall deliver copies of the application to other appropriate village departments for review and comment.

3. Deficiencies: The Director of Development Services shall determine whether the application is complete. If the Director of Development Services determines that the application is not complete, then the Director of Development Services shall notify the applicant in writing of the deficiencies and shall take no further steps to process the application until the deficiencies are remedied.

4. Report On Compliance: A copy of the complete application and a written report incorporating the comments of village staff and other agencies regarding the compliance of the proposed planned development with the requirements and standards of this chapter shall be delivered to the planned development commission prior to the public hearing required by subsection C of this section.

5. Determination Not Binding: Neither the development services director's determination that an application is complete nor any comment made by the Director of Development Services or village staff at a prefiling review conference or as part of the review process shall be intended or construed as a formal or informal recommendation for or against the approval of a proposed planned development, or any component part thereof, nor shall they be intended or construed as a binding decision of the village, the planning & Zoning commission, or village staff.

6. The application will be referred to the P&Z Commission by the Village Board.

COMPLETED DATE:_____

C. Review And Action By The Planning & Zoning Commission:

1. Upon receiving the report from the Director of Development Services, and referral from the Village Board, the planning & Zoning commission shall hold a public hearing on the proposed planned development.

2. Notice of the required public hearing shall be published by the village, at the applicant's expense, not more than thirty (30) nor less than fifteen (15) days before the scheduled hearing in a newspaper of general circulation in the village and shall contain the following information:

a. The identification number designation of the application;

b. The date and time of the public hearing;

c. The location of the public hearing; and

d. The general location of the property, the legal description of the property and its street address, if applicable, and a short description of the proposed planned development and purpose of the public hearing.

3. Notice of the required public hearing shall also be provided by the village, at the applicant's expense, by posting a sign or signs on the property not more than thirty (30) days nor less than fifteen (15) days prior to the public hearing. The sign shall be weatherproof and contain the information as is required in subsection C2 of this section. Failure to post the sign(s) and/or the inadvertent removal or knocking down (by the village or others) of the sign after posting but before the public hearing shall not invalidate, impair, or otherwise affect any planned development subsequently granted following the public hearing, nor shall it require a postponement of the public hearing.

4. Notice of the required public hearing shall also be provided by the applicant by certified U.S. mail, return receipt requested, to the taxpayers of record and owners of record of the property which is the subject of the application (if different than the applicant), and the taxpayers of record and residents of all property within five hundred feet (500') of the subject property. The notice shall contain the information as is required in subsection C2 of this section and shall be mailed not more than thirty (30) nor less than fifteen (15) days prior to the date of the public hearing. The notice shall also include the name and address and phone number of the applicant for the planned development.

5. The transcript of testimony, if any, the commission's minutes, all applications, requests, exhibits, and papers filed in the proceeding before the commission, and the decision and report, or reports, of the commission shall constitute the record for that particular application.

6. The planning & Zoning commission shall review the application, the standards and requirements established by this chapter, the report of the community development director, and any oral and written comments and testimony received by the planning & Zoning commission before and at the public hearing. The planning & Zoning commission shall recommend approval, approval with conditions, or disapproval of the proposed planned development.

7. Every recommendation of the commission upon any application filed pursuant to this chapter shall be by a written resolution and shall include such findings of fact and conclusions as the commission shall deem necessary. The findings shall generally refer to the evidence in the record and to the exhibits, plans, or specifications upon which the recommendation is based. The findings shall generally specify the reason or reasons for the recommendation and shall contain a conclusion or statement separate from the findings setting forth the recommendation of the commission.

The findings shall expressly set forth any limitations or conditions recommended by the commission. In order to make a recommendation to approve (with or without conditions) or a recommendation to deny a proposed planned development or an amendment to an existing planned development, the affirmative vote of a majority of all members of the commission then holding office shall be required.

D. Review And Action By The Corporate Authorities:

1. Within sixty (60) days of receipt of the report and recommendation of the planning & Zoning commission, and without further public hearing, the corporate authorities shall, at a minimum, commence consideration of the proposed planned development. The corporate authorities will attempt to conclude its consideration and render a final decision as soon as possible within that sixty (60) day time period, but may extend its consideration as necessary to allow a full and complete review and consideration of the proposed planned development. Following its consideration, the corporate authorities shall: a) deny the application; b) refer the application back to the planned development commission for further review and, if necessary, additional public hearings; c) postpone further consideration pending the submittal of additional information, including any application requirement previously waived but deemed necessary by the village for its consideration; or d) adopt an ordinance approving the planned development.

2. Any action taken by the corporate authorities pursuant to subsection D1 of this section shall require the concurrence of a majority of the corporate authorities; provided, however, that any proposed planned development that does not receive a recommendation of approval (with or without conditions) from the planned development commission shall not be approved by the corporate authorities except by the affirmative vote of two-thirds ($^2/_3$) of the corporate authorities.

3. In approving a planned development, the corporate authorities may attach such conditions to the approval as it deems necessary to have the proposed use or combination of uses meet the standards set forth in this chapter and to prevent or minimize adverse effects on other property in the immediate vicinity. The conditions may include, but are not limited to: impact donations and other related fees or property or monetary contributions; limitations on size, bulk, location, and setbacks; requirements for landscaping, signage, and outdoor lighting; provisions for adequate ingress and egress; hours of operation; and such other conditions as the corporate authorities may deem necessary in furtherance of the objectives of this chapter.

E. Exemptions: At the election of the applicant, the planned development provisions of this chapter shall not apply to an existing development or a proposed development project that satisfies all of the underlying zoning regulations applicable to the property. In such case, the proposed development will be subject to the processes of the village that are applicable to any new construction project. (Ord. G-890, 7-14-2009; Ord. G-904, 11-10-2009)

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NAMES OF SURROUNDING PROPERTY OWNERS

Following are the names and addresses of all surrounding property owners from the property in question for a distance of **at least 500 feet in all directions.** The number of feet occupied by all public roads, streets, alleys, and public ways have been **excluded** in computing the 500-foot requirement. Said names are as recorded in the office of the County Recorder of Deeds (or the Registrar of Titles of the County) and as they appear from the authentic tax records of this County (Township Assessor's Office) within 30 days of the filing of this application. Notice must be sent by Certified Mail.

NAME OF PROPERTY OWNER	MAILING ADDRESS OF PROPERTY OWNER	PROPERTY ADDRESS	PARCEL NUMBER
See attached.			

(Attach additional sheets if necessary)

Docusign Envelope ID: 19E0E0E5-0443-84D1-80E0-40F97FBB6376

Certification
SURROUNDING PROPERTY OWNERS

I (we) certify that the names and addresses of all the surrounding property owners including certified mailing submitted with this application are located within a minimum distance of 500 feet in all directions from the perimeter of the subject property, excluding all streets and right-of-ways.

Said names and addresses are as they appear from the authentic tax records of the Township Assessor's Office of this County. The property owners as listed have been obtained from the Township Assessors office within 30 days of the filing of this application.

The surrounding property owners list as submitted herewith and supporting attachments are true to the best of my (our) knowledge and belief.

I (we) give permission to the Village to install public hearing sign(s) on the lot frontages of the subject property as described in the Village Code. In addition to the required application fees, applicant/owner agrees to reimburse the Village for all costs/fees, publication costs, recording fees, and any other associated costs or fees as contained in Section 13-15-C within 30 days of billing.

RELEASE: By submitting the application and related information, applicant is aware that all information submitted is subject to FOIA rules (Freedom of Information Act).

Ray Warner		Kelsea Neal Nolot	
Printed Name of Owner		Printed Name of Applicant	
[redacted]	4/30/2026	Kelsea Neal Nolot Digitally signed by Kelsea Neal Nolot Date: 2026.04.30 09:55:25 -05'00'	4/30/26
Signature of Owner	Date	Signature of Applicant	Date

BILL TO INFORMATION:

Elrod Friedman LLP	Kelsea Neal Nolot	[redacted]
Print Name/Company	Contact Person	Contact Phone
350 North Clark Street, Second Floor, Chicago IL 60654		[redacted]
Address To be Billed		Email Address

NOTE: If the applicant/owner has not complied with these requirements and as a result the notification has not been sent to a neighboring property owner within the 500-foot requirement less than 10 days prior to the scheduled hearing, the hearing on this matter will be postponed to the next regular meeting, or until such time as all neighbors within the 500-foot requirement have been sent proper notification.

Docusign Envelope ID: 19E0E0E5-0443-84D1-80E0-40F97FBB6376

NAME OF PROPERTY OWNER	MAILING ADDRESS OF PROPERTY OWNER	PROPERTY ADDRESS	PARCEL NUMBER
MACYS	145 PROGRESS PL SPRINGDALE OH 45246	1 OAKBROOK CNTR OAK BROOK IL 60521	0623300029
OAK BROOK SHOPPING CENTER	PO BOX 101042 CHICAGO IL 60610-9909	22ND & 83RD OAK BROOK IL 60523	0623300033
LT PROPCO LLC	PO BOX 101042 CHICAGO IL 60610-9909	RT 83 & 22ND ST OAK BROOK IL 60521	0623300043
OAK BROOK SHOPPING CENTER	PO BOX 101042 CHICAGO IL 60610-9909	120 OAKBROOK CTR OAK BROOK IL 60523	0623300044
OAK BROOK SHOPPING CENTER	PO BOX 101042 CHICAGO IL 60610-9909	22ND & SPRING RD OAK BROOK IL 60521	0623300050
OAK BROOK SHOPPING CENTER	PO BOX 101042 CHICAGO IL 60610-9909	22ND & 83RD OAK BROOK IL 60523	0623300054
OAK BROOK SHOPPING CENTER	PO BOX 101042 CHICAGO IL 60610-9909	22ND & 83RD OAK BROOK IL 60523	0623300054
OAK BROOK SHOPPING CTR BR	PO BOX 101042 CHICAGO IL 60610-9909	22ND & SPRING RD OAK BROOK IL 60521	0623300056
RESTORATION HARDWARE	15 KOCH RD CORTE MADERA CA 94925	22ND & SPRING RD OAK BROOK IL 60521	0623300057
COMMERCE PLAZA PROP LLC	401 N MICHIGAN UNIT 1300 CHICAGO IL 60611-4271	2001 SPRING RD OAK BROOK IL 60523-1812	0623404032
2105 SPRING ROAD LLC	750 N ORLEANS NO 210 CHICAGO IL 60654	2105 SPRING RD OAK BROOK IL 60523	0623406013
2105 SPRING ROAD LLC	750 N ORLEANS NO 210 CHICAGO IL 60654	SPRING RD OAK BROOK IL 60523	0623406016
HINES INTEREST LTD PRTNR	444 W LAKE ST UNIT 2400 CHICAGO, IL 60606	2125 SPRING RD OAK BROOK IL 60523	0623406019
HINES INTEREST LTD PRTNR	444 W LAKE ST UNIT 2400 CHICAGO, IL 60606	1120 W 22ND ST OAK BROOK IL 60523	0623406021
UC PROPERTIES LLC	1319 GREENDALE AVE PARK RIDGE IL 60068-2066	1170 22ND ST OAK BROOK IL 60523	0623406022
OAKBROOK RESIDENCES OWNER	444 W LAKE ST UNIT 2400 CHICAGO IL 60606-0090	2150 MC DONALD DR OAK BROOK IL 60523	0623406023

Docusign Envelope ID: 19E0E0E5-0443-84D1-80E0-40F97FBB6376

DAKOTA PARTNERSHIP	810 QUINCY ST RAPID CITY SD 57701	1150 22ND ST OAK BROOK IL 60523	0623406024
HINES INTEREST LTD PRTNR	444 W LAKE ST UNIT 2400 CHICAGO, IL 60606	1120 W 22ND ST OAK BROOK IL 60523	0623406025
HINES INTEREST LTD PRTNR	444 W LAKE ST UNIT 2400 CHICAGO, IL 60606	1101 COMMERCE DR OAK BROOK IL 60523	0623407012
HINES INTEREST LTD PRTNR	444 W LAKE ST UNIT 2400 CHICAGO, IL 60606	1120 W 22ND ST OAK BROOK IL 60523	0623407015
WILDBERRY PANCAKES & CAFE	1783 N MILWAUKEE AVENUE LIBERTYVILLE IL 60048	1100 22ND ST OAK BROOK IL 60523	0623407018
ASVRF OAK BROOK REGENCY	P O BOX 847 CARLSBAD CA 92018	1415 W 22ND ST OAK BROOK IL 60523	0626100009
VH M OAKBROOK ILLINOIS	860 REMINGTON RD SCHAUMBURG IL 60173	1401 W 22ND ST OAK BROOK IL 60523-2009	0626100015
PAN-AMERICAN LIFE INSURAN	1200 JORIE BLVD OAK BROOK IL 60523	1200 JORIE BLVD OAK BROOK IL 60523	0626101010
GALAXY IL WI LP	700 DRESHER RD UNIT 150 HORSHAM PA 19044-0138	2222 KENSINGTON CT OAK BROOK IL 60523	0626101012
NICOR GAS / SOUTHERN CO	241 RALPH MCGILL BLVD NE BIN #10139 ATLANTA GA 30308	JORIE BLVD OAK BROOK IL 60523	0626101021
WINDFALL OAK BROOK LLC	1300 KENSINGTON RD OAK BROOK IL 60523-2107	1300 KENSINGTON RD OAK BROOK IL 60523	0626101023
LIZZADRO MUSEUM	1220 KENSINGTON RD NO 100 OAK BROOK IL 60523	1220 KENSINGTON RD # 1 OAK BROOK IL 60523-2113	0626103001
OAK BROOK GATEWAY LLC	248 ADDIE ROY RD NO A-204 AUSTIN TX 78746	1111 W 22ND ST OAK BROOK IL 60523	0626200009
STELLCO PROPERTIES LLC	24W500 MAPLE NO 211 NAPERVILLE IL 60540	1100 JORIE BLVD OAK BROOK IL 60523-2242	626201008
1010 JORIE BOULEVARD LLC	21 SPINNING WHEEL HINSDALE IL 60521	900 JORIE BLVD OAK BROOK IL 60523	0626201019
LEGACY OF N BARRRINGTON	1110 JORIE BLVD UNIT 202 OAK BROOK IL 60523-2271	1110 JORIE BLVD OAK BROOK IL 60523	0626201026

Docusign Envelope ID: 19E0E0E5-0443-84D1-80E0-40F97FBB6376

BUTLER NATIONAL GOLF CLUB	2616 S YORK RD OAK BROOK IL 60523	2616 YORK RD OAK BROOK IL 60523	0626202002

Elrod Friedman LLP

350 North Clark Street
Second Floor
Chicago, Illinois 60654
312-528-5200
www.elrodfriedman.com

Kelsea Neal Nolot
[redacted]

Memorandum

Date: April 17, 2026

To: Rebecca Von Drasek
Director – Development Services

From: Peter M. Friedman
Kelsea Neal Nolot

Re: Oak Brook 22: Application for a Planned Development
Engineering Plans
1211-1315 West 22nd Street, Oak Brook, Illinois

Given the limited scope of the requested relief and the absence of any changes to the building's external engineering, no modifications to site drainage, stormwater detention, or maintenance systems are proposed or required. The existing stormwater management infrastructure will remain in place and continue to function as designed and previously approved. Accordingly, no additional drainage or stormwater studies or plans are included with this application.

Elrod Friedman LLP

350 North Clark Street
Second Floor
Chicago, Illinois 60654
312-528-5200
www.elrodfriedman.com

Kelsea Neal Nolot
[redacted]

Memorandum

Date: April 17, 2026

To: Rebecca Von Drasek
Director – Development Services

From: Peter M. Friedman
Kelsea Neal Nolot

Re: Oak Brook 22: Application for a Planned Development
Economic Analysis
1211-1315 West 22nd Street, Oak Brook, Illinois

Given the limited scope and nature of the relief requested, no economic or fiscal impact study is warranted for this Planned Development. The proposed modifications involve minor tenant improvements within an existing, fully developed property. Accordingly, no economic study was conducted in connection with this application.

Elrod Friedman LLP

350 North Clark Street
Second Floor
Chicago, Illinois 60654
312-528-5200
www.elrodfriedman.com

Kelsea Neal Nolot
[redacted]

Memorandum

Date: April 17, 2026

To: Rebecca Von Drasek
Director – Development Services

From: Peter M. Friedman
Kelsea Neal Nolot

Re: Oak Brook 22: Application for a Planned Development
Photometric Plans-Lighting Report
1211-1315 West 22nd Street, Oak Brook, Illinois

No changes to the existing exterior lighting or photometric design are proposed as part of the proposed Planned Development. The current lighting system will remain in place and continue to operate as previously approved. Because the proposed modifications do not affect site lighting levels or distribution, no additional photometric studies were conducted.

Elrod Friedman LLP

350 North Clark Street
Second Floor
Chicago, Illinois 60654
312-528-5200
www.elrodfriedman.com

Kelsea Neal Nolot
[redacted]

Memorandum

Date: April 17, 2026

To: Rebecca Von Drasek
Director – Development Services

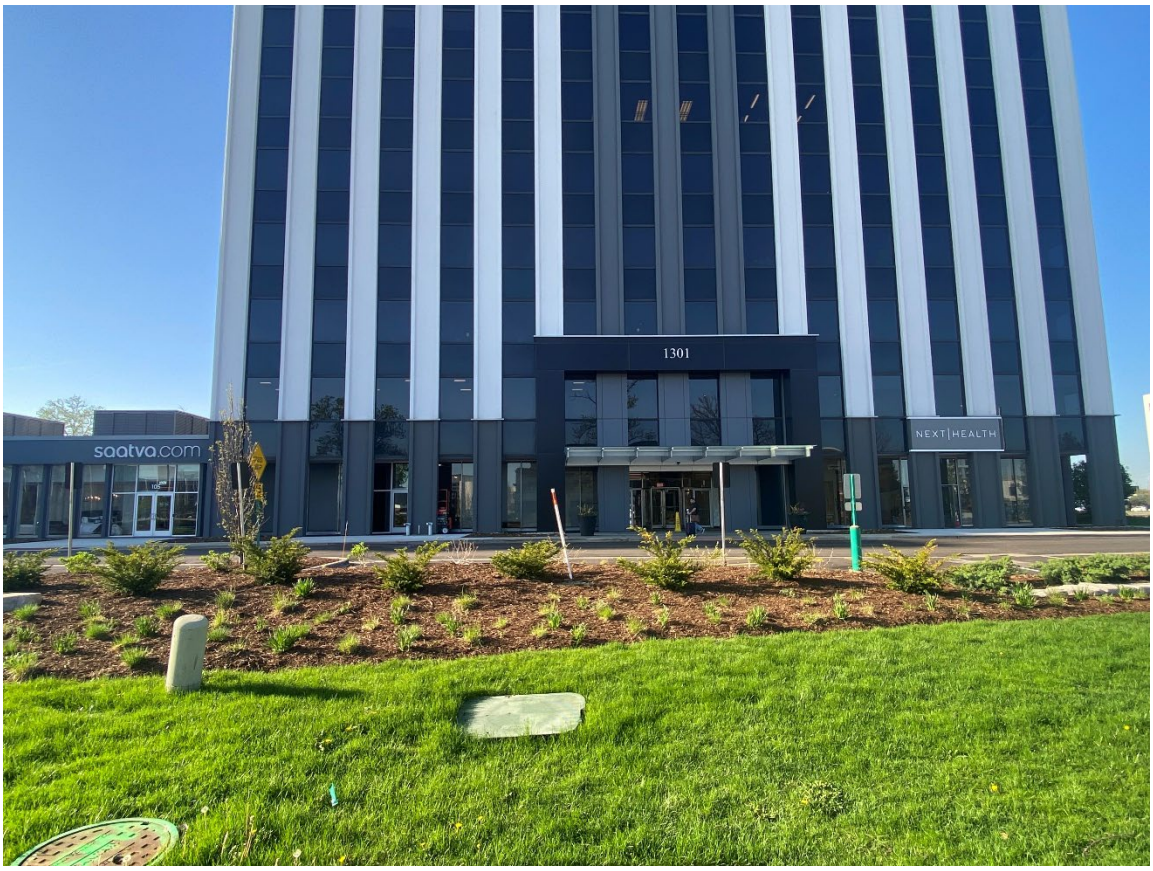
From: Peter M. Friedman
Kelsea Neal Nolot

Re: Oak Brook 22: Application for a Planned Development
Traffic Study Requirement
1211-1315 West 22nd Street, Oak Brook, Illinois

The Property is currently improved with adequate ingress and egress from dedicated public streets, well-designed internal circulation, and a 1,185-space structured parking facility that sufficiently serves existing tenants and uses. The proposed modifications are not expected to materially affect traffic flow or parking demand. Accordingly, no changes to existing access points, drive aisles, parking areas, or circulation patterns are proposed as part of this Planned Development.

EXISTING SITE PHOTOS

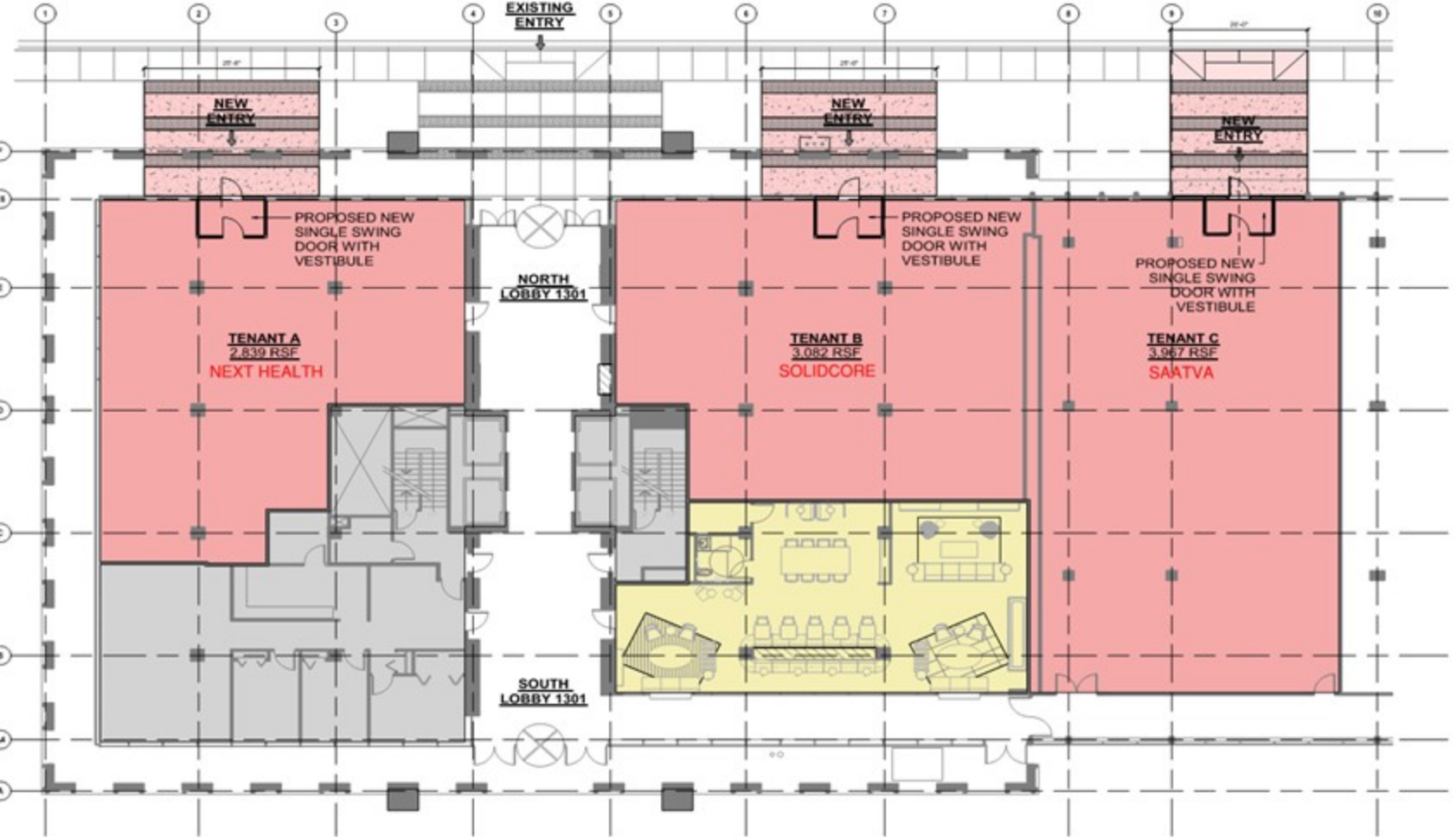
EXISTING SITE PHOTOS



STK
STK STEAKHOUSE

STK

EXISTING SITE PHOTOS


EXISTING ENTRY
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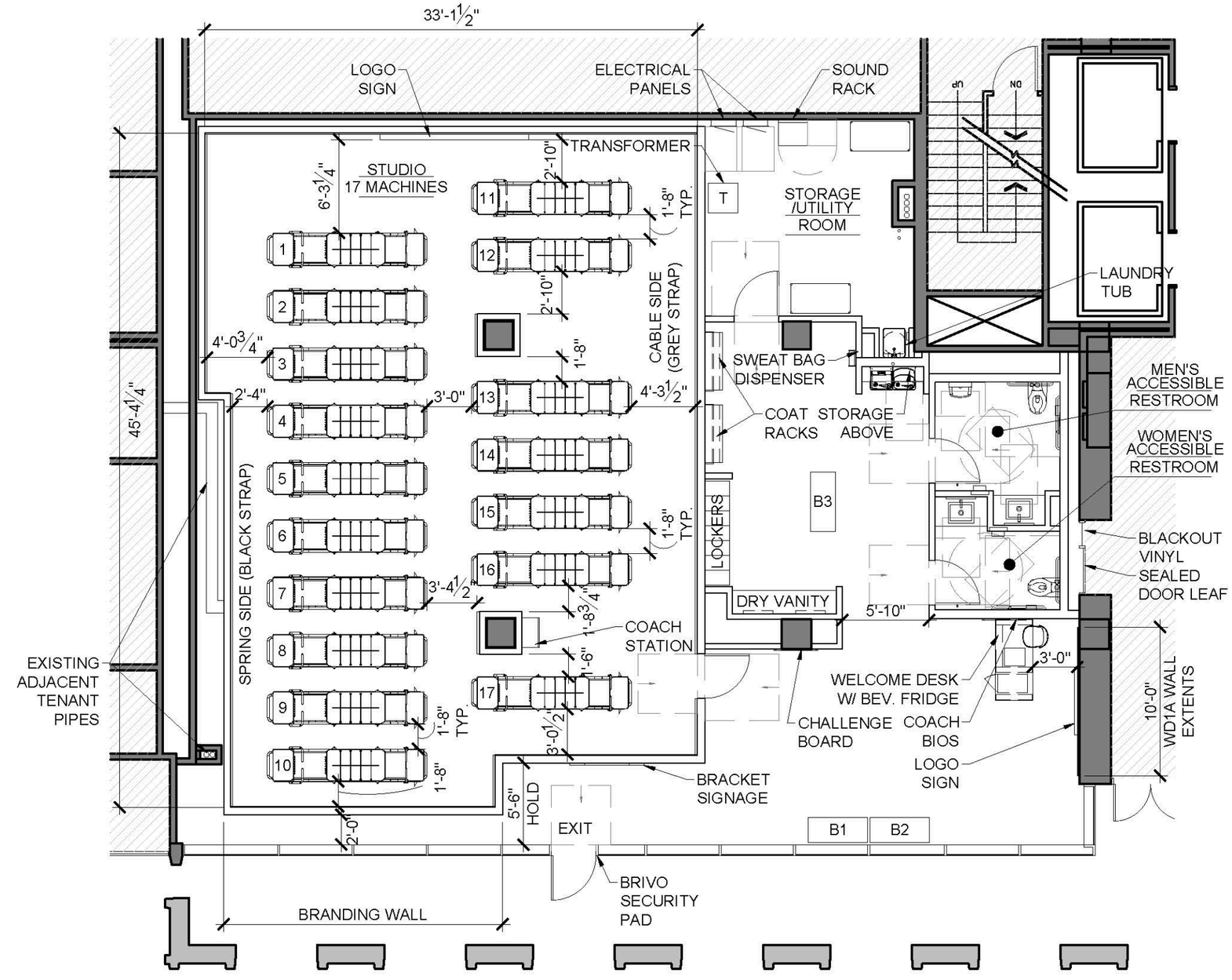
NEW ENTRY
PROPOSED NEW SINGLE SWING DOOR WITH VESTIBULE
PROPOSED NEW SINGLE SWING DOOR WITH VESTIBULE
PROPOSED NEW SINGLE SWING DOOR WITH VESTIBULE
NORTH LOBBY 1301
SOUTH LOBBY 1301
TENANT A
2,839 RSF
NEXT HEALTH
TENANT B
3,082 RSF
SOLIDCORE
TENANT C
3,967 RSF
SAATVA



LEGEND
EXISTING PARTITION
NEW PARTITION
NOT IN CONTRACT (NIC)
SQ. FOOTAGE CALCULATIONS
+/-3,082 RSF

N 01 FLOOR PLAN
1/8" = 1'-0"

CLIENT
[solidcore]

[solidcore] OAK BROOK, IL

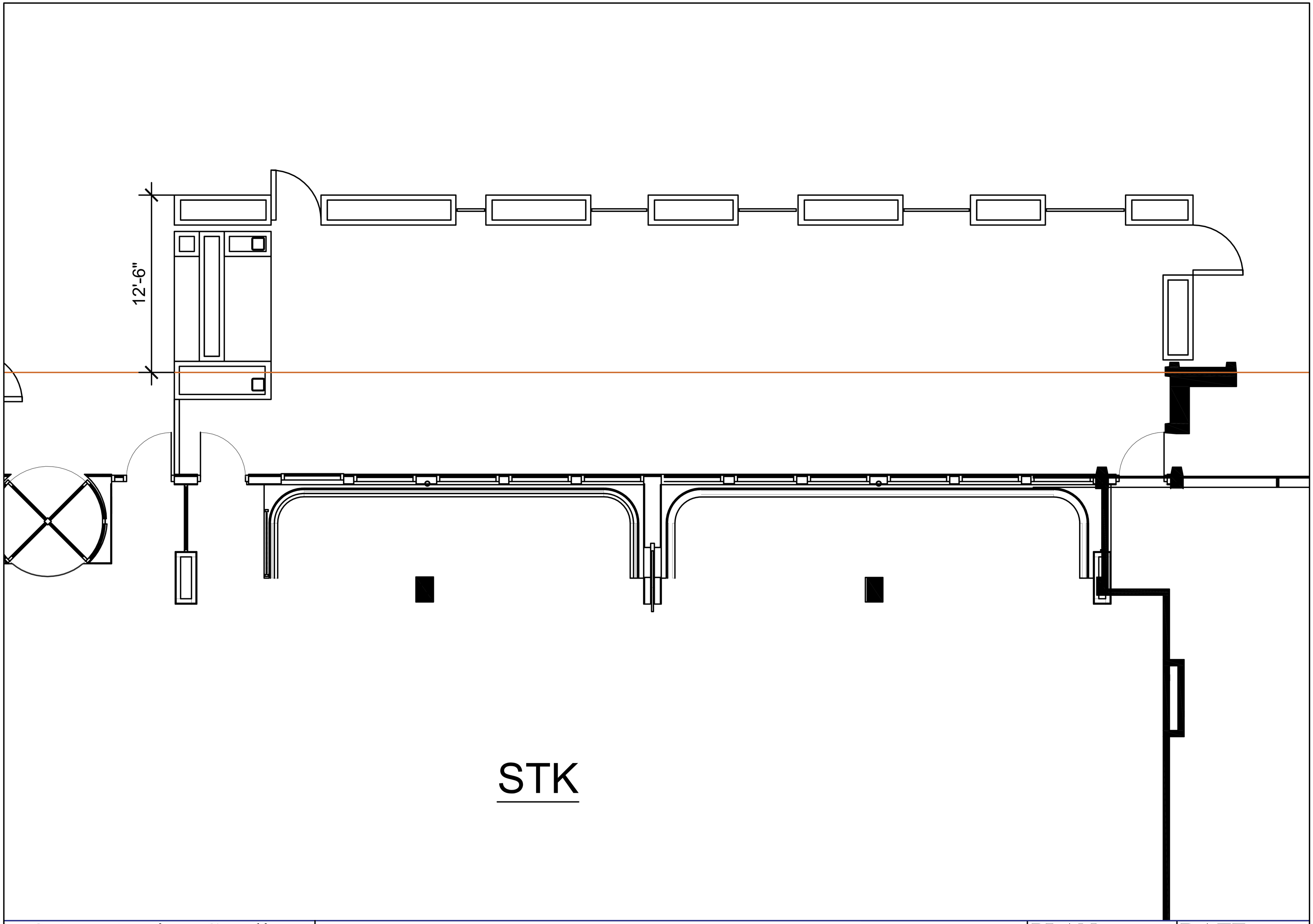
FLOOR PLAN

DXU ARCHITECTS
412 S. Wells Street • 2nd Floor • Chicago • IL • 60607
P: 312.955.0334 • dxuarch.com

DATE 03-09-2026
SHEET NO. TF

© DxU 2026

PLOT DATE: 3/9/2026 11:49 AM PLOTTED BY: SEAN JACKSON



STK

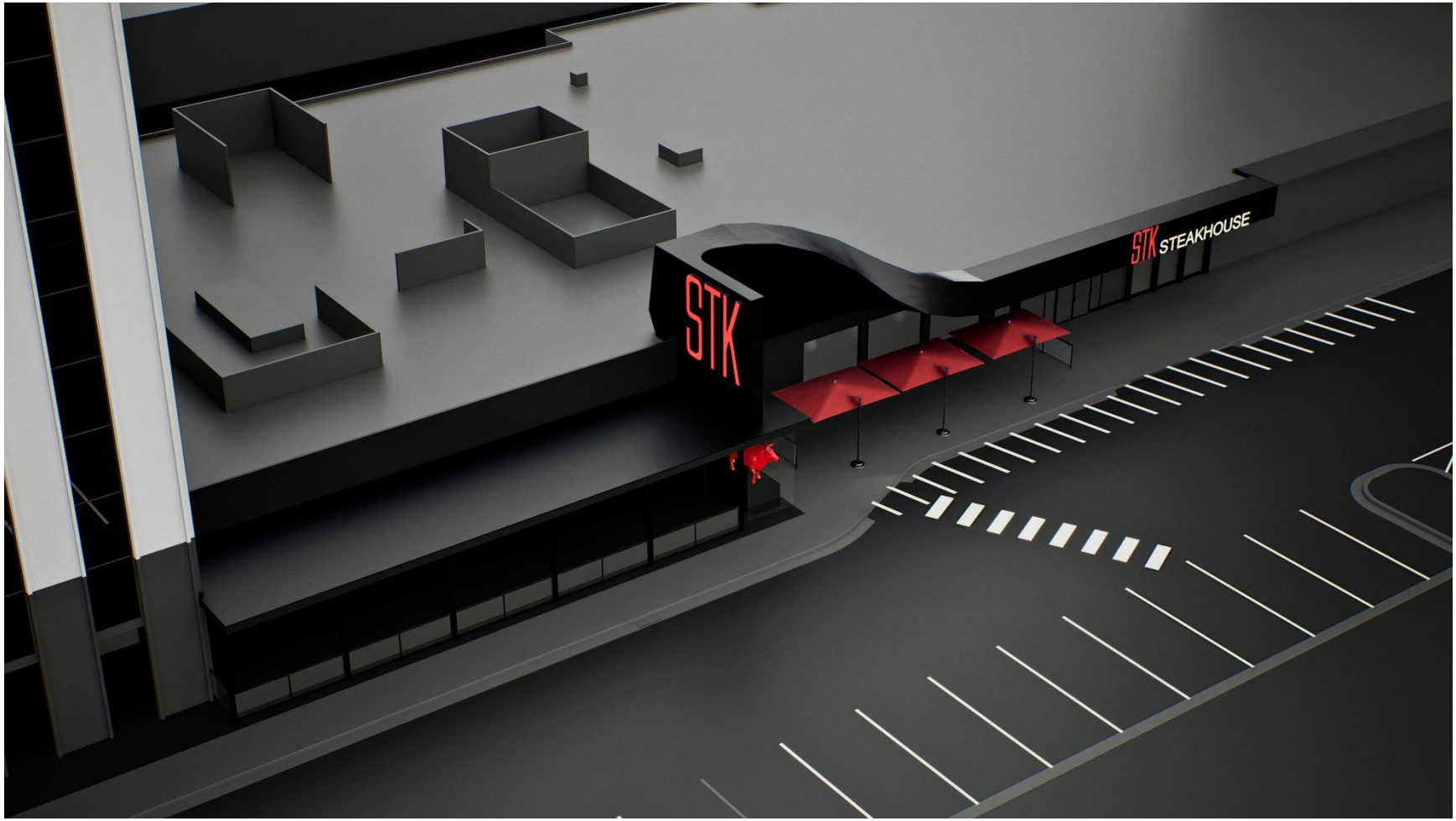
FORM Design Studio
ARCHITECTURE · INTERIOR DESIGN · FACILITY MANAGEMENT
200 East Randolph Street
Suite 5100
Chicago, IL 60601
TELEPHONE 773.931.8817

OB 22
1301-1225-1211 W 22ND STREET
OAK BROOK, IL

PLAN: EX.1

DATE: 04.06.26

1301
TENANT
NEXT HEALTH


STK
STK STEAKHOUSE

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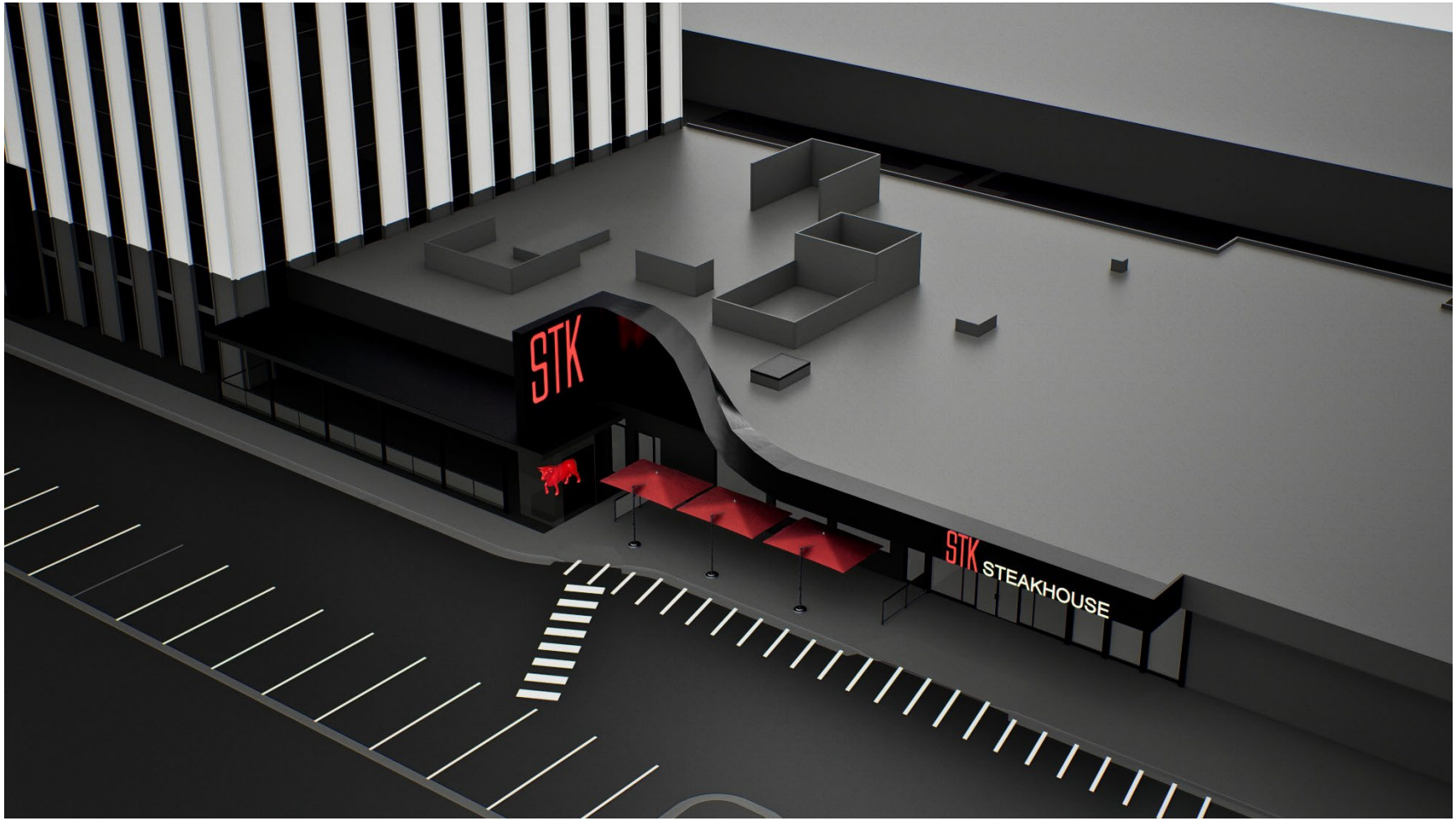
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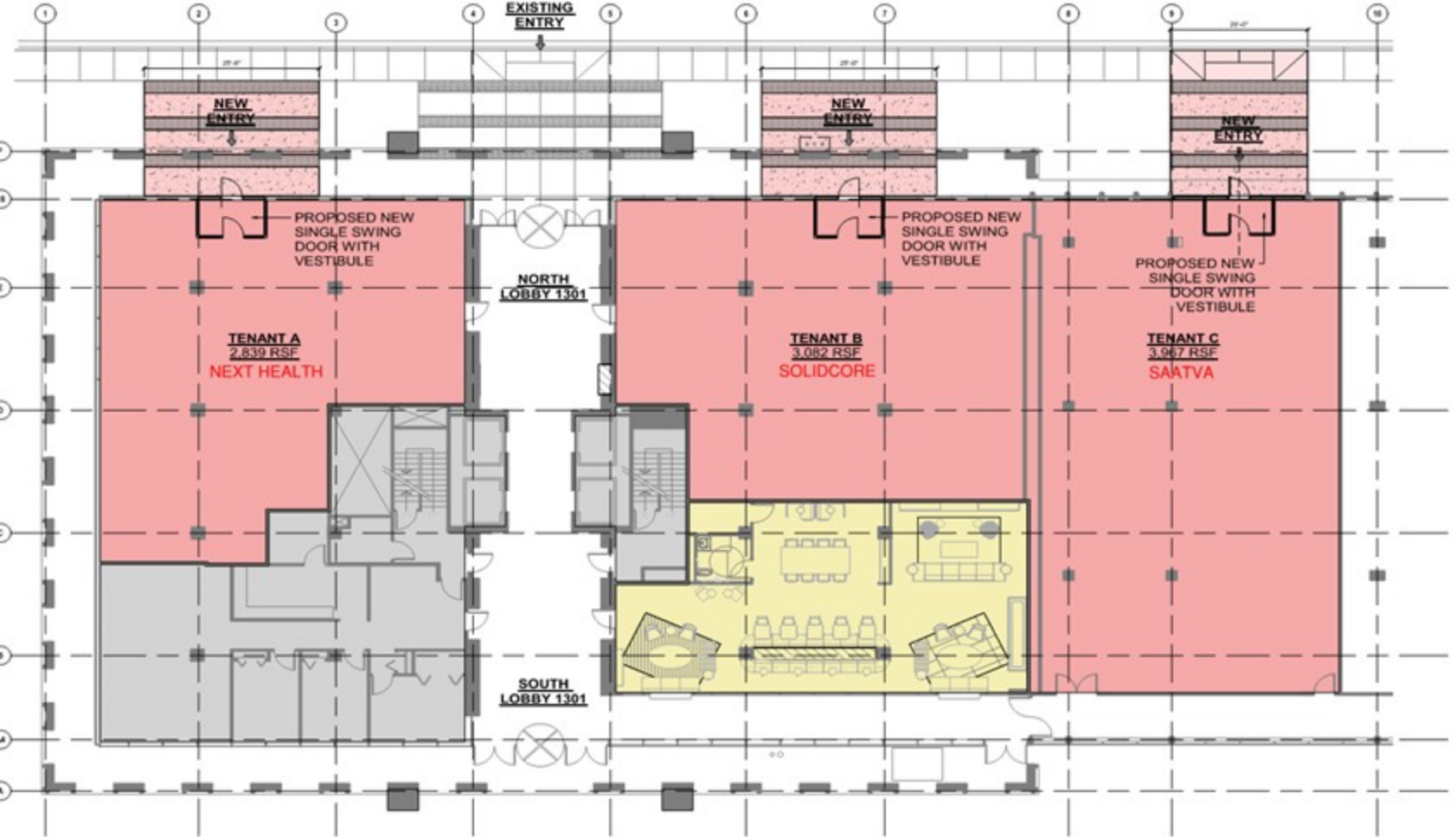
EXISTING ENTRY
NEW ENTRY
NEW ENTRY
NEW ENTRY
PROPOSED NEW SINGLE SWING DOOR WITH VESTIBULE
PROPOSED NEW SINGLE SWING DOOR WITH VESTIBULE
PROPOSED NEW SINGLE SWING DOOR WITH VESTIBULE
NORTH LOBBY 1301
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TENANT A
2,839 RSF
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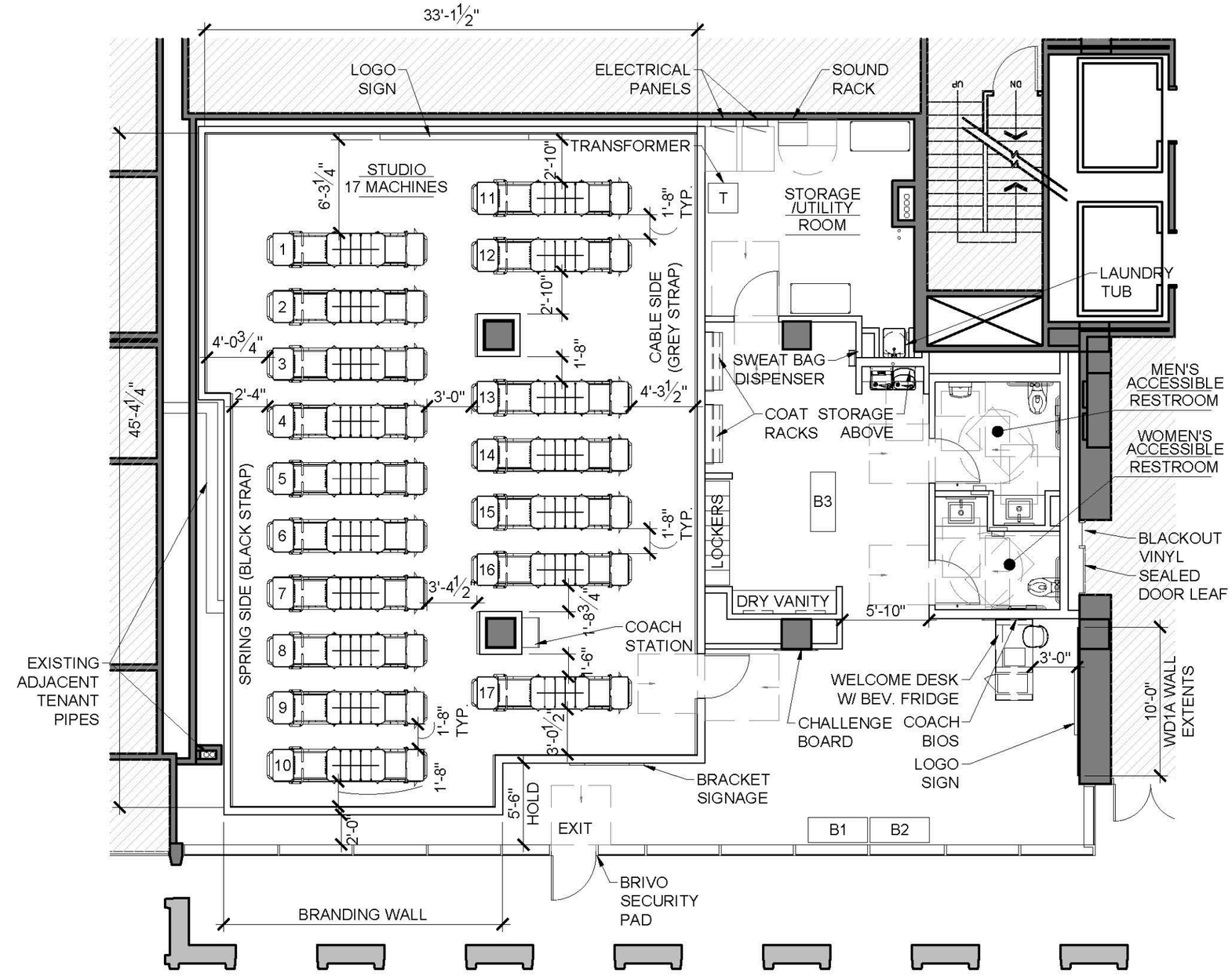
3,082 RSF
SOLIDCORE
TENANT C
3,967 RSF
SAATVA



LEGEND
EXISTING PARTITION
NEW PARTITION
NOT IN CONTRACT (NIC)
SQ. FOOTAGE CALCULATIONS
+/-3,082 RSF

N 01 FLOOR PLAN
1/8" = 1'-0"

CLIENT
[solidcore]

[solidcore] OAK BROOK, IL

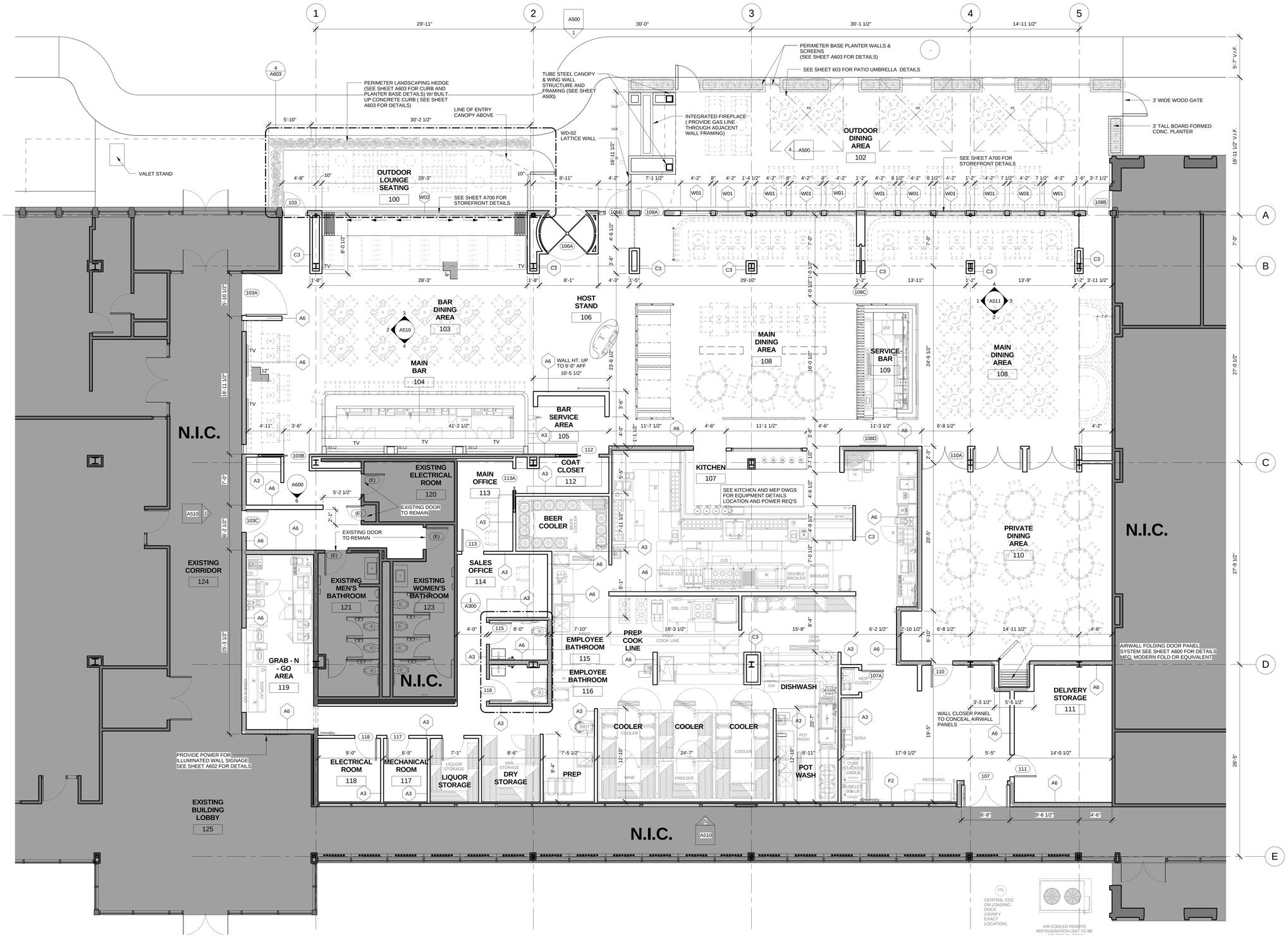
FLOOR PLAN

DXU ARCHITECTS
412 S. Wells Street • 2nd Floor • Chicago • IL • 60607
P: 312.955.0334 • dxuarch.com

DATE 03-09-2026
SHEET NO. TF

© DxU 2026

PLOT DATE: 3/9/2026 11:49 AM PLOTTED BY: SEAN JACKSON



1 01 GROUND FLOOR - PROPOSED PLAN
3/16" = 1'-0"

DMACARCHITECTURE
831 CHICAGO AVE #100
EVANSTON, IL 60202

MICHAEL JORDAN'S
RESTAURANT

DWAYNE MACEWEN
STATE LICENSE #:

ARCHITECT:
DMAC ARCHITECTURE
831 CHICAGO AVE #100
EVANSTON, IL 60202

OWNER:

DAVID ZADIKOFF
CORNERSTONE RESTAURANT GROUP
1647 W. FULTON STREET
SECOND FLOOR
CHICAGO, IL 60612

PROJECT ADDRESS:

1225 22nd St.
OAKBROOK, IL 60523

NOTE: THIS DRAWING IS 30"x42"

ISSUE FOR BID
10/28/16

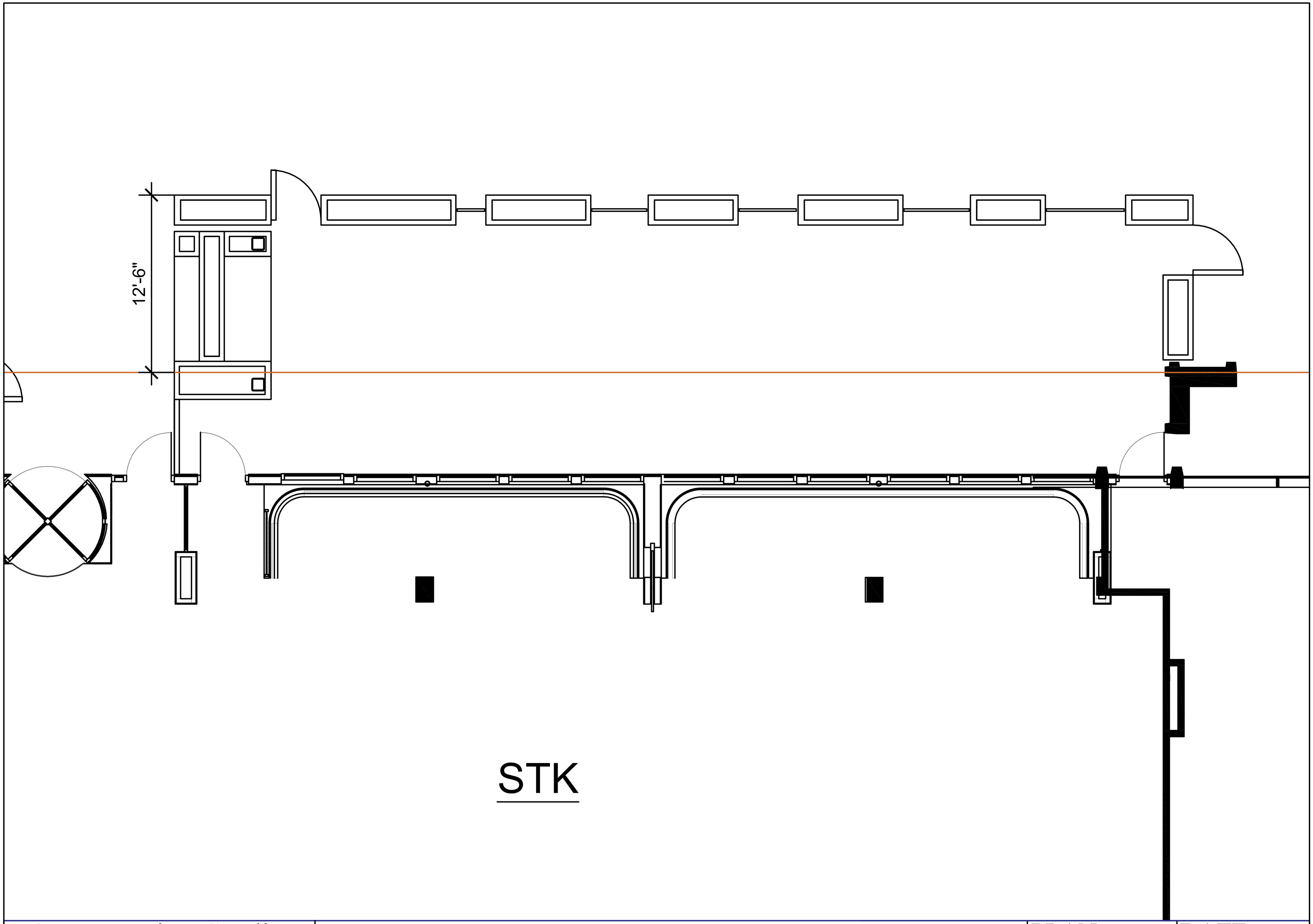
#	DESCRIPTION	DATE
1	ISSUE FOR PERMIT	10-19-16
2	ISSUE FOR BID	10-28-16

GROUND FLOOR PLAN

Project number	16004
Date	10/28/16
Drawn by	AB/DJ/KB
Checked by	AB/DM
Scale	3/16" = 1'-0"

A100

10/28/2016 4:53:25 PM



STK

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TELEPHONE 773.931.8817

OB 22
1301-1225-1211 W 22ND STREET
OAK BROOK, IL

PLAN: EX.1

DATE: 04.06.26

GREMLEY & BIEDERMANN

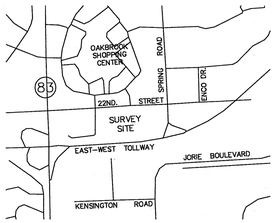
A DIVISION OF
PLCS Corporation
LICENSE NO. 184-005322
PROFESSIONAL LAND SURVEYORS

4505 NORTH ELSTON AVENUE, CHICAGO, IL 60630
TELEPHONE: (773) 685-5102 FAX: (773) 286-4184 EMAIL: INFO@PLCS-SURVEY.COM

ALTA / ACSM Land Title Survey

(SEE PAGE 2 FOR LEAGL DESCRIPTION)

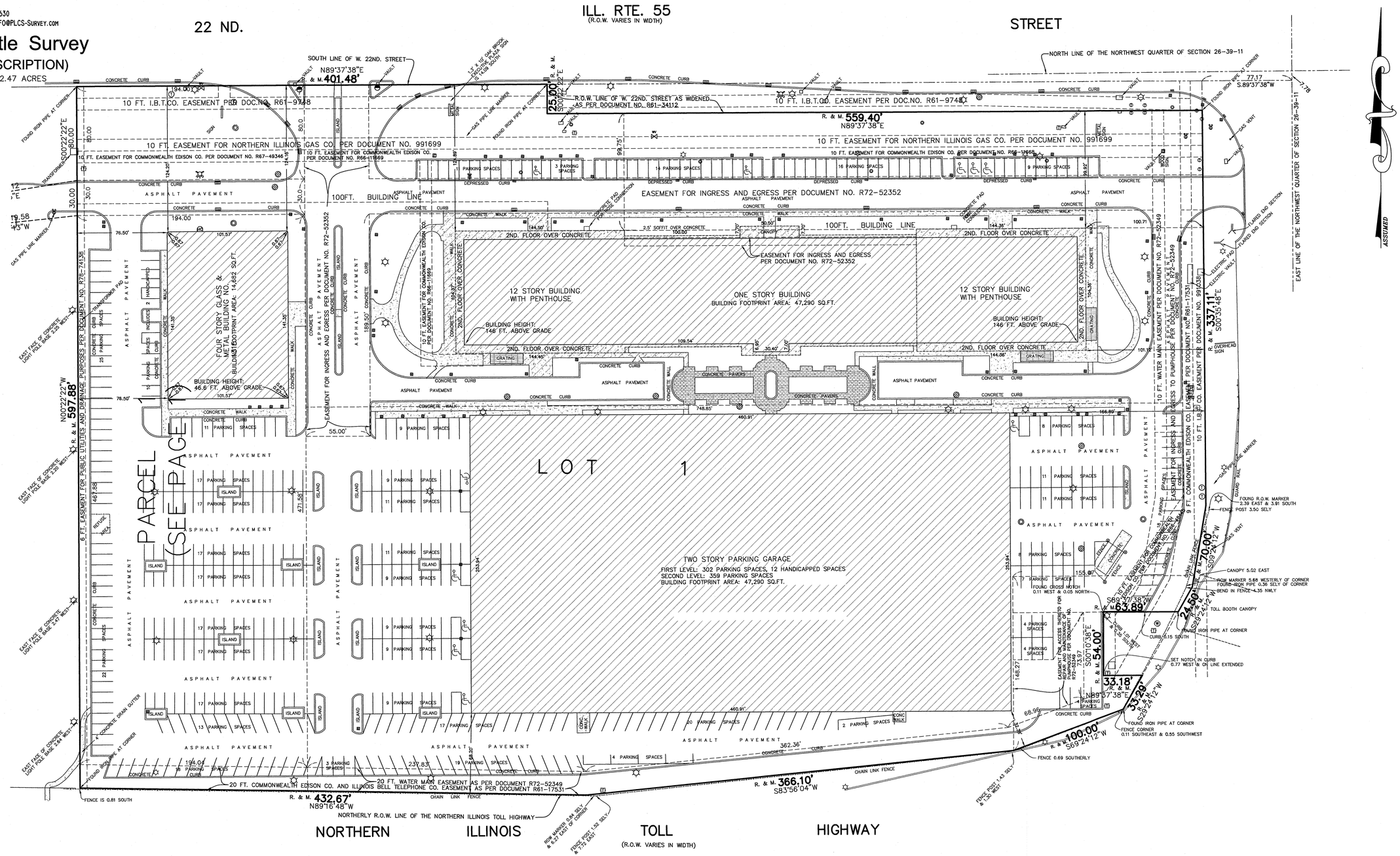
AREA OF PARCEL 1: 543,110 SQ.FT. OR 12.47 ACRES



VICINITY MAP
(NOT TO SCALE)

Legend:

- Storm MH
- Storm CB
- Storm Inlet
- Storm Inlet
- San MH
- San Clean Out
- Water Valve Vault
- Water MH
- Water Buffalo Box
- Water Hand Hole
- Water Meter
- Water Fire Hydrant
- Telephone MH
- Telephone Vault
- Telephone Pedestal
- Public Telephone
- Combination Pedestal
- Utility Pole
- Electric Manhole
- Electric MH
- Electric Vault
- Electric Meter
- Electric Pad
- Electric Pedestal
- Electric Light Pole
- Electric Traffic Signal
- Electric Light Pole with Traffic Signal
- Electric Traffic Control Box
- Electric Traffic Vault
- Gas Buffalo Box
- Gas Hand Hole
- Gas Meter
- Gas Valve
- Gas MH
- Gas Vault
- Gas Buffalo Box
- Sign Post
- Bumper Post
- Guy Anchor
- Unclassified Manhole
- Auto Sprinkler
- Hose Connection
- Fire Alarm
- Flag Pole



SURVEY NOTES:

REGARDING TABLE A ITEM 21 PROFESSIONAL LIABILITY INSURANCE POLICY OBTAINED BY THE SURVEYOR IN THE MINIMUM AMOUNT OF $2,000,000 TO BE IN EFFECT THROUGHOUT THE CONTRACT TERM. CERTIFICATE OF INSURANCE TO BE FURNISHED UPON REQUEST.

Note R. & M. denotes Record and Measured distances respectively.

Distances are marked in feet and decimal parts thereof. Compare all points BEFORE building by same and at once report any differences BEFORE damage is done.

For easements, building lines and other restrictions not shown on survey plat refer to your abstract, deed, contract, title policy and local building line regulations.

NO dimensions shall be assumed by scale measurement upon this plat.

Unless otherwise noted hereon the Bearing Basis, Elevation Datum and Coordinate Datum if used is ASSUMED.

COPYRIGHT GREMLEY & BIEDERMANN, INC. 2014 "All Rights Reserved"

SURVEY NOTE:
This Survey was prepared based on Chicago Title Insurance Company Title Commitment 1401 008975040 D2 Effective Date: July 25, 2014 as to matters of record.
SEE PAGE 2 FOR SCHEDULE "B" ITEMS

Surveyor's license expires November 30, 2014.

PROPERTY APPEARS IN "OTHER AREAS" ZONE X, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, PER FLOOD INSURANCE RATE MAP DU PAGE COUNTY, ILLINOIS, MAP NO. 17043C0609H, EFFECTIVE DATE DECEMBER 16, 2004.

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2011 Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 7(a), 7(b)(1), 7(c), 8, 9, 11(a), 14, 20(a) and 21 of Table A thereof.

The field work was completed on August 14, 2014.

Date of Plat Aug. 27, 2014.

By: _____

Robert G. Biedermann
Professional Illinois Land Surveyor No. 2802

ROBERT G. BIEDERMANN 2802 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS CHICAGO, ILLINOIS

ORDERED BY: RREEF MANAGEMENT LLC		CHECKED:	DRAWN:
ADDRESS: OAK BROOK EXECUTIVE PLAZA			BB
GREMLEY & BIEDERMANN A Division of PLCS, CORPORATION License No. 184-005322 *Professional Land Surveyors* 4505 North Elston Avenue, Chicago, IL 60630 Telephone: (773) 685-5102 Fax: (773) 286-4184 Email: INFO@PLCS-Survey.com			
ORDER NO. 2014-19726-001	DATE: AUGUST 14, 2014	SCALE: 1 INCH = 40 FEET	PAGE NO. 1 OF 2

G:\CAD\2014\2014-19726\2014-19726-001.dwg

SCHEDULE B ITEMS:

ITEMS 1-11, 31-39 - ARE NOT MATTERS OF SURVEY

C 12. GRANT RECORDED DECEMBER 27, 1960 AS DOCUMENT 991699, ALSO AS SHOWN ON PLAT OF MANU LIFE SUBDIVISION TO NORTHERN ILLINOIS GAS COMPANY, OF AN EASEMENT AND RIGHT TO CONSTRUCT, MAINTAIN AND OPERATE A GAS MAIN AND NECESSARY APPURTENANCES THERETO BENEATH THE SURFACE OF THE FOLLOWING DESCRIBED PROPERTY, TOGETHER WITH PROVISIONS THEREIN CONTAINED:
A STRIP OF LAND 10 FEET IN WIDTH IN THE NORTH 1/2 OF SECTION 26, TOWNSHIP 39
NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, THE CENTER LINE OF
WHICH IS DESCRIBED AS FOLLOWS: BEGINNING AT A POINT ON THE NORTHWESTERLY RIGHT OF WAY LINE OF THE NORTHERN ILLINOIS TOLL HIGHWAY LOCATED IN THE NORTHEAST 1/4 OF SECTION 26, AFORESAID, SAID POINT BEING 100 FEET SOUTH OF, MEASURED AT RIGHT ANGLES TO, THE CENTER LINE OF THE EXISTING 22ND STREET, TO A POINT IN THE CENTER LINE OF ILLINOIS ROUTE 83 (ROBERT KINGERY HIGHWAY), SAID POINT BEING 100 FEET SOUTH OF THE CENTER LINE OF 22ND STREET, IN DUPAGE COUNTY, ILLINOIS, AND ALSO ACROSS PROPERTY NOT NOW IN QUESTION.
SAID EASEMENT IS ALSO SHOWN ON THE PLAT OF MANU LIFE SUBDIVISION, AFORESAID.
(AFFECTS PARCELS 1, 2 AND 3)
PLOTTED

D 13. GRANT RECORDED MARCH 8, 1961 AS DOCUMENT R61-17531, ALSO AS SHOWN ON PLAT OF MANU LIFE SUBDIVISION TO THE COMMONWEALTH EDISON COMPANY AND THE ILLINOIS BELL TELEPHONE COMPANY, OF THE RIGHT AND EASEMENT TO INSTALL AND MAINTAIN THEIR EQUIPMENT FOR THE PURPOSES OF SERVING THE LAND AND OTHER PROPERTY WITH ELECTRIC AND TELEPHONE SERVICE, TOGETHER WITH PROVISIONS THEREIN CONTAINED, UPON, OVER AND UNDER A STRIP OF LAND ALONG THE SOUTHERLY AND EASTERLY LINE OF SAID PREMISES AS SHOWN ON THE PLAT ATTACHED THERETO AND MADE A PART THEREOF. SAID EASEMENT IS ALSO SHOWN ON THE PLAT OF MANU LIFE SUBDIVISION, AFORESAID.
(AFFECTS PARCELS 1, 2 AND 3)
PLOTTED

E 14. GRANT RECORDED JUNE 8, 1961 AS DOCUMENT R61-9748 TO THE ILLINOIS BELL
TELEPHONE COMPANY, OF THE RIGHT TO INSTALL AND MAINTAIN ITS EQUIPMENT FOR THE PURPOSE OF SERVING THE LAND AND OTHER PROPERTY WITH TELEPHONE SERVICE, TOGETHER WITH THE RIGHT OF ACCESS THERETO, IN, UNDER, AND ACROSS THE FOLLOWING DESCRIBED PROPERTY: THAT PART OF THE NORTHWEST 1/4 OF SECTION 26, TOWNSHIP 39 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHEAST CORNER OF SAID NORTHWEST 1/4 OF SECTION 26; THENCE SOUTHERLY ALONG THE EAST LINE OF THE NORTHWEST 1/4 OF SECTION 26 A DISTANCE OF 7.78 FEET; THENCE SOUTH 78 DEGREES, 37 MINUTES, 38 SECONDS WEST ALONG THE SOUTH RIGHT OF
WAY LINE OF 22ND STREET (AS NOW PLATTED AND RECORDED) A DISTANCE OF 87.17 FEET TO A POINT ON THE WEST LINE OF THE THE ILLINOIS BELL TELEPHONE COMPANY EASEMENT (DOCUMENT 991038); THENCE SOUTH 0 DEGREES, 35 MINUTES, 48 SECONDS EAST ALONG SAID WEST LINE OF THE THE ILLINOIS BELL TELEPHONE COMPANY EASEMENT A DISTANCE OF 15.00 FEET FOR A POINT OF BEGINNING; THENCE NORTH 89 DEGREES, 46 MINUTES, 54 SECONDS WEST A DISTANCE OF 179.89 FEET; THENCE SOUTH 89 DEGREES, 37 MINUTES, 38 SECONDS WEST ALONG A LINE 60.0 FEET SOUTH OF AND PARALLEL WITH THE CENTER LINE OF 22ND STREET A DISTANCE OF 640.14 FEET; THENCE NORTH 0 DEGREES, 22 MINUTES, 22 SECONDS WEST A DISTANCE OF 10.0 FEET TO A POINT ON SAID RIGHT OF WAY LINE OF 22ND STREET; THENCE SOUTH 89 DEGREES, 37 MINUTES, 38 SECONDS WEST ALONG SAID SOUTH RIGHT OF WAY LINE OF 22ND STREET A DISTANCE OF 19.0 FEET; THENCE SOUTH 0 DEGREES, 22 MINUTES, 22 SECONDS EAST A DISTANCE OF 10.0 FEET; THENCE SOUTH 89 DEGREES, 37 MINUTES, 38 SECONDS WEST ALONG A LINE 60.0 FEET SOUTH OF AND PARALLEL WITH THE CENTER LINE OF 22ND STREET A DISTANCE OF 894.74 FEET TO A POINT ON THE SOUTHEASTERLY LINE OF TRACT 4 OF BUTLER COMPANY - ILLINOIS TOLLWAY ASSESSMENT PLAT NO. 1 (DOCUMENT 991695); THENCE SOUTH 54 DEGREES, 34 MINUTES, 14 SECONDS WEST ALONG THE SOUTHEASTERLY LINE OF SAID TRACT 4 A DISTANCE OF 141.36 FEET; THENCE NORTH 89 DEGREES, 37 MINUTES, 38 SECONDS EAST ALONG A LINE 70.0 FEET SOUTH OF AND PARALLEL WITH THE CENTER LINE OF 22ND STREET A DISTANCE OF 1655.74 FEET; THENCE SOUTH 89 DEGREES, 46 MINUTES, 54 SECONDS EAST A DISTANCE OF 180.07 FEET; THENCE NORTH 0 DEGREES, 35 MINUTES, 48 SECONDS WEST ALONG THE WEST LINE OF SAID THE ILLINOIS BELL TELEPHONE COMPANY EASEMENT A DISTANCE OF 10.0 FEET TO THE POINT OF BEGINNING. THE ABOVE DESCRIBED PROPERTY BEING SUBJECT TO THE CONSTRUCTION, OPERATION, AND MAINTENANCE OF SANITARY SEWERS, WATER MAINS AND APPURTENANCES TO BOTH, LYING CONTIGUOUS TO AND CROSSING SAID PROPERTY. SAID EASEMENT ALSO DESCRIBED PROPERTY NOT NOW IN QUESTION. SAID EASEMENT IS ALSO SHOWN ON THE PLAT OF MANU LIFE SUBDIVISION, AFORESAID.
(AFFECTS PARCELS 1, 2 AND 3)
PLOTTED

F 15. GRANT RECORDED APRIL 5, 1966 AS DOCUMENT R66-11669, TO THE COMMONWEALTH EDISON COMPANY OF A PERPETUAL RIGHT, EASEMENT, PERMISSION AND AUTHORITY TO INSTALL, MAINTAIN, OPERATE, AND REMOVE UNDERGROUND CABLES AND NECESSARY APPURTENANCES IN, UNDER AND THROUGH A STRIP OF LAND BEING DESCRIBED AS FOLLOWS:
COMMENCING AT THE NORTHEAST CORNER OF LOT 6 OF OAK BROOK INVESTMENT COMPANY ASSESSMENT PLAT NO. 4 RECORDED JULY 8, 1964 AS DOCUMENT R64-24072 IN THE OFFICE OF THE RECORDER OF DEEDS, DUPAGE COUNTY, ILLINOIS; THENCE SOUTHERLY ALONG THE EASTERLY PROPERTY LINE OF SAID LOT 6 A DISTANCE OF 60 FEET; THENCE SOUTH 89 DEGREES, 37 MINUTES, 38 SECONDS WEST A DISTANCE OF 331.47 FEET, MORE OR LESS, TO A POINT ON THE EASTERLY LINE OF GRANTOR'S PROPERTY (SAID PROPERTY BEING DESCRIBED IN DOCUMENT R65-41133 RECORDED OCTOBER 19, 1965, IN THE OFFICE OF THE RECORDER OF DEEDS, DUPAGE COUNTY, ILLINOIS) FOR A POINT OF BEGINNING; THENCE CONTINUING SOUTH 89 DEGREES, 37 MINUTES, 38 SECONDS WEST A DISTANCE OF 332 FEET TO A POINT; THENCE SOUTH IN A STRAIGHT LINE AND AT A RIGHT ANGLE TO THE LAST DESCRIBED COURSE A DISTANCE OF 175 FEET TO A POINT; THENCE EAST IN A STRAIGHT LINE AND AT A RIGHT ANGLE TO THE LAST DESCRIBED COURSE A DISTANCE OF 48.16 FEET TO A POINT; THENCE WEST ALONG THE LAST DESCRIBED COURSE A DISTANCE
OF 48.16 FEET; THENCE NORTH IN A STRAIGHT LINE AND AT A RIGHT ANGLE TO THE LAST DESCRIBED COURSE A DISTANCE OF 175 FEET TO A POINT; THENCE EAST IN A STRAIGHT LINE AND AT A RIGHT ANGLE TO THE LAST DESCRIBED COURSE A DISTANCE OF 103.41 FEET, MORE OR LESS, TO A POINT OF TERMINATION ON THE WESTERLY LINE OF GRANTOR'S PROPERTY, SAID POINT OF TERMINATION BEING 60 FEET, MORE OR LESS, SOUTH OF THE NORTHWEST CORNER OF GRANTOR'S PROPERTY; SAID GRANTOR'S PROPERTY BEING DESCRIBED IN SAID DOCUMENT R65-41133. SAID EASEMENT IS ALSO SHOWN ON THE PLAT OF MANU LIFE SUBDIVISION, AFORESAID.
(AFFECTS PARCELS 1 AND 2)
PLOTTED

G 16. GRANT RECORDED AS DOCUMENT DECEMBER 1, 1967 R67-46346, TO THE COMMONWEALTH EDISON COMPANY, OF A PERPETUAL RIGHT, EASEMENT, PERMISSION AND AUTHORITY TO INSTALL, MAINTAIN, OPERATE, AND REMOVE UNDERGROUND CABLES AND NECESSARY APPURTENANCES IN, UNDER AND THROUGH LAND DESCRIBED AS FOLLOWS:
THAT PART OF LOT 6 IN OAK BROOK INVESTMENT COMPANY ASSESSMENT PLAT NO. 4
(RECORDED JULY 8, 1964 AS DOCUMENT R64-24072) DESCRIBED AS A STRIP OF LAND 10 FEET WIDE AND BEING 5 FEET ON EACH SIDE OF A LINE 110 FEET SOUTH OF (MEASURED AT RIGHT ANGLES TO) AND PARALLEL WITH THE CENTER LINE OF 22ND STREET AND BOUNDED ON THE WEST BY THE WESTERLY BOUNDER OF SAID LOT 6 AND ON THE EAST BY A LINE DRAWN PERPENDICULAR FROM A POINT ON THE NORTH LINE OF SAID LOT 6 WHICH IS 768.78 FEET WESTERLY (AS MEASURED ALONG SAID NORTH LINE) OF THE NORTHEAST CORNER OF SAID LOT 6; TOGETHER WITH SUCH PROVISIONS AS THEREIN CONTAINED. SAID EASEMENT IS ALSO SHOWN ON THE PLAT OF MANU LIFE SUBDIVISION, AFORESAID.
(AFFECTS PARCELS 1, 2 AND 3)
PLOTTED

H 17. GRANT RECORDED APRIL 5, 1966 AS DOCUMENT R66-11668, TO THE COMMONWEALTH EDISON COMPANY OF A PERPETUAL RIGHT, EASEMENT, PERMISSION AND AUTHORITY TO INSTALL, MAINTAIN, OPERATE, AND REMOVE UNDERGROUND CABLES AND NECESSARY APPURTENANCES IN, UNDER AND THROUGH THE LAND AS DESCRIBED ON "EXHIBIT A" TOGETHER WITH SUCH TERMS AND PROVISION AS THEREIN SET FORTH.
SAID EASEMENT IS ALSO SHOWN ON THE PLAT OF MANU LIFE SUBDIVISION, AFORESAID.
(AFFECTS PARCEL 1)
PLOTTED

I 18. GRANT RECORDED DECEMBER 15, 1966 AS DOCUMENT R66-46445, TO CE, OF A PERPETUAL RIGHT, EASEMENT, PERMISSION AND AUTHORITY TO INSTALL, MAINTAIN, OPERATE AND REMOVE UNDERGROUND CABLES AND NECESSARY APPURTENANCES IN, UNDER AND THROUGH CERTAIN PROPERTY DESCRIBED IN "EXHIBIT A" TOGETHER WITH SUCH PROVISIONS AS THEREIN CONTAINED. SAID EASEMENT IS ALSO SHOWN ON THE PLAT OF MAN LIFE SUBDIVISION, AFORESAID.
(AFFECTS PARCEL 1)
PLOTTED

J 19. GRANT RECORDED DECEMBER 15, 1966 AS DOCUMENT 991038 TO THE ILLINOIS BELL TELEPHONE COMPANY, OF THE RIGHT, PRIVILEGE AND AUTHORITY AND EASEMENT TO CONSTRUCT, OPERATE AND MAINTAIN ITS UNDERGROUND TELEPHONE SYSTEM AND NECESSARY EQUIPMENT IN, UNDER AND ACROSS A STRIP OF LAND 10 FEET OF EVEN WIDTH, ADJACENT TO, PARALLEL WITH AND WEST OF A LINE BEGINNING AT THE NORTH LINE OF SECTION 26 AT A POINT 77.78 FEET WEST OF THE NORTHEAST CORNER OF THE NORTHWEST 1/4; THENCE SOUTH 0 DEGREES, 35 MINUTES, 48 SECONDS EAST FOR A DISTANCE OF 572.33 FEET (EXCEPT THE NORTH 7.55 FEET THEREOF LYING WITHIN THE PUBLIC HIGHWAY KNOWN AS CERMAK ROAD (22ND STREET), WITH OTHER PROPERTY, TOGETHER WITH PROVISIONS
THEREIN CONTAINED.
SAID EASEMENT IS ALSO SHOWN ON THE PLAT OF MANU LIFE SUBDIVISION, AFORESAID.
(AFFECTS PARCELS 1 AND 2)
PLOTTED

K 20. EASEMENT GRANT RECORDED AUGUST 30, 1972 AS DOCUMENT R72-52349 MADE BY AND AMONG CHICAGO TITLE AND TRUST COMPANY, AS TRUSTEE UNDER TRUST AGREEMENT DATED MAY 29, 1967 AND KNOWN AS TRUST NUMBER 50704, FIRST PARTY, AND CHICAGO TITLE AND TRUST COMPANY, AS TRUSTEE UNDER TRUST AGREEMENT DATED JUNE 8, 1964 AND KNOWN AS TRUST NUMBER 46940, SECOND PARTY, AND CHICAGO TITLE AND TRUST COMPANY, AS TRUSTEE UNDER TRUST AGREEMENT DATED SEPTEMBER 2, 1965 AND KNOWN AS TRUST NUMBER 48580, THIRD PARTY, WHEREBY FIRST PARTY GRANTS TO SECOND PARTY AN EASEMENT FOR LOCATION AND REPLACEMENT OF THE PUMPHOUSE ON THE PUMPHOUSE
PROPERTY AND AN EASEMENT FOR ACCESS THERETO, AND AN EASEMENT FOR PROJECTION OF REPAIR EQUIPMENT AND STORAGE OF PIPE LINE AND OTHER MATERIAL FROM TIME TO TIME DURING REPAIR AND MAINTENANCE AND THIRD PARTY GRANTS AN EASEMENT TO THE SECOND PARTY FOR THE PURPOSE OF MAINTAINING, REPAIRING, ADDING TO, REPLACING OR REMOVING WATER LINES AND PIPES ON OR UNDER PORTIONS OF THE LAND AS SET FORTH IN SAID GRANT OF EASEMENT GOT WITH THE TERMS AND PROVISIONS CONTAINED THEREIN.
SAID EASEMENT ALSO SHOWN ON THE PLAT OF MANU LIFE SUBDIVISION, AFORESAID.
(AFFECTS PARCEL 1)
PLOTTED

L 21. RECIPROCAL EASEMENT GRANT RECORDED AUGUST 30, 1972 AS DOCUMENT R72-52352 AND AFFIDAVIT RECORDED AS DOCUMENT R72-59981 MADE BY AND BETWEEN CHICAGO TITLE AND TRUST COMPANY, AS TRUSTEE UNDER TRUST NUMBERS 46940, 48580 AND 50704 AND LASALLE NATIONAL BANK AS TRUSTEE UNDER TRUST NUMBER 38790, WHEREAS THE PARTIES HAVING HERETOFORE CONSTRUCTED PRIVATE ROADWAYS ACROSS PORTIONS OF THEIR PROPERTIES WHICH PROVIDE INGRESS AND EGRESS TO AND FROM 22ND STREET NOW GRANTED TO EACH OTHER EASEMENTS FOR INGRESS, EGRESS AND REGRESS (PEDESTRIAN
AND VEHICULAR) OVER PORTIONS OF THEIR PROPERTIES AS DESCRIBED IN AND SHOWN ON EXHIBITS ATTACHED TO SAID GRANT, TOGETHER WITH THE TERMS AND PROVISIONS THEREIN CONTAINED.
SAID EASEMENT ALSO SHOWN ON THE PLAT OF MANU LIFE SUBDIVISION, AFORESAID.
(AFFECTS PARCEL 1)
PLOTTED

M 22. EASEMENT FOR PUBLIC UTILITIES AND DRAINAGE PURPOSES AS SHOWN ON THE PLAT OF MANU LIFE SUBDIVISION, RECORDED AUGUST 8, 1978 AS DOCUMENT R78-74138.
(AFFECTS THE WEST 6 FEET OF PARCEL 1)
PLOTTED

N 23. EASEMENT RECORDED FEBRUARY 9, 1980 AS DOCUMENT R80-8788 TO TO THE COMMONWEALTH EDISON COMPANY FOR THE PURPOSE OF INSTALLING AND MAINTAINING ALL EQUIPMENT NECESSARY FOR SERVING THE LAND AND OTHER PROPERTY WITH ELECTRIC SERVICE, TOGETHER WITH THE RIGHT OF ACCESS TO SAID EQUIPMENT IN, UPON, UNDER AND ACROSS THE WEST 10 FEET OF THE SOUTH 200 FEET OF THE NORTH 260 FEET OF MANU LIFE SUBDIVISION OF PART OF LOT 6 IN OAK BROOK INVESTMENT COMPANY ASSESSMENT PLAT NUMBER 4.
PLOTTED

O 24. ENCROACHMENT OF THE CHAIN LINK FENCE LOCATED ON THE LAND EASTERLY AND ADJOINING ONTO THE LAND BY 4.81 FEET AT ITS WIDEST POINT AS DEPICTED BY SURVEY #943157 DATED DECEMBER 30, 1994 AND PREPARED BY ROBERT E. BIEDERMANN.
PLOTTED

P 25. A CONCRETE DRAIN GUTTER LOCATED IN THE SOUTHWEST CORNER OF THE LAND AS DEPICTED BY SURVEY #943157 DATED DECEMBER 30, 1994 AND PREPARED BY ROBERT E. BIEDERMANN.
PLOTTED

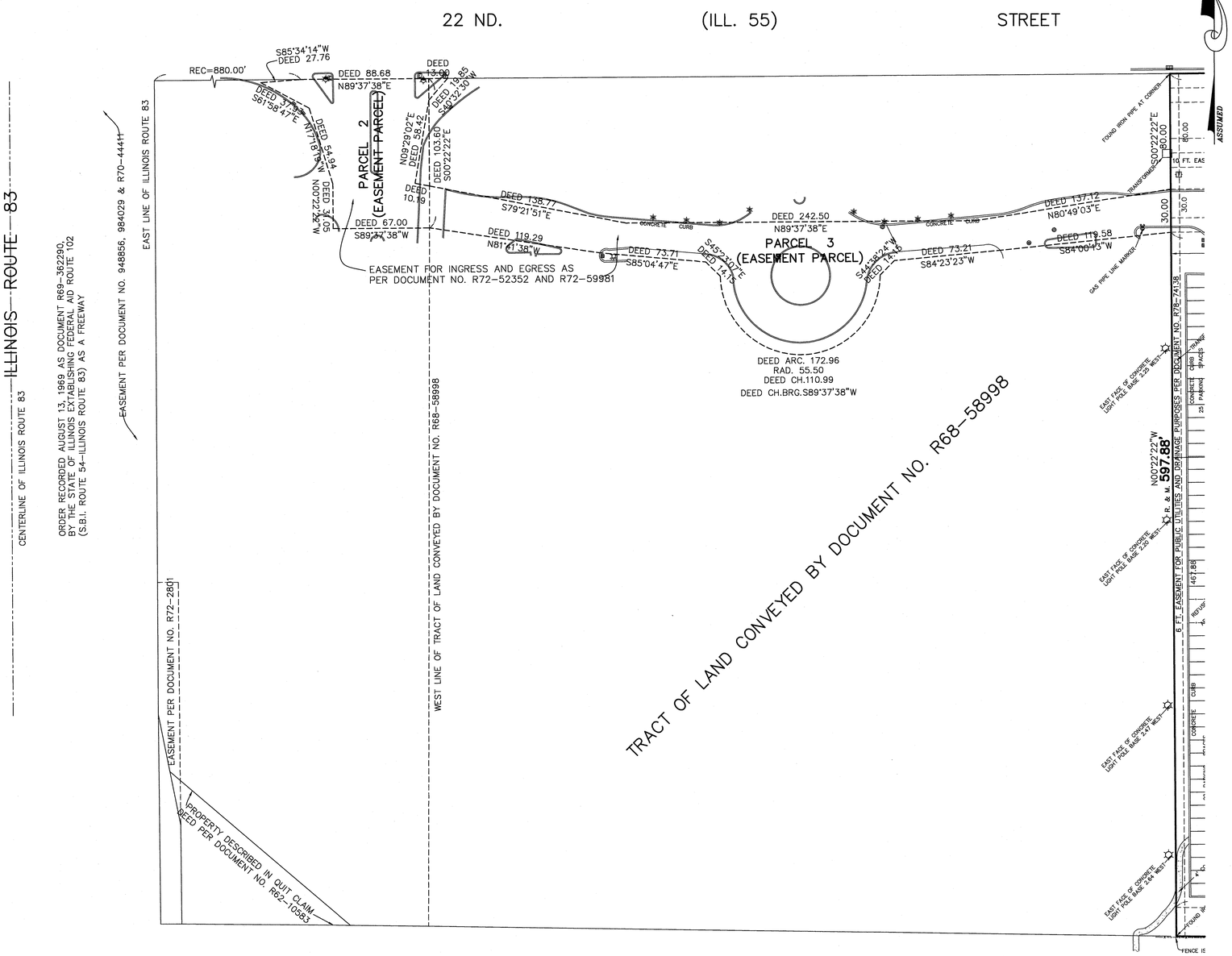
Q 26. A WATER MAIN EASEMENT GRANTED TO THE VILLAGE OF OAK BROOK, AS DISCLOSED BY THE LETTER FROM THE VILLAGE OF OAK BROOK DATED DECEMBER 5, 1994.
(AFFECTS THE EAST 194 FEET OF THE LAND--PARCEL 1)
DOCUMENT NOT PROVIDED

R 27. MATTERS OF SURVEY #943157 DATED DECEMBER 30, 1994 AND PREPARED BY ROBERT E. BIEDERMANN, AS FOLLOWS:
1) A CONCRETE RETAINING WALL LOCATED IN THE NORTHERN SECTION OF THE LAND,
2) VAULTS, LIGHT POLES, WATER VALVES, CURB DRAINS, MANHOLES, TELEPHONE
MANHOLES AND PEDESTALS, TRANSFORMERS, GAS VALVES, CATCH BASINS, AND CONCRETE PADS FOR HOSE CONNECTIONS LOCATED AT VARIOUS POINTS ON THE LAND.
PLOTTED

S 28. ORDER RECORDED AUGUST 13, 1969 AS DOCUMENT R69-36290, BY THE STATE OF ILLINOIS, DEPARTMENT OF PUBLIC WORKS AND BUILDINGS, DIVISION OF HIGHWAYS, ESTABLISHING FEDERAL AID ROUTE 102 (S. B. I. ROUTE 54 - ILLINOIS ROUTE 83) AS A FREEWAY AND PROVIDING THAT ACCESS BETWEEN SAID FREEWAY AND ABUTTING LANDS IS
TO BE PERMITTED ONLY AT ENTRANCES PROVIDED FOR THAT PURPOSE UNDER PERMITS FROM SAID DEPARTMENT.
(AFFECTS PARCEL 2)
PLOTTED

T 29. COVENANTS, CONDITIONS AND RESTRICTIONS CONTAINED IN DEED FROM CHICAGO TITLE AND TRUST COMPANY, AS TRUSTEE UNDER TRUST NUMBER 46940, TO BLANCHE VIRSA, DATED NOVEMBER 13, 1968 AND RECORDED DECEMBER 19, 1968 AS DOCUMENT R68-58998, RELATING TO THE APPROVAL OF PLANS AND SPECIFICATIONS FOR IMPROVEMENTS TO BE CONSTRUCTED ON THE LAND AND THE CONSTRUCTION AND LOCATION OF SIGNS TO BE PLACED ON THE LAND.
NOTE: SAID INSTRUMENT CONTAINS NO PROVISION FOR A FORFEITURE OF OR REVERSION OF TITLE IN CASE OF BREACH OF CONDITION
(AFFECTS PARCEL 3)

U 30. RIGHTS OF THE VILLAGE OF OAK BROOK IN AND TO A SEWER LINE LOCATED ALONG THE SOUTH LINE OF THE LAND.
(AFFECTS PARCEL 3)



SURVEY NOTES:

REGARDING TABLE A ITEM 21 PROFESSIONAL LIABILITY INSURANCE POLICY OBTAINED BY THE SURVEYOR IN THE MINIMUM AMOUNT OF $2,000,000 TO BE IN EFFECT THROUGHOUT THE CONTRACT TERM. CERTIFICATE OF INSURANCE TO BE FURNISHED UPON REQUEST.

Note R. & M. denotes Record and Measured distances respectively.

Distances are marked in feet and decimal parts thereof. Compare all points BEFORE building by same and at once report any differences BEFORE damage is done.

For easements, building lines and other restrictions not shown on survey plat refer to your abstract, deed, contract, title policy and local building line regulations.

NO dimensions shall be assumed by scale measurement upon this plat.

Unless otherwise noted hereon the Bearing Basis, Elevation Datum and Coordinate Datum if used is ASSUMED.

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GRAPHIC SCALE

40 0 20 40 60 160

(IN FEET)
1 inch = 40 ft.

ORDERED BY:	CHECKED:	DRAWN:
ADDRESS: OAK BROOK EXECUTIVE PLAZA		BB

GREMLEY & BIEDERMANN
A Division of
PLCS, Corporation
License No. 184-005322
Professional Land Surveyors
4505 North Elston Avenue, Chicago, IL 60630
Telephone: (773) 685-5102 Fax: (773) 286-4184 Email: INFO@PLCS-Survey.com

ORDER NO.	DATE:	PAGE NO.
2014-19726-001	AUGUST 14, 2014	1 OF 2
	SCALE: 1 INCH = 40 FEET	

G:\CAD\2014\2014-19726\2014-19726-001.dwg

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ALTA / ACSM Land Title Survey

PARCEL 1:
LOT 1 IN MANU LIFE SUBDIVISION, BEING A RESUBDIVISION OF PART OF LOT 6 IN OAK BROOK INVESTMENT COMPANY ASSESSMENT PLAT NUMBER 4, OF PART OF THE NORTHWEST 1/4 OF SECTION 26, TOWNSHIP 39 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT OF MANU LIFE SUBDIVISION RECORDED AUGUST 8, 1978 AS DOCUMENT R78-74138, IN DUPAGE COUNTY, ILLINOIS

PARCEL 2 (EASEMENT PARCEL):
EASEMENTS FOR THE BENEFIT OF PARCEL 1 AFORESAID, AS CREATED BY RECIPROCAL EASEMENT GRANTS BY AND BETWEEN CHICAGO TITLE AND TRUST COMPANY, AS TRUSTEE UNDER TRUST AGREEMENT DATED JUNE 8, 1964 KNOWN AS TRUST NUMBER 46940, CHICAGO TITLE AND TRUST COMPANY, AS TRUSTEE UNDER TRUST AGREEMENT DATED SEPTEMBER 9, 1965 KNOWN AS TRUST NUMBER 48580, AND CHICAGO TITLE AND TRUST COMPANY, AS TRUSTEE UNDER TRUST
AGREEMENT DATED MAY 29, 1967 KNOWN AS TRUST NUMBER 50704 DATED AUGUST 2, 1972 AND RECORDED AUGUST 30, 1972 AS DOCUMENT R72-52352 AND AMENDED BY AFFIDAVIT RECORDED OCTOBER 2, 1972 AS DOCUMENT R72-59981 FOR INGRESS, EGRESS AND REGRESS (PEDESTRIAN OR VEHICULAR) TO AND FROM A PUBLIC STREET OVER THE FOLLOWING DESCRIBED PROPERTY: THAT PART OF LOT 6 IN OAK BROOK INVESTMENT COMPANY ASSESSMENT PLAT NO. 4, OF PART
OF THE NORTHWEST 1/4 OF SECTION 26, TOWNSHIP 39 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO PLAT THEREOF RECORDED JULY 8, 1964, AS DOCUMENT NO. R64-24072, IN DUPAGE COUNTY, ILLINOIS DESCRIBED AS FOLLOWS:
COMMENCING AT THE NORTHEAST CORNER OF SAID NORTHWEST 1/4 OF SECTION 26; THENCE SOUTHERLY ALONG THE HALF SECTION LINE, A DISTANCE OF 7.78 FEET TO THE SOUTH RIGHT-OF-WAY LINE OF 22ND STREET (BEFORE WIDENING); THENCE SOUTH 89 DEGREES, 37 MINUTES, 38 SECONDS WEST ALONG SAID SOUTH RIGHT-OF-WAY LINE OF 22ND STREET (BEFORE WIDENING), A DISTANCE OF 77.17 FEET; THENCE SOUTH 0 DEGREES 35 MINUTES, 48 SECONDS EAST, A DISTANCE OF 25.0 FEET TO A POINT ON THE SOUTH RIGHT-OF-WAY LINE OF 22ND STREET (AS WIDENED BY DOCUMENT NO. R61-34112); THENCE SOUTH 89 DEGREES, 37 MINUTES, 38 SECONDS WEST ALONG SAID SOUTH RIGHT-OF-WAY LINE OF 22ND STREET (AS WIDENED BY DOCUMENT NO. R61-34112), A DISTANCE OF 559.40 FEET TO THE WESTERLY LIMIT OF SAID WIDENING BY DOCUMENT NO. R61-34112; THENCE NORTH 0 DEGREES, 22 MINUTES, 22 SECONDS EAST ALONG SAID WESTERLY LIMIT OF SAID WIDENING, A DISTANCE OF 25.0 FEET TO A POINT ON THE SOUTH RIGHT-OF-WAY LINE OF SAID 22ND STREET (BEFORE WIDENING); THENCE SOUTH 89 DEGREES, 37 MINUTES 38 SECONDS WEST, ALONG SAID SOUTH RIGHT-OF-WAY LINE OF 22ND STREET (BEFORE WIDENING), 401.48 FEET TO THE NORTHEAST CORNER OF A TRACT OF LAND CONVEYED BY DOCUMENT NO. R68-58998; THENCE SOUTH 0 DEGREES, 22 MINUTES, 22 SECONDS EAST, ALONG A LINE DRAWN PERPENDICULAR TO LAST DESCRIBED LINE, A DISTANCE OF 80 FEET TO THE PLACE OF BEGINNING; THENCE CONTINUING SOUTH 0 DEGREES, 22 MINUTES, 22 SECONDS EAST, A DISTANCE OF 30.00 FEET; THENCE SOUTH 84 DEGREES, 00 MINUTES 13 SECONDS WEST, A DISTANCE OF 119.58 FEET; THENCE SOUTH 84 DEGREES, 23 MINUTES, 23 SECONDS WEST, A DISTANCE OF 73.21 FEET; THENCE SOUTH 44 DEGREES, 36 MINUTES, 24 SECONDS WEST, A DISTANCE OF 14.15 FEET; THENCE WESTERLY ALONG AN ARC OF A CIRCLE, HAVING A RADIUS OF 55.50 FEET, BEING CONVEX TO THE SOUTH, THE CHORD THEREOF HAVING A BEARING OF SOUTH 89 DEGREES, 37 MINUTES, 38 SECONDS WEST AND A LENGTH OF 110.99 FEET AN ARC DISTANCE OF 172.96 FEET; THENCE NORTH 45 DEGREES, 23 MINUTES, 07 SECONDS WEST, A DISTANCE OF 14.15 FEET; THENCE NORTH 85 DEGREES, 47 SECONDS WEST, A DISTANCE OF 73.71 FEET; THENCE NORTH 81 DEGREES, 41 MINUTES, 38 SECONDS WEST, A DISTANCE OF 119.29 FEET TO A POINT ON THE WEST LINE OF A TRACT OF LAND CONVEYED BY DOCUMENT NO. R68-58998, SAID POINT BEING 103.60 FEET SOUTH 0 DEGREES, 22 MINUTES, 22 SECONDS EAST OF THE NORTHWEST CORNER OF SAID TRACT OF LAND CONVEYED BY DOCUMENT NO. R68-58998; THENCE SOUTH 89 DEGREES, 37 MINUTES, 38 SECONDS WEST, A DISTANCE OF 67 FEET; THENCE NORTH 0 DEGREES, 22 MINUTES, 22 SECONDS WEST, A DISTANCE OF 31.05 FEET; THENCE NORTH 17 DEGREES, 18 MINUTES, 19 SECONDS WEST, A DISTANCE OF 54.94 FEET; THENCE NORTH 61 DEGREES, 58 MINUTES, 47 SECONDS WEST, A DISTANCE OF 37.93 FEET TO A POINT ON THE NORTHERLY LINE OF LOT 6, AFORESAID; THENCE NORTH 85 DEGREES, 34 MINUTES, 14 SECONDS EAST, ALONG THE NORTHERLY LINE OF SAID LOT 6, A DISTANCE OF 27.76 FEET TO A CORNER OF SAID LOT 6, BEING ALSO THE MOST EASTERLY POINT OF TRACT 4 OF THE BUTLER CO.- ILLINOIS TOLLWAY ASSESSMENT PLAT NO. 1, RECORDED DECEMBER 27, 1960 AS DOCUMENT NO. 991 695; THENCE NORTH 89 DEGREES, 37 MINUTES, 38 SECONDS EAST ALONG THE NORTH LINE OF SAID LOT 6 AND THE SOUTH RIGHT-OF-WAY LINE OF 22ND STREET, A DISTANCE OF 88.68 FEET TO THE NORTHWEST CORNER OF SAID TRACT OF LAND CONVEYED BY DOCUMENT NO. R68-58998; THENCE CONTINUING NORTH 89 DEGREES, 37 MINUTES, 38 SECONDS EAST, A DISTANCE OF 13 FEET; THENCE SOUTH 40 DEGREES, 32 MINUTES 30 SECONDS WEST, A DISTANCE OF 19.85 FEET TO A POINT ON THE WEST LINE OF SAID TRACT OF LAND CONVEYED BY DOCUMENT NO. R68-58998, SAID POINT BEING 15 FEET SOUTH 0 DEGREES, 22 MINUTES, 22 SECONDS EAST OF THE NORTHWEST CORNER OF SAID TRACT OF LAND CONVEYED BY DOCUMENT NO. R68-58998; THENCE SOUTH 9 DEGREES, 29 MINUTES, 02 SECONDS WEST, A DISTANCE OF 58.42 FEET; THENCE SOUTH 79 DEGREES, 21 MINUTES, 51 SECONDS EAST, A DISTANCE OF 10.19 FEET TO A POINT ON THE WEST LINE OF SAID TRACT OF LAND CONVEYED BY DOCUMENT NO. R68-58998, SAID POINT BEING 74.50 FEET SOUTH 0 DEGREES, 22 MINUTES, 22 SECONDS EAST OF THE NORTHWEST CORNER OF SAID TRACT OF LAND CONVEYED BY DOCUMENT NO. R68-58998; THENCE CONTINUING SOUTH 79 DEGREES, 21 MINUTES, 51 SECONDS EAST, A DISTANCE OF 138.77 FEET; THENCE NORTH 89 DEGREES, 37 MINUTES, 38 SECONDS EAST, A DISTANCE OF 242.50 FEET; THENCE NORTH 80 DEGREES, 49 MINUTES, 03 SECONDS EAST, A DISTANCE OF 137.12 FEET TO THE PLACE OF BEGINNING (EXCEPT THAT PART THEREOF LYING EAST OF THE WEST LINE OF A TRACT OF LAND CONVEYED BY DOCUMENT NO. R68-58998 AND RECORDED ON DECEMBER 19, 1968), ALL IN DUPAGE COUNTY, ILLINOIS

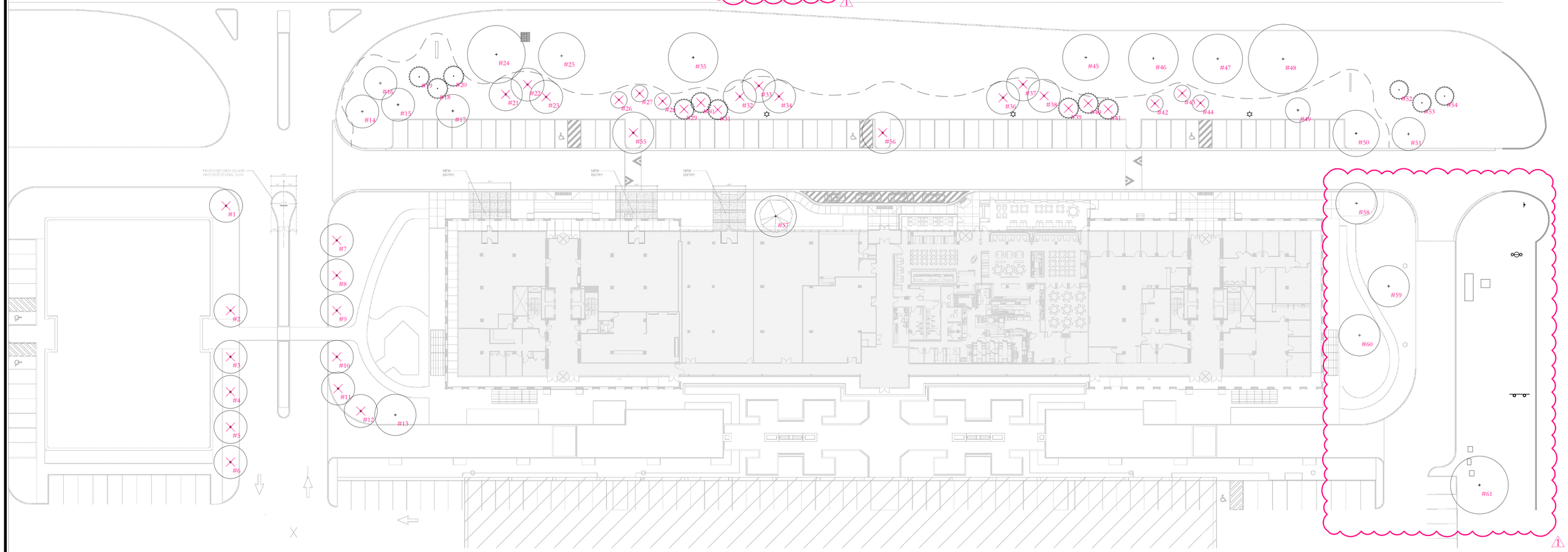
PARCEL 3 (EASEMENT PARCEL):
EASEMENTS FOR THE BENEFIT OF PARCEL 1, AFORESAID, AS CREATED BY RECIP

EXISTING TREE LEGEND

Tree #	Size	Common Name	Botanical Name	Recommendation
#1	11"	Red Maple	Acer rubrum	Remove
#2-12	4"	Ornamental Pear	Pyrus calleryana	Remove
#13	11"	Red Maple	Acer rubrum	Keep
#14-15	7"	Ornamental Pear	Pyrus calleryana	Keep
#16	12'	Common Dogwood	Cornus sanguinea	Remove
#17	9"	Ornamental Pear	Pyrus calleryana	Keep
#18-20	18'	Colorado Spruce	Picea pungens	Keep
#21-23	24'	River Birch	Betula nigra	Remove
#24	32"	Linden	Tilia cordata	Keep
#25	27"	Linden	Tilia cordata	Keep
#26-28	12'	Common Dogwood	Cornus sanguinea	Remove
#29-31	16'	Colorado Spruce	Picea pungens	Remove
#32-34	24'	River Birch	Betula nigra	Remove
#35	24"	Linden	Tilia cordata	Keep
#36-38	24'	River Birch	Betula nigra	Remove
#39-41	20'	Colorado Spruce	Picea pungens	Remove
#42-44	14'	Common Dogwood	Cornus sanguinea	Remove
#45	22"	Linden	Tilia cordata	Keep
#46	28"	Linden	Tilia cordata	Keep
#47	25"	Linden	Tilia cordata	Keep
#48	30"	Linden	Tilia cordata	Keep
#49	5.5"	Ornamental Pear	Pyrus calleryana	Keep
#50	16"	Accolade Elm	Ulmus 'Morton'	Keep
#51	8"	Honey Locust	Gleditsia triacanthos	Keep
#52-54	18'	Colorado Spruce	Picea pungens	Keep
#55-56	14"	Accolade Elm	Ulmus 'Morton'	Keep
#57	20"	Honey Locust	Gleditsia triacanthos	Keep
#58	11"	Red Maple	Acer rubrum	Keep
#59-60	18"	Red Maple	Acer rubrum	Keep
#61	20"	Honey Locust	Gleditsia triacanthos	Keep

TOTAL TREES REMOVED: 35

TOTAL TREES PROPOSED: 29



PREMIER
Landscape Architecture
2001 Spring Road, Oak Brook, Illinois | 630.321.9530 | www.premierservice.com

Oakbrook 22
1301 W 22nd St. Oak Brook, Illinois

Client Rep: MB
Designer: JS
Drafter: JS
Date: 2024.12.16

Revisions	
By:	Date:
1 JS	2025.01.10

Permit Plan: Existing Trees

P 1.0

Scale: 1" = 30'

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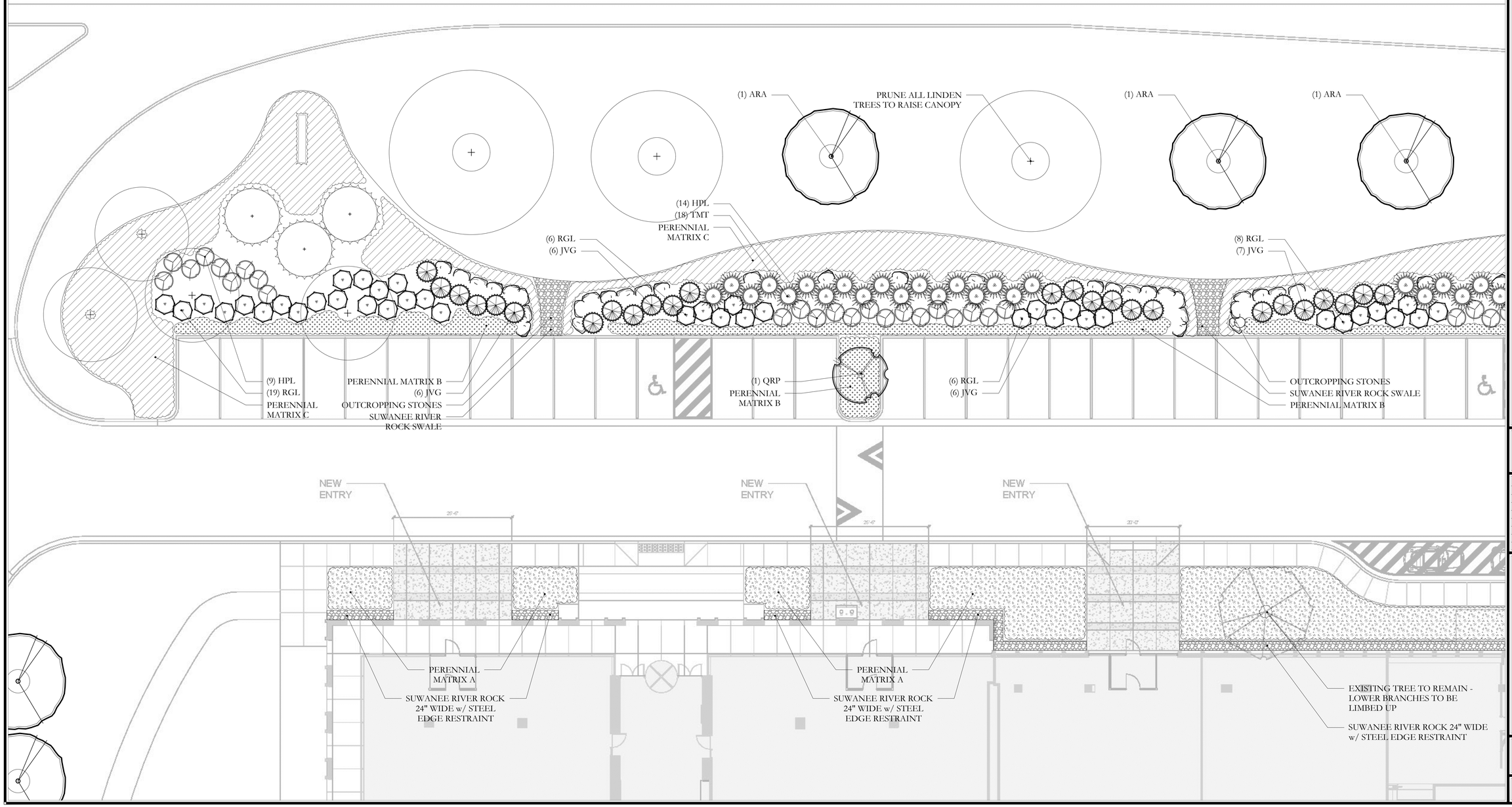
PROPOSED WEST BUFFER PLANTS

Abbreviation	Quantity	Size	Common Name	Botanical Name
ARA	3	3"	Armstong Maple	Acer rubrum 'Armstrong'
QRP	1	3"	Regal Prince Oak	Quercus robur 'Regal Prince'
HPL	23	3 Gal	Little Lime Hydrangea	Hydrangea paniculata 'Little Lime'
RGL	39	3 Gal	Gro-Low Sumac	Rhus aromatica 'Gro-Low'
JVG	25	30"	Grey Owl Juniper	Juniperus virginiana 'Grey Owl'
TMT	18	30"	Taunton Yew	Taxus media 'Tauntonii'
	1925	1 Gal	Perennial Allowance	TBD

TREES PROPOSED IN AREA: 4



PREMIER *Landscape Architecture*
2001 Spring Road, Oak Brook, Illinois | 630.321.9530 | www.premierservice.com

Oakbrook 22
1301 W 22nd St. Oak Brook, Illinois

Client Rep:	MB
Designer:	JS
Drafter:	JS
Date:	2024.12.16

Revisions	
By:	Date:

Permit Plan: Proposed West Buffer

P 1.1

Scale: 1" = 10'

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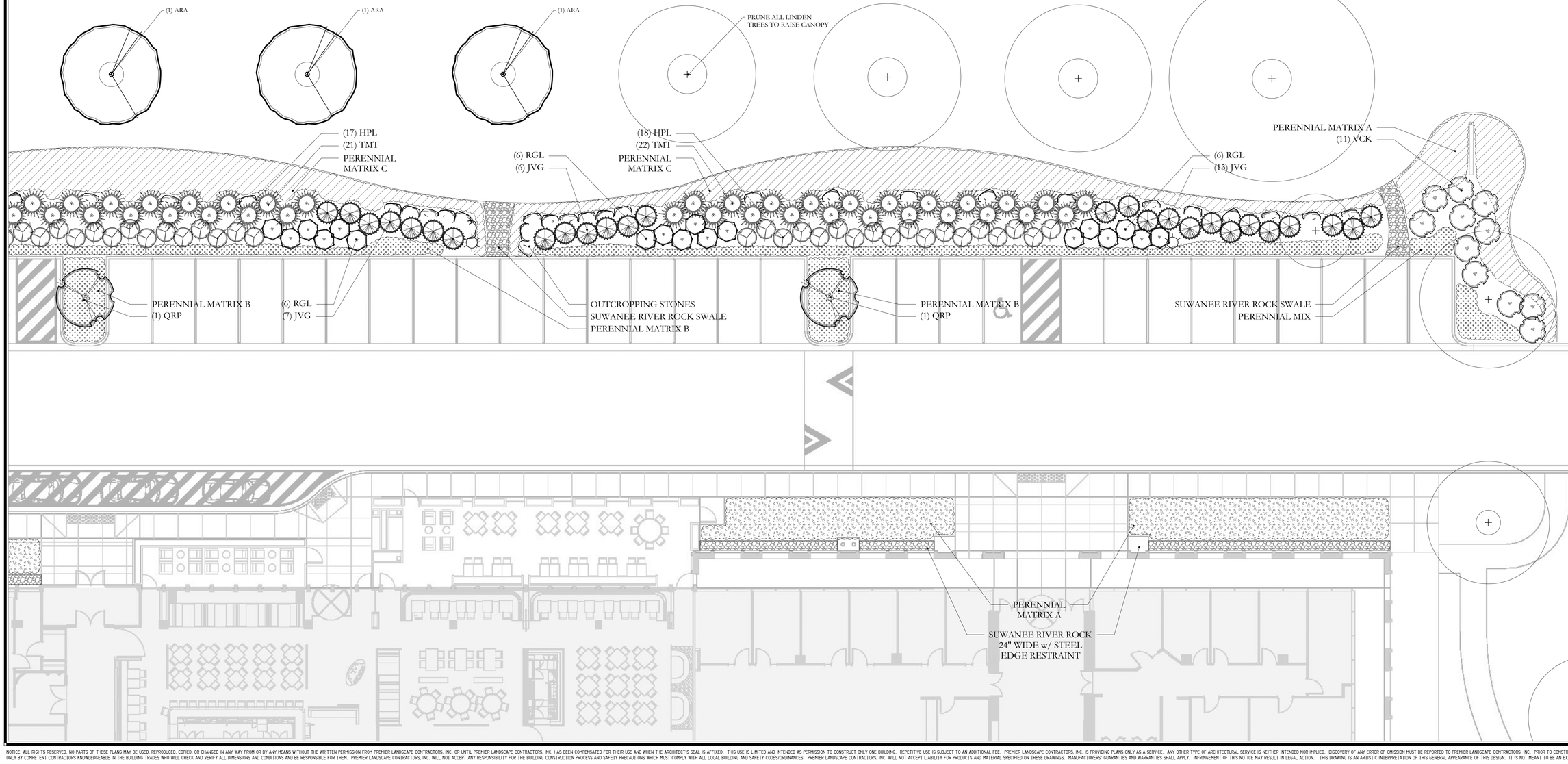
PROPOSED EAST BUFFER PLANTS

Abbreviation	Quantity	Size	Common Name	Botanical Name
ARA	3	3"	Armstong Maple	Acer rubrum 'Armstrong'
QRP	2	3"	Regal Prince Oak	Quercus robur 'Regal Prince'
HPL	18	3 Gal	Little Lime Hydrangea	Hydrangea paniculata 'Little Lime'
RGL	18	3 Gal	Gro-Low Sumac	Rhus aromatica 'Gro-Low'
JVG	19	30"	Grey Owl Juniper	Juniperus virginiana 'Grey Owl'
TMT	43	30"	Taunton Yew	Taxus media 'Tauntonii'
VCK	11	36"	Koreanspice Viburnum	Viburnum carlesii
	1800	1 Gal	Perennial Allowance	TBD

TREES PROPOSED IN AREA: 5



PREMIER
Landscape Architecture
2001 Spring Road, Oak Brook, Illinois | 630.321.9530 | www.premierservice.com

Oakbrook 22
1301 W 22nd St. Oak Brook, Illinois

Client Rep:	MB
Designer:	JS
Drafter:	JS
Date:	2024.12.16

Revisions	
By:	Date:

Permit Plan:
Proposed West Buffer

P 1.2

Scale:
1" = 10'

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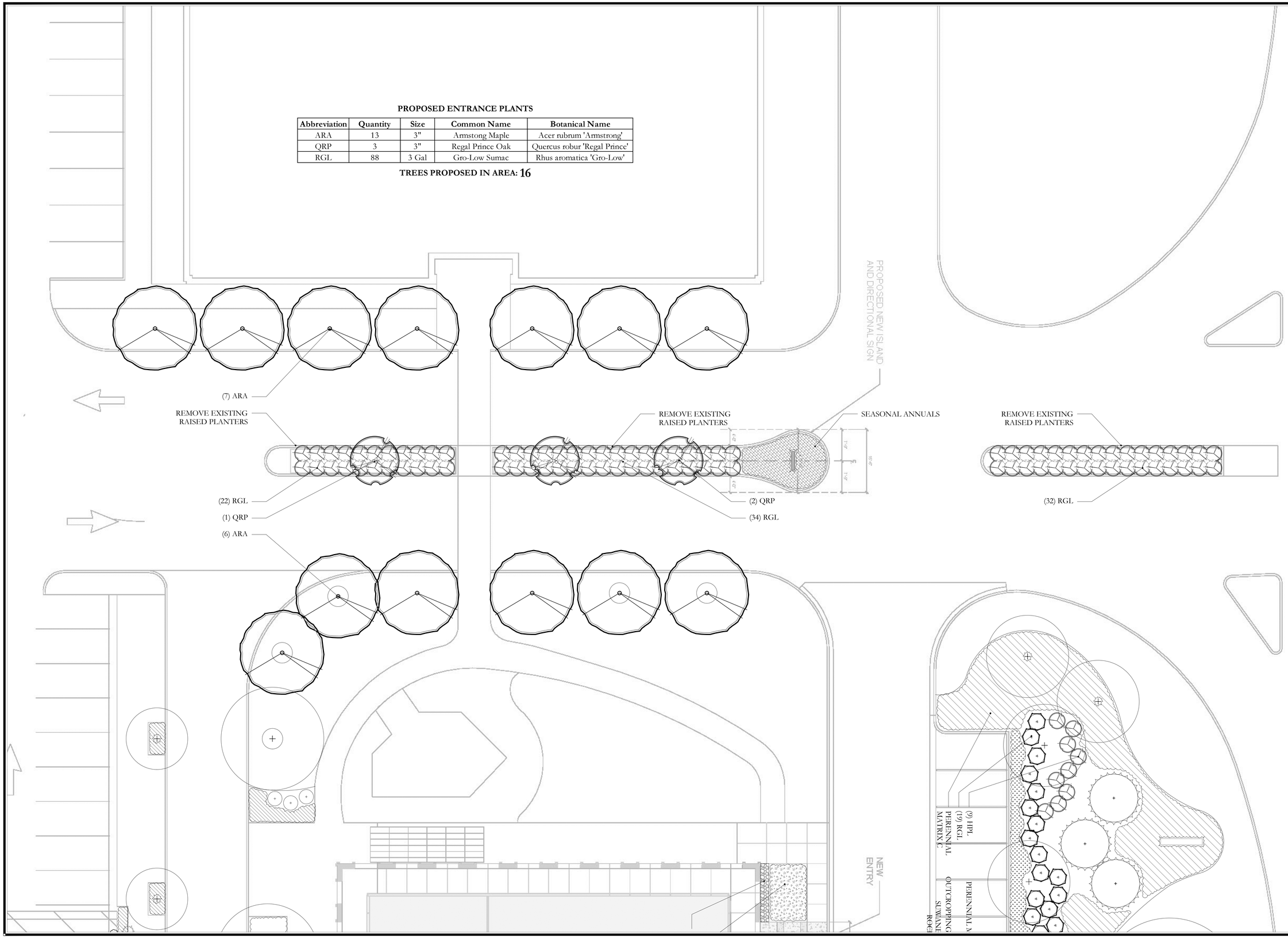
PROPOSED ENTRANCE PLANTS

Abbreviation	Quantity	Size	Common Name	Botanical Name
ARA	13	3"	Armstong Maple	Acer rubrum 'Armstrong'
QRP	3	3"	Regal Prince Oak	Quercus robur 'Regal Prince'
RGL	88	3 Gal	Gro-Low Sumac	Rhus aromatica 'Gro-Low'

TREES PROPOSED IN AREA: 16



PREMIER
Landscape Architecture
2001 Spring Road, Oak Brook, Illinois | 630.321.9530 | www.premierservice.com

Oakbrook 22

1301 W 22nd St. Oak Brook, Illinois

Client Rep:	MB
Designer:	JS
Drafter:	JS
Date:	2024.12.16

Revisions	
By:	Date:

Permit Plan
Entrance Islands

P 1.3

Scale:
1" = 10'

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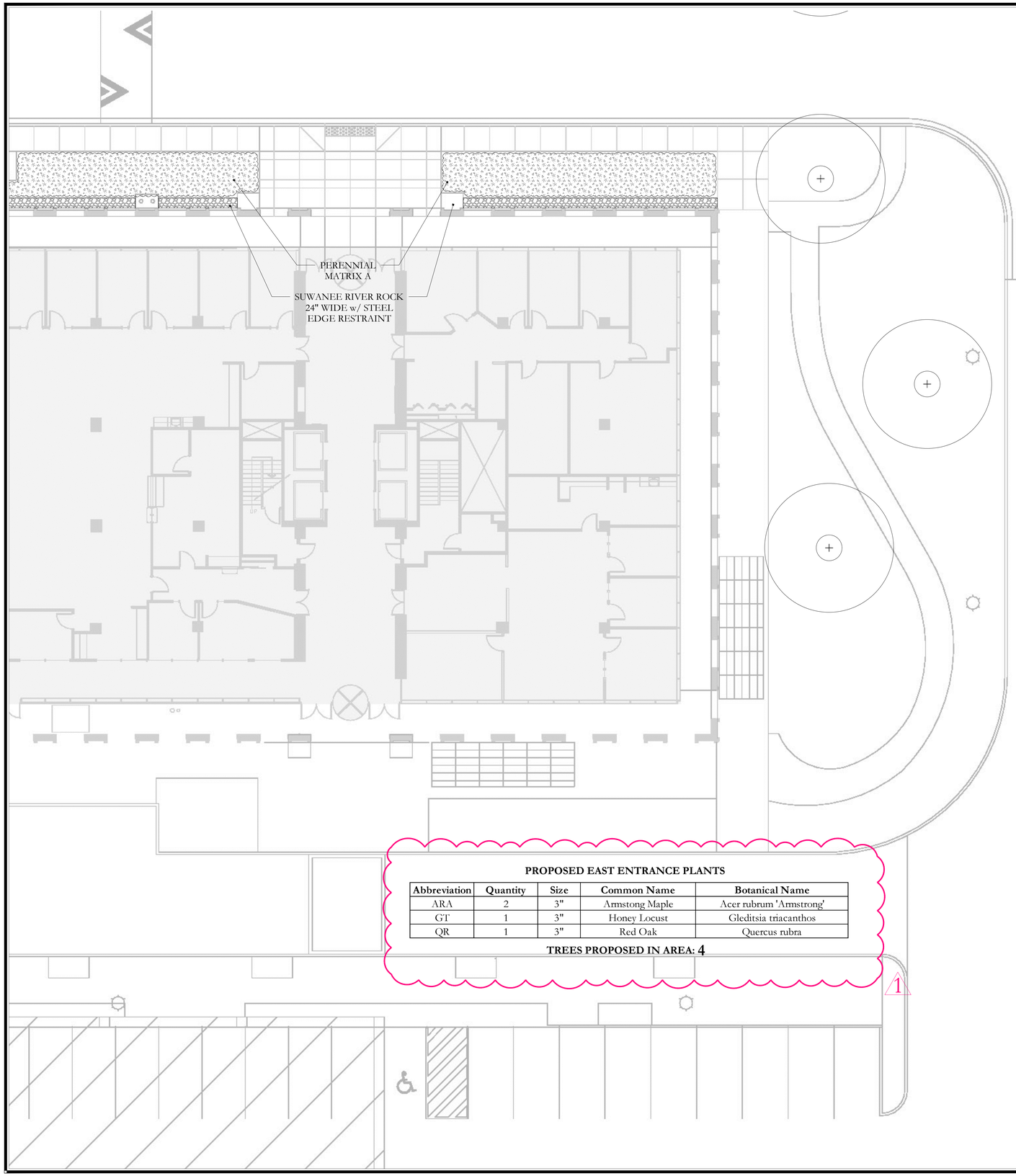

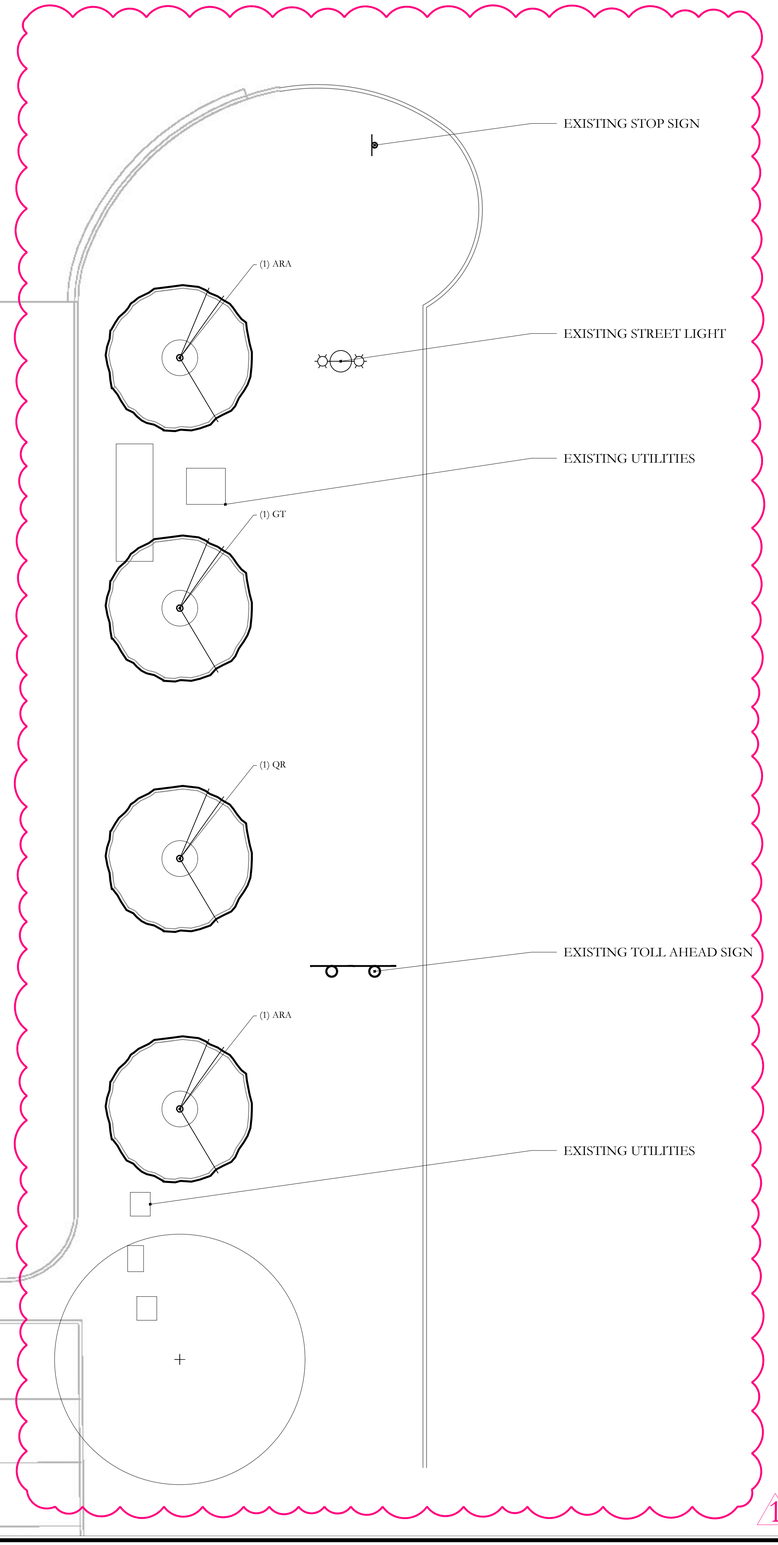

PROPOSED EAST ENTRANCE PLANTS

Abbreviation	Quantity	Size	Common Name	Botanical Name
ARA	2	3"	Armstong Maple	Acer rubrum 'Armstrong'
GT	1	3"	Honey Locust	Gleditsia triacanthos
QR	1	3"	Red Oak	Quercus rubra

TREES PROPOSED IN AREA: 4

1

1

PREMIER
Landscape Architecture
2001 Spring Road, Oak Brook, Illinois | 630.321.9530 | www.premierservice.com

Oakbrook 22

1301 W 22nd St. Oak Brook, Illinois

Client Rep:	MB
Designer:	JS
Drafter:	JS
Date:	2025.01.09

Revisions

By:	Date:
1 JS	2025.01.10

Permit Plan: East Entrance

P 1.4

Scale:
1" = 10'

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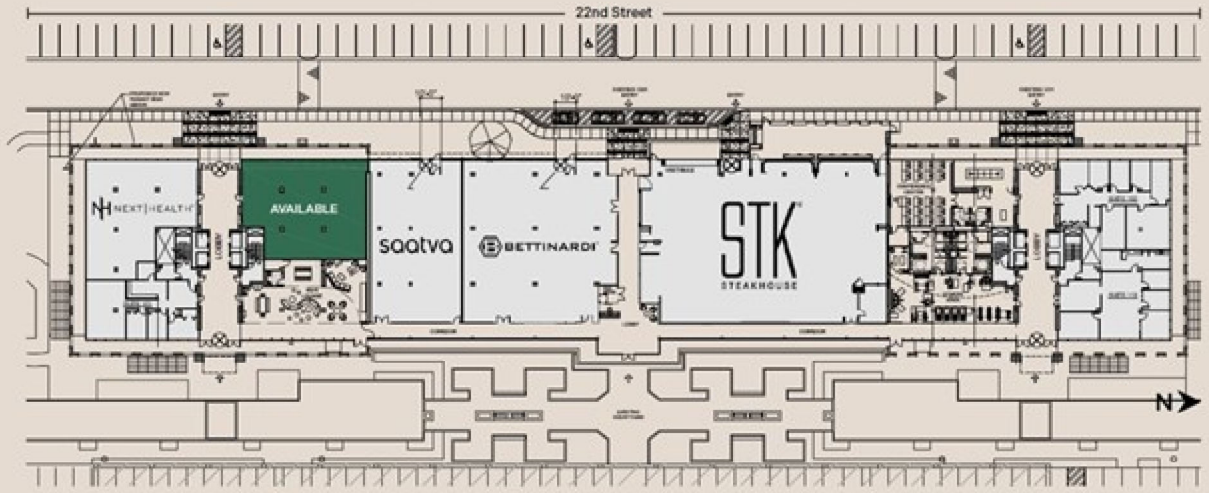
FLOOR PLAN

Available - 3,082 SF



1,185
Parking Stalls

Across from
Oakbrook Center Mall

160,500 Average
Daily Vehicles along I-88

29,900 Average
Daily Vehicles along 22nd St

ITEM 3.A.
BOARD OF TRUSTEES MEETING
SAMUEL E. DEAN BOARD ROOM
BUTLER GOVERNMENT CENTER
1200 OAK BROOK ROAD
OAK BROOK, ILLINOIS
630-368-5000

AGENDA ITEM

Board of Trustees Regular Meeting
of
April 14, 2026

SUBJECT: Preliminary Board Review 1211-1315 22nd Street – Franklin Partners

FROM: Rebecca Von Drasek, Development Services Director

BUDGET SOURCE/BUDGET IMPACT: N/A

RECOMMENDED MOTION: Provide comments, suggestions, and recommendations to Franklin Oak Brook 22, LLC regarding a proposed fitness studio (health club) and the construction of a permanently enclosed outdoor dining, within the O-3, Office District.

The preliminary Board review is outlined in the Planned Development regulations and is an important step in providing an applicant with early feedback on a project proposal (see Section 13-15-5).

Background/History:
Peter Friedman, with the consent of the property owner, Franklin Oak Brook 22, LLC, is proposing a fitness studio (Solidcore) within an existing ground-floor retail tenant space. The application also proposes constructing a permanent enclosure of a current outdoor dining area.

Staff Comments:

1. A Planned Development is required for this proposal. The intent and purpose of the planned development regulations is to provide an alternate zoning procedure under which land can be developed or redeveloped with innovation, imagination, and creative architectural design when sufficiently justified under the provisions of this chapter. The objective of the planned development is to encourage a higher level of design and amenity than is possible to achieve under standard zoning regulations. Both proposals would require relief from the Village Code. The applicant has consolidated the requests to expedite the process to the benefit of the current and future tenants.

2. A complete site plan with FAR calculations is required with the Planned Development application.

3. The subject property is currently zoned O-3, Office District. Fitness studio use is not listed as a

Permitted or Special Use in the O-3 District. Health Club is defined within the Zoning Ordinance and is not a listed Permitted or Special Use.

4. The 1990 Comprehensive Plan, Planning District 1, does not mention this type of use within the O-3, Office District. The Village code permits "retail sales and personal service uses when located on floors below those used for the principal use", this revision was incorporated within the October, 2024 Text Amendments.

5. Section 13-15-2 indicates that each Planned Development (PD) shall be presented and reviewed on its own merits. As such, a new land use can be introduced into a zoning district through a PD if it is not currently permitted but the new use/project must still be reviewed on a case-by-case basis and provide tangible benefits to the community.

6. A separate neighborhood meeting is not required as part of the outreach for this project. The neighborhood meeting is an element of the Planned Development process outlined in Section 13-15-5.B.1d.

7. The O-3 District permits a floor area ratio (FAR) not to exceed 0.8. FAR compliance for the permanently enclosed outdoor dining will be determined after a final site plan and FAR calculations are submitted by the applicant. The enclosed outdoor dining would reduce the required front yard setback from 100' to 87'.

Please see the narrative and project presentation slides provided by the applicant for additional information and background.

Recommendation:

Staff requests the Village Board discuss the concept and provide the applicant with direction as to if the use is appropriate in this location. Please provide comments, suggestions, and recommendations to the applicant concerning the proposed fitness studio use and the enclosed outdoor dining.

If the applicant decides to move forward with the project, the next step in the process is Village Board referral of the Planned Development to the Planning & Zoning Commission (P&Z) for public hearing, review and recommendation followed by.

Attachments:

1. Exhibits for PBR

Elrod Friedman LLP

350 North Clark Street
Second Floor
Chicago, Illinois 60654
312-528-5200
www.elrodfriedman.com

Peter M. Friedman
[redacted]

Kelsea Neal Nolot
[redacted]

April 6, 2026

Village Board of Trustees
Village of Oak Brook
1200 Oak Brook Road
Oak Brook, Illinois 60523

Re: Consideration of Planned Development at 1301 West 22nd Street – OB22

Dear President Herman and Village Board of Trustees:

Franklin Oak Brook 22, LLC ("***Applicant***"), as owner of the property commonly known as Oak Brook 22 ("***Subject Property***"), respectfully submits this proposed Planned Development for preliminary Board review, pursuant to Section 13-15-5, to facilitate strategic tenant improvements and site enhancements within the existing mixed-use development located at 1211-1315 West 22nd Street in Oak Brook, Illinois.

The Subject Property is located within the O-3 Office District ("***O3 District***") and consists of a legacy mixed-use campus totaling approximately 400,000 square feet of office and retail space, supported by a 1,185-space structured parking facility. The property includes two 11-story office towers, connected by a ground-floor retail concourse/linkway. This application seeks approval of a Planned Development to:

- Allow a premier boutique fitness studio (Solidcore) within an existing ground-floor tenant space in the western tower; and
- Permit the construction of a permanent enclosed indoor/outdoor dining structure associated with the existing restaurant tenant, replacing the current seasonal outdoor patio within the same footprint.

In addition, the Planned Development will establish relief from certain zoning requirements, including setbacks, parking, and floor area ratio ("***FAR***"), to accommodate these improvements.

PROPERTY CONTEXT AND EXISTING CONDITIONS

The Subject Property occupies a highly visible and prominent location at the corner of 22nd Street and Spring Road, adjacent to the I-88 interchange and directly across from Oakbrook Center Mall. This positioning provides exceptional regional accessibility and visibility, reinforcing the Property's role as a landmark within the Oak Brook commercial corridor.

Oak Brook 22 has long functioned as a premier office destination complemented by ground-floor retail and dining uses. Recent reinvestment in the property, including the opening of a new upscale restaurant in December 2025, reflects a broader evolution toward a more activated, mixed-use environment that aligns with contemporary market expectations.

PROJECT COMPONENTS

1. Solidcore Fitness Studio

The Applicant proposes to lease approximately 3,082-square-feet of currently vacant ground-floor retail space in the western tower to Solidcore, a boutique fitness operator offering small-group, reservation-based, instructor-led classes. Solidcore's operations are characterized by:

- Scheduled class times with controlled occupancy
- Limited class sizes (approximately 17 participants per session)
- Minimal reliance on walk-in traffic
- High turnover throughout the day, distributing parking demand

While fitness studios are not currently permitted or listed as a special use within the O3 District, the proposed use represents a modern evolution of ground-floor activation that is increasingly common in mixed-use office environments. The introduction of a high-quality fitness operator is expected to:

- Enhance tenant amenities for office users
- Increase daily foot traffic within the building
- Support adjacent retail and restaurant uses
- Improve overall property competitiveness in the regional office market

2. Enclosed Indoor/Outdoor Dining Structure at STK

The Applicant also proposes to construct a permanent enclosed dining structure for the existing restaurant tenant, located in the same footprint as the current outdoor patio. The proposed improvements will:

- Convert the existing seasonal patio into a year-round dining environment
- Maintain the established outdoor dining footprint with no expansion beyond current limits
- Provide flexibility for both regular dining and private events
- Enhance the overall dining experience and viability of the restaurant

This improvement responds directly to market demand for all-season dining accommodations and supports the long-term success of the restaurant tenant, which is a key component of the property's mixed-use character and will enhance this tax-generating use in the Village.

ZONING RELIEF AND PLANNED DEVELOPMENT JUSTIFICATION

To accommodate the proposed improvements, the Applicant requests approval of a Planned Development that includes standard variations from the underlying O3 zoning requirements, including:

- A fitness facility as a permitted use in a planned development.
- A reduction of the front yard setback requirement from 100 feet to 87 feet, to allow for development of a permanent enclosure of the existing patio, but within its current footprint.
- A reduction of the FAR may be required from the existing .08 depending on final calculations and staff confirmation, to facilitate enclosure of the previously unenclosed patio space.

The Planned Development framework is appropriate in this instance because:

- The Subject Property already functions as an integrated mixed-use campus
- The proposed modifications are limited in scope and occur within an existing developed site
- The requests reflect adaptive reuse rather than new ground-up development
- The improvements enhance, rather than alter, the overall character of the property

PARKING AND CIRCULATION

The Subject Property is supported by a structured parking facility containing approximately 1,185 spaces, designed to accommodate office, retail, and restaurant users through a shared parking model. The proposed uses will not create adverse parking impacts due to:

- Offset peak demand periods (office vs. fitness vs. dining)
- Scheduled class formats at the fitness studio
- Existing surplus parking capacity during non-peak office hours

STREAMLINED APPROVAL PROCESS

Because both proposed tenant improvements require zoning relief, Village staff recommended the use of a Planned Development to consolidate approvals into a single, coordinated process.

This approach provides several benefits:

- Eliminates duplicative review procedures
- Ensures consistent evaluation of impacts across the entire property
- Establishes a clear regulatory framework for current and future tenants

The Applicant acknowledges that:

- Future tenants will be required to comply with the approved Planned Development and underlying zoning district; and
- Any major deviations will require further review and approval by the Village, including potential amendments to the Planned Development, as may be required by the Village Code.

CONSISTENCY WITH VILLAGE OBJECTIVES

The proposed Planned Development advances several key planning objectives of the Village of Oak Brook, including:

- Supporting reinvestment in existing commercial properties
- Encouraging high-quality dining and lifestyle amenities
- Enhancing the viability of office developments through mixed-use activation
- Promoting efficient land use through adaptive reuse

The project represents a thoughtful evolution of an established property, ensuring its continued relevance in a changing market while maintaining compatibility with surrounding uses.

CONCLUSION

The Applicant respectfully requests approval of the Planned Development to allow for the introduction of a boutique fitness studio and the enhancement of an existing restaurant through a permanent enclosed dining structure. These improvements will:

- Strengthen the economic vitality of the Subject Property
- Enhance the experience for tenants, visitors, and the broader community
- Reinforce Oak Brook 22's position as a premier mixed-use destination

Thank you for the opportunity to present this critically important piece of the Oak Brook 22 development to the Village Board for preliminary review at the Board's April 14, 2026 meeting. We are prepared to present the proposed planned development for Oak Brook 22 to the Village Board and to address any questions, comments, or concerns that Board members may have.

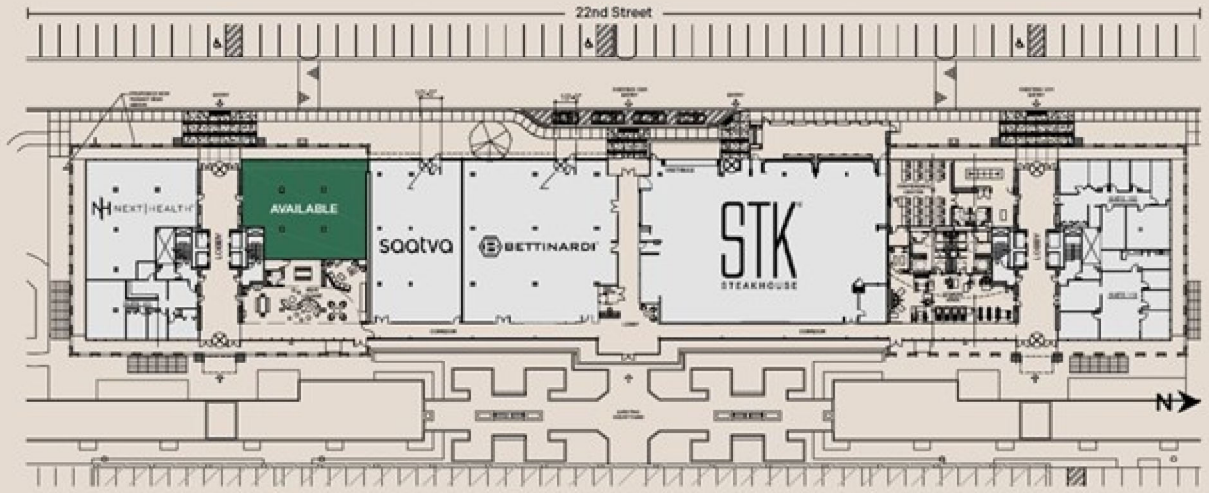
Sincerely,

Peter M. Friedman

Mike Ditka's
Panera Bread
Pinstripes
Crate and Barrel
Microsoft Store
True Food Kitchen
AMC Oak Brook Center
J. Alexanders
Potbelly
Hilton Chicago
Oak Brook Suites Hotel
Perry's Steakhouse
Maggiano's Little Italy
Old Town Pour House
Beatrix Wildfire
Double Tree by
Hilton Chicago Hotel
Downtown Chicago
Nordstrom
Lifetime Fitness
Shake Shack
Gibsons Steakhouse
The Cheesecake Factory
Treehouse Foods
Apple Store
Neiman Marcus
Blanco Mexican Cuisine
Pottery Barn
Restoration
Hardware Rooftop
Macy's
Arhaus
Roka Akor
Fogo de Chao
Alter Brewing
Puttshack
Sweetgreen
Piccolo Bucco -
Cooper's Hawk
22nd Street
Starbuck's
Chicago Marriott
Oak Brook Hotel
Bettinardi Golf
STK Steakhouse
I-88 Highway Access Direct from Parking Lot
RETAIL AT
OB
22
Midway Airport - 16.0 Miles
Chicago O'Hare International Airport - 14.8 Miles
88
N

FLOOR PLAN

Available - 3,082 SF



1,185
Parking Stalls

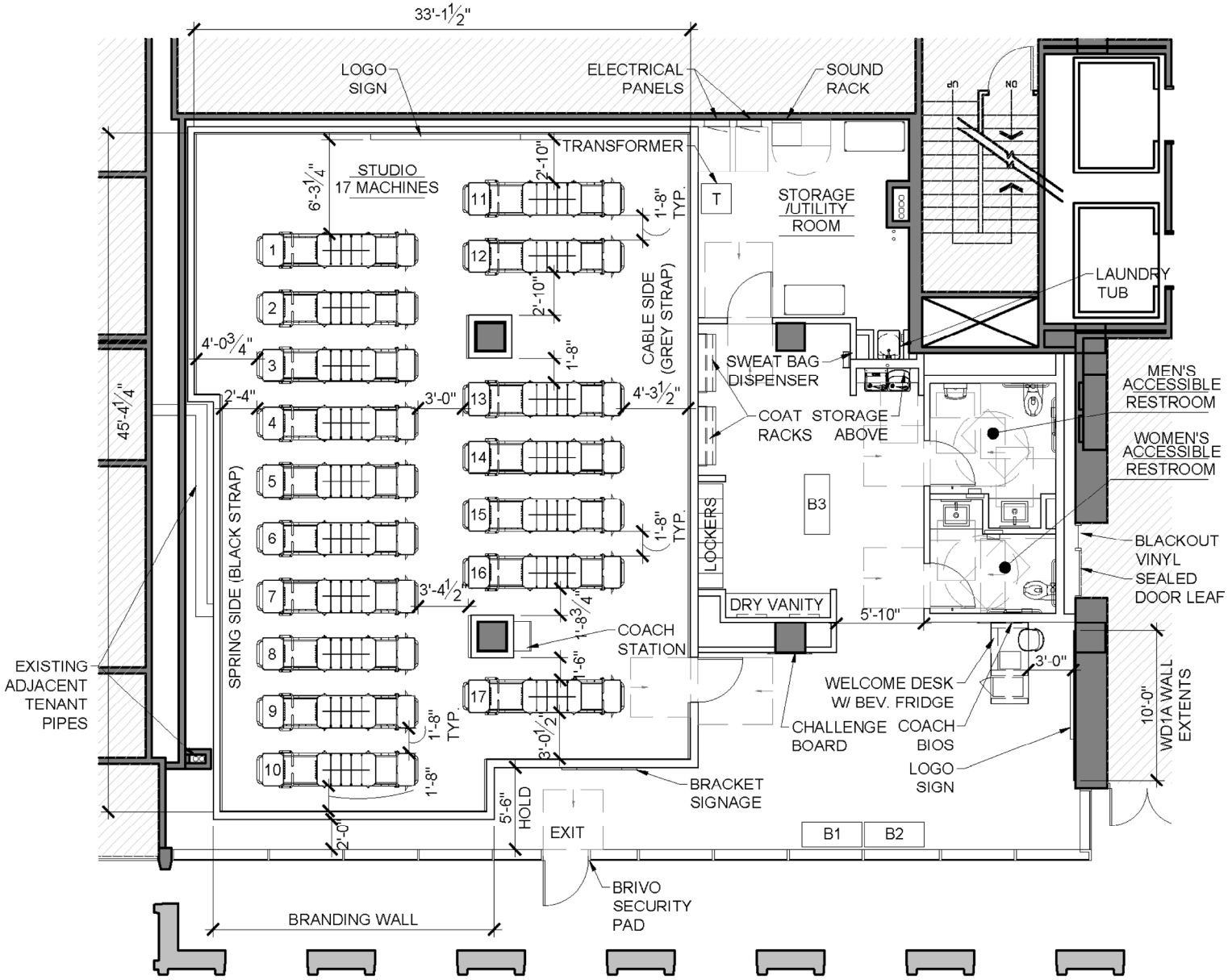
Across from
Oakbrook Center Mall

160,500 Average
Daily Vehicles along I-88

29,900 Average
Daily Vehicles along 22nd St

MICHAEL JORDAN'S
1301

1301
TENANT
NEXT HEALTH



LEGEND

EXISTING PARTITION

NEW PARTITION

NOT IN CONTRACT (N

SQ. FOOTAGE CALCULATION

+/-3,082 RSF

N

01 FLOOR PLAN

1/8" = 1'-0"

[solidcore]

[solidcore] OAK BROOK, IL

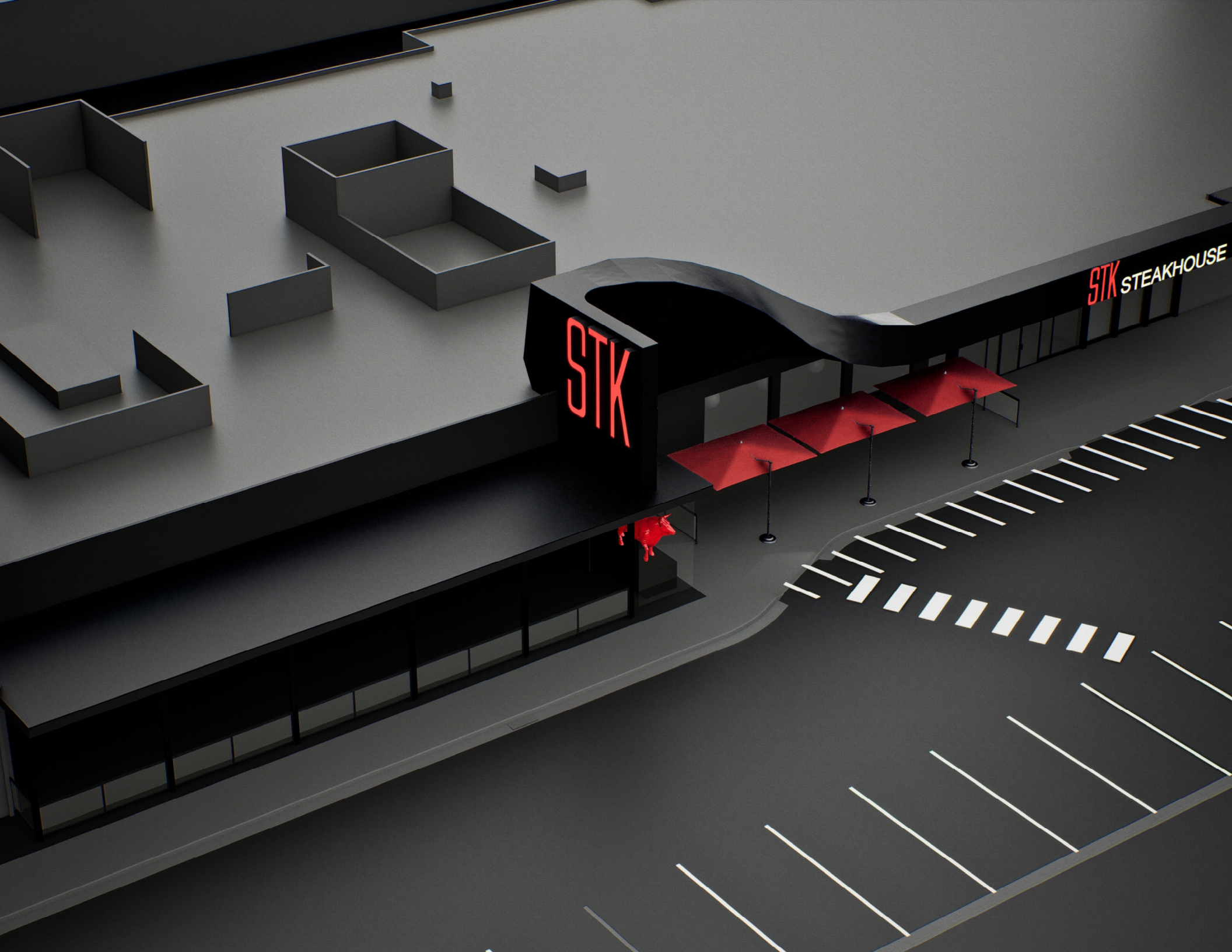
FLOOR PLAN

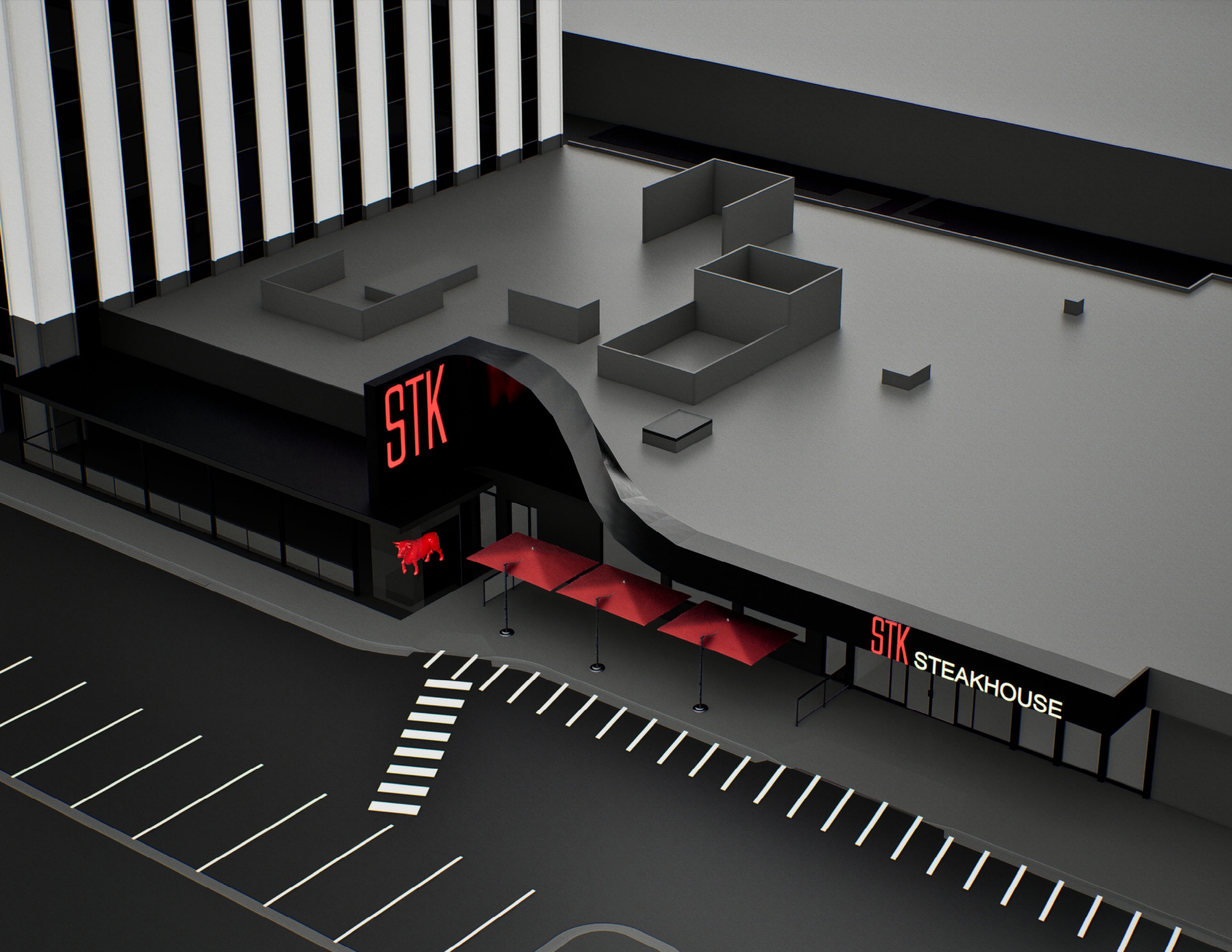
DXU ARCHITECTS
412 S. Wells Street • 2nd Floor • Chicago • IL • 60607
P: 312 955 0334 • dxuarch.com

DATE 03-0

SHEET NO.

STK


STK
STK STEAKHOUSE


STK
STK STEAKHOUSE

Application Fee

Record No.**PD-26-3**

Status Completed

Type Payment

Assignee Kelsea Nolot

Invoice ID 269794

Became Active April 28, 2026

Due Date None

Fee Breakdown

Fee Name	Total Fee	Paid	Due
Major Change to an Existing Planned Development	$0.00	$0.00	$0.00
Minor Change to an Approved/Existing Planned Development	$0.00	$0.00	$0.00
✔ New Planned Development	$1,500.00	$1,500.00	$0.00
✔ Number of Waivers and/or Variations	$1,000.00	$1,000.00	$0.00
✔ Daily Herald Legal Posting	$120.00	$120.00	$0.00
✔ Public Hearing Signs	$125.00	$125.00	$0.00
Total	**$2,745.00**	**$2,745.00**	**$0.00**

Payment History

Date	Method	Note	Paid
05/01/2026	Check	PD-26-3 / 1301 22nd Street	$2,745.00

Village of Oak Brook, IL

May 1, 2026

Initial Escrow Deposit

Record No.**PD-26-3**

Status Completed

Type Payment

Assignee Kelsea Nolot

Invoice ID 269805

Became Active April 28, 2026

Due Date None

Fee Breakdown

Fee Name	Total Fee	Paid	Due
Escrow	$500.00	$500.00	$0.00
Total	**$500.00**	**$500.00**	**$0.00**

Payment History

Date	Method	Note	Paid
05/01/2026	Check	PD-26-3 / 1301 22nd Street	$500.00

ITEM 8.A.8.
BOARD OF TRUSTEES MEETING
SAMUEL E. DEAN BOARD ROOM
BUTLER GOVERNMENT CENTER
1200 OAK BROOK ROAD
OAK BROOK, ILLINOIS
630-368-5000

AGENDA ITEM

Board of Trustees Special Meeting
of
June 16, 2026

SUBJECT: Surplus Property

FROM: Rania Serences, Purchasing and Budgeting Coordinator

BUDGET SOURCE/BUDGET IMPACT: N/A

RECOMMENDED MOTION: I move that the Village Board approve Ordinance S-1742, An Ordinance Authorizing the Sale or Donation or Recycling or Disposal of Certain Items of Personal Property Owned by the Village of Oak Brook.

Background/History:
The attached Ordinance authorizes the recycling of IT equipment from various departments and the sale of Public Works equipment. All the surplus items have reached the end of their useful lives and have been replaced with newer models.

Staff will contact Digital R-E-D of Batavia, Illinois, who will recycle the surplus workstations, monitors, scanners, and printers efficiently and safely in an environmentally sustainable manner. Digital R-E-D has a zero landfill policy and is focused on providing recycling transparency. Digital R-E-D has previously provided this service for the Village and there is no charge for this service. Hard drives and operating systems on the workstations have been removed and will be disposed of separately.

The Public Works equipment consists of forty-nine (49) Lumec Philips 400 Watt High Pressure Sodium (HPS) Streetlight Lamp Heads. Staff will register the Public Works equipment with iBid, the online auctioneer run by the State of Illinois. If no bids are received through the online auction, any remaining equipment will be disposed of properly.

Recommendation:
Staff recommends that the Village Board approve Ordinance S-1742, An Ordinance Authorizing the Sale or Donation or Recycling or Disposal of Certain Items of Personal Property Owned by the Village of Oak Brook.

Attachments:

1. S-1742 - IT&PWSurplusOrd

THE VILLAGE OF OAK BROOK

COOK AND DUPAGE COUNTIES, ILLINOIS

ORDINANCE

2026-PP-S-1742

AN ORDINANCE AUTHORIZING THE SALE OR DONATION OR RECYCLING OR DISPOSAL OF CERTAIN ITEMS OF PERSONAL PROPERTY OWNED BY THE VILLAGE OF OAK BROOK

LAURENCE E. HERMAN, Village President
NETASHA SCARPINITI, Village Clerk

JOHN ANOS
NAVEEN JAIN
MICHAEL MANZO
MELISSA MARTIN
A. SURESH REDDY
EDWARD TIESENGA

Village Board

Published in pamphlet form by authority of the President
and the Board of Trustees of the Village of Oak Brook
on the 16th day of June, 2026

ORDINANCE 2026-PP-S-1742

AN ORDINANCE AUTHORIZING THE SALE OR DONATION OR RECYCLING OR DISPOSAL OF CERTAIN ITEMS OF PERSONAL PROPERTY OWNED BY THE VILLAGE OF OAK BROOK

WHEREAS, in the opinion of a majority of the corporate authorities, it is no longer necessary or useful or in the best interests of the Village to retain the items of personal property listed below; and

WHEREAS, the Village wishes to dispose of said property by sale or donation or recycling or disposal.

NOW, THEREFORE, BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF OAK BROOK, DU PAGE AND COOK COUNTIES, ILLINOIS as follows:

Section 1: The foregoing recitals are incorporated herein as findings of the corporate authorities.

Section 2: Pursuant to 65 ILCS 5/11-76-4, the President and Board of Trustees find that the items listed in Exhibit A, now owned by the Village, are surplus property and are no longer necessary or useful to the Village and the best interests of the Village will be served by the sale of the Public Works equipment and of the recycling of the IT equipment. Any Public Works equipment that does not sell via the iBid online auction shall be disposed of properly.

Section 3: Pursuant to 65 ILCS 5/11-76-4, the Village Manager is hereby authorized and directed to dispose of the above items by sale or donation or recycling or disposal, as designated in Section 2.

Section 4: This ordinance shall be in full force and effect from and after its passage, approval and publication as required by law.

SIGNATURE PAGE FOLLOWS

PASSED THIS 16th day of June, 2026

Ayes: _____

Nays: _____

Absent: _____

APPROVED THIS 16th day of June, 2026

_____
Laurence E. Herman
Village President

ATTEST:

_____
Netasha Scarpiniti
Village Clerk

EXHIBIT A

IT SURPLUS EQUIPMENT TO BE RECYCLED BY DIGITAL R-E-D			
ITEM DESCRIPTION	**BRAND**	**MODEL**	**SERVICE TAG**
Workstation	Dell	OptiPlex 3080	565VM83
Workstation	Dell	OptiPlex 3080	55KZM83
Workstation	Dell	OptiPlex 3080	55PYM83
Workstation	Dell	OptiPlex 3050	D208YJ2
Workstation	Dell	OptiPlex Micro Plus 7020	9KZGQ54
Workstation	Dell	OptiPlex Micro 7010	FJ0ZMW3
Workstation	Dell	OptiPlex Micro 7010	6G0ZMW3
Workstation	Dell	OptiPlex 3050	D014MP2
Workstation	Dell	OptiPlex 3080	55TVM83
Workstation	Dell	OptiPlex 3080	55BYM83
Workstation	Dell	OptiPlex 3080	559WM83
Workstation	Dell	OptiPlex 3080	55XYM83
Workstation	Dell	OptiPlex 3080	55XXM83
Workstation	Dell	OptiPlex 3080	55WYM83
Workstation	Dell	OptiPlex 3080	55SWM83
Workstation	Dell	OptiPlex 3080	55XVM83
Workstation	Dell	Precision 3450	71L2MH3
Workstation	Dell	OptiPlex 3080	566ZM83
Workstation	Dell	OptiPlex 3090	JJYDLM3
Workstation	Dell	OptiPlex 3090	JCVDLM3
Workstation	Dell	OptiPlex 3090	5VZGTH3
Workstation	Dell		1PQLCW
Workstation	Dell	OptiPlex Micro Plus 7020	3LZGQ54
Workstation	Dell	OptiPlex Micro Plus 7020	8DZQY24
Workstation	Dell	OptiPlex Micro 7010	1MQLCW3
Workstation	Dell	OptiPlex 3040	8JSZFB2
Workstation	Panasonic	Toughbook	CF-33LE-00VM
Workstation	Dell	OptiPlex 3090	9RZGTH3
Workstation	Dell	OptiPlex 3090	9R6GTH3
Monitor	Dell	P2222H	3HZR2C3

Monitor	LG		CN0Y183D7426195P2DVU
Monitor	Dell		606NTBKBT781
Monitor	Dell		606NTFABT779
Monitor	Dell		702KKAJ0S312
Monitor	Elo		J133004343
Monitor	Elo		J133004345
Monitor	Dell		8LNZ152
Monitor	LG		CN0PVJVW742615390WWL
Monitor	Dell	P2418HT	DP357R2
Monitor	Dell	P2418HT	HX357R2
Monitor	Dell		G0L2252
Monitor	LG		CN0F8NDP7426113B3JDU
Monitor	LG		CN0PVJVW742615362L9L
Monitor	Dell		BOM2252
Monitor	LG		CN0Y183D7426195P2D7U
Monitor	LG		CN0DW711716230830903
Monitor	LG		CN0DW711716230830910
Monitor	LG		CN0F8NDP7426113B3JEU
Monitor	Elo		K10L049666
Monitor	Dell	U2421HE	8S9XQ83
Monitor	LG		104RKMK0F075
Monitor	LG		610NTWG13313
Monitor	Samsung		02ZV3CSGB20401L
Monitor	LG		CN0F8NDP7426113B3J6U
Scanner	Canon		GXY20748
Scanner	Canon		GX305220
Scanner	Canon		FQ310769
Scanner	Canon		GX326261
Scanner	Canon		FQ307759
Scanner	Colortrac		H2605141
Printer	HP		CNBK623388
Printer	HP		GQ301184
Printer	HP		FL304541
Printer	HP		PHBB608281
Printer	HP		PHBHX54801
Printer	HP		CNBCMB324X
Printer	Brother		B3QT77H505
Printer	Dymo		17501602419206

PUBLIC WORKS SURPLUS EQUIPMENT TO BE SOLD ON iBID	
QUANTITY	**ITEM DESCRIPTION**
49	Lumec Philips 400 Watt High Pressure Sodium (HPS) Streetlight Lamp Heads

ITEM 8.A.9.
BOARD OF TRUSTEES MEETING
SAMUEL E. DEAN BOARD ROOM
BUTLER GOVERNMENT CENTER
1200 OAK BROOK ROAD
OAK BROOK, ILLINOIS
630-368-5000

AGENDA ITEM

Board of Trustees Special Meeting
of
June 16, 2026

SUBJECT: Position Classification and Salary Plan

FROM: Marilyn Fumero, Finance Director

BUDGET SOURCE/BUDGET IMPACT: Full-Time and Part-Time Personnel Salary Account of $67,560.00.

RECOMMENDED MOTION: I move to approve Ordinance S-1744, an Ordinance approving the amended 2026 Classification, Salary Plan and Salary Administration Policy for Non-Represented Employees of the Village of Oak Brook, Illinois effective July 1, 2026.

Background/History:
In 2025, the Board approved adding the position of Assistant Golf Course Superintendent. Since then, staff have actively advertised the position with no success. Due to the lack of candidate interest, Sports Core Director Segura, with the support of VM Summers and FD Fumero, recommends reclassifying the position from Grade 16 to Grade 22 to broaden the candidate pool and make the salary range competitive. Additionally, Head Librarian Post recommends adding two part-time positions (500 hours each) to relieve current operational demands on library staff and ensure consistent customer service coverage during employees' PTO.

Recommendation:
Staff recommends that the Village Board approve Ordinance S-1744, an Ordinance approving the amended 2026 Classification, Salary Plan and Salary Administration Policy for Non-Represented Employees of the Village of Oak Brook, Illinois effective July 1, 2026.

Attachments:
1. Ordinance S-1744 Salary Plan
2. VoOB Pay Grade 2026 (Amended) Exibit A

THE VILLAGE OF OAK BROOK

COOK AND DUPAGE COUNTIES, ILLINOIS

ORDINANCE

2026-PSTN-COMP-SAP-EX-S-1744

AN ORDINANCE APPROVING THE AMENDED 2026 CLASSIFICATION, SALARY PLAN AND SALARY ADMINSITRATION POLICY

LAURENCE E. HERMAN, Village President
NETASHA SCARPINITI, Village Clerk

JOHN ANOS
NAVEEN JAIN
MICHAEL MANZO
MELISSA MARTIN
A. SURESH REDDY
EDWARD TIESENGA

Village Board

Published in pamphlet form by authority of the
President and the Board of Trustees of the Village of Oak Brook
on the 16th day of June 2026

ORDINANCE 2026-PSTN-COMP-SAP-EX-S-1744

AN ORDINANCE APPROVING THE AMENDED 2026 CLASSIFICATION,

SALARY PLAN AND SALARY ADMINISTRATION POLICY

WHEREAS, pursuant to the Village of Oak Brook Personnel Manual, the Village endeavors to compensate its employees fairly and competitively, and therefore has established a Position Classification and Salary Plan in Appendix A to the Village's current Personnel Manual (***"Salary Plan"***); and

WHEREAS, the Village Manager has recommended that changes be made to the salary ranges, amounts, and structure in the Salary Plan, as set forth in **Exhibit A** to this Ordinance; and

WHEREAS, the Village Manager also recommends the approval of these changes to the Salary Plan to be effective as of July 1, 2026; and

NOW, THEREFORE, BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF OAK BROOK, DUPAGE AND COOK COUNTIES, ILLINOIS, as follows:

Section 1. That the Village Manager's recommendation with regard to changes in the Salary Plan is hereby accepted and those changes as reflected in Exhibit A hereto are approved.

Section 2. That all or any part of the Salary Plan that is not affected by the terms of Exhibit A hereto shall remain in full force and effect.

Section 3. That this resolution shall be in full force and effect force and after its passage, approval and publication as required by law.

Section 4. That all ordinances, resolution or motions in conflict with the provisions of this resolution be and the same are hereby repealed to the extent of such conflict.

PASSED THIS 16th day of June 2026.

Ayes: _____

Nays: _____

Absent: _____

APPROVED THIS 16th day of June 2026.

_____
Laurence E. Herman
Village President

ATTEST:

_____
Netasha Scarpiniti
Village Clerk

(Part Time Positions Shown Hourly)

PROPOSED FY 2026

Position Title	**Grade**	Minimum	Midpoint	Maximum
Village Manager			Contract Position	
Assistant Village Manager	39	155,566.54	183,019.66	210,973.91
Finance Director	38	148,190.81	174,246.86	201,041.81
Police Chief	38	148,190.81	174,246.86	201,041.81
Fire Chief	38	148,190.81	174,246.86	201,041.81
Information Technology Director	37	141,103.31	166,004.36	191,358.81
Community Development Director	37	141,103.31	166,004.36	191,358.81
Director of Public Works	37	141,103.31	166,004.36	191,358.81
Sports Core Director	35	127,984.52	150,570.95	173,568.54
Deputy Police Chief	35	127,984.52	150,570.95	173,568.54
Assistant Information Technology Director	34	121,890.99	143,400.96	165,303.58
Battalion Chief	34	121,890.99	143,400.96	165,303.58
Assistant Public Works Director	34	121,890.99	143,400.96	165,303.58
Police Sergeant	33	116,085.79	136,572.45	157,431.93
Assistant Finance Director	32	110,558.76	130,068.47	149,935.44
Financial Services Manager	32	110,558.76	123,874.73	149,935.44
Chief Building Official	32	110,558.76	130,068.47	149,935.44
Head Librarian	32	110,558.76	130,068.47	149,935.44
Marketing Manager	32	110,558.76	123,874.73	149,935.44
Golf Course Superintendent	32	110,558.76	130,068.47	149,935.44
				-
Information Systems Administrator	29	95,504.15	112,357.76	129,519.01
Human Resources Manager	29	95,504.15	112,357.76	129,519.01
Village Planner	28	90,956.34	107,007.12	123,352.04
Purchasing and Budget Coordinator	28	90,956.34	107,007.12	123,352.04
Public Works Field Operations Supervisor	28	90,956.34	107,007.12	123,352.04
Fleet & Facilities Supervisor	28	90,956.34	107,007.12	123,352.04

Position Title	Grade	Minimum	Midpoint	Maximum
Senior Accountant	27	86,625.62	101,912.03	117,477.48
HR Benefits Administrator	27	86,625.62	101,912.03	117,477.48
Golf Course Professional	27	86,625.62	101,912.03	117,477.48
Bath and Tennis Manager (PT)	27	41.65	46.66	56.48
Accountant	25	78,571.39	92,437.60	106,555.78
Management Analyst	25	78,571.39	92,437.60	106,555.78
Executive Assistant	25	78,571.39	92,437.60	106,555.78
Building Inspector	25	78,571.39	92,437.60	106,555.78
Planning Technician	24	74,829.79	88,035.65	101,481.42
Plumbing Inspector (PT)	24	35.98	40.31	48.79
Plan Reviewer (PT)	24	35.98	40.31	48.79
Senior Permit Coordinator	23	71,266.84	83,842.88	96,649.62
Technical Services Supervisor	22	67,873.51	79,850.26	92,046.77
Public Services Supervisor	22	67,873.51	79,850.26	92,046.77
Circulation Services Supervisor	22	67,873.51	79,850.26	92,046.77
Mechanic (Golf Course)	22	67,873.51	79,850.26	92,046.77
Assistant Golf Course Maintenance Superintendent	**22**	**67,873.51**	**79,850.26**	**92,046.77**
Senior Accounting Assistant	21	64,640.74	76,048.72	87,663.81
Crime Analyst	21	64,640.74	72,427.36	87,663.81
Administrative Coordinator	21	64,640.74	76,048.72	87,663.81
Senior Administrative Assistant	20	61,562.88	72,426.98	83,489.39
Senior Administrative Assistant (PT)	20	29.60	34.82	40.13
Code Enforcement (PT)	20	29.60	34.82	40.13
Community Service Officer	20	61,562.88	68,978.08	83,489.39
Head Golf Professional	20	61,562.88	72,426.98	83,489.39
Assistant Golf Professional	20	61,562.88	72,426.98	83,489.39
Accounting Assistant	19	58,630.88	68,978.24	79,513.33
Administrative Assistant	19	58,630.88	68,978.24	79,513.33
Administrative Assistant (PT)	19	28.19	33.16	38.23
Lead Police Records Clerk	19	58,630.88	68,978.24	79,513.33
Planning Technician Assistant (PT)	19	28.19	33.16	38.23
Permit Coordinator	19	58,630.88	68,978.24	79,513.33

Position Title	**Grade**	Minimum	Midpoint	Maximum
Permit Coordinator (PT)	19	28.19	33.16	38.23
Librarian	19	58,630.88	68,978.24	79,513.33
Librarian (PT)	19	28.19	33.16	38.23
Police Records Clerk	18	55,839.09	65,693.45	75,727.68
Police Records Clerk (PT)	18	26.84	31.58	36.41
Golf Grill Supervisor	18	55,839.09	65,693.45	75,727.68
Program Coordinator	18	55,839.09	65,693.45	75,727.68
~~Assistant Golf Course Maintenance Superintendent~~	~~16~~	~~50,647.89~~	~~59,586.35~~	~~68,686.83~~
Library Assistant (PT)	14	22.08	25.98	29.96
Administrative Clerk (PT)	13	21.03	24.75	28.53
Customer Service Associate (PT)	13	21.03	24.75	28.53
Technical Services Clerk (PT)	10	18.17	21.38	24.64
Circulation Clerk (PT)	9	17.30	20.36	23.47
Technical Services Processing Assistant (PT)	3	15.75	17.22	17.51

ITEM 8.A.10.
BOARD OF TRUSTEES MEETING
SAMUEL E. DEAN BOARD ROOM
BUTLER GOVERNMENT CENTER
1200 OAK BROOK ROAD
OAK BROOK, ILLINOIS
630-368-5000

AGENDA ITEM

Board of Trustees Special Meeting
of
June 16, 2026

SUBJECT: 2026 2nd Quarter Budget Amendment

FROM: Marilyn Fumero, Finance Director

BUDGET SOURCE/BUDGET IMPACT: The budget impact shows an increased expense of $117,689.96, which will be offset by current revenues that have exceeded budget projections.

RECOMMENDED MOTION: I move that the Village Board adopt Ordinance S-1743 "An Ordinance Authorizing Amendments And Transfers Among Budget Line Items."

Background/History:

During the course of a year, there are numerous situations that may arise that cause an account, program, or even a fund to exceed its budget. When this occurs, State statutes provide that the corporate authorities may make transfers from "one corporate object or purpose to another corporate object or purpose." Additionally, statutes provide that the corporate authorities may delegate authority to heads of municipal departments to "delete, add to, change, or create subclasses within object classes budgeted previously to the department with the approval of the budget officer or executive officer of the municipality." The Village has defined a corporate object or purpose to be an individual program or fund. Subclasses within object classes have been defined as accounts and categories within a budget program.

The Village Board's policy on Finance, Taxation, and Budget, prepared based on the previously mentioned statutes, outlines the following procedures for budget administration and how these variances are to be addressed:

1. That the Budget Officer, with the approval of the Village Manager, may authorize transfers of budgeted funds between accounts or between account categories within a single budget program.

2. That any transfer of budgeted funds from one budget program to another shall be subject to approval by the Board of Trustees upon the recommendation of the Village Manager.

3. That any transfer from contingency shall be subject to approval by the Board of Trustees upon the

recommendation of the Village Manager.

4. That any increase in the total appropriation within any fund shall be subject to approval by the Board of Trustees upon the recommendation of the Village Manager.

Budget Amendments:

The attached Exhibit A lists the specific account-level amendment for the 2nd Quarter of 2026.

Recommendation:

Staff recommends that the Village Board adopt Ordinance S-1743, "An Ordinance Authorizing Amendments and Transfers Among Budget Line Items," which reflects a total increase of $117,689.96 and will be offset by current revenues that have exceeded budget projections.

Attachments:

1. Ordinance S-1743 Budget Amendment
2. Budget Amendment 2026 Exhibit A

THE VILLAGE OF OAK BROOK
COOK AND DUPAGE COUNTIES, ILLINOIS

ORDINANCE
2026-BU-AMEND-S-1743

AN ORDINANCE
AUTHORIZING AMENDMENTS AND TRANSFERS AMONG BUDGET LINE ITEMS THE VILLAGE OF OAK BROOK, ILLINOIS

LAURENCE E. HERMAN, Village President
NETASHA SCARPINITI, Village Clerk

JOHN ANOS
NAVEEN JAIN
MICHAEL MANZO
MELISSA MARTIN
A. SURESH REDDY
EDWARD TIESENGA

Village Board

Published in pamphlet form by authority of the
President and the Board of Trustees of the Village of Oak Brook
on this 16th day of June 2026

ORDINANCE 2026-BU-AMEND-S-1743

AN ORDINANCE AUTHORIZING AMENDMENTS AND TRANSFERS

AMONG BUDGET LINE ITEMS

WHEREAS, the Village Manager has recommended certain amendments and transfers among budget line items in the Annual Budget Ordinance passed for the fiscal year beginning January 1, 2026 and ending December 31, 2026 and certain transfers of sums of money in said Budget Ordinance from one object or purpose to another object or purpose; and

WHEREAS, the Village President and Board of Trustees concur with and approve of the Village Manager's recommendations.

NOW, THEREFORE, BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF OAK BROOK, DU PAGE AND COOK COUNTIES, ILLINOIS that the following amendment is hereby authorized:

Section 1: The recitals above are hereby incorporated into and made a part of this ordinance.

Section 2: In the attached tabulation, attached as "Exhibit A", lists the various accounts across the Funds impacted by the requested amendment. The total of said amounts are hereby transferred to the various line items.

Section 3: This ordinance shall be in full force and effect from and after its passage and approval as required by law.

Section 4: All ordinances or parts thereof in conflict with the provisions of this ordinance be and the same are hereby repealed to the extent of such conflict.

[SIGNATURE PAGE FOLLOWS]

APPROVED THIS 16th day of June 2026

Laurence E. Herman
Village President

PASSED THIS 16th day of June 2026

Ayes: _____

Nays: _____

Absent: _____

ATTEST:

Netasha Scarpiniti
Village Clerk

Village of Oak Brook
Budget Amendments
FY 2026 - 2nd Quarter

EXHIBIT A

Account Number	Account Name	Revenue	Expenditure	Description	Funding Source
General Fund					
131-50000	SALARIES FULL-TIME		$ (191,646.00)	Assistant Village Manager Salary transferred to contract services	Current Sources
131-76700	CONTRACT SERVICES		191,646.00	Assistant Village Manager Salary transferred to contract services	Current Sources
511-50100	SALARIES PART-TIME		2,875.00	Library book giveaway - 250th year celebration	Current Sources
111-50100	SALARIES PART-TIME		10,000.00	Interns compensation	Current Sources
111-51400	F.I.C.A.		765.00	Interns compensation	Current Sources
111-76400	DIGITIZING SERVICES		6,042.48	Historical Society Digitize Services	
511-50100	SALARIES PART-TIME		20,000.00	Library part-time staffing (2ppl @ 500 hours)	Current Sources
511-51400	F.I.C.A.		1,530.00	Library part-time staffing (2ppl @ 500 hours)	Current Sources
Total General Fund			**$ 41,212.48**		
Sports Core Fund					
834-50000	SALARIES FULL-TIME		$ 30,000.00	Assistant Golf Course Superintendent	Current Sources
834-51400	F.I.C.A.		2,295.00	Assistant Golf Course Superintendent	Current Sources
834-51100	I.M.R.F.		2,970.00	Assistant Golf Course Superintendent	Current Sources
Total Sports Core Fund		***-***	***$ 35,265.00***		
Budget Transfer					
Total Budget Adjustment - All Funds		***$ -***	***$ 117,689.96***		

BOARD OF TRUSTEES MEETING
SAMUEL E. DEAN BOARD ROOM
BUTLER GOVERNMENT CENTER
1200 OAK BROOK ROAD
OAK BROOK, ILLINOIS
630-368-5000

AGENDA ITEM

Board of Trustees Special Meeting
of
June 16, 2026

SUBJECT: An Ordinance Amending Title 2 (Boards and Commissions) of the Village of Oak Brook Code of Ordinances

FROM: Giuseppe Scalera, Management Analyst
Greg Summers, Village Manager

BUDGET SOURCE/BUDGET IMPACT: None

RECOMMENDED MOTION: I move that the Village Board approve Ordinance G-1286, An Ordinance Amending Title 2 (Boards and Commissions) of the Village of Oak Brook Code of Ordinances.

Background/History:

The current Village Code provides for a nine-member Sports Core Committee. Upon review of the Committee's composition and operational needs, it was determined that reducing the Committee to seven members would encourage greater participation, enhance discussion, and improve overall efficiency while maintaining its ability to effectively fulfill its advisory responsibilities.

The proposed ordinance amends Title 2 (Boards and Commissions) of the Village Code to reduce the membership of the Sports Core Committee from nine (9) members to seven (7) members and updates related provisions as necessary to ensure consistency throughout the Code.

The proposed amendment will not alter the Committee's duties, responsibilities, or authority. The change is intended solely to modify the number of appointed members serving on the Committee.

Recommendation:

Staff recommends that the Village Board approve Ordinance G-1286, An Ordinance Amending Title 2 (Boards and Commissions) of the Village of Oak Brook Code of Ordinances.

Attachments:

1. G-1286 - OrdAmendTitle2BoardsAndCommissions_SportsCore

THE VILLAGE OF OAK BROOK
COOK AND DUPAGE COUNTIES, ILLINOIS

ORDINANCE
2026-SC-COM-G-1286

AN ORDINANCE
AMENDING TITLE 2 (BOARDS AND COMMISSIONS) OF THE VILLAGE OF OAK BROOK CODE OF ORDINANCES

LAURENCE E. HERMAN, Village President
NETASHA SCARPINITI, Village Clerk

JOHN ANOS
NAVEEN JAIN
MICHAEL MANZO
MELISSA MARTIN
A. SURESH REDDY
EDWARD TIESENGA

Village Board

Published in pamphlet form by authority of the
President and the Board of Trustees of the Village of Oak Brook
on the 16th day of June 2026

ORDINANCE NO. 2026-SC-COM-G-1286

AN ORDINANCE
AMENDING TITLE 2 (BOARDS AND COMMISSIONS) OF THE VILLAGE OF OAK BROOK CODE OF ORDINANCES

WHEREAS, the Village of Oak Brook (hereinafter referred to as "Village") is an Illinois Municipal Corporation organized pursuant to the laws of the State of Illinois;

WHEREAS, the Village has in full force and effect a codified set of ordinances which are of a general and permanent nature, which said codified set is known and designated as the Village Code of the Village of Oak Brook, as amended (the "Village Code");

WHEREAS, Title 2 (Boards and Commissions) of the Village Code provides, among other things, the establishment, powers and duties, and rules of procedures for the various commissions currently authorized to act on behalf of the Village;

WHEREAS, Village Staff routinely reviews the Village Code provisions in order to ensure the provisions of the Village Code are current, consistent and in compliance with state and federal rules, regulations and laws;

WHEREAS, Village Staff is recommending an amendment to Title 2 to reorganize, consolidate, or restructure the Sports Core Advisory Committee in order to promote more efficient governmental functions and to streamline related procedural and regulatory processes;

WHEREAS, the Village President and Board of Trustees (collectively, the "Corporate Authorities") desire to amend the Village Code to modify the composition and authority of existing commissions as provided for herein;

WHEREAS, the Corporate Authorities of the Village of Oak Brook are of the opinion that the aforementioned amendment to the Village's Code of Ordinances is in the best interest of the Village of Oak Brook.

NOW, THEREFORE, BE IT ORDAINED, in open meeting assembled, by the Village President and Board of Trustees of the Village of Oak Brook, DuPage and Cook Counties, Illinois as follows:

Section One – Recitals

The Corporate Authorities hereby find that all of the recitals hereinbefore stated as contained in the preamble to this Ordinance are full, true and correct and do hereby, by reference, incorporate and make them part of this Ordinance as legislative findings.

Section Two – Amendment to Title 2

The Corporate Authorities hereby amends Title 2 of the Village Code as follows (the added language being indicated by <u>underline;</u> and deleted language appears as ~~striken~~):

CHAPTER 12: SPORTS CORE ADVISORY COMMITTEE

2-12-1: COMMITTEE ESTABLISHED:
There is hereby established a Sports Core Advisory Committee (the "Committee"). The Committee shall be advisory in nature to the Village President and Board of Trustees.

2-12-2: MEMBER APPOINTMENT:
The committee shall be composed of ~~nine (9)~~ seven (7) members, all of whom must be residents of the Village. Members shall be appointed by the Village President, and such appointments must be confirmed by the Village Board. ~~When the first appointments are made, the Village President will name five (5) members to serve until April 2027; with four continuing appointments serving out the remainder of their previously appointed terms. Subsequent appointments for these four remaining terms shall be until April 2027.~~ In making appointments, the Village President shall seek to have members on the committee at all times who, as a group, have interests in golf, swimming, tennis, and one or more at-large member(s).

2-12-3: TERMS OF OFFICE:
All appointments after April 2027 shall be for a two-year term expiring in April of each subsequent odd numbered year. When there are vacancies in positions on the Sports Core Advisory Committee, the Village President shall name a successor who will serve out the term of the vacancy. Appointments to fill vacancies shall also be confirmed by the action of the Village Board.

2-12-4: ORGANIZATION:
The Village President shall appoint a chairman and vice chairman from its membership; such officers shall serve for the term of their appointment. Any vacancies in such office shall be appointed by the Village President for the balance of any unexpired terms. The Village Manager shall assign one staff member to serve as liaison to the Committee, who shall also act as secretary of the Committee and be responsible for the preparation and maintenance of the Committee's minutes, reports, and official records.

2-12-5: MEETINGS:
The committee will meet as set by the Village President, but not less than four (4) times per year. The Committee shall be subject to the Open Meetings Act, the Freedom of Information Act, and shall follow procedural rules as generally apply to the Village Board of Trustees.

2-12-6: FUNCTIONS:
The Committee shall make recommendations to the Board of Trustees regarding Sports Core operations and user experience when so requested by the Village President or Village Manager and shall have such other powers and duties as the Village Board may establish by ordinance. The Committee may expend no monies without prior approval by the Corporate Authorities.

2-12-7: COMPENSATION:
Members of the Committee shall serve without compensation but may be reimbursed for actual and necessary expenses incurred in the performance of their official duties, subject to prior authorization or approval by the staff liaison and in accordance with applicable Village policies.

Section Three – Codification

The title, chapter(s) and section(s) adopted by this Ordinance shall be numbered and placed in an appropriate title, chapter(s), and sections(s) sections when and during the codification of the Village of Oak Brook Code of Ordinances.

Section Four – Effective Date:

This Ordinance shall be in full force and effect from and after its passage, approval and publication as provided by law.

Section Five - Publication

This Ordinance shall be published in book or pamphlet form as provided by the Illinois Municipal Code.

Section Six - Conflict Clause

That all ordinances or parts of ordinances in conflict with the terms of this Ordinance shall be repealed to the extent of said conflict.

Section Seven – Saving Clause

If any section, paragraph, clause or provision of this Ordinance is declared by a court of law to be invalid or unconstitutional, the invalidity or unconstitutionality thereof shall not affect the validity of the remaining provisions of the Village's Municipal Code, which are hereby declared to be separable.

Section Eight – Recording

This Ordinance shall be entered into the minutes and upon the journals of the Board of Trustees of the Village of Oak Brook.

Remainder of page intentionally left blank; roll call to follow

PASSED THIS 16th day of June, 2026.

Ayes: _____

Nays: _____

Absent: _____

APPROVED THIS 16th day of June, 2026.

_____
LAURENCE E. HERMAN,
Village President

ATTEST:

_____
NETASHA SCARPINITI,
Village Clerk

ITEM 8.A.12.
BOARD OF TRUSTEES MEETING
SAMUEL E. DEAN BOARD ROOM
BUTLER GOVERNMENT CENTER
1200 OAK BROOK ROAD
OAK BROOK, ILLINOIS
630-368-5000

AGENDA ITEM

Board of Trustees Special Meeting
of
June 16, 2026

SUBJECT: Synthetic Cannabinoids and other Chemically Derived Cannabinoid Products Code Amendment

FROM: Giuseppe Scalera, Management Analyst
Greg Summers, Village Manager

BUDGET SOURCE/BUDGET IMPACT: None

RECOMMENDED MOTION: I move that the Village Board adopt Ordinance No. G-1287, an Ordinance Amending Title 6, Chapter 1, Section 6-1-9 of the Village of Oak Brook Code of Ordinances.

Background/History:
The cannabis marketplace has continued to evolve with the introduction of synthetic cannabinoids and other chemically derived cannabinoid products that may not be expressly addressed under the current Village Code. The proposed ordinance updates the definition of cannabis to include synthetic derivatives and similar cannabinoid compounds, providing greater clarity and ensuring that such products are subject to the same regulatory framework and enforcement provisions established by the Village.

Recommendation:
Staff recommends that the Village Board adopt Ordinance No. G-1287, an Ordinance Amending Title 6, Chapter 1, Section 6-1-9 of the Village of Oak Brook Code of Ordinances.

Attachments:
1. G-1287 - Ordinance Amending 6-1-9 of Code

THE VILLAGE OF OAK BROOK
COOK AND DUPAGE COUNTIES, ILLINOIS

ORDINANCE
2026-ZO-TA-G-1287

AN ORDINANCE AMENDING TITLE 6 CHAPTER 1 SECTION 6-1-9 OF THE VILLAGE OF OAK BROOK CODE OF ORDINANCES

LAURENCE E. HERMAN, Village President
NETASHA SCARPINITI, Village Clerk

JOHN ANOS
NAVEEN JAIN
MICHAEL MANZO
MELISSA MARTIN
A. SURESH REDDY
EDWARD TIESENGA

Village Board

Published in pamphlet form by authority of the
President and the Board of Trustees of the Village of Oak Brook
on the 16th day of June, 2026

ORDINANCE No. 2026-ZO-TA-G-1287

AN ORDINANCE AMENDING
TITLE 6 CHAPTER 1 SECTION 6-1-9
OF THE VILLAGE OF OAK BROOK
CODE OF ORDINANCES

WHEREAS, the Village of Oak Brook (hereinafter referred to as the "Village") is an Illinois Municipal Corporation organized pursuant to the laws of the State of Illinois;

WHEREAS, the Village has in full force and effect a codified set of ordinances which are of a general and permanent nature, which said codified set is known and designated as the Village Code of Ordinances of the Village of Oak Brook, as amended;

WHEREAS, pursuant to Section 11-20-5 of the Illinois Municipal Code, 65 ILCS 5/11-20-5, the corporate authorities of each municipality may do all acts and make all regulations necessary or expedient for the promotion of public health, safety, and welfare of its residents;

WHEREAS, the Village is authorized to license, regulate, and prohibit businesses and uses affecting public health, safety, and welfare pursuant to applicable provisions of the Illinois Municipal Code, including but not limited to 65 ILCS 5/11-42-5 and related business regulatory powers; and

WHEREAS, intoxicating hemp-derived products containing tetrahydrocannabinol ("THC"), including but not limited to delta-8 THC, delta-9 THC derived from hemp, delta-10 THC, tetrahydrocannabinolic acid ("THCA"), hexahydrocannabinol ("HHC"), tetrahydrocannabiphorol ("THCP"), and similar cannabinoids, are currently sold in retail establishments outside Illinois' regulated cannabis dispensary framework; and

WHEREAS, such products are often marketed in forms attractive to minors, including gummies, beverages, candies, and vape cartridges, and may be sold without age verification, product testing, potency limitations, child-resistant packaging, or state taxation; and

WHEREAS, the Village Board finds that the unregulated retail sale of intoxicating hemp-derived products may adversely affect the health, safety, and welfare of Village residents, create enforcement burdens, and undermine Illinois' regulated cannabis system established under the Cannabis Regulation and Tax Act, 410 ILCS 705/1-1 et seq.;

WHEREAS, the Village Board desire to amend the definition of "Cannabis" in the Village Code to include such intoxicating substances and products, as provided herein; and

WHEREAS, the President and Board of Trustees are of the opinion that prohibiting the retail sale and commercial distribution of such products within the Village is necessary and in the best interests of the public health, safety, and welfare.

NOW, THEREFORE, BE IT ORDAINED, by the President and Board of Trustees of the Village of Oak Brook, Cook and DuPage Counties, Illinois as follows:

Section One - Recitals

The Board of Trustees hereby find that all of the recitals hereinbefore stated as contained in the preamble to this ordinance are full, true, and correct and do hereby, by reference, incorporate and make them part of this ordinance as legislative findings.

Section Two – Amendment of Title 6 Chapter 1 Section 6-1-9

That Title 6 Chapter 1 Section 6-1-9 of the Village of Oak Brook Code is hereby amended (additions appearing underlined and any deleted language appearing with a ~~strike-through~~ line) as follows:]

6-1-9: OFFENSES RELATING TO DRUGS:

A. Definitions:

CANNABIS: Includes marijuana, hashish and other substances which are identified as including any parts of the plant Cannabis sativa, whether growing or not; the seeds thereof, the resin extracted from any part of such plant; and any compound, manufacture, salt, derivative, mixture or preparation of such plant, its seeds or resin, including tetrahydrocannabinol (THC) and all other cannabinol derivatives, including its naturally occurring or synthetically produced ingredients, whether produced directly or indirectly by extraction, or independently by means of chemical synthesis or by a combination of extraction and chemical synthesis; but shall not include the mature stalks of such plant, fiber produced from such stalks, oil or cake made from the seeds of such plant, any other compound, manufacture, salt, derivative mixture, or preparation of such mature stalks (except the resin extracted therefrom), fiber, oil or cake, or the sterilized seed of such plant which is incapable of germination. The term "Cannabis" shall also include intoxicating hemp-derived products containing tetrahydrocannabinol ("THC"), including but not limited to delta-8 THC, delta-9 THC derived from hemp, delta-10 THC, tetrahydrocannabinolic acid ("THCA"), hexahydrocannabinol ("HHC"), tetrahydrocannabiphorol ("THCP"), and similar cannabinoids.

Section Three – Codification

The title, chapter(s) and section(s) adopted by this Ordinance shall be numbered and placed in an appropriate title, chapter(s), and sections(s) sections when and during the codification of the Oak Brook Municipal Code.

Section Four – Effective Date

That this ordinance become effective immediately after its passage.

Section Five - Conflict Clause

That all ordinances, parts of ordinances or board actions in conflict with the terms of this ordinance shall be repealed to the extent of said conflict.

Section Six - Passage Clause

That this ordinance shall take full force and effect from and after its passage, approval and publication as provided by law.

Section Seven - Constitutionality Clause

Any part or parts of this ordinance declared by a court of law to be invalid or unconstitutional shall not affect the validity of the remaining provisions of this ordinance or the Oak Brook Municipal Code.

Section Eight - Publication

This ordinance shall be published in book or pamphlet form as provided by the Illinois Municipal Code.

Section Nine - Recording

This ordinance shall be entered into the minutes and upon the journals of the Board of Trustees of the Village of Oak Brook.

The Remainder of this Page has been Intentionally Left Blank / Roll Call Vote follows:

APPROVED THIS 16th day of June, 2026

_____
Laurence E. Herman
Village President

PASSED THIS 16th day of June, 2026

Ayes: _____

Nays: _____

Absent: _____

ATTEST:

_____
Netasha Scarpiniti
Village Clerk