



CITY COUNCIL WORKSHOP/REGULAR MEETING

October 21, 2024 at 6:30 PM

Hewitt Public Safety Facility - Training Rm., 100 Patriot Court, Hewitt, TX 76643

AGENDA

Steve Fortenberry, Mayor: Ward 3, – **Erica Bruce**, Mayor Pro Tem: Ward 3
Michael S. Bancale, Council Member: At-Large – **Johnny Stephens**, Council Member: Ward 1
Bob Potter, Council Member: Ward 2 – **Brad Turner**, Council Member: Ward 1
Vacant Seat, Council Member: Ward 2

The meeting will be streamed live on the city’s website at www.cityofhewitt.com/790/Hewitt-TX-TV.

Pursuant to Texas Government Code Sec. 551.127, on a regular, non-emergency basis, members may attend and participate in the meeting remotely by video conference. Should that occur, a quorum of the members will be physically present at the location noted above on this agenda.

WORKSHOP MEETING - 6:30 PM

WORKSHOP DECLARATION OF A QUORUM AND CALL TO ORDER

WORKSHOP AGENDA

1. Briefing and discussion concerning Fiscal Year 2024-2025 water and wastewater rates.

WORKSHOP ADJOURNMENT

REGULAR MEETING - 7:00 PM

DECLARATION OF A QUORUM AND CALL TO ORDER

PLEDGE OF ALLEGIANCE

PUBLIC COMMENTS

The City Council invites citizens to speak on any topic not already scheduled for a public hearing. The Texas Open Meetings Act prohibits the Council from discussing, responding to, or acting on any comments or items not posted on the agenda. (Note: Citizens who wish to speak must complete a “Public Comment Form” and present it to the City Secretary before the meeting.)

REGULAR AGENDA ITEMS

2. Approval of the City Council Regular Meeting minutes held on October 7, 2024.
3. Presentation of the report from the City Engineer Miles Whitney, P.E.
 - Update on pending utility projects.
 - Update on pending street projects.
 - Update on pending drainage projects.
4. Discussion concerning Financial Statements ending September 30, 2024.
5. Discussion and possible action on approving the Quarterly Investment Report ending September 30, 2024.
6. Discussion and possible action to approve the purchase of a 2024 F250 with a utility bed for use in the Utilities Department.
7. Discussion and possible action to approve the purchase of a 2024 F250 for use in the Street Department.
8. Discussion and possible action on purchasing a Fire Engine with an approximate three-year lead time.
9. Discussion and possible action to approve **Resolution No. 2024-10** authorizing the City Manager to enter into a 380 Agreement for Economic Development with Kirby-Smith Machinery, Inc.

ADJOURNMENT

I certify that the above meeting notice was posted on the Public Notice Board in front of City Hall on **October 16, 2024**, by 5:00 PM.

CITY OF HEWITT

Lydia Lopez

Lydia Lopez, TRMC/CMC
City Secretary

In compliance with the Americans with Disabilities Act, the City of Hewitt will provide reasonable accommodations for persons attending and participating in City Council meetings. The facility is wheelchair accessible, with accessible parking at the front of the building. Requests for sign interpreters or special services must be received forty-eight (48) hours before the meeting by calling the City Secretary at 254.296.5602 or by fax at 254.666.6014.



COUNCIL AGENDA ITEM FORM

MEETING DATE: October 21, 2024

AGENDA ITEM #: 2.

SUBMITTED BY: Lydia Lopez, City Secretary

ITEM DESCRIPTION:

Approval of the City Council Regular Meeting minutes held on October 7, 2024.

STAFF RECOMMENDATION/ITEM SUMMARY:

Attached is a copy of the meeting minutes. Please review and advise if any corrections are needed.

FISCAL IMPACT:

Amount Budgeted - N/A

Line Item in Budget - N/A

SUGGESTED MOTION:

I move approval of the minutes as presented but to allow for corrections.

ATTACHMENTS:

1. City Council Minutes - October 7, 2024



CITY COUNCIL REGULAR MEETING

October 7, 2024 at 7:00 PM

Hewitt City Hall, 200 Patriot Court, Hewitt, TX 76643

MINUTES

Steve Fortenberry, Mayor: Ward 3, – **Erica Bruce**, Mayor Pro Tem: Ward 3
Michael S. Bancale, Council Member: At-Large – **Johnny Stephens**, Council Member: Ward 1
Bob Potter, Council Member: Ward 2 – **Brad Turner**, Council Member: Ward 1
Vacant Seat, Council Member: Ward 2

REGULAR MEETING - 7:00 PM

DECLARATION OF A QUORUM AND CALL TO ORDER

Mayor Steve Fortenberry called the Regular Meeting to order at 7:00 PM, announced all members were present, and declared a quorum.

PLEDGE OF ALLEGIANCE

Mayor Steve Fortenberry led the Pledge of Allegiance.

SPECIAL PRESENTATION(S) AND RECOGNITION(S)

1. Swearing-in ceremony of Sergeant Richard Neyens and Assistant Police Chief Joseph Chavez.

Police Chief John McGrath introduced the newly promoted Sergeant Richard Neyens and Assistant Police Chief Joseph Chavez. Chief McGrath administered the oath of office to Assistant Police Chief Chavez. His wife, Veronica, pinned him. Assistant Police Chief Chavez administered the ceremonial oath and then pinned Sergeant Neyens.

PUBLIC COMMENTS

The City Council invites citizens to speak on any topic not already scheduled for a public hearing. The Texas Open Meetings Act prohibits the Council from discussing, responding to, or acting on any comments or items not posted on the agenda. (Note: Citizens who wish to speak must complete a “Public Comment Form” and present it to the City Secretary before the meeting.)

Mayor Fortenberry read the statement above and inquired if the City Secretary received any public comment forms. The City Secretary received no public comment forms.

REGULAR AGENDA ITEMS

2. Approval of the minutes for the City Council Workshop/Regular Meeting held on September 16, 2024.
MOTION: Council Member Bob Potter moved approval of the minutes but to allow corrections.
SECOND: Council Member Michael Bancale
AYES: Bancale, Potter, Stephens, Turner, Bruce, and Fortenberry
NAYES: None
ABSENT: None
MOTION PASSED.
3. Discussion and possible action on purchasing fire equipment with funds obtained through Texas Intrastate Fire Mutual Aid System (TIFMAS) funding.
City Manager Bo Thomas presented. Council Member Michael Bancale commended the Fire Department for their service to other communities in need.
MOTION: Council Member Michael Bancale moved to authorize the Fire Department to use TIFMAS funds to purchase additional equipment for an amount not to exceed \$43,000.
SECOND: Council Member Bob Potter
AYES: Bancale, Potter, Stephens, Turner, Bruce, and Fortenberry
NAYES: None
ABSENT: None
MOTION PASSED.
4. Discussion and possible action to approve the expenditure of \$566,332 for the purchase and upfitting of four 2023 Ford Police Explorers and two 2025 Ford Police Explorers, along with the purchase and upfitting of two Ford Police F150 vehicles for the Police Department.
City Manager Bo Thomas presented.
MOTION: Council Member Michael Bancale moved to approve the expenditure of \$556,332 to Dana Safety Supply, Inc., for four 2023 Ford Police Explorers, two 2025 Ford Police Explorers, and two Ford Police F150 vehicles for the Police Department.
SECOND: Council Member Johnny Stephens
AYES: Bancale, Potter, Stephens, Turner, Bruce, and Fortenberry
NAYES: None
ABSENT: None
MOTION PASSED.
5. Discussion and possible action to approve an easement encroachment license on an unused utility easement located at 121 Emmalyn Drive.
City Manager Bo Thomas presented.
MOTION: Mayor Pro Tem Erica Bruce moved to approve an easement encroachment license on an unused utility easement at 121 Emmalyn Drive.
SECOND: Council Member Michael Bancale
AYES: Bancale, Potter, Stephens, Turner, Bruce, and Fortenberry
NAYES: None
ABSENT: None
MOTION PASSED.

6. Discussion and possible action to authorize the City Manager to renew an existing Interlocal Agreement with the City of Waco for The Heart of Texas Regional Marketing Plan.

City Manager Bo Thomas presented.

MOTION: Council Member Bob Potter moved approval to authorize the City Manager to renew the existing Interlocal Agreement with the city of Waco for The Heart of Texas Regional Marketing Plan.

SECOND: Council Member Brad Turner

AYES: Bancale, Potter, Stephens, Turner, Bruce, and Fortenberry

NAYES: None

ABSENT: None

MOTION PASSED.

7. Discussion and possible action on the appointment of Rodney "Rod" Goble as Hewitt's Associate Municipal Court Judge.

City Manager Bo Thomas presented.

MOTION: Council Member Brad Turner moved to approve the appointment of Rodney "Rod" Goble to serve as the City of Hewitt's Associate Municipal Court Judge.

SECOND: Mayor Pro Tem Erica Bruce

AYES: Bancale, Potter, Stephens, Turner, Bruce, and Fortenberry

NAYES: None

ABSENT: None

MOTION PASSED.

8. Discussion and possible action on **Resolution No. 2024-09** submitting a candidate nomination for the McLennan Central Appraisal District Board of Directors for the year 2025.

City Manager Bo Thomas presented. There were no prospective names suggested, and no action was taken.

ADJOURNMENT

MOTION: Council Member Michael Bancale moved to adjourn the Regular Meeting at 7:31 p.m.

SECOND: Mayor Pro Tem Erica Bruce

AYES: Bancale, Potter, Stephens, Turner, Bruce, and Fortenberry

NAYES: None

ABSENT: None

MOTION PASSED.

Approved: _____

ATTEST:

Lydia Lopez, City Secretary

Steve Fortenberry, Mayor



COUNCIL AGENDA ITEM FORM

MEETING DATE: October 21, 2024

AGENDA ITEM #: 3.

SUBMITTED BY: Miles Whitney, City Engineer

ITEM DESCRIPTION:

Presentation of the report from the City Engineer Miles Whitney, P.E.

Update on pending utility projects.

Update on pending street projects.

Update on pending drainage projects.

STAFF RECOMMENDATION/ITEM SUMMARY:

The City Engineer will present and answer any questions regarding the Engineer's report.

FISCAL IMPACT:

Amount Budgeted - N/A

Line Item in Budget - N/A

SUGGESTED MOTION:

No action is required.

ATTACHMENTS:

1. Hewitt-PR-10.15.2024



CITY ENGINEER'S REPORT

October 15, 2024

Utility Projects

Commerce Park Plant Improvements

- Well
Contract on hold till Plant portions progress.
- Plant
 - Work on the tank's subgrade has begun.

Lift Station No. 4

- Topo ordered, awaiting data.

Street/Transportation Projects

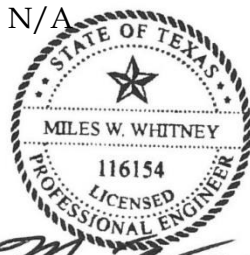
E. Wall and Briarfield

Received feedback from ATT and will have to pothole and confirm a few telephone line elevations.

Drainage Projects

N/A

By:



Miles W. Whitney, P.E.

Note: All dates are approximate and subject to change.



COUNCIL AGENDA ITEM FORM

MEETING DATE: October 21, 2024

AGENDA ITEM #: 4.

SUBMITTED BY: Lee Garcia, Finance Director

ITEM DESCRIPTION:

Discussion concerning Financial Statements ending September 30, 2024.

STAFF RECOMMENDATION/ITEM SUMMARY:

The financial statements ending September 30, 2024, were electronically sent on October 8, 2024. This is an opportunity for the Council to ask questions or comment.

FISCAL IMPACT:

Amount Budgeted - N/A

Line Item in Budget - N/A

SUGGESTED MOTION:

No action is required.

ATTACHMENTS:

None



COUNCIL AGENDA ITEM FORM

MEETING DATE: October 21, 2024

AGENDA ITEM #: 5.

SUBMITTED BY: Lee Garcia, Finance Director

ITEM DESCRIPTION:

Discussion and possible action on approving the Quarterly Investment Report ending September 30, 2024.

STAFF RECOMMENDATION/ITEM SUMMARY:

The City's Investment Policy, Section XI. Reporting (PFIA 2256-023) requires the preparation of a quarterly report for the City Council. Please see the following Investment Report for the quarter ending September 30, 2024.

FISCAL IMPACT:

Amount Budgeted - N/A

Line Item in Budget - N/A

SUGGESTED MOTION:

I move approval of the Quarterly Investment Report ending September 30, 2024.

ATTACHMENTS:

1. 2024 Sep Quarterly Report



QUARTERLY INVESTMENT REPORT

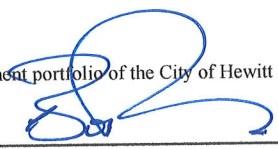
For the Quarter Ended

September 30, 2024

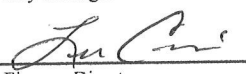
Prepared by

Valley View Consulting, L.L.C.

The investment portfolio of the City of Hewitt is in compliance with the Public Funds Investment Act and the Investment Policy and its incorporated strategies.



City Manager



Finance Director

Accountant

Disclaimer: These reports were compiled using information provided by the City. No procedures were performed to test the accuracy or completeness of this information. The market values included in these reports were obtained by Valley View Consulting, L.L.C. from sources believed to be accurate and represent proprietary valuation. Due to market fluctuations these levels are not necessarily reflective of current liquidation values. Yield calculations are not determined using standard performance formulas, are not representative of total return yields and do not account for investment advisor fees.

Annual Comparison of Portfolio Performance

FYE Results by Investment Category:

	September 30, 2023			September 30, 2024		
	<u>Ave. Yield</u>	<u>Book Value</u>	<u>Market Value</u>	<u>Ave. Yield</u>	<u>Book Value</u>	<u>Market Value</u>
Pools/Bank/TCB	5.39%	\$ 15,539,003	\$ 15,539,003	5.18%	\$ 18,047,433	\$ 18,047,433
Securities/CDs	5.37%	19,391,285	19,391,285	5.32%	18,746,752	18,746,752
Totals		\$ 34,930,288	\$ 34,930,288		\$ 36,794,184	\$ 36,794,184
Fourth Quarter-End Yield	5.38%			5.25%		
Average Quarter-End Yields - Fiscal Year (1):						
Hewitt	4.30%			5.39%		
Rolling Three Month Treasury	4.95%			5.42%		
Rolling Six Month Treasury	4.77%			5.34%		
TexPool	4.74%			5.29%		
Fiscal YTD Interest Earnings	\$ 1,231,024			\$ 2,033,771		

(1) Average Quarterly Yield calculated using quarter-end report average yield and adjusted book value.

Summary

Quarter End Results by Investment Category:

<u>Asset Type</u>	<u>June 30, 2024</u>		<u>September 30, 2024</u>		
	<u>Book Value</u>	<u>Market Value</u>	<u>Book Value</u>	<u>Market Value</u>	<u>Ave. Yield</u>
Pools/DDA/MMA	\$ 17,925,193	\$ 17,925,193	\$ 18,047,433	\$ 18,047,433	5.18%
Securities/CDs	19,262,120	19,262,120	18,746,752	18,746,752	5.32%
Totals	\$ 37,187,313	\$ 37,187,313	\$ 36,794,184	\$ 36,794,184	5.25%

<u>Current Quarter Average Yield (1)</u>		<u>Fiscal Year-to-Date Average Yield (2)</u>	
Total Portfolio	5.25%	Total Portfolio	5.39%
Rolling Three Month Treasury	5.24%	Rolling Three Month Treasury	5.42%
Rolling Six Month Treasury	5.17%	Rolling Six Month Treasury	5.34%
TexPool	5.16%	TexPool	5.29%

<u>Interest Earnings</u>	
Quarterly Interest Income	\$ 490,952
Fiscal Year-to-date Interest Income	\$ 2,033,771

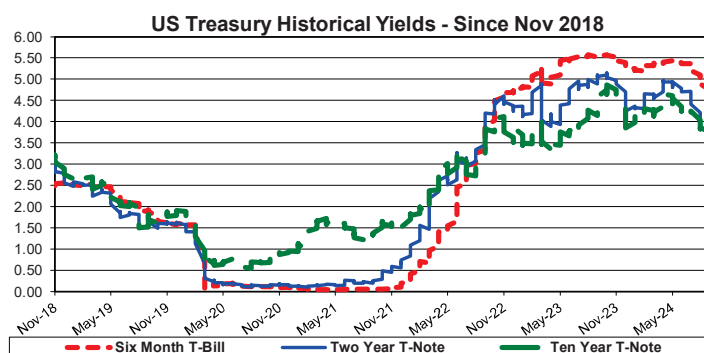
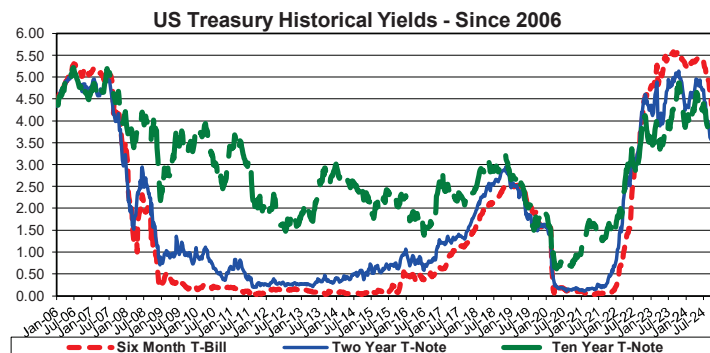
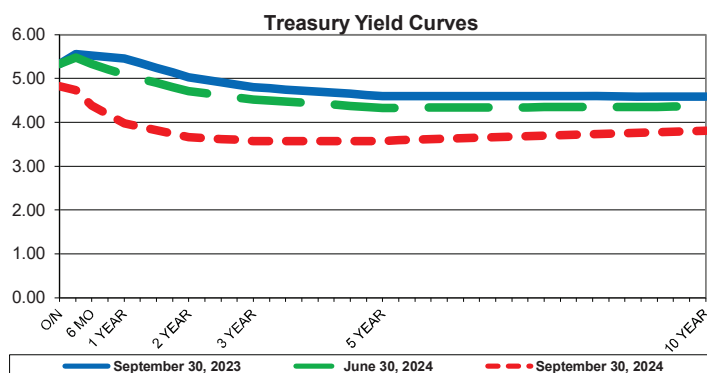
(1) **Current Quarter Average Yield** - calculated using quarter end report yields and adjusted book values; does not reflect a total return analysis, realized or unrealized gains/losses, or account for advisory fees. The yield for the reporting month is used for bank, pool, and money market balances.

(2) **Fiscal Year-to-Date Average Yields** - calculated using quarter end report yields and adjusted book values and does not reflect a total return analysis or account for advisory fees.

Economic Overview

9/30/2024

The Federal Open Market Committee (FOMC) reduced the Fed Funds target range 0.50% to 4.75% - 5.00% (Effective Fed Funds trade +/-4.83%). Expectations are for two more 0.25% cuts by 12/31, although any actions will be meeting-by-meeting and "data-dependent." Sep Non-Farm Payroll surged 254k new jobs (above expectation), with the previous two months revised up boosting the Three Month Rolling Average 186k (from the previous 116k). Second Quarter 2024 GDP remained +3.0% due to increased consumer spending. The S&P 500 Stock Index exceeded 5,700 making new records. The yield curve dropped with the FOMC action and anticipated future actions. Crude Oil drifted slightly higher to +/- \$74 per barrel. Inflation remains above the FOMC 2% target (Core PCE +/-2.7% and Core CPI +/-3.2%). Declining global economic outlook, ongoing/expanding military conflicts and the domestic elections increase uncertainty.



All numbers estimated and subject to change.

Valley View Consulting, L.L.C.

3

Investment Holdings
September 30, 2024

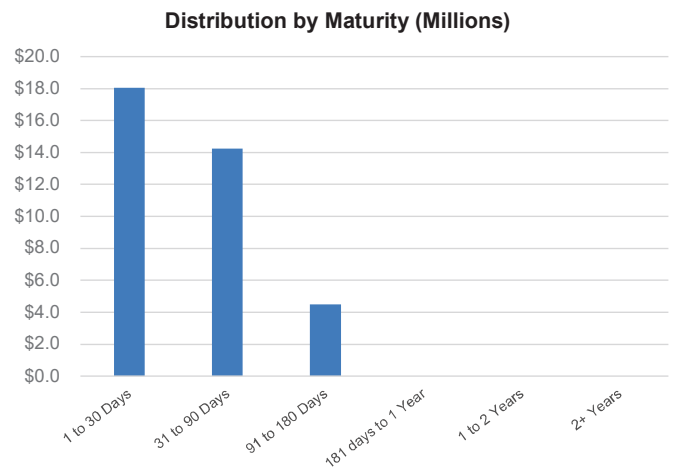
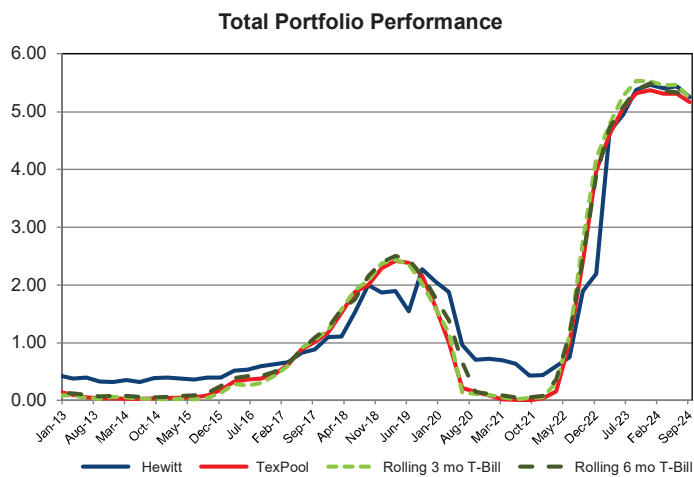
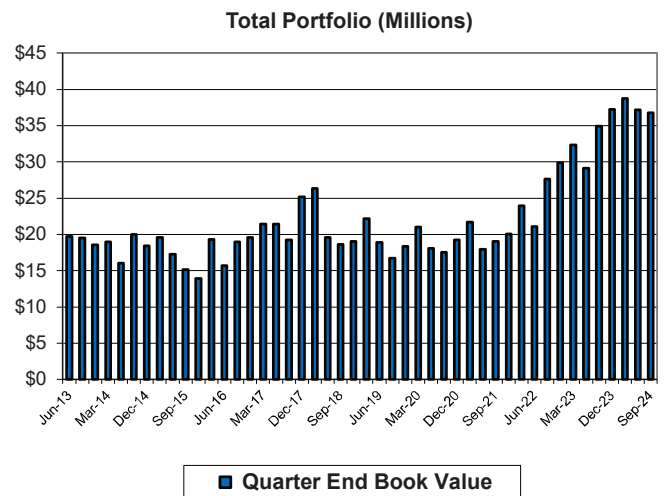
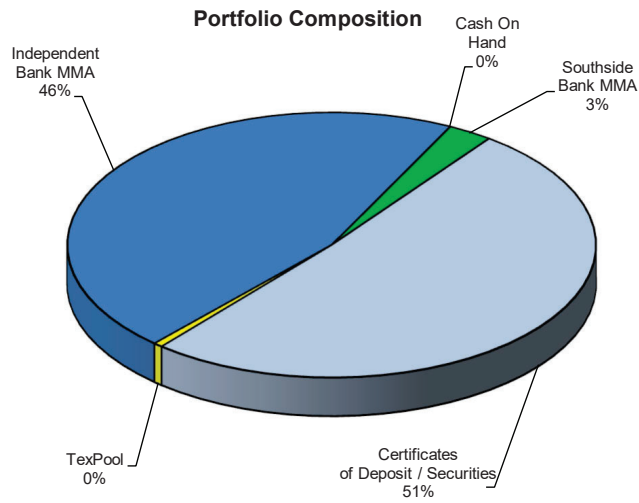
Description	Ratings	Coupon/ Discount	Maturity Date	Settlement Date	Par Value	Book Value	Market Price	Market Value	Life (days)	Yield
Cash on Hand		0.00%	10/01/24	09/30/24	\$ 2,200	\$ 2,200	1.00	\$ 2,200	1	0.00%
Independent Bank - MMA		5.14%	10/01/24	09/30/24	16,252,751	16,252,751	1.00	16,252,751	1	5.14%
Independent Bank - MMA #2		5.97%	10/01/24	09/30/24	575,842	575,842	1.00	575,842	1	5.97%
Southside Bank - MMA		5.38%	10/01/24	09/30/24	1,011,023	1,011,023	1.00	1,011,023	1	5.38%
TexPool	AAAm	5.16%	10/01/24	09/30/24	205,617	205,617	1.00	205,617	1	5.16%
East West Bank CD		5.50%	11/21/24	05/21/24	1,020,045	1,020,045	100.00	1,020,045	52	5.65%
Southside Bank CD		5.00%	12/06/24	09/06/24	3,300,033	3,300,033	100.00	3,300,033	67	5.09%
East West Bank CD		5.48%	12/13/24	06/13/24	2,267,435	2,267,435	100.00	2,267,435	74	5.63%
East West Bank CD		5.06%	12/13/24	9//13/24	2,072,341	2,072,341	100.00	2,072,341	74	5.19%
First National CD		5.25%	12/17/24	06/17/24	5,593,561	5,593,561	100.00	5,593,561	78	5.35%
Alliance Bank CD		5.40%	02/21/25	02/23/24	2,066,019	2,066,019	100.00	2,066,019	144	5.40%
East West Bank CD		5.05%	02/21/25	08/23/24	2,427,318	2,427,318	100.00	2,427,318	144	5.18%
Total					\$ 36,794,184	\$ 36,794,184		\$ 36,794,184	46	5.25%
									(1)	(2)

(1) **Weighted average life** - For purposes of calculating weighted average life, cash equivalent investments are assumed to have a one day maturity.

(2) **Weighted average yield to maturity** - The weighted average yield to maturity is based on adjusted book value, realized and unrealized gains/losses and investment advisory fees are not considered. The yield for the reporting month is used for pool, and bank account investments.

Portfolio Holdings
Group By: Issuer
As of 9/30/2024

Asset Class	Description	Book Value	Portfolio Name	Maturity Date
Alliance Bank				
10-133 AB-GF Unrest	Alliance Bank 5.4 2/21/2025	2,066,018.51	GF Unrestricted	2/21/2025
Cash on Hand				
Cash	Cash on Hand Cash	1,100.00	GF Operating	
Cash	Cash on Hand Cash	1,100.00	Utility Fund Operating	
		2,200.00		
East West Bank				
10-134 EWB 90 Day	East West Bank 5.05 2/21/2025	1,407,747.95	GF 90 Day Reserves	2/21/2025
15-170 2022 CO	East West Bank 5.06 12/13/2024	4,872.43	GF Capital Projects Fund 15	12/13/2024
15-170 2022 CO	East West Bank 5.06 12/13/2024	2,067,468.36	GF Capital Projects Fund 15	12/13/2024
16-131 2023 CO	East West Bank 5.48 12/13/2024	2,267,435.14	2023 CO Fund 16	12/13/2024
25-131 EWB 6mo	East West Bank 5.05 2/21/2025	1,019,569.99	UF Capital Projects Fund 25	2/21/2025
25-135 EWB CD	East West Bank 5.5 11/21/2024	1,020,045.41	UF Capital Projects Fund 25	11/21/2024
		7,787,139.28		
First National Bank				
10-128 FNB GF	First National Bank 5.25 12/17/2024	2,836,642.03	GF Unrestricted	12/17/2024
20-128 FNB UF	First National Bank 5.25 12/17/2024	2,756,918.56	UF Unrestricted	12/17/2024
		5,593,560.59		
Independent Bank				
07-110 CLFRF	Independent Bank MM	1,034,743.16	CLFRF Fund 07	
08-120 PEG Fund	Independent Bank MM	536,328.54	PEG Fund 08	
09-120 Child Safety	Independent Bank MM	182,132.36	Child Safety Fund 09	
10-120 GF-Operating	Independent Bank MM	1,204,911.63	GF Operating	
10-121 IB GF Oper Funds	Independent Bank MM	2,089,595.50	GF Unrestricted	
10-125 GF 90 Day Reserve	Independent Bank MM	1,633,992.67	GF 90 Day Reserves	
10-130 GF-I&S	Independent Bank MM	499,027.37	GF Debt Service	
10-135 GF-Street Res	Independent Bank MM	11,702.55	GF Street Reserve	
10-140 Payroll	Independent Bank MM	4,024.61	GF Operating	
10-160 HHIT	Independent Bank MM	981.15	GF Operating	
12-120 DF Oper	Independent Bank MM	650,764.93	Drainage Fund 12	
15-120 St Cap Oper	Independent Bank MM	333,739.91	GF Capital Projects Fund 15	
16-120 2023 CO	Independent Bank MM	575,842.06	2023 CO Fund 16	
20-120 UF-Operating	Independent Bank MM	711,294.38	Utility Fund Operating	
20-120 UF-Operating	Independent Bank MM	1,474,389.61	UF Unrestricted	
20-122 UF-Oper Res IB	Independent Bank MM	1,512,601.70	UF 90 Day Reserves	
20-138 UF-Debt	Independent Bank MM	540,292.44	UF Debt Service	
20-139 Equip Res	Independent Bank MM	215,625.00	UF Equipment Reserve	
20-140 UF-Deposits	Independent Bank MM	541,835.36	UF Water Deposits	
25-120 UF Cap Oper	Independent Bank MM	2,733,007.46	UF Capital Projects Fund 25	
40-120 Hotel Fund Oper	Independent Bank MM	341,760.94	Hotel Fund 40	
		16,828,593.33		
Southside Bank				
10-265 GF-St Res-SSB	Southside Bank MM	113,736.75	GF Street Reserve	
10-267 GF-I&S-SSB	Southside Bank MM	544,270.61	GF Debt Service	
16-166 UF-SSB	Southside Bank 5 12/6/2024	3,300,033.25	2023 CO Fund 16	12/6/2024
20-266 UF Debt-SSB	Southside Bank MM	353,015.56	UF Debt Service	
		4,311,056.17		
TexPool				
10-200 GF-Reserve-Txpl	TexPool LGIP	420.92	GF 90 Day Reserves	
10-201 GF-St Res-Txpl	TexPool LGIP	12,393.07	GF Street Reserve	
10-203 GF-I&S-Txpl	TexPool LGIP	2,045.05	GF Debt Service	
15-200 St Cap-Txpl	TexPool LGIP	14,404.80	GF Capital Projects Fund 15	
20-200 UF Oper-Txpl	TexPool LGIP	26,024.65	Utility Fund Operating	
20-201 UF Dep-Txpl	TexPool LGIP	1,810.31	UF Water Deposits	
20-203 UF Equip-Txpl	TexPool LGIP	6,168.58	UF Equipment Reserve	
20-204 UF Debt-Txpl	TexPool LGIP	130,841.22	UF Debt Service	
25-200 UF Cap-Txpl	TexPool LGIP	11,507.91	UF Capital Projects Fund 25	
		205,616.51		
	TOTAL PORTFOLIO	36,794,184.39		



Portfolio Holdings
Group By: Portfolio Name
As of 9/30/2024

Asset Class	Description	Issuer	YTM @ Cost	Book Value	Maturity Date
PEG Fund 08					
08-120 PEG Fund	Independent Bank MM	Independent Bank	5.120	536,328.54	
Child Safety Fund 09					
09-120 Child Safety	Independent Bank MM	Independent Bank	5.120	182,132.36	
GF Capital Projects Fund 15					
15-170 2022 CO	East West Bank 5.06 12/13/2024	East West Bank	5.060	4,872.43	12/13/2024
15-170 2022 CO	East West Bank 5.06 12/13/2024	East West Bank	5.060	2,067,468.36	12/13/2024
15-120 St Cap Oper	Independent Bank MM	Independent Bank	4.900	333,739.91	
15-200 St Cap-Txpl	TexPool LGIP	TexPool	5.164	14,404.80	
			5.039	2,420,485.50	
2023 CO Fund 16					
16-131 2023 CO	East West Bank 5.48 12/13/2024	East West Bank	5.480	2,267,435.14	12/13/2024
16-120 2023 CO	Independent Bank MM	Independent Bank	5.970	575,842.06	
16-166 UF-SSB	Southside Bank 5 12/6/2024	Southside Bank	5.000	3,300,033.25	12/6/2024
			5.268	6,143,310.45	
Hotel Fund 40					
40-120 Hotel Fund Oper	Independent Bank MM	Independent Bank	5.120	341,760.94	
GENERAL FUND					
GF Unrestricted					
10-133 AB-GF Unrest	Alliance Bank 5.4 2/21/2025	Alliance Bank	5.400	2,066,018.51	2/21/2025
10-128 FNB GF	First National Bank 5.25 12/17/2024	First National Bank	5.250	2,836,642.03	12/17/2024
10-121 IB GF Oper Funds	Independent Bank MM	Independent Bank	5.120	2,089,595.50	
			5.255	6,992,256.04	
GF Operating					
None	Cash on Hand Cash	Cash on Hand	0.000	1,100.00	
10-160 HHIT	Independent Bank MM	Independent Bank	4.930	981.15	
10-120 GF-Operating	Independent Bank MM	Independent Bank	5.120	1,204,911.63	
10-140 Payroll	Independent Bank MM	Independent Bank	5.100	4,024.61	
			5.115	1,211,017.39	
GF Street Reserve					
10-135 GF-Street Res	Independent Bank MM	Independent Bank	5.120	11,702.55	
10-265 GF-St Res-SSB	Southside Bank MM	Southside Bank	5.380	113,736.75	
10-201 GF-St Res-Txpl	TexPool LGIP	TexPool	5.164	12,393.07	
			5.338	137,832.37	
GF Debt Service					
10-130 GF-I&S	Independent Bank MM	Independent Bank	5.120	499,027.37	
10-267 GF-I&S-SSB	Southside Bank MM	Southside Bank	5.380	544,270.61	
10-203 GF-I&S-Txpl	TexPool LGIP	TexPool	5.164	2,045.05	
			5.255	1,045,343.03	Req'd Reserve=\$744,411
GF 90 Day Reserves					
10-134 EWB 90 Day	East West Bank 5.05 2/21/2025	East West Bank	5.050	1,407,747.95	2/21/2025
10-125 GF 90 Day Reserve	Independent Bank MM	Independent Bank	5.120	1,633,992.67	
10-200 GF-Reserve-Txpl	TexPool LGIP	TexPool	5.164	420.92	
			5.088	3,042,161.54	Req'd Reserve=\$3,040,575
TOTAL GENERAL FUND				12,428,610.37	

Portfolio Holdings
Group By: Portfolio Name
As of 9/30/2024

Asset Class	Description	Issuer	YTM @ Cost	Book Value	Maturity Date
UTILITY FUND					
UF Unrestricted					
20-128 FNB UF	First National Bank 5.25 12/17/2024	First National Bank	5.250	2,756,918.56	12/17/2024
20-120 UF-Operating	Independent Bank MM	Independent Bank	5.110	1,474,389.61	
			5.201	4,231,308.17	
Utility Fund Operating					
None	Cash on Hand Cash	Cash on Hand	0.000	1,100.00	
20-120 UF-Operating	Independent Bank MM	Independent Bank	5.110	711,294.38	
20-200 UF Oper-Txpl	TexPool LGIP	TexPool	5.164	26,024.65	
			5.104	738,419.03	
UF Equipment Reserve					
20-139 Equip Res	Independent Bank MM	Independent Bank	5.110	215,625.00	
20-203 UF Equip-Txpl	TexPool LGIP	TexPool	5.164	6,168.58	
			5.111	221,793.58	
UF Water Deposits					
20-140 UF-Deposits	Independent Bank MM	Independent Bank	5.120	541,835.36	
20-201 UF Dep-Txpl	TexPool LGIP	TexPool	5.164	1,810.31	
			5.120	543,645.67	
UF Debt Service					
20-138 UF-Debt	Independent Bank MM	Independent Bank	5.120	540,292.44	
20-266 UF Debt-SSB	Southside Bank MM	Southside Bank	5.380	353,015.56	
20-204 UF Debt-Txpl	TexPool LGIP	TexPool	5.164	130,841.22	
			5.215	1,024,149.22	Req'd Reserve=\$555,487
UF 90 Day Reserves					
20-122 UF-Oper Res IB	Independent Bank MM	Independent Bank	5.120	1,512,601.70	Req'd Reserve=\$1,511,968
		TOTAL UTILITY FUND		8,271,917.37	
CLFRF Fund 07					
07-110 CLFRF	Independent Bank MM	Independent Bank	5.140	1,034,743.16	
Drainage Fund 12					
12-120 DF Oper	Independent Bank MM	Independent Bank	5.120	650,764.93	
UF Capital Projects Fund 25					
25-131 EWB 6mo	East West Bank 5.05 2/21/2025	East West Bank	5.050	1,019,569.99	2/21/2025
25-135 EWB CD	East West Bank 5.5 11/21/2024	East West Bank	5.500	1,020,045.41	11/21/2024
25-120 UF Cap Oper	Independent Bank MM	Independent Bank	5.120	2,733,007.46	
25-200 UF Cap-Txpl	TexPool LGIP	TexPool	5.164	11,507.91	
			5.186	4,784,130.77	
		TOTAL PORTFOLIO	5.188	36,794,184.39	

Book & Market Value Comparison

Issuer/Description	Yield	Maturity Date	Book Value 06/30/24	Increases	Decreases	Book Value 09/30/24	Market Value 06/30/24	Change in Market Value	Market Value 09/30/24
Cash on Hand	0.00%	10/01/24	\$ 2,200	\$ —	\$ —	\$ 2,200	\$ 2,200	\$ —	\$ 2,200
Independent Bank - MMA	5.14%	10/01/24	16,319,175	—	(66,424)	16,252,751	16,319,175	(66,424)	16,252,751
Independent Bank - MMA #2	5.97%	10/01/24	187,706	388,136	—	575,842	187,706	388,136	575,842
Southside Bank - MMA	5.38%	10/01/24	1,213,197	—	(202,174)	1,011,023	1,213,197	(202,174)	1,011,023
TexPool	5.16%	10/01/24	202,914	2,702	—	205,617	202,914	2,702	205,617
East West Bank CD CD	5.65%	08/21/24	1,006,034	—	(1,006,034)	—	1,006,034	(1,006,034)	—
First National Bank CD	5.93%	08/23/24	1,361,143	—	(1,361,143)	—	1,361,143	(1,361,143)	—
Southside Bank CD	5.41%	09/06/24	3,654,431	—	(3,654,431)	—	3,654,431	(3,654,431)	—
East West Bank CD	5.65%	09/13/24	2,439,734	—	(2,439,734)	—	2,439,734	(2,439,734)	—
East West Bank CD	5.65%	11/21/24	1,006,034	14,011	—	1,020,045	1,006,034	14,011	1,020,045
Southside Bank CD	5.09%	12/06/24	—	3,300,033	—	3,300,033	—	3,300,033	3,300,033
East West Bank CD	5.63%	12/13/24	2,236,402	31,033	—	2,267,435	2,236,402	31,033	2,267,435
East West Bank CD	5.19%	12/13/24	—	2,072,341	—	2,072,341	—	2,072,341	2,072,341
First National CD	5.35%	12/17/24	5,520,190	73,371	—	5,593,561	5,520,190	73,371	5,593,561
Alliance Bank CD	5.40%	02/21/25	2,038,151	27,867	—	2,066,019	2,038,151	27,867	2,066,019
East West Bank CD	5.18%	02/21/25	—	2,427,318	—	2,427,318	—	2,427,318	2,427,318
TOTAL / AVERAGE	5.25%		\$ 37,187,313	\$ 8,336,812	\$ (8,729,940)	\$ 36,794,184	\$ 37,187,313	\$ (393,128)	\$ 36,794,184

Allocation By Fund
September 30, 2024

Book & Market Value	Cash on Hand	Independent Bank - MMA (5.12%)	Independent Bank - MMA #2 (5.97%)	TexPool (5.164%)	Southside Bank - MMA (5.38%)	11/21/24 – East West Bank CD (5.50%)	12/06/24 – Southside Bank CD (5.00%)	12/13/24 – East West Bank CD (5.48%)
GF Operating	\$ 1,100	\$ 1,209,917	\$ –	\$ –	\$ –	\$ –	\$ –	\$ –
GF Street Reserve	–	11,703	–	12,393	113,737	–	–	–
GF Tax I&S	–	499,027	–	2,045	544,271	–	–	–
GF 90 Day Reserves	–	1,633,993	–	421	–	–	–	–
GF Unrestricted	–	2,089,596	–	–	–	–	–	–
PEG Account	–	536,329	–	–	–	–	–	–
GF Capital-2022 CO	–	333,740	–	14,405	–	–	–	–
Hotel Fund	–	341,761	–	–	–	–	–	–
Drainage Fund	–	650,765	–	–	–	–	–	–
UF Operating	1,100	711,294	–	26,025	–	–	–	–
UF Deposits	–	541,835	–	1,810	–	–	–	–
UF Unrestricted	–	1,474,390	–	–	–	–	–	–
UF Self-Supporting	–	540,292	–	130,841	353,016	–	–	–
UF 90-Day Reserves	–	1,512,602	–	–	–	–	–	–
UF Equipment	–	215,625	–	6,169	–	–	–	–
UF Capital	–	2,733,007	–	11,508	–	1,020,045	–	–
Child Safety Fees	–	182,132	–	–	–	–	–	–
CLFRF - ARP Funds	–	1,034,743	–	–	–	–	–	–
2023 CO	–	–	575,842	–	–	–	3,300,033	2,267,435
Totals	\$ 2,200	\$ 16,252,751	\$ 575,842	\$ 205,617	\$ 1,011,023	\$ 1,020,045	\$ 3,300,033	\$ 2,267,435

Allocation By Fund
September 30, 2024

(Continued)

Book & Market Value	12/13/24 – East West Bank CD (5.06%)	12/17/24 – First National Bank CD (5.25%)	02/21/25 – Alliance Bank CD (5.4%)	02/21/25 – East West Bank CD (5.05%)	Total
GF Operating	\$ –	\$ –	\$ –	\$ –	\$ 1,211,017
GF Street Reserve	–	–	–	–	137,832
GF Tax I&S	–	–	–	–	1,045,343
GF 90 Day Reserves	–	–	–	1,407,748	3,042,162
GF Unrestricted	–	2,836,642	2,066,019	–	6,992,256
PEG Account	–	–	–	–	536,329
GF Capital-2022 CO	2,072,341	–	–	–	2,420,486
Hotel Fund	–	–	–	–	341,761
Drainage Fund	–	–	–	–	650,765
UF Operating	–	–	–	–	738,419
UF Deposits	–	–	–	–	543,646
UF Unrestricted	–	2,756,919	–	–	4,231,308
UF Self-Supporting	–	–	–	–	1,024,149
UF 90-Day Reserves	–	–	–	–	1,512,602
UF Equipment	–	–	–	–	221,794
UF Capital	–	–	–	1,019,570	4,784,131
Child Safety Fees	–	–	–	–	182,132
CLFRF - ARP Funds	–	–	–	–	1,034,743
2023 CO	–	–	–	–	6,143,310
Totals	\$ 2,072,341	\$ 5,593,561	\$ 2,066,019	\$ 2,427,318	\$ 36,794,184

Allocation By Fund
June 30, 2024

Book & Market Value	Cash on Hand	Independent Bank - MMA (5.36%)	Independent Bank - MMA #2 (5.36%)	TexPool (5.3120%)	Southside Bank - MMA (5.5%)	08/21/24 – East West Bank CD (5.5%)	08/23/24 – First National Bank CD (5.8%)	09/06/24 – Southside Bank CD (5.3%)
GF Operating	\$ 1,100	\$ 3,396,000	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
GF Street Reserve	—	11,552	—	12,230	112,224	—	—	—
GF Tax I&S	—	470,974	—	2,018	537,029	—	—	—
GF 90 Day Reserves	—	1,624,288	—	415	—	—	1,361,143	—
GF Unrestricted	—	1,239,596	—	—	—	—	—	—
PEG Account	—	523,133	—	—	—	—	—	—
GF Capital-2022 CO	—	91,728	—	14,215	—	—	—	—
Hotel Fund	—	313,772	—	—	—	—	—	—
Drainage Fund	—	605,328	—	—	—	—	—	—
UF Operating	1,100	836,544	—	25,683	—	—	—	—
UF Deposits	—	530,089	—	1,787	—	—	—	—
UF Unrestricted	—	624,390	—	—	—	—	—	—
UF Self-Supporting	—	533,319	—	129,122	348,319	—	—	—
UF 90-Day Reserves	—	1,469,355	—	—	—	—	—	—
UF Equipment	—	—	—	6,087	215,625	—	—	—
UF Capital	—	2,723,415	—	11,357	—	1,006,034	—	—
Child Safety Fees	—	179,587	—	—	—	—	—	—
CLFRF - ARP Funds	—	1,146,106	—	—	—	—	—	—
2023 CO	—	—	187,706	—	—	—	—	3,654,431
Totals	\$ 2,200	\$ 16,319,175	\$ 187,706	\$ 202,914	\$ 1,213,197	\$ 1,006,034	\$ 1,361,143	\$ 3,654,431

Allocation By Fund

June 30, 2024

(Continued)

Book & Market Value	09/13/24 – East West Bank CD (5.5%)	11/21/24 – East West Bank CD (5.5%)	12/13/24 – East West Bank CD (5.48%)	12/17/24 – First National Bank CD (5.25%)	02/21/25 – Alliance Bank CD (5.4%)	Total
GF Operating	\$ –	\$ –	\$ –	\$ –	\$ –	\$ 3,397,100
GF Street Reserve	–	–	–	–	–	136,005
GF Tax I&S	–	–	–	–	–	1,010,021
GF 90 Day Reserves	–	–	–	–	–	2,985,847
GF Unrestricted	–	–	–	2,799,434	2,038,151	6,077,181
PEG Account	–	–	–	–	–	523,133
GF Capital-2022 CO	2,439,734	–	–	–	–	2,545,678
Hotel Fund	–	–	–	–	–	313,772
Drainage Fund	–	–	–	–	–	605,328
UF Operating	–	–	–	–	–	863,327
UF Deposits	–	–	–	–	–	531,875
UF Unrestricted	–	–	–	2,720,756	–	3,345,146
UF Self-Supporting	–	–	–	–	–	1,010,759
UF 90-Day Reserves	–	–	–	–	–	1,469,355
UF Equipment	–	–	–	–	–	221,712
UF Capital	–	1,006,034	–	–	–	4,746,840
Child Safety Fees	–	–	–	–	–	179,587
CLFRF - ARP Funds	–	–	–	–	–	1,146,106
2023 CO	–	–	2,236,402	–	–	6,078,540
Totals	\$ 2,439,734	\$ 1,006,034	\$ 2,236,402	\$ 5,520,190	\$ 2,038,151	\$ 37,187,313



COUNCIL AGENDA ITEM FORM

MEETING DATE: October 21, 2024

AGENDA ITEM #: 6.

SUBMITTED BY: Kevin Reinke, Utilities Director

ITEM DESCRIPTION:

Discussion and possible action to approve the purchase of a 2024 F250 XL 4x4 with a utility bed installed to be used in the Utilities Department.

STAFF RECOMMENDATION/ITEM SUMMARY:

The 2024 F250 XL 4x4 Super Cab with a utility bed replaces the 2015 F250 XL 2wd Super Cab. This purchase is budgeted in the FY 24-25 budget. Attached is the Buy Board Contract #724-23 and the truck/utility bed specs.

FISCAL IMPACT:

Amount Budgeted -\$80,000.00

Line Item in Budget - 20 50615 9100

SUGGESTED MOTION:

I move to approve the purchase of a 2024 F250 XL 4x4 with utility bed from Sam Pack's Five-Star Ford for the amount of \$80,467.81.

ATTACHMENTS:

1. Hewitt, City of (UTECH) R-1



COUNCIL AGENDA ITEM FORM

MEETING DATE: October 21, 2024

AGENDA ITEM #: 7.

SUBMITTED BY: Scott Coleman, Director of General Services

ITEM DESCRIPTION:

Discussion and possible action to approve the purchase of one 2024 F250 for use in the Street Department.

STAFF RECOMMENDATION/ITEM SUMMARY:

This purchase replaces unit 466, a 2015 F250, with terminal engine failure. This request is included in the FY24/25 budget.

The replacement truck will be assigned to the Street Department and primarily used for crew transportation, towing trailers, and hauling materials. Given the demanding nature of these tasks, we believe that a reliable and durable 3/4-ton capacity truck with 4-wheel drive is essential.

If approved, this purchase will be made through Buy Board Contract 724-23 via Chastang Ford for \$55,765.00. Attached is a sales quote with full specs and additional information about the vehicle.

FISCAL IMPACT:

Short Term Financing

SUGGESTED MOTION:

I move to approve the purchase of a 2024 Ford F250 SD Crew Cab from Chastang Ford for the amount of \$55,765.00.

ATTACHMENTS:

1. HEWITT 25 W2B 100324



Prepared by: Ed Miller
10/03/2024

Chastang Ford | 6200 N. Loop East Houston Texas | 770261936

2024 F-250 4x4 SD Crew Cab 8' box 176" WB SRW XL (W2B)

Price Level: 430 | Quote ID: HEW25W2BL

As Configured Vehicle

Code	Description	MSRP
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Base Vehicle

W2B	Base Vehicle Price (W2B)	\$51,770.00
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Packages

600A	Order Code 600A <i>Includes:</i> - Engine: 6.8L 2V DEVCT NA PFI V8 Gas Flex fuel. - Transmission: TorqShift-G 10-Speed Automatic Includes SelectShift and selectable drive modes: normal, eco, slippery roads, tow/haul and off-road. - 3.73 Axle Ratio - GVWR: 10,000 lb Payload Package - Tires: LT245/75Rx17E BSW A/S Spare may not be the same as road tire. - Wheels: 17" Argent Painted Steel Includes painted hub covers/center ornaments. - HD Vinyl 40/20/40 Split Bench Seat Includes center armrest, cupholder, storage and driver's side manual lumbar. - Radio: AM/FM Stereo w/MP3 Player Includes 6 speakers. - SYNC 4 Includes 8" LCD capacitive touchscreen with swipe capability, wireless phone connection, cloud connected, AppLink with app catalog, 911 Assist, Apple CarPlay and Android Auto compatibility and digital owner's manual.	N/C
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Powertrain

99A	Engine: 6.8L 2V DEVCT NA PFI V8 Gas <i>Flex fuel.</i>	Included
44F	Transmission: TorqShift-G 10-Speed Automatic <i>Includes SelectShift and selectable drive modes: normal, eco, slippery roads, tow/haul and off-road.</i>	Included
X37	3.73 Axle Ratio	Included
STDGV	GVWR: 10,000 lb Payload Package	Included

Wheels & Tires

TD8	Tires: LT245/75Rx17E BSW A/S <i>Spare may not be the same as road tire.</i>	Included
64A	Wheels: 17" Argent Painted Steel	Included

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

Note: Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.



2024 F-250 4x4 SD Crew Cab 8' box 176" WB SRW XL (W2B)

Price Level: 430 | Quote ID: HEW25W2BL

As Configured Vehicle (cont'd)

Code	Description	MSRP
------	-------------	------

Includes painted hub covers/center ornaments.

Seats & Seat Trim

A	HD Vinyl 40/20/40 Split Bench Seat	Included
Includes center armrest, cupholder, storage and driver's side manual lumbar.		

Other Options

176WB	176" Wheelbase	STD
PAINT	Monotone Paint Application	STD
STDRD	Radio: AM/FM Stereo w/MP3 Player	Included
Includes 6 speakers.		
Includes: - SYNC 4		
Includes 8" LCD capacitive touchscreen with swipe capability, wireless phone connection, cloud connected, AppLink with app catalog, 911 Assist, Apple CarPlay and Android Auto compatibility and digital owner's manual.		

Fleet Options

WARANT	Fleet Customer Powertrain Limited Warranty	N/C
Requires valid FIN code.		
Ford is increasing the 5-year 60,000-mile limited powertrain warranty to 5-years, 100,000 miles. Only Fleet purchasers with a valid Fleet Identification Number (FIN code) will receive the extended warranty. When the sale is entered into the sales reporting system with a sales type fleet along with a valid FIN code, the warranty extension will automatically be added to the vehicle. The extension will stay with the vehicle even if it is subsequently sold to a non-fleet customer before the expiration. This extension applies to both gas and diesel powertrains. Dealers can check for the warranty extension on eligible fleet vehicles in OASIS. Please refer to the Warranty and Policy Manual section 3.13.00 Gas Engine Commercial Warranty. This change will also be reflected in the printed Warranty Guided distributed with the purchase of every new vehicle.		

Emissions

425	50-State Emissions System	STD
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Exterior Color

Z1_01	Oxford White	N/C
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Interior Color



Prepared by: Ed Miller
10/03/2024

Chastang Ford | 6200 N. Loop East Houston Texas | 770261936

2024 F-250 4x4 SD Crew Cab 8' box 176" WB SRW XL (W2B)

Price Level: 430 | Quote ID: HEW25W2BL

As Configured Vehicle (cont'd)

Code	Description	MSRP
AS_03	Medium Dark Slate w/HD Vinyl 40/20/40 Split Bench Seat	N/C

Upfit Options

09 price increa	2025 price increase	\$1,000.00
BuyBoard	Buy Board Fee CONTRACT 724-23 <i>CONTRACT 724-23</i>	\$400.00
ANGLE	Delivery to HEWITT	\$600.00

SUBTOTAL	\$53,770.00
Destination Charge	\$1,995.00
TOTAL	\$55,765.00

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

Note: Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.



Prepared by: Ed Miller
10/03/2024

Chastang Ford | 6200 N. Loop East Houston Texas | 770261936

2024 F-250 4x4 SD Crew Cab 8' box 176" WB SRW XL (W2B)

Price Level: 430 | Quote ID: HEW25W2BL

Pricing Summary - Single Vehicle

		MSRP
<i>Vehicle Pricing</i>		
Base Vehicle Price		\$51,770.00
Options		\$0.00
Colors		\$0.00
Upfitting		\$2,000.00
Fleet Discount		\$0.00
Fuel Charge		\$0.00
Destination Charge		\$1,995.00
Subtotal		\$55,765.00
<i>Pre-Tax Adjustments</i>		
Code	Description	MSRP
01 ft	DISCOUNT AND CONCESSION	-\$4,070.00
Total		\$51,695.00

Customer Signature

Acceptance Date



Prepared by: Ed Miller

10/03/2024

Chastang Ford | 6200 N. Loop East Houston Texas | 770261936

2024 F-250 4x4 SD Crew Cab 8' box 176" WB SRW XL (W2B)

Price Level: 430 | Quote ID: HEW25W2BL

Selected Equip & Specs

Dimensions

- Conventional Capacity: 13,800 lbs.
- Fifth-wheel towing capacity: 13,600 lbs.
- Front brake diameter: 14.3"
- Cargo box length: 98.1"
- Cargo box volume: 78.5 cu.ft.
- Cargo box max width: 66.9"
- Cargo box length feet: 8.0
- Vehicle body width: 80.0"
- Wheelbase: 176.0"
- Front track: 68.3"
- Cab to axle: 56.1"
- Frame yield strength (psi): 50000.0
- Front bumper to back of cab: 151.8"
- Max interior rear cargo volume: 52.1 cu.ft.
- Headroom first-row: 40.8"
- Leg room first-row: 43.9"
- Shoulder room first-row: 66.7"
- Hip room first-row: 62.5"
- GCWR: 21,000 lbs.
- Gooseneck towing capacity: 13,800 lbs.
- Rear brake diameter: 14.3"
- Cargo box min width: 50.5"
- Pickup box depth: 21.1"
- Cargo box tailgate width: 60.5"
- Vehicle body length: 266.2"
- Vehicle body height: 81.3"
- Vehicle turning radius: 28.9'
- Rear track: 67.2"
- Frame section modulus: 10.7 cu.in.
- Front bumper to front axle: 38.2"
- Interior rear cargo volume with seats folded: 52.1 cu.ft.
- Total passenger volume: 131.8 cu.ft.
- Headroom second-row: 40.4"
- Leg room second-row: 43.6"
- Shoulder room second-row: 65.9"
- Hip room second-row: 64.7"

Powertrain

- Spark ignition system
- Engine cylinders: V-8
- Horsepower: 405 HP@5000 RPM
- Radiator
- Part-time 4WD
- Recommended fuel: regular unleaded
- Electronic transfer case shift
- 6.8L V-8 variable valve control, engine with 405HP
- Injection Type: sequential MPI
- Torque: 445 lb.-ft.@4000 RPM
- TorqShift 10-speed automatic
- Four-wheel drive
- All-speed ABS and driveline traction control
- Auto locking hub control

Fuel Economy and Emissions

- Gasoline secondary fuel type
- E85 additional fuel types
- Federal emissions

Suspension and Handling

- Firm ride suspension
- Heavy-duty rear shock absorbers
- Heavy-duty front shock absorbers

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Prepared by: Ed Miller

10/03/2024

Chastang Ford | 6200 N. Loop East Houston Texas | 770261936

2024 F-250 4x4 SD Crew Cab 8' box 176" WB SRW XL (W2B)

Price Level: 430 | Quote ID: HEW25W2BL

Selected Equip & Specs (cont'd)

Driveability

- 4-wheel disc brakes
- 4-wheel antilock (ABS) brakes
- Brake assist system
- Mono-beam rigid axle front suspension
- Front coil springs
- Leaf spring rear suspension
- Re-circulating ball steering
- Front and rear ventilated disc brakes
- Four channel ABS brakes
- Hill Start Assist
- Front anti-roll bar
- Rigid axle rear suspension
- Hydraulic power-assist steering system
- 2-wheel steering system

Body Exterior

- Trailer wiring harness
- 4 doors
- Pickup bed-rail protectors
- Monotone paint
- Black door handles
- Black front bumper
- Black rear bumper
- Black front bumper rub strip
- Convex spotter in driver and passenger side door mirrors
- Turn signal indicator in door mirrors
- Conventional left rear passenger door
- Tailgate
- 17 x 7.5-inch front and rear argent steel wheels
- Dynamic Hitch Assist vehicle to trailer hitching assist
- Standard style pickup box
- Clearcoat paint
- Black side window trim
- Black windshield trim
- 2 front tow hooks
- Rear bumper step
- Black grille
- Manual extendable trailer mirrors
- Black door mirrors
- Conventional right rear passenger door
- LT245/75RS17 AS BSW front and rear tires

Convenience

- Power door locks with 2 stage unlocking
- All-in-one remote fob and ignition key
- Cruise control with steering wheel mounted controls
- Day/Night rearview mirror
- Integrated side steps
- Front beverage holders
- 8 beverage holders
- Illuminated glove box
- Dashboard storage
- Trip computer
- PRND in IP
- Keyfob activated door locks
- Power tailgate/rear door lock
- FordPass Connect smart device vehicle start control
- Power first-row windows
- Fixed rear windshield
- Illuminated locking glove box
- Rear beverage holders
- Instrument panel covered bin
- Retained accessory power
- Over the air updates

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Price Level: 430 | Quote ID: HEW25W2BL

Selected Equip & Specs (cont'd)

Comfort

- Manual climate control
- Rear under seat climate control ducts
- Full headliner coverage
- Full floor coverage
- Carpet rear seatback upholstery
- Manual tilting steering wheel
- Cabin air filter
- Cloth headliner material
- Full vinyl floor covering
- Vinyl rear seat upholstery
- Urethane steering wheel
- Manual telescopic steering wheel

Seats and Trim

- Seating capacity: 6
- Driver seat with 4-way directional controls
- Height adjustable front seat head restraints
- Split-bench front seat
- Front seat armrest storage
- Manual driver seat fore/aft control
- Manual passenger seat fore/aft control
- Height adjustable rear seat head restraints
- Manual driver seat lumbar
- 40-20-40 split-bench front seat
- Front passenger seat with 4-way directional controls
- Manual front seat head restraint control
- Front seat center armrest
- Manual reclining driver seat
- Manual reclining passenger seat
- Fixed rear seats
- Split-bench rear seat
- Vinyl front seat upholstery

Entertainment Features

- 2 total number of 1st row displays
- Primary touchscreen display
- * **AM/FM**
- AM radio
- Seek scan
- Standard grade speakers
- Steering wheel mounted audio controls
- Speed sensitive volume
- Fixed audio antenna
- 8 inch primary display
- AM/FM stereo radio
- In-vehicle audio
- FM radio
- SYNC 4 external memory control
- Speakers number: 6
- SYNC 4 voice activated audio controls
- Bluetooth wireless audio streaming

Lighting, Visibility and Instrumentation

- Digital/analog instrumentation display
- Trip odometer
- Compass
- Driver information center
- Oil pressure gauge
- Transmission fluid temperature gauge
- Gauge cluster display size (inches): 4.20
- Configurable instrumentation gauges
- In-radio display clock
- Exterior temperature display
- Tachometer
- Engine/electric motor temperature gauge
- Engine hour meter
- Light tinted windows

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Price Level: 430 | Quote ID: HEW25W2BL

Selected Equip & Specs (cont'd)

- Reflector headlights
- Autolamp auto on/off headlight control
- Delay-off headlights
- Variable intermittent front windshield wipers
- Front reading lights
- Variable instrument panel light
- High mounted center stop light
- Fade interior courtesy lights
- Halogen headlights
- Multiple enclosed headlights
- DRL preference setting
- Illuminated entry
- Rear reading lights
- Daytime running lights
- Remote activated perimeter approach lighting
- Pickup box cargo light

Technology and Telematics

- SYNC 4 911 Assist emergency SOS system via mobile device
- Smart device wireless mirroring
- FordPass Connect 5G mobile hotspot internet access
- SYNC 4 handsfree wireless device connectivity
- FordPass App mobile app access
- 2 USB ports

Safety and Security

- Driver front impact airbag
- Safety Canopy System curtain first and second-row overhead airbags
- Seat mounted side impact front passenger airbag
- Rear seat center 3-point seatbelt
- SecuriLock immobilizer
- Rear mounted camera
- Manual rear child safety door locks
- Seat mounted side impact driver airbag
- Passenger front impact airbag
- 6 airbags
- Front height adjustable seatbelts
- Remote panic alarm
- AdvanceTrac w/Roll Stability Control electronic stability control system with anti-rollover

Dimensions

General Weights

Curb weight	6,699 lbs.	Rear curb weight	2,718 lbs.
GVWR	10,000 lbs.	Payload	3,260 lbs.

Trailer Weights

Fifth-wheel towing capacity	13,600 lbs.	Gooseneck towing capacity	13,800 lbs.
Conventional capacity	13,800 lbs.	GCWR	21,000 lbs.

Front Weights

Front curb weight	3,981 lbs.	* GAWR front	4,800 lbs.
Axle capacity front	6,000 lbs.	* Spring rating front	4,800 lbs.
Tire/wheel capacity front	6,390 lbs.		

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Selected Equip & Specs (cont'd)

Rear Weights

GAWR rear	6,340 lbs.	Axle capacity rear	7,280 lbs.
Spring rating rear	6,340 lbs.	Tire/wheel capacity rear	6,390 lbs.

Off Road

Min ground clearance	8.5"	Loading floor height	36.8 "
Approach angle	17.4	Departure angle	20.8

Exterior Measurements

Vehicle body length	266.2"	Vehicle body width	80.0"
Vehicle body height	81.3"	Wheelbase	176.0"
Front brake diameter	14.3"	Cargo box length	98.1"
Rear brake diameter	14.3"	Cargo box min width	50.5"
Cargo box volume	78.5 cu.ft.	Pickup box depth	21.1"
Cargo box max width	66.9"	Cargo box tailgate width	60.5"
Cargo box length feet	8.0	Front track	68.3"
Rear track	67.2"	Vehicle turning radius	28.9'
Cab to axle	56.1"	Frame section modulus	10.7 cu.in.
Frame yield strength (psi)	50000.0	Front bumper to front axle	38.2"
Front bumper to back of cab	151.8"		

Interior Measurements

Max interior rear cargo volume	52.1 cu.ft.	Interior rear cargo volume with seats folded	52.1 cu.ft.
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Interior Volume

Total passenger volume	131.8 cu.ft.
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Headroom

Headroom first-row	40.8"	Headroom second-row	40.4"
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Legroom

Leg room first-row	43.9"	Leg room second-row	43.6"
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Shoulder Room

Shoulder room first-row	66.7"	Shoulder room second-row	65.9"
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Hip Room

Hip room first-row	62.5"	Hip room second-row	64.7"
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Powertrain

Engine

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Selected Equip & Specs (cont'd)

Engine 6.8L V-8 variable valve control, engine with 405HP

Engine cylinders V-8

Engine location Front mounted engine

Engine mounting direction Longitudinal mounted engine

Cylinder head material Aluminum cylinder head

Valves per cylinder 2

Injection type sequential MPI

Ignition Spark ignition system

Engine block material Iron engine block

Engine Specs

Displacement 6.8L

Bore 4.22"

Compression ratio 10.8

cc 415 cu.in.

Stroke 3.68"

SAEJ1349 AUG2004 compliant

Engine Power

Horsepower 405 HP@5000 RPM

Torque 445 lb.-ft.@4000 RPM

Alternator

Alternator amps 160A

Alternator type Regular duty alternator

Battery

Battery amps 78Ah

Battery rating 750CCA

Battery type HD lead acid battery

Battery run down protection Battery run down protection

Engine Extras

Radiator Radiator

Transmission

Transmission TorqShift 10-speed automatic

Transmission electronic control Transmission electronic control

Overdrive transmission Overdrive transmission

Lock-up transmission Lock-up transmission

First gear ratio 4.696

Second gear ratio 2.985

Third gear ratio 2.146

Fourth gear ratio 1.769

Fifth gear ratio 1.52

Sixth gear ratio 1.275

Reverse gear ratio 4.866

Seventh gear ratio 1

Eighth gear ratio 0.854

Ninth gear ratio 0.689

Tenth gear ratio 0.636

Stall ratio 1.97

Selectable mode transmission Selectable mode transmission

Sequential shift control SelectShift Sequential shift control

Transmission oil cooler Transmission oil cooler

Drive Type

4WD type Part-time 4WD

Drive type Four-wheel drive

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Selected Equip & Specs (cont'd)

Drivetrain

Axle ratio 3.73

Exhaust

Tailpipe Stainless steel single exhaust

Fuel

Fuel type regular unleaded

Fuel Tank

Fuel tank capacity 48.00 gal.

Drive Feature

Traction control All-speed ABS and driveline
traction control
Transfer case Electronic transfer case shift

Locking hub control Auto locking hub control

Fuel Economy and Emissions

Fuel Economy

Secondary fuel type Gasoline secondary fuel
type

Emissions

Emissions Federal emissions

Fuel Economy (Alternate 1)

Additional fuel types ... E85 additional fuel types

Suspension and Handling

Suspension

Suspension Firm ride suspension

Rear shock absorbers Heavy-duty rear shock
absorbers

Front shock absorbers ... Heavy-duty front shock
absorbers

Driveability

Brakes

Brake type 4-wheel disc brakes

ABS brakes Four channel ABS brakes

Ventilated brakes Front and rear ventilated disc
brakes
ABS brakes 4-wheel antilock (ABS) brakes

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Selected Equip & Specs (cont'd)

Brake Assistance

Hill start assist Hill Start Assist Brake assist system Brake assist system

Front Suspension

Front anti-roll Front anti-roll bar Suspension ride type front Mono-beam rigid axle front suspension

Front Spring

Regular front springs Regular front springs Springs front Front coil springs

Rear Spring

Springs rear Rear leaf springs Rear springs Heavy-duty rear springs

Rear Suspension

Suspension type rear Leaf spring rear suspension Suspension ride type rear Rigid axle rear suspension

Steering

Steering Hydraulic power-assist steering system Steering type Re-circulating ball steering
Steering type number of wheels 2-wheel steering system

Exterior

Front Wheels

Front wheels diameter 17" Front wheels width 7.5"

Rear Wheels

Rear wheels diameter 17" Rear wheels width 7.5"

Front And Rear Wheels

Appearance argent Material steel

Front Tires

Aspect 75 Diameter 17"
Sidewalls BSW Speed S
Tread AS Type LT
Width 245mm Front wheel - RPM 649

Rear Tires

Aspect 75 Diameter 17"
Sidewalls BSW Speed S
Tread AS Type LT

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Selected Equip & Specs (cont'd)

Width 245mm Rear wheel - RPM 649

Body Exterior

Trailer

Towing capability Trailer towing capability Towing class Class V tow rating
Towing hitch Trailer hitch Towing wiring harness Trailer wiring harness
Towing brake controller Trailer brake controller Towing trailer sway Trailer sway control

Exterior Features

Box style Standard style pickup box Number of doors 4 doors

Body

Body panels Aluminum body panels with side impact beams

Mirrors

Convex spotter Convex spotter in driver and passenger side door mirrors Turn signal in door mirrorsTurn signal indicator in door mirrors

Spare Tire

Spare tire Full-size spare tire with steel wheel Spare tire location Crank-down spare tire

Tires

Front tires LT load rating E Rear tires LT load rating E

Wheels

Wheel covers Wheel hub covers

Convenience

Door Locks

Door locks Power door locks with 2 stage unlocking Keyfob door locks Keyfob activated door locks
All-in-one keyAll-in-one remote fob and ignition key Tailgate control Power tailgate/rear door lock

Cruise Control

Cruise control Cruise control with steering wheel mounted controls

Key Fob Controls

Fob remote vehicle controls FordPass Connect smart device vehicle start control

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Selected Equip & Specs (cont'd)

Rear View Mirror

Day/Night rearview mirror Day/Night rearview mirror

Exterior Mirrors

Door mirrors Power door mirrors Folding door mirrors Manual folding door mirrors
Heated door mirrors Heated driver and passenger side door mirrors

Front Side Windows

First-row windows Power first-row windows

Overhead Console

Overhead console Full overhead console Overhead console storage Overhead console storage

Passenger Visor

Visor passenger mirror ... Passenger visor mirror

Power Outlets

12V power outlets 2 12V power outlets

Pickup Box

Boxside steps Integrated side steps

Rear Windshield

Rear windshield Fixed rear windshield

Storage

Number of beverage holders... 8 beverage holders Beverage holders Front beverage holders
Beverage holders rear Rear beverage holders Glove box Illuminated locking glove box
Illuminated glove box Illuminated glove box Instrument panel storage Instrument panel covered bin
Dashboard storage Dashboard storage

Windows Feature

One-touch up window Driver and passenger one-touch up windows One-touch down window ... Driver and passenger one-touch down windows

Windows Rear Side

Second-row windows Power second-row windows

Miscellaneous

Trip computer Trip computer PRND in IP PRND in IP

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Selected Equip & Specs (cont'd)

Accessory power Retained accessory power Over the air updates Over the air updates

Comfort

Climate Control

Climate control Manual climate control Cabin air filter Cabin air filter
Rear under seat ducts ... Rear under seat climate control ducts

Headliner

Headliner material Cloth headliner material Headliner coverage Full headliner coverage

Floor Trim

Floor covering Full vinyl floor covering Floor coverage Full floor coverage

Second-Row Seat Trim

Rear seat upholstery .. Vinyl rear seat upholstery Rear seatback upholstery ... Carpet rear seatback upholstery

Steering Wheel

Steering wheel material Urethane steering wheel Steering wheel telescopic Manual telescopic steering wheel
Steering wheel tilt .. Manual tilting steering wheel

Seats and Trim

Seat Capacity

Seating capacity 6

Front Seats

Front seat type Split-bench front seat Driver seat direction Driver seat with 4-way directional controls
Driver seat fore/aft control Manual driver seat fore/aft control Passenger seat direction ... Front passenger seat with 4-way directional controls
Split front seats 40-20-40 split-bench front seat Reclining passenger seat Manual reclining passenger seat
Passenger seat fore/aft control Manual passenger seat fore/aft control Front head restraints Height adjustable front seat head restraints
Front head restraint control Manual front seat head restraint control Armrests front center ... Front seat center armrest
Armrests front storage Front seat armrest storage Reclining driver seat Manual reclining driver seat

Rear Seats

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Selected Equip & Specs (cont'd)

Bench seats	Split-bench rear seat	Rear seats fixed or removable	Fixed rear seats
Folding second-row seats	60-40 folding rear seats	Rear seat direction	Front facing rear seat
Rear seat folding position	Fold-up rear seat cushion	Rear head restraints	Height adjustable rear seat head restraints
Rear head restraint control	Manual rear seat head restraint control	Number of rear head restraints	3 rear seat head restraints

Lumbar Seats

Driver lumbar	Manual driver seat lumbar
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Front Seat Trim

Front seat upholstery	Vinyl front seat upholstery	Front seatback upholstery	Vinyl front seatback upholstery
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Interior Accents

Interior accents	Chrome interior accents
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Gearshifter Material

Gearshifter material	Urethane gear shifter material
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Entertainment Features

Displays

Primary touchscreen display	Primary touchscreen display	Number of first-row displays	2 total number of 1st row displays
Primary display size	8 inch primary display		

Radio Features

External memory	SYNC 4 external memory control	Seek scan	Seek scan
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Speakers

Speakers	Standard grade speakers	Speakers number	6
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Audio Features

Steering mounted audio control	Steering wheel mounted audio controls	Speed sensitive volume	Speed sensitive volume
Voice activated audio	SYNC 4 voice activated audio controls	Wireless streaming	Bluetooth wireless audio streaming

Lighting, Visibility and Instrumentation

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Selected Equip & Specs (cont'd)

Instrumentation

Trip odometer	Trip odometer	Instrumentation display	Digital/analog instrumentation display
Configurable instrumentation gauges	Configurable instrumentation gauges		

Instrumentation Displays

Temperature display	Exterior temperature display	Driver information center	Driver information center
Clock	In-radio display clock	Compass	Compass

Instrumentation Gauges

Tachometer	Tachometer	Oil pressure gauge	Oil pressure gauge
Transmission temperature gauge	Transmission fluid temperature gauge	Engine/electric motor temperature gauge	Engine/electric motor temperature gauge
Gauge cluster display size (inches)	4.20	Engine hour meter	Engine hour meter

Instrumentation Warnings

Engine temperature warning	Engine temperature warning	Oil pressure warning	Oil pressure warning
Low fuel warning	Low fuel warning	Low brake fluid warning	Low brake fluid warning
Battery charge warning	Battery charge warning	Headlights on reminder	Headlights on reminder
Key in vehicle warning	Key in vehicle warning	Door ajar warning	Door ajar warning
Service interval warning	Service interval indicator	Low tire pressure warning	Tire specific low air pressure warning

Glass

Tinted windows	Light tinted windows
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Headlights

Headlights	Halogen headlights	Headlight type	Reflector headlights
Auto headlights	Autolamp auto on/off headlight control	Multiple headlights	Multiple enclosed headlights
Delay off headlights	Delay-off headlights	DRL preference setting	DRL preference setting

Front Windshield

Wipers	Variable intermittent front windshield wipers
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Interior Lighting

Illuminated entry	Illuminated entry	Variable panel light	Variable instrument panel light
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Selected Equip & Specs (cont'd)

Front reading lights	Front reading lights	Rear reading lights	Rear reading lights
<i>Lights</i>			
Running lights	Daytime running lights	Interior courtesy lights	Fade interior courtesy lights
High mount stop light	High mounted center stop light	Pickup box cargo light	Pickup box cargo light
Perimeter approach lighting	Remote activated perimeter approach lighting		

Technology and Telematics

<i>Connectivity</i>			
Handsfree	SYNC 4 handsfree wireless device connectivity	Smart device integration	Smart device wireless mirroring
Emergency SOS	SYNC 4 911 Assist emergency SOS system via mobile device		
<i>Internet Access</i>			
Internet access	FordPass Connect 5G mobile hotspot internet access		
<i>USB Ports</i>			
USB ports	2 USB ports		

Safety and Security

<i>Airbags</i>			
Front impact airbag driver	Driver front impact airbag	Number of airbags	6 airbags
Front impact airbag passenger	Passenger front impact airbag	Front side impact airbag driver	Seat mounted side impact driver airbag
Front side impact airbag passenger	Seat mounted side impact front passenger airbag	Overhead airbags	Safety Canopy System curtain first and second-row overhead airbags
<i>Seatbelts</i>			
3-point seatbelt	Rear seat center 3-point seatbelt	Height adjustable seatbelts	Front height adjustable seatbelts
<i>Security System</i>			
Immobilizer	SecuriLock immobilizer	Remote panic alarm	Remote panic alarm
<i>Cameras</i>			

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Note: Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.



Prepared by: Ed Miller
10/03/2024

Chastang Ford | 6200 N. Loop East Houston Texas | 770261936

2024 F-250 4x4 SD Crew Cab 8' box 176" WB SRW XL (W2B)

Price Level: 430 | Quote ID: HEW25W2BL

Selected Equip & Specs (cont'd)

Rear camera Rear mounted camera

Traction Control

Electronic stability control AdvanceTrac w/Roll
Stability Control electronic stability control
system with anti-rollover

Occupant Safety

Child door locks Manual rear child safety door
locks

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

Note: Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.



2024 F-250 4x4 SD Crew Cab 8' box 176" WB SRW XL (W2B)

Price Level: 430 | Quote ID: HEW25W2BL

Warranty

Standard Warranty

Basic Warranty

Basic warranty 36 months/36,000 miles

Powertrain Warranty

Powertrain warranty 60 months/60,000 miles

Corrosion Perforation

Corrosion perforation warranty 60 months/unlimited

Roadside Assistance Warranty

Roadside warranty 60 months/60,000 miles

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

Note: Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.



COUNCIL AGENDA ITEM FORM

MEETING DATE: October 21, 2024

AGENDA ITEM #: 8.

SUBMITTED BY: Jonathan Christian, Fire Chief

ITEM DESCRIPTION:

Discussion and possible action on purchasing a Fire Engine with an approximate three-year lead time.

STAFF RECOMMENDATION/ITEM SUMMARY:

Due to the current lead time on purchasing a fire apparatus, we are asking to move forward with purchasing an engine to replace the current Engine 1. Engine 1 is 12 years old and will be at the end of its recommended front-line life span of 15 years. The current wait time for an engine is approximately 3+ years. The purchase of a replacement engine through the HGAC purchasing contract will allow for financial savings and provide appropriate timing for replacing Engine 1 and moving the current Engine 1 to reserve status.

FISCAL IMPACT:

Amount requested - \$998,547.04
Budget Funding - CO Bond

SUGGESTED MOTION:

I move to authorize the City Manager or his designee to purchase a Fire Engine in the amount of \$998,547.04 from Siddons Martin Emergency Group, LLC.

ATTACHMENTS:

1. Proposal - Hewitt Enforcer Pumper_Prepay
2. 40170AD_AS BUILT
3. ProposalDetailAll
4. ProposalOptionListAll
5. Proposal - Hewitt Enforcer Pumper

Siddons Martin Emergency Group, LLC
3500 Shelby Lane
Denton, TX 76207
GDN P115891
TXDOT MVD No. A115890

September 20, 2024

Jonathan Christian, Fire Chief
HEWITT FIRE DEPARTMENT
100 PATRIOT CT
HEWITT, TX 76643



Proposal For: 2024 Hewitt Pumper

Siddons-Martin Emergency Group, LLC is pleased to provide the following proposal to HEWITT FIRE DEPARTMENT. Unit will comply with all specifications attached and made a part of this proposal. Total price includes delivery FOB HEWITT FIRE DEPARTMENT and training on operation and use of the apparatus.

Description	Amount
Qty. 1 - 1163 - Pierce-Custom Enforcer Pumper, 2nd Gen	
(Unit Price - \$1,112,059.00)	
Delivery within 37-38 months of order date	
QUOTE # - SMEG-0008363-0	
Vehicle Price	\$1,112,059.00
Chassis Prepay Discount	(\$16,425.40)
Full Prepay Discount	(\$99,086.56)
1163 - UNIT TOTAL	\$996,547.04
SUB TOTAL	\$996,547.04
HGAC FS12-23 (FIRE)	\$2,000.00
TOTAL	\$998,547.04

Price guaranteed until 10/31/2024

Additional: '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.

Persistent Inflationary Environment Notification: If the Producer Price Index of Components for Manufacturing [www.bls.gov Series ID: WPUID6112] (the "PPI") has increased at a compounded annual growth rate greater than 5.0% from the date of acceptance of this proposal letter (the "Order Month") and 14 months prior to the anticipated Ready for Pickup Date (the "Evaluation Month"), then the proposal price may be increased by an amount equal to any increase exceeding 5.0% for the time period between the Order Month and the Evaluation Month. Siddons Martin and Pierce will provide documentation of

such increase and the updated price for the customer's approval before proceeding with completion of the order along with an option to cancel the order.'

Taxes: Tax is not included in this proposal. In the event that the purchasing organization is not exempt from sales tax or any other applicable taxes and/or the proposed apparatus does not qualify for exempt status, it is the duty of the purchasing organization to pay any and all taxes due. Balance of sale price is due upon acceptance of the apparatus at the factory.

Late Fee: A late fee of .033% of the sale price will be charged per day for overdue payments beginning ten (10) days after the payment is due for the first 30 days. The late fee increases to .044% per day until the payment is received. In the event a prepayment is received after the due date, the discount will be reduced by the same percentages above increasing the cost of the apparatus.

Cancellation: In the event this proposal is accepted and a purchase order is issued then cancelled or terminated by Customer before completion, Siddons-Martin Emergency Group may charge a cancellation fee. The following charge schedule based on costs incurred may be applied:

- (A) 10% of the Purchase Price after order is accepted and entered by Manufacturer;
- (B) 20% of the Purchase Price after completion of the approval drawings;
- (C) 30% of the Purchase Price upon any material requisition.

The cancellation fee will increase accordingly as costs are incurred as the order progresses through engineering and into manufacturing. Siddons-Martin Emergency Group endeavors to mitigate any such costs through the sale of such product to another purchaser; however, the customer shall remain liable for the difference between the purchase price and, if applicable, the sale price obtained by Siddons-Martin Emergency Group upon sale of the product to another purchaser, plus any costs incurred by Siddons-Martin to conduct such sale.

Acceptance: In an effort to ensure the above stated terms and conditions are understood and adhered to, Siddons-Martin Emergency Group, LLC requires an authorized individual from the purchasing organization sign and date this proposal and include it with any purchase order. Upon signing of this proposal, the terms and conditions stated herein will be considered binding and accepted by the Customer. The terms and acceptance of this proposal will be governed by the laws of the state of Texas. No additional terms or conditions will be binding upon Siddons-Martin Emergency Group, LLC unless agreed to in writing and signed by a duly authorized officer of Siddons-Martin Emergency Group, LLC.

Sincerely,

Brian Peters

Brian Peters

I, _____, the authorized representative of HEWITT FIRE DEPARTMENT, agree to purchase the proposed and agree to the terms of this proposal and the specifications attached hereto.

Signature & Date

PUMPER

BODY

Long Aluminum 2nd Gen Pumper

CHASSIS

Enforcer Chassis

CHASSIS

AXLE, FRONT, CUSTOM

19,500 Lb TAK-4 Axle

AXLE, REAR

27,000 Lb Dana Axle

ENGINE

510 HP Paccar MX13 Engine

TRANSMISSION

Allison 6th Gen, 4000 EVS P

BUMPER

19" Extended Painted Steel

CAB

7010 Enforcer Cab

BODY

WATER TANK

750 Gallon New York Style Water Tank

COMPT, PUMPER, REAR

30.75" FF RollUp Rear Compt

COMPT, PUMPER, LEFT SIDE

161" RollUp Full Height Front & Rear FDLER

COMPT, PUMPER, RIGHT SIDE

161" RollUp Full Height Front & Rear - LSBIB

FIRE SUPPRESSION

PUMPHOUSE

48" Control Zone Side Mount

PUMP

1500 GPM Darley PSM

CROSSLAYS, 1.50"

1.50" Crosslays Not Required

CROSSLAYS, 2.50"

2.50" Crosslay Not Required

SPEEDLAYS

(2) 1.50" W/Tray Spcl. Capacity

GENERATOR

Generator Not Required

Foam System

FoamPro 1600 Single Agent Foam System

Foam Cell

20 Gallon Foam Cell, Reduced Water

Side Roll and Frontal Impact Protection

NOTE
DIMENSIONS SHOWN ARE APPROXIMATE AND ARE SUBJECT TO MINOR DEVIATIONS AS MAY OCCUR OR BE NECESSARY IN CONSTRUCTION.
MINOR DETAILS NOT SHOWN.

- 1. ONE 1.50" OUTLET WITH 2.00" PIPING AND SWIVEL LOCATED PER SHOP ORDER
- 2. SHORELINE RECEPTACLE WITH KUSSMAUL SUPER AUTO-EJECT LOCATED PER SHOP ORDER
- 3. AIR INLET WITH DISCONNECT COUPLING LOCATED PER SHOP ORDER
- 4. BATTERY CHARGER LOCATED PER ORDER
- 5. FIVE ADJUSTABLE SHELVES LOCATED PER ORDER
- 6. THREE FLOOR MOUNTED SLIDE-OUT TRAYS LOCATED PER ORDER
- 7. 120V 6-PLACE RECEPTACLE STRIP LOCATED PER SHOP ORDER
- 8. ONE CTECH THREE DRAWER ASSEMBLY LOCATED PER SHOP ORDER
- 9. TWO SWING-OUT TOOLBOARDS WITH PEGBOARD PATTERNS LOCATED PER SHOP ORDER
- 10. SIX PEGBOARDS MOUNTED ON THE BACK WALLS LOCATED PER SHOP ORDER

- 11. BOOSTER REEL MODEL: HANNAY EF34-23-24 WITH CAPACITY FOR 200' OF 1.00" HOSE LOCATED IN COMPARTMENT B1

The diagram illustrates the dimensions and components of a Pierce Pumper truck. It includes three main views: a side view, a front view, and a rear view. The side view shows the overall length of 126.00 (10'-6") and the height of 96.00. It labels various components such as the backboard storage compartment, wheels, lights, and mirrors. The front view shows the width of 72.00 and the height of 96.00. It labels the headlights, mirrors, and the front grille. The rear view shows the width of 72.00 and the height of 96.00. It labels the rear lights, mirrors, and the rear grille. The diagram also includes a section titled 'HOSEBED CAPACITY' which lists the capacity for four different hose beds. The side view also includes a section titled 'BODY WATER TANK' which lists the capacity for four different water tanks. The rear view also includes a section titled 'COMPT, PUMPER, REAR' which lists the capacity for four different compartments. The diagram is a detailed technical drawing with many dimensions and labels.

 MANUFACTURING INC.		JOB NO.	40170
		SCALE	DATE
		1:24	
		DRAWN BY	JJB
		24JUL23	
		CHECKED BY	MMF
		24JUL23	
		SHEET SIZE	SHEET NO.
		D	1 OF 1

		CHASSIS DATA		TITLE	Pierce Pumper Approval Drawing
		MAKE		FOR	Hewitt Fire Department
		MODEL		DWG NO.	40170AD
		ENFORCER			

REV	DATE	BY	CH
13DEC23	JJB	DTJ	
05OCT23	JJB	DTJ	

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Proposal Details Report

9/19/2024

Customer: Hewitt, TX Fire Department
Representative Peters, Brian
Requirements Manager:
Description: 2024 Hewitt Pumper
Chassis: Enforcer Chassis
Body: Pumper, Long, Aluminum, 2nd Gen

Bid Number: 1163
Job Number:
Organization: Siddons-Martin Emergency Group

OptionCode	Type	Option	ProposalText
0766611		Boiler Plates, Pumper	Siddons-Martin is pleased to submit a proposal to Hewitt Fire Department for a Pierce® triple combination pumper per your request for quotation. The following paragraphs will describe in detail the apparatus, construction methods, and equipment proposed. This proposal will indicate size, type, model and make of components parts and equipment, providing proof of compliance with each and every item (except where noted) in the departments advertised specifications. PIERCE MANUFACTURING was founded in 1913. Since then we have been building bodies with one philosophy, "BUILD THE FINEST". Our skilled craftsmen take pride in their work, which is reflected, in the final product. We have been building fire apparatus since the early "forties" giving Pierce Manufacturing over 75 years of experience in the fire apparatus market. Pierce Manufacturing has built and put into service more than 62,500 apparatus, including more than 33,900 on Pierce custom chassis designed and built specifically for fire and emergency applications. Our Appleton, Wisconsin facility has over 870,000 total square feet of floor space situated on approximately 105 acres of land. Our Bradenton, Florida facility has 300,000 square feet of floor space situated on approximately 38 acres of land. Our beliefs in high ethical standards are carried through in all of our commitments and to everyone with whom we do business. Honesty, Integrity, Accountability and Citizenship are global tenets by which we all live and work. Consequently, we neither engage in, nor have we ever been convicted of price fixing, bid rigging, or collusion in any domestic or international fire apparatus market. Pierce has only one brand of fire apparatus "Pierce", ensuring you are receiving top of the line product that meets your specification. In accordance with the current edition of applicable NFPA standards, this proposal will specify whether the fire department, manufacturer, or apparatus dealership will provide required loose equipment. Images and illustrative material in this proposal are as accurate as known at the time of publication, but are subject to change without notice. Images and illustrative material is for reference only, and may include optional equipment and accessories and may not include all standard equipment. GENERAL DESIGN AND CONSTRUCTION To control quality, ensure compatibility, and provide a single source for service and warranty, the custom cab, chassis, pump module and body will be entirely designed, assembled/welded and painted in Pierce owned manufacturing facilities. This includes, but not limited to the cab weldment, the pumphouse module assembly, the chassis assembly, the body and the electrical system. QUALITY AND WORKMANSHIP Pierce has set the pace for quality and workmanship in the fire apparatus field. Our tradition of building the highest quality units with craftsmen second to none has been the rule right from the beginning and we demonstrate that ongoing commitment by: Ensuring all steel welding follows American Welding Society D1.1-2004 recommendations for structural steel welding. All aluminum welding follows American Welding society and ANSI D1.2-2003 requirements for structural welding of aluminum. All sheet metal welding follows American welding Society B2.1-2000 requirements for structural welding of sheet metal. Our flux core arc welding uses alloy rods, type 7000 and is performed to American Welding Society standards A5.20-E70T1. Furthermore, all employees classified as welders are tested and certified to meet the American welding Society codes upon hire and every three (3) years thereafter. Pierce also employs and American Welding Society certified welding inspector in plant during working hours to monitor weld quality. Pierce Manufacturing operates a Quality Management System under the requirements of ISO 9001. These standards sponsored by the International Organization for Standardization (ISO) specify the quality systems that are established by the manufacturer for design, manufacture, installation and service. A copy of the certificate of compliance is included with this proposal. In addition to the Quality Management system, we also employ a Quality Achievement Supplier program to ensure the vendors and suppliers that we utilize meet the high standards we demand. That is just part of our overall "Quality at the Source" program at Pierce. To demonstrate the quality of our products and services, a list of at least two (2) fire departments/municipalities that have purchased vehicles for a second time is provided. DELIVERY The apparatus will be delivered under its own power to ensure proper break-in of all components while the apparatus is still under warranty. A qualified delivery representative shall deliver the apparatus and remain for a sufficient length of time to instruct personnel in proper operation, care and maintenance of the equipment delivered. MANUAL AND SERVICE INFORMATION At time of delivery, complete operation and maintenance manuals covering the apparatus will be provided. A permanent plate will be mounted in the driver's compartment specifying the quantity and type of fluids required including engine oil, engine coolant, transmission, pump transmission lubrication, pump primer and drive axle. SAFETY VIDEO At the time of delivery Pierce will also provide one (1) 39-minute, professionally produced apparatus safety video, in DVD format. A link to the video is also available on the Pierce Training website. This video will address key safety considerations for personnel to follow when they are driving, operating, and maintaining the apparatus, including the following: vehicle pre-trip inspection, chassis operation, pump operation, aerial operation, and safety during maintenance. PERFORMANCE TESTS A road test will be conducted with the apparatus fully loaded and a continuous run of no less than ten (10) miles. During that time the apparatus will show no loss of power nor will it overheat. The

transmission drive shaft or shafts and the axles will run quietly and be free of abnormal vibration or noise. The apparatus when fully loaded will not have less than 25 percent nor more than 50 percent on the front axle, and not less than 50 percent nor more than 75 percent on the rear axle. The apparatus will meet the current edition of applicable NFPA standards acceleration and braking requirements.

SERVICE AND WARRANTY SUPPORT

Pierce dealership support will be provided by Siddons-Martin by operating in conjunction with a Pierce authorized service center. The service center will have factory-trained mechanics on staff versed in Pierce fire apparatus. The service facility will be located within seventy five (75) miles of the fire department.

In addition to the dealership, Pierce has service facilities located in both, Weyauwega, Wisconsin and Bradenton, Florida. Pierce also maintains a dedicated parts facility of over 100,000 square feet in Appleton, Wisconsin. The parts facility stocks in excess of \$5,000,000 in parts dedicated to service and replacement parts. The parts facility employs a staff dedicated solely for the distribution and shipment of service and replacement parts.

Service parts for the apparatus being proposed can be found via Pierceparts.com which, is an interactive online tool that delivers information regarding your specific apparatus as well as the opportunity to register for training classes.

As a Pierce customer you have the ability to view the complete bill of materials for your specific apparatus, including assembly drawings, piece part drawings, and beneficial parts notations. You will also have the ability to search the complete Pierce item master through a parts search function which offers all Pierce SKU's and descriptions offered on all Pierce apparatus. Published component catalogs, which include proprietary systems along with an extensive operator's manual library is available for easy reference.

Pierce Manufacturing maintains a dedicated service and warranty staff of over 35 personnel, dedicated to customer support, which also maintains a 24 hour 7 day a week toll free hot line, four (4) on staff EVTs, and offers hands-on repair and maintenance training classes multiple times a year.

LIABILITY

The successful bidder will defend any and all suits and assume all liability for the use of any patented process including any device or article forming a part of the apparatus or any appliance furnished under the contract.

INSURANCE PROVIDED BY BIDDER

COMMERCIAL GENERAL LIABILITY INSURANCE

The successful bidder will, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of commercial general liability insurance:

Each Occurrence \$1,000,000

Products/Completed Operations Aggregate \$1,000,000

Personal and Advertising Injury \$1,000,000

General Aggregate \$2,000,000

Coverage will be written on a Commercial General Liability form. The policy will be written on an occurrence form and will include Contractual Liability coverage for bodily injury and property damage subject to the terms and conditions of the policy. The policy will include Owner as an additional insured when required by written contract.

COMMERCIAL AUTOMOBILE LIABILITY INSURANCE

The successful bidder will, during the performance of the contract, keep in force at least the following minimum limits of commercial automobile liability insurance and coverage will be written on a Commercial Automobile liability form:

Each Accident Combined Single Limit: \$1,000,000

UMBRELLA/EXCESS LIABILITY INSURANCE

The successful bidder will, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of umbrella liability insurance:

Aggregate: \$3,000,000

Each Occurrence: \$3,000,000

The umbrella policy will be written on an occurrence basis and at a minimum provide excess to the bidder's General Liability and Automobile Liability policies.

The required limits can be provided by one (1) or more policies provided all other insurance requirements are met.

Coverage will be provided by a carrier(s) rated A- or better by A.M. Best.

All policies will provide a 30-day notice of cancellation to the named insured. The Certificate of Insurance will provide the following cancellation clause: Should any of the above described policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions.

Bidder agrees to furnish owner with a current Certificate of Insurance with the coverages listed above along with the bid. The certificate will show the purchaser as certificate holder.

INSURANCE PROVIDED BY MANUFACTURER

PRODUCT LIABILITY INSURANCE

The manufacturer will, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of Product Liability insurance:

Each Occurrence \$1,000,000

Products/Completed Operations Aggregate \$1,000,000

Coverage will be written on a Commercial General Liability form. The policy will be written on an occurrence form. The manufacturer's policy will include the owner as additional insured when required by written contract between the Owner and a Pierce authorized dealer.

UMBRELLA/EXCESS LIABILITY INSURANCE

The manufacturer will, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of umbrella liability insurance:

Each Occurrence: \$25,000,000

Aggregate: \$25,000,000

The umbrella policy will be written on an occurrence basis and provide excess to the manufacturer's General Liability/Products policies.

The required limits can be provided by one (1) or more policies provided all other insurance requirements are met.

Coverage will be provided by a carrier(s) rated A- or better by A.M. Best. All policies will provide a 30-day notice of cancellation to the named insured. The Certificate of Insurance will provide the following cancellation clause: Should any of the above described policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions. Manufacturer agrees to furnish owner with a current Certificate of Insurance with the coverages listed above along with the bid. The certificate will show the purchaser as the certificate holder.

0661794	Single Source Compliance	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, pumphouse (including the sheet metal enclosure, valve controls, piping and operators panel) and body 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.
0584456	Manufacture Location, Appleton, Wisconsin	Your apparatus will be manufactured in Appleton, Wisconsin.
0584452	RFP Location: Appleton, Wisconsin	
0588609	Vehicle Destination, US	
0764706	SP BMP Truck- Pre-Approval at Bid - Approved Option will be Required at Booking	
0816491	Comply NFPA 1900 Changes Effective Jan 1, 2024, With Exceptions	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.
0533347	Pumper/Pumper with Aerial Device Fire Apparatus	
0588611	Vehicle Certification, Pumper	
0661778	Agency, Apparatus Certification, Pumper/Tanker, U.L.	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". PUMP TEST Underwriters Laboratory (UL) will test, approved, and certify the pump. The test results and the pump manufacturer's certification of hydrostatic test; the engine manufacturer's certified brake horsepower curve; and the pump manufacturer's record of pump construction details will be forwarded to the Fire Department. GENERATOR TEST If the unit has a generator, Underwriters Laboratory (UL) will test, approved, and certify the generator. 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 have the sample certified that the air quality meets the requirements of NFPA 1989, <i>Standard on Breathing Air Quality for Fire and Emergency Services Respiratory Protection</i>.

0816495	Certification, Vehicle Inspection Program, NFPA 1900	VEHICLE INSPECTION PROGRAM CERTIFICATION To assure the vehicle is built to current NFPA1900 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.
0620362	Consortium, HGAC	
0537375	Unit of Measure, US Gallons	
0030006	Bid Bond Not Requested	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.
0816849	Performance Bond, Not Requested	PERFORMANCE BOND NOT REQUESTED A performance bond will not be included. If requested at a later date, one will be provided to you for an additional cost and the following will apply: 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.
0000007	Approval Drawing	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.
0002928	Electrical Diagrams	ELECTRICAL WIRING DIAGRAMS Two (2) electrical wiring diagrams, prepared for the model of chassis and body, will be provided.
0649754	Enforcer Chassis	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.

0000110	Wheelbase	WHEELBASE The wheelbase of the vehicle will be 210.50".
0000070	GVW Rating	GVW RATING The gross vehicle weight rating will be 46,500.
0729280	Frame Rails, 13.38 x 3.50 x .375, Enforcer	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.
0889469	Frame Liner, "C/Inv L" 12.50" x 3.00" x .25", AXT/Vel/Imp/Enf, 56" QVal	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.
0630705	Axle, Front, Oshkosh TAK-4, Non Drive, 19,500 lb, Enforcer	FRONT NON DRIVE AXLE The Oshkosh TAK-4® front axle will be of the independent suspension design with a ground rating of 19,500 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 must 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.
0030264	Suspension, Front TAK-4, 19,500 lb, Qtm/AXT/Imp/Vel/Enf/SFR	FRONT SUSPENSION Front Oshkosh TAK-4™ independent suspension will be provided with a minimum ground rating of 19,500 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.
0087572	Shock Absorbers, KONI, TAK-4, Qtm/AXT/Imp/Vel/DCF/Enf	FRONT SHOCK ABSORBERS KONI heavy-duty telescoping shock absorbers will be provided on the front suspension.
0000322	Oil Seals, Front Axle	FRONT OIL SEALS Oil seals with viewing window will be provided on the front axle.

0802633	Tires, Front, Goodyear, Armor Max MSA, 385/65R22.50, 18 ply, Fire Ser. Load Rtg	FRONT TIRES Front tires will be Goodyear 385/65R22.5 radials, 18 ply Armor Max MSA tread, rated for 20,050 lb maximum axle load and 68 mph maximum speed.
0604672	Wheels, Front, Accuride, 22.50" x 12.25", Steel, Hub Pilot	The tires will be mounted on Accuride® 22.50" x 12.25" steel disc type wheels with a ten (10) stud, 11.25" bolt circle.
0640711	Axle, Rear, Dana S26-190, 27,000 lb Saber/Enforcer	REAR AXLE The rear axle will be a Dana, Model S26-190, with a capacity of 27,000 lb.
0544253	Top Speed of Vehicle, 68 MPH /109 KPH	TOP SPEED OF VEHICLE A rear axle ratio will be furnished to allow the vehicle to reach a top speed of 68 mph / 109 kph.
0565380	Suspen, Rear, Single Slipper Spring, 27,000 lb, Saber/Enforcer	REAR SUSPENSION The rear suspension will be Standens, semi-elliptical, 3.00" wide x 52.50" long, 12-leaf pack with a ground rating of 27,000 lb. The spring hangers will be castings. The two (2) top leaves will wrap the forward spring hanger pin, and the rear of the spring will be a slipper style end that will ride in a rear slipper hanger. A steel encased rubber bushing will be used in the spring eye. The steel encased rubber bushing will be maintenance free and require no lubrication.
0000485	Oil Seals, Rear Axle	REAR OIL SEALS Oil seals will be provided on the rear axle(s).
0824971	Tires, Rear, Goodyear, G622 RSD, 12R22.50, 16 ply, Single	REAR TIRES Rear tires will be four (4) Goodyear® 12R22.50 radials, 16 ply all season G622 RSD tread, rated for 27,120 lb maximum axle load and 75 mph maximum speed.
0654806	Wheels, Rear, Accuride, 22.50" x 8.25", Steel, Hub Pilot, Single	The tires will be mounted on Accuride® 22.50" x 8.25" steel disc type wheels with a ten (10) stud, 11.25" bolt circle.
0568081	Tire Balancing, Counteract Beads	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.
0620570	Tire Pressure Monitoring, RealWheels, AirSecure, Valve Cap, Single Axle	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 six (6) 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.
0801909	Lug Nut, Covers, Chrome	CHROME LUG NUT COVERS Chrome lug nut covers will be supplied on front and rear wheels.
0002045	Mud Flap, Front and Rear, Pierce Logo	MUD FLAPS Mud flaps with a Pierce logo will be installed behind the front and rear wheels.
0617577	Chocks, Wheel, Worden HWG- SB, Super Gripper	WHEEL CHOCKS There will be one (1) pair of Worden Safety Products, Model HWG-SB, wheel chocks provided. Heavy Duty, large molded aluminum wheel chock with solid bottom, natural cast aluminum finish.
0646364	Mounting Brackets, Chocks, Worden Safety, Model U815T	WHEEL CHOCK BRACKETS There will be one (1) pair of Worden Safety, Model U815T, mounting wheel chock brackets provided. The brackets will be mounted Ahead of DS rear wheels.

0820509	ESC/ABS/ATC Wabco Brake System, Single Rear Axle, NFPA 1900/ULC	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 4S4M, anti-lock braking system. The ABS will provide a four (4) 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.
0030185	Brakes, Knorr/Bendix 17", Disc, Front, TAK-4	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.
0627930	Brakes, Bendix, Cam, Rear, 16.50 x 8.63"	The rear brakes will be Bendix™ 16.50" x 8.63" cam operated with automatic slack adjusters.
0735527	Air Compressor, Brake, Wabco 26.8 CI, Paccar	AIR COMPRESSOR, BRAKE SYSTEM The air compressor will be a Wabco single piston compressor with a 26.8 CI displacement.
0644232	Brake Reservoirs, 4,272 Cubic Inch Minimum Capacity, Saber FR/Enforcer	BRAKE SYSTEM The brake system will include: - Brake treadle valve - Heated automatic moisture ejector on air dryer - Total air system minimum capacity of 4,272 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, 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 same as frame color. - To reduce the effects of corrosion, the air tank will be mounted with stainless steel brackets.
0568012	Air Dryer, Wabco System Saver 1200, Heater, 2010	BRAKE SYSTEM AIR DRYER The air dryer will be WABCO System Saver 1200 with spin-on coalescing filter cartridge and 100 watt heater.
0000790	Brake Lines, Nylon	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.

0617799	Inlet/Outlet, Air, w/Disconnect Fitting, 1/4 Turn Valve, Location	AIR INLET/OUTLET One (1) air inlet/outlet will be installed with the female coupling located Lower Left corner of DS Pump Panel below speedlay. This system will tie into the "wet" tank of the brake system and include a check valve in the inlet line and an 85 psi pressure protection valve in the outlet line. The air outlet will be controlled by a 1/4 turn valve. A mating male fitting will be provided with the loose equipment. The air inlet will allow a shoreline air hose to be connected to the vehicle. This will allow station air to be supplied to the brake system of the vehicle to insure constant air pressure.
0014130	Air Tank, Additional for Extra Air Horn Capacity	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.
0808515	Engine, Paccar MX, 510HP, 1850 lb-ftW/OBD, EPA 2027, Saber FR/Enforcer	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.
0811409	Not Required, Engine Contingency Adjustment	
0001244	High Idle w/Electronic Engine, Custom	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."
0735687	Engine Brake, Fully Integrated, Paccar MX13 Engine	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.
0644227	Clutch, Fan, Air Actuated, Saber FR/Enforcer	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.

0640477	Air Intake, Metal Screen, Saber FR/Enforcer	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. A stainless steel metal screen will be installed at the inlet of the air intake system that will meet current edition of applicable NFPA standards. The air cleaner and stainless steel screen will be easily accessible by tilting the cab.
0814375	Exhaust System, Horizontal, Right Side	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.
0788765	Radiator, Saber FR/Enforcer	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.
0001090	Cooling Hoses, Rubber	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.
0001125	Fuel Tank, 65 Gallon, Left Side Fill	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 eliminate the effects of corrosion, the fuel tank will be mounted with stainless steel straps. A 0.75" drain plug will be located in a low point of the tank for drainage. A fill inlet will be located on the left hand side of the body and is 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 installed from tank top to just below fuel fill inlet. The fuel tank will meet all FHWA 393.67 requirements including a fill capacity of 95 percent of tank volume.
0001129	Lines, Fuel	All fuel lines will be provided as recommended by the engine manufacturer.
0734655	DEF Tank, 7.3 Gallon, LS Fill, Under Cab, Paccar, Fill Dr, ENF	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 door will be vertically hinged and secured by a SouthCo C2 black raised trigger lever latch and be painted. The tank will meet the engine manufacturers requirement for 10 percent expansion space in the event of tank freezing. The tank will include an integrated heater unit that utilizes engine coolant to thaw the DEF in the event of freezing.
0552793	Not Required, Fuel Priming Pump	
0552712	Not Required, Shutoff Valve, Fuel Line	

0699437	Cooler, Chassis Fuel, Not Req'd.	
0011125	Door, Fuel Fill Painted Job Color	FUEL FILL DOOR Fuel fill door will be painted job color.
0690880	No Selection Required From This Category	
0887546	Trans, Allison 6th Gen, 4000 EVS P, w/Prognostics, Imp/Vel/SFR/Enf	TRANSMISSION An Allison 6th generation, Model EVS 4000P, 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 an amber light and buzzer will be installed on the cab instrument panel.
0625331	Transmission, Shifter, 6-Spd, Push Button, 4000 EVS	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 3.51 to 1.00 2nd 1.91 to 1.00 3rd 1.43 to 1.00 4th 1.00 to 1.00 5th 0.75 to 1.00 6th 0.64 to 1.00 R 4.80 to 1.00
0684459	Transmission Oil Cooler, Modine, External	TRANSMISSION COOLER A Modine plate and fin transmission oil cooler will be provided using engine coolant to control the transmission oil temperature.
0630574	Informational, Transmission Program, Shift To Neutral w/Prk Brk	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.
0001375	Driveline, Spicer 1810	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.
0734211	Steering, Sheppard M110 w/Tilt, TAK-4, Paccar Pump, w/Cooler, Paccar	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.
0605356	Steering Wheel, 4 Spoke without Controls, Saber FR/Enforcer	STEERING WHEEL The steering wheel will be 18.00" in diameter, have tilting and telescoping capabilities, and a 4-spoke design.
0690274	Logo/Emblem, on Dash	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: Hewitt The second row of text will be: Fire The third row of text will be: Department

0606441	Bumper, 19" Extended, Steel Painted, Saber FR/Enforcer	BUMPER A one (1)-piece bumper manufactured from 0.25" formed steel with a 0.38" bend radius will be provided. The bumper will be a minimum of 10.00" high with a 1.50" top and bottom flange, and will extend 19.00" from the face of the cab. The bumper will be 95.28" wide with 45 degree corners and side plates. The bumper will be metal finished and painted job color. To provide adequate support strength, the bumper will be mounted directly to the front of the C channel frame. The frame will be a bolted modular extension frame constructed of 50,000 psi tensile steel. Gravel Pan A gravel pan, constructed of bright aluminum treadplate, will be furnished between the bumper and the cab face. The pan will be properly supported from the underside to prevent flexing and vibration.
0637813	Tray, Hose, Center, 19" Bumper, Outside Air Horns, 15" Deep, 13" Below/2" Above	CENTER HOSE TRAY A hose tray, constructed of aluminum, will be placed in the center of the bumper extension. The tray will have a capacity of 150' of 1.75" double jacket cotton-polyester hose. No grating will be provided at the bottom of the tray. Drain holes are also provided.
0630809	Cover, Aluminum Treadplate, One (1) D-Ring Latch, Hose Tray, Notched	Center Hose Tray Cover A bright aluminum treadplate cover will be provided over the center hose tray. The cover will be "notched" allowing the hose to be pre connected to hose connection. The cover will be attached with a stainless steel hinge. A D-ring latch will secure the cover in the closed position and a pneumatic stay arm will hold the cover in the open position. The arm will be opposite of the notch.
0614646	No Lift & Tow Package, Imp/Vel, AXT, SFR/Enf	
0002270	Tow Hooks, Chrome	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.
0698960	Coating, Top Flange, Front Bumper, Outside Exterior, UL-LX Coating, Black	FRONT BUMPER UL-LX COATING Protective black UL-LX® coating will be provided on the outside exterior of the top front bumper flange. It will not be sprayed on the underside of the flange. The lining will be properly installed by an authorized UL-LX dealer.

0648332	Cab, Enforcer, 7010	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 0.090" front skin (for a total thickness of 0.22"), 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 0.25" thick cross-floor support providing a total thickness of 0.375" 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 70.00" 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 floor to ceiling height inside the crew cab will be 64.50" in the center and outboard positions. The crew cab floor will measure 46.00" 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 61.50" to the rear wall. The big block engine tunnel will measure 51.50" 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. 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.
0747442	Engine Tunnel, X12, MX13, Spray Insulation, Enforcer	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.
0887601	Cab Insulation, Enforcer/Saber FR	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.

0633594	Rear Wall, Interior, Adjustable Seating	INTERIOR CREW CAB REAR WALL ADJUSTABLE SEATING (PATENT PENDING) The interior rear wall of the crew cab will have mounting holes every 2.75" to allow for adjustability of the forward facing crew cab seating along the rear wall. Seats will be adjustable with use of simple hand tools allowing departments flexibility of their seating arrangement should their department needs change.
0632103	Rear Wall, Exterior, Cab, Saber FR/Enforcer	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.
0644201	Cab Lift, Elec/Hyd, Saber FR/Enforcer	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.
0695930	Grille, Bright Finished, Front of Cab, Enforcer	GRILLE A bright finished aluminum mesh grille screen, inserted behind a bright finished grille surround, will be provided on the front center of the cab.
0647932	Not Required, Trim, S/S Band, Across Cab Face, AXT/Saber/Enforcer	
0015440	No Chrome Molding, On side of cab	
0590424	Mirrors, Retractable, West Coast Style, Htd/Rmt, w/Htd/Rmt Convex, Black	MIRRORS A Retractable, Model 613422, dual vision, motorized, west coast style mirror with black finish will be mounted on each side of the front cab door with chrome spring loaded retractable arms. The flat glass and convex glass will be heated and adjustable with remote control within reach of the driver.
0648172	Door, Full Height, Saber FR/Enforcer 4-Door Cab, Raised Roof	DOORS To enhance entry and egress to the cab, the forward cab doors will be a minimum of 37.50" wide x 75.50" 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 85.50" 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 cab steps at each cab door location will be located inside the cab doors to protect the steps from weather elements.

0655543	Door Panel, Brushed Stainless Steel, Saber/Enforcer 4-Door Cab	Door Panels The inner cab door panels will be constructed out of brushed stainless steel.
0630636	Controls, Electric Roll-Up Windows, 4dr, 4 Driver Controls, Saber FR/Enforcer	ELECTRIC OPERATED CAB DOOR WINDOWS All four (4) cab doors will be equipped with electric operated windows with one (1) flush mounted automotive style switch on each door. The driver's door will have four (4) switches, one (1) to control each door window. Each switch will allow intermittent or auto down operation for ease of use. Auto down operation will be actuated by holding the window down switch for approximately 1 second.
0638310	Steps, 4-Door Cab, Saber FR/Enforcer	CAB STEPS The forward cab and crew cab access steps will be a full size two (2) step design to provide largest possible stepping surfaces for safe ingress and egress. The bottom steps will be designed with a grip pattern punched into bright aluminum treadplate material to provide support, slip resistance, and drainage. The bottom 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 21.65" wide with a 10.00" minimum depth. The inside cab steps will not exceed 16.50" in height. The vertical surfaces of the step well will be aluminum treadplate.
0770194	Handrail, Exterior, Knurled, Alum, 4-Door Cab	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.
0892638	Lights, Cab & Crw Cab Acs Stps, P25, LED w/Bezel, 6lts	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 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 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.
0583698	Fenders, S/S on cab, Extra Wide, Saber/Enf	FENDER CROWNS Stainless steel fender crowns will be installed at the cab wheel openings.
0042105	No Windows, Side of Crew Cab	
0012090	Not Required, Windows, Front/Side of raised roof	
0779033	Not Required, Windows Rear of Crew Cab, Saber FR/Enforcer	
0809780	Compt, 16.50 W x 16 LS/25.50 RS H x 15 D, Ea Side C/C, Dbl Pan, DEF, 70" Enf	STORAGE COMPARTMENTS Provided on each side of the cab, to the rear of the crew cab access doors, will be a storage compartment. The left side compartment will be 16.50" wide x 16.00" high x 15.00" deep and located above the DEF fill door. The right side compartment will be 16.50" wide x 25.50" high x 15.00" deep. There will be two (2) double pan doors painted to match the cab exterior with a non-locking D-Ring latch, one (1) on each side of the cab. A web strap for each exterior door will be used as a doorstop. The compartment interior will be painted to match the cab interior. Compartment Lights There will be two (2) white Amdor, LED strip lights provided, one (1) each hinged side of compartment door openings. Any lighting will be controlled by an automatic door switch.
0602317	Storage Pockets, Elastic Cover, Recessed, Switch Panel, Saber FR/Enf	RECESSED POCKET WITH ELASTIC COVER To provide organized storage (clutter control) in the cab for miscellaneous equipment, the cab interior will be provided with recessed storage pockets. The pockets will be approximately 6.00" wide x 2.12" high and will be constructed of aluminum. The pockets will be provided with a perforated elastic material cover to secure the equipment in the pocket. There will be one (1) pockets installed Location #11. Pockets will only be installed in locations where there is available depth behind the panel.

0618193	Storage Pockets, Elastic Cover, Recessed, Overhead Switch Panel, Saber FR/Enf	RECESSED POCKET WITH ELASTIC COVER To provide organized storage (clutter control) in the cab for miscellaneous equipment, the cab interior will be provided with recessed storage pockets. The pockets will be approximately 6.00" wide x 2.12" high and will be constructed of aluminum. The pockets will be provided with a perforated elastic material cover to secure the equipment in the pocket. There will be two (2) pockets installed Location #6, PNL POS B. Pockets will only be installed in overhead locations where there is available depth behind the panel.
0722796	Dash, Poly, Saber FR/Enforcer	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.
0614915	Work Surface, 1/4" Alum, Full Engine Tunnel, Flat, Lower Rear, SFR/Enf	WORK SURFACE ON ENGINE TUNNEL There will be a work surface provided on the engine tunnel. The work surface will cover the entire engine tunnel and follow the width of the engine tunnel. It will be constructed of 0.25" aluminum. The beginning of the work surface will be spaced 1.00" off the top surface of the engine tunnel. The work surface will be flat from the front of the engine tunnel to the beginning of the lower flat section of the engine tunnel. The work surface will flange down 90 degrees at the beginning of the lower flat section and then extend to the rear of the engine tunnel. The rear of the work surface will be spaced 1.00" off the engine tunnel. The work surface will be open on the sides to allow for equipment to be mounted underneath it. The mounting surface will be painted to match the cab interior.
0657893	Mounting Plate, 3/16" Aluminum, Cab Interior	MOUNTING PLATE(S) There will be two (2) From just below the adjustable seat tracking to the floor and as wide as possible 0.188" aluminum mounting plate(s) provided and installed DS and PS outboard positions on back wall between forward facing seats and outboard wall.. The mounting surface will be painted to match the cab interior. The plates(s) will be mounted on 1.00" spacer stand-offs.
0750824	Cab Interior, Vinyl Headliner, Saber FR/Enforcer, CARE	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 black 36 ounce leather grain vinyl resistant to oil, grease, and mildew. 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 black vinyl.
0753903	Cab Interior, Paint Color, Saber FR/Enforcer	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.
0052100	Floor, Rubber Padded, Cab & Crew Cab, Saber/Enforcer	CAB FLOOR 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.

0722696	HVAC, Standard-Duty, Enforcer, CARE	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 outlet directed towards the left side cab window. One (1) adjustable outlet directed towards the right side cab window. Six (6) fixed outlets 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 risers with a dual scroll blower. An aluminum plenum incorporated into the cab structure used to transfer heat to the forward positions. Air Conditioning A condenser will be a 59,644 BTU output that meets and exceeds the performance specification will be mounted on the radiator. 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 metal cover painted to match the cab interior. 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) outlets directed towards the seating position on the left side of the cab. Four (4) outlets 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) outlets 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.
0677382	Guard, Brush, Painted, For Coleman A/C Unit, Cab Roof	BRUSH GUARD A protective enclosure will be provided around the roof mounted air conditioning unit. The enclosure will provide protection from tree limbs and debris. The enclosure will be made of aluminum and painted to match the cab exterior.
0788991	Air Conditioning, Coleman-Mach 8, Roughneck, 120V, 15K Cool Only, Cab Roof,Black	120 VOLT AIR CONDITIONING There will be one (1) black, Coleman®-Mach® 8, Roughneck™, 120 volt, low profile air conditioning unit installed on the crew cab roof. The air conditioner will have cooling capacity of 15,000 BTU and include a condensate pump and hose to prevent accumulation of condensate on the roof. Ceiling unit controls will control the air conditioning unit. The thermostat will be wired battery direct to operate when the battery switch is off. This unit will be powered from the shoreline inlet. INTERIOR CAB INSULATION The walls and roof will be insulated to aid in cooling.
0639675	Sun Visor, Smoked Lexan, AXT, Imp/Vel, SFR/Enf	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 a black plastic thumb latch provided to help secure each sun visor in the stowed position.

0634328	Grab Handles, Driver and Officer Door Posts, Saber FR/Enforcer	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.
0583938	Lights, Engine Compt, Custom, Auto Sw, Wln 3SC0CDCR, 3" LED, Trim	ENGINE COMPARTMENT LIGHTS There will be one (1) Whelen, Model 3SC0CDCR, 12 volt DC, 3.00" white LED light(s) with Whelen, 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.
0631830	Fluid Check Access, Saber FR/Enforcer, Arrow XT	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) Southco C2 black powder coated flush latch will be provided on the access door.
0583042	Side Roll and Frontal Impact Protection	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 slave SRS sensor will be installed in the cab to provide capacity for eight (8) crew cab seating positions. 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. 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
0622619	Seating Capacity, 4 Belted Seats	SEATING CAPACITY The seating capacity of the vehicle (including tiller cab and belted seat positions in the rescue body) will be four (4).

0636955	Seat, Driver, Pierce PSV, Air Ride, High Back, Safety, PRIMARY, SFR/Enf	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.
0636942	Seat, Officer, Pierce PSV, Fixed, SCBA, Safety, PRIMARY, SFR/Enf	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.
0620420	Radio Compartment, Below Non-Air Ride Seat, Saber FR/Enforcer	RADIO COMPARTMENT A radio compartment will be provided under the officer's seat. The inside compartment dimensions will be 16.00" 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) Southco C2 black powder coated flush latch will be provided for access. The compartment will be constructed of smooth aluminum and painted to match the cab interior.
0822577	Cabinet, Rear Facing, LS, 23 W x 34 H x 26.75 D, Web, Ext Acc, SFR/Enf	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 34.00" high x 26.75" deep. The interior door will be web netting. The netting is to be made with 1.00" wide nylon material with 2.00" openings permanently fastened on the top with 1.00" cam buckle fasteners on the bottom to secure it. The clear door opening will be 16.00" wide x 31.00" 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 web strap 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 29.25" 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 exterior access will be provided with a brushed 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 Amdor LED strip light installed on the left side of the exterior cabinet door opening. The lights will be controlled by an automatic door switch and a rocker switch on the front of the cabinet.
0102783	Not Required, Seat, Rr Facing C/C, Center	
0822590	Cabinet, Rear Facing, RS, 22 W x 34 H x 26.75 D, Web, Ext Acc, SFR/Enf	REAR FACING RIGHT SIDE CABINET A rear facing cabinet will be provided in the crew cab at the right side outboard position. The cabinet will be 22.00" wide x 34.00" high x 26.75" deep. The interior door will be web netting. The netting is to be made with 1.00" wide nylon material with 2.00" openings permanently fastened on the top with 1.00" cam buckle fasteners on the bottom to secure it. The interior clear door opening will be 15.00" wide x 31.00" high. The cabinet will include two (2) infinitely adjustable shelves with a 0.75" flanged down lip and painted to match the cab interior. The cabinet will include no louvers. 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. The door will be located on the side of the cab over the wheelwell. A web strap will be provided as a door stop. The exterior clear door opening will be 17.00" wide x 29.25" high. The exterior access will be provided with a brushed 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 Amdor LED strip light installed on the left side of the exterior cabinet door opening. The lighting will be controlled by an automatic door switch and a rocker switch on the front of the cabinet.

0108189		Not Required, Seat, Forward Facing C/C, LS Outboard	
0607011		Seat, Fwd Fcng C/C, Ctr, (2) PSV, SCBA, Safety, 5.5" Sp, Riser,SECONDARY,SFR/Enf	FORWARD FACING CENTER SEATS There will be two (2) forward facing seats provided at the center position in the crew cab. For optimal comfort, the seats will be provided with 15.00" deep foam cushions designed with EVC (elastomeric vibration control). The seat backs 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 seats will be spaced an additional 5.50" apart to provide more room for each occupant. The seat will include the following features incorporated into the side roll protection system: A seat safety system will be included. When activated, this system will pretension the seat belt. The seats will be furnished with a 3-point, shoulder type seat belt. Seat Riser Both seats will be mounted on a single structural seat riser. The riser will be 43.50" wide x 24.50" deep. There will be a drop down access door provided on the front of the forward facing seat riser. The door will have two (2) flush, non-locking lift and turn latches.
0108190		Not Required, Seat, Forward Facing C/C, RS Outboard	
0761572	SP	Compt, Storage, Forward Facing, Overhead, 88 W x 10 H x 9 D, Saber FR/Enf	FORWARD FACING OVERHEAD STORAGE COMPARTMENT There will be an overhead forward facing storage compartment installed at the raised roof within the crew cab. The compartment will be 88.00" wide x 10.00" high x 9.00" deep. The compartment will include two (2) lift up compartment doors. Non-locking latch and gas operated stay arms will be provided. The compartment will be provided with a divider between each door opening. The compartment will be constructed of smooth aluminum and painted to match the cab interior. Compartment Light There will be one (1) white LED strip light installed horizontally above each compartment door opening.
0766467		Upholstery, Seats In Cab, All Vinyl, Seats Inc, CARE	SEAT UPHOLSTERY All seat upholstery will be leather grain 36 oz black vinyl resistant to oil, grease and mildew. The cab will have four (4) seating positions.
0543991		Bracket, Air Bottle, Hands-Free II, Cab Seats	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 three (3) SCBA brackets.
0603866		Seat Belt, Dual Retractor, ReadyReach, Saber FR/Enforcer	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.
0817557		Helmet Storage, Provided by Fire Department, NFPA/ULC 2024	HELMET STORAGE PROVIDED BY FIRE DEPARTMENT NFPA 1900, 2024 edition, section 11.1.8.4.1 and CAN/ULC S515:2024 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.

0647647	Lights, Dome, FRP Dual LED 4 Lts	CAB DOME LIGHTS There will be four (4) dual LED dome lights with black bezels provided. Two (2) lights will be mounted above the inside shoulder of the driver and officer and two (2) lights will be installed and located, one (1) 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 and the lens switch. The color LED's will be controlled by the lens switch. In order to ensure exceptional illumination, each white LED dome light will provide a minimum of 10.1 foot-candles (fc) covering an entire 20.00" x 20.00" square seating position when mounted 40.00" above the seat.
0896451	Enhanced Software for Cab and Crew Cab Dome Lts	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.
0816997	Portable Hand Light, Provided by Fire Dept, NFPA/ULC 2024	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.
0622803	Cab Instruments, Black Gauges, Black Bezels, Enforcer MUX	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.

0509511	Air Restriction Indicator, Imp/Vel, AXT, Dash CF, Enf MUX	AIR RESTRICTION INDICATOR A high air restriction warning indicator light LCD message with amber warning indicator and audible alarm will be provided.
0543751	Light, Do Not Move Apparatus	"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 not activate any alarm when the parking brake is released.
0509042	Messages, Open Dr/DNMT, Color Dsply,	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.

0622798	Switching, Cab Instrument Lower Console & Overhead, Rocker MUX, Enforcer	SWITCH PANELS The built-in switch panels will be located in the lower console or overhead console of the cab. The switches will be rocker-type and include an integral indicator light. For quick, visual indication the switch will be illuminated whenever the switch is active. A 2-ply, scratch resistant laser engraved Gravoply label indicating the use of each switch will be placed below the switches. The label will allow light to pass through the letters for improved visibility in low light conditions. Switches and light source are integral to the switch panel assembly.
0802940	Wiper Control, 2-Speed with Intermittent, Saber FR/Enforcer	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 on the left side of the center instrument panel.
0820894	Wiring, Spare, 15 A 12V DC, Batt Dir, 1st NFPA1900/ULC	SPARE CIRCUIT There will be one (1) pair of wires, including a positive and a negative, installed on the apparatus. The above 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 protected to 15 amps at 12 volts DC. Power and ground will terminate officer side dash area. Termination will be with heat shrinkable butt splicing. Wires will be sized to 125 percent of the protection. Battery direct loads cannot be Load Managed.
0820897	Wiring, Spare, 15 A 12V DC, Batt Dir, 2nd NFPA1900/ULC	SPARE CIRCUIT There will be one (1) pair of wires, including a positive and a negative, installed on the apparatus. The above 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 protected to 15 amps at 12 volts DC Power and ground will terminate Overhead of officer Termination will be with heat shrinkable butt splicing Wires will be sized to 125 percent of the protection Battery direct loads cannot be Load Managed
0820904	Wiring, Spare, 15 A 12V DC 1st NFPA1900/ULC	SPARE CIRCUIT There will be one (1) pair of wires, including a positive and a negative, installed on the apparatus. The above 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 protected to 15 amps at 12 volts DC. Power and ground will terminate on the officer's side of the engine tunnel. Termination will be with 15 amp, power point plug with rubber cover. Wires will be sized to 125 percent of the protection. The circuit(s) may be load managed when the parking brake is set.
0820920	Wiring, Spare, 4.8 A 12V DC, USB Termination Blue Sea 1045 2nd NFPA1900/ULC	SPARE CIRCUIT There will be two (2) dual USB fast charge socket mounts installed on the apparatus. The above 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 protected to 4.8 amps at 12 volts DC. The USB socket mount will be Back of engine tunnel between EMS compts. and engine tunnel, coiled up loose for install by dealer. . Termination will be a Blue Sea Systems part number 1045 dual USB charger socket. Wires will be sized to 125% of the protection. This circuit(s) may be load managed when the parking brake is applied.
0821444	Wiring, Spare, 20 A 12V DC, 12 Circuit Fuse Block Blue Sea 5032 1st NFPA1900/ULC	SPARE CIRCUIT There will be one (1) Blue Sea System, Model 5032, 12 circuit total fuse block, split into two (2), 6 circuits sections with negative bus bar. The fuse block will include a cover with circuit labels. The wires for the fuse block will have the following features: The positive wire to control the first 6 circuits will be protected to 10 amps and connected directly to the battery switched power. The positive wire to control the second 6 circuits will be protected to 10 amps and connected directly to the battery switched power. The negative wire will be connected to ground. Power, ground and fuse block(s) will terminate (1) Behind driver seat mounted to the front face of the EMS compt.. Wires will be sized to 125 percent of the protection. This circuit(s) may be load managed when the parking brake is set.

SPARE CIRCUIT

There will be one (1) dual USB fast charge socket mounts installed on the apparatus.
The above 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 protected to 4.8 amps at 12 volts DC.
The USB socket mount will be corner of officer dash to the right of Panel #14.
Termination will be a dual USB charger socket.
Wires will be sized to 125% of the protection.
This circuit(s) may be load managed when the parking brake is applied.

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.

0816633

Collision Mitigation, HAAS Alert
(R2V), HA7

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.

0606247	Vehicle Data Recorder w/CZ Display Seat Belt Monitor	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. 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 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.
0696439	Antenna Mount, Custom Chassis, Cable Routed to Instrument Panel Area	RADIO ANTENNA MOUNT There will be one (1) standard 1.125", 18 thread antenna-mounting base(s) installed 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.
0816486	Camera, Pierce, LS Mux, RS, R, SD Cameras, CL714	VEHICLE CAMERA SYSTEM There will be a color vehicle camera system provided with the following: - One (1) camera located at the rear of the apparatus, pointing rearward, displayed automatically with the vehicle in reverse - One (1) camera located on the right side of the apparatus, pointing rearward, displayed automatically with the right side turn signal The camera images will be displayed on the left side vehicle information center display. Audio from the microphone on the rear camera will be not provided. The following components will be included: - One (1) SV-CW134639CAI SD Camera - One (1) CS134404CI Side SD Camera All necessary cables
0814831	Not Required, Camera Switcher	Camera Switcher A camera switcher is not required.
0890416	Pierce Command Zone, Advanced Electronics & Control System, Enforcer, WiFi CZT	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

Storage temperature from -40 degrees Celsius to +70 degrees Celsius

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

0896456	Prognostics, Electrical System	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
0816093	ClearSky Telematics, Remote Fleet & On-scene Management, AT&T Commercial	TELEMATICS SYSTEM Your vehicle will include a cellular-based vehicle telematics system including a telematic control unit with external cellular Wi-Fi and GPS antenna. Pierce will provide access to a web-based user interface portal that will allow users to access vehicle data collected as part of the system, allow users to configure monitoring tools, provide a global view of the location of each vehicle that has the system, provide a summary of fleet data, etc. The web-based user interface portal or certain features thereof may be provided on a subscription basis. The telematic control unit will be fully integrated into the electrical system of the vehicle, will monitor the vehicle through the CAN data bus, and will transmit data through a secure AT&T 4G LTE cellular connection, and be provided with a 3 year subscription. The web-based user interface portal will provide, among other features: - User defined interval notifications - User defined fault alerts - Remote access to Command Zone™ diagnostics - Vehicle analytics and activity monitoring - Vehicle system status The system is activated while building your vehicle and thereafter remains active for a 60-day grace period starting when your vehicle ships from the factory. This means that the system is active at the time of factory acceptance and during the 60-day grace period. By selecting this option, it is agreed that use of the system and the web-based user interface portal will be subject to the terms set forth in the Data Systems Agreement referenced at https://www.piercemfg.com/privacy-statement. Customers will be provided with an initial login at the time of factory acceptance to verify performance of the system and the web-based user interface portal. The term of the subscription, if any, will begin when the vehicle ships from the factory. If customers do not log into the web-based user interface portal and confirm acceptance of the terms before the 60-day grace period ends, the system will be deactivated, and no new data will be collected or retained Pierce. Reactivation can be coordinated through the customer's authorized Pierce Dealer.
0624253	Electrical System, Enforcer MUX	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: - 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. - 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. - 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). - All lights that have their 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 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.

0079211	Batteries, (6) Stryten/Exide Grp 31, 950 CCA each, Threaded Stud	BATTERY SYSTEM There will be six (6) 12 volt Stryten/Exide®, Model 31S950X3W, batteries that include the following features will be provided: 950 CCA, cold cranking amps 190 amp reserve capacity High cycle Group 31 Rating of 5700 CCA at 0 degrees Fahrenheit 1140 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.
0008621	Battery System, Single Start, All Custom Chassis	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.
0002698	Battery Compartment, Saber/Enforcer	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.
0813848	Charger, Sngl Sys, IOTA, DLS-75, 75 amp, IQ4 Controller	BATTERY CHARGER There will be an IOTA, Model DLS 75, 75 amp battery charger with IQ4 controller provided. The battery charger will be wired to the AC shoreline inlet through an AC receptacle adjacent to this battery charger.
0814869	Location, Cab, Charger, Behind Driver Seat	The battery charger will be located in the cab behind the driver seat.
0813791	Panel, Charger Display, Kussmaul, 091-94-12, Batt Dir	REMOTE CONTROL PANEL - BATTERY CHARGER There will be a Kussmaul™, Model 091-94-12 universal display panel included. It will be wired directly to the chassis batteries.
0814939	Location, Cab, Ind/Remote, Driver's Seat Riser	The battery charger indicator will be located on the driver's seat riser.
0507624	Shoreline, 30A 120V, Kussmaul Auto Eject, 091-159-30-120, Super	KUSSMAUL AUTO EJECT FOR SHORELINE There will be one (1) Kussmaul Model 091-159-30-120, 30 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 will be connected to Chassis batteries and Coleman AC. A mating connector body will be supplied with the loose equipment. There will be a label installed near the inlet(s) that state the following: Line Voltage Current Rating (amps) Phase Frequency
0026800	Shoreline Location	The shoreline receptacle will be located on the driver side of cab, to the front of cab door.

0647728	Alternator, 430 amp, Delco Remy 55SI	ALTERNATOR A Delco Remy®, Model 55SI, alternator will be provided. It will have a rated output current of 430 amps, as measured by SAE method J56. The alternator will feature an integral regulator and rectifier system that has been tested and qualified to an ambient temperature of 257 degrees Fahrenheit (125 degrees Celsius). The alternator will be connected to the power and ground distribution system with heavy-duty cables sized to carry the full rated alternator output.
0092582	Load Manager/Sequencer, MUX	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)
0724853	Headlights, Rect LED, HiViz FT-4X6-4KIT, AXT/DCF/Enf/Imp/Sab/Vel, Trim	HEADLIGHTS There will be a HiViz part number FT-4X6-4KIT, that includes four (4) 4.00" high x 6.00" long rectangular LED lights with parking lamp illumination around the outside of the lamps mounted in the front quad style housings on each side of the cab grille: the outside lamp on each side will contain a part number FT-4X6-HL with low beam LEDs the inside lamp on each side will contain a part number FT-4X6-H with high beam LEDs the lights will be controlled through the headlight switch The headlight housing to include a polished finish and the trim to be chromed.
0625953	Light, Directional, W/in 600 Cmb, Cab Crn, Wrp Bzl Out HD Lts, Enf/Sab	DIRECTIONAL LIGHTS There will be two (2) Whelen 600 series, LED combination directional/marker lights provided. The lights will be located on the outside cab corners, next to the headlights. The color of the lenses will be clear.
0620054	Light, Directional/Marker, Intermediate, Weldon 9186-8580-29 LED 2lts	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.

0736083	Lights, Clearance/Marker, Side, P25 LED 2 Lts, Others With Visor Lt	CAB CLEARANCE/MARKER/ID LIGHTS There will be two (2) amber LED lights provided to indicate the presence and overall length of the vehicle in the following locations: Two (2) lights with amber LEDs as front side clearance lights will be installed, one (1) on each side above the cab doors. All other forward facing clearance lights will be included with the visor scene light.
0625210	Lights, Directional, Cab Front Side, Truck-Lite 19036Y LED, AXT/Enf	FRONT CAB SIDE CLEARANCE/MARKER 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.
0627282	Lights, Clearance/Marker/ID, Rear, FRP LED Bar & P25 LED 4Lts	REAR CLEARANCE/MARKER/ID LIGHTING There will be a three (3) LED light bar used as identification lights located at the rear of the apparatus 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 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.
0804514	Lights, Tail, WIn M62BTT* Red Stop/Tail & M62T* Amber Dir Arw For Hsg	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.
0806466	Lights, Backup, WIn M62BU, LED, For Tail Lt Housing	There will be two (2) Whelen Model M62BU, LED backup lights provided in the tail light housing.
0889577	Bracket, License Plate & Light, P25 LED, Stainless Brkt	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.
0556842	Bezels, WIn, (2) M6 Chrome Pierce, For mtg (4) WIn M6 lights	LIGHTING BEZEL There will be two (2) Whelen, Model M6FCV4P, four (4) place chromed ABS housings with Pierce logos provided for the rear M6 series stop/tail, directional, back up, scene lights or warning lights.
0589905	Alarm, Back-up Warning, PRECO 1040	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.

0626588	Lights, Perimeter Cab, TecNiq T10-LC00-1 15" LED 4Dr	CAB PERIMETER SCENE LIGHTS There will be four (4) TecNiq, Model T10-LC00-1, 15.00" lights with white LEDs and 45 degree stainless steel brackets provided per the following: one (1) under the driver's side cab access step one (1) under the passenger's side cab access step one (1) under the passenger's side crew cab access step one (1) under the driver's side crew cab access step The lights will be activated when the battery switch is on, when the respective door is open and by the same control selected for the body perimeter lights.
0617901	Lights, Perimeter Pump House, TecNiq T10-LC00-1 15" LED 2lts	PUMP HOUSE PERIMETER LIGHTS There will be two (2) TecNiq, Model T10-LC00-1, 15.00" white 12 volt DC LED weatherproof strip lights provided under the pump panel running boards, one (1) each side. The lights will be controlled by the same means as the body perimeter lights.
0626579	Lights, Perimeter Body, TecNiq T10-LC00-1 15" LED 2lts, Rear Step	BODY PERIMETER SCENE LIGHTS There will be two (2) TecNiq, Model T10-LC00-1, 15.00" 12 volt DC LED strip lights provided at the rear step area of the body, one (1) each side shining to the rear. The perimeter scene lights will be activated when the parking brake is applied and either directional light is activated, activating all side facing perimeter lights with a 10 second delay after directional is deactivated.
0896454	Enhanced Software for Perimeter Lts	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.
0556360	Lights, Step, P25 LED 4lts, Pump Pnl Sw	STEP LIGHTS Four (4) white LED step lights will be provided. One (1) step light will be provided on each side, on the front compartment face and two (2) step lights at the rear to illuminate the tailboard. In order to ensure exceptional illumination, each light will provide a minimum of 25 foot-candles (fc) covering an entire 15.00" x 15.00" square placed 10.00" below the light and a minimum of 1.5 fc covering an entire 30.00" x 30.00" square at the same 10.00" distance below the light. These step lights will be actuated with the pump panel light switch. All other steps on the apparatus will be illuminated per the current edition of applicable NFPA standards.
0762177	Light, Visor, HiViz, FT-B-72-ML-*, Cntl Feat, Flush w/Cab	12 VOLT LIGHTING There will be a HiViz, Model FT-B-72-ML-*, 2.56" high x 72.69" long x 2.45" deep 21,407 effective lumens, 12 volt DC LED light provided on the front cab roof as far forward as practical. There will be a visor bracket to hold the top of the light flush with the top of the cab. The light will include white scene LEDs, three (3) amber LEDs as identification lights and two (2) amber LEDs as clearance lights. The white LEDs will be configured in spot and flood optics. The painted parts of the light housing and brackets to be black. The scene LEDs 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 identification and clearance LEDs will be activated by the headlight switch. The white LEDs may be load managed when the parking brake is applied.
0736729	Lights, HiViz FT-GESM LED 2nd	12 VOLT LIGHTING There will be one (1) HiViz®, Model FT-GESM, 20,500 equivalent lumens 8.65" high x 10.61" wide x 2.78" deep light(s) with white LEDs installed on the cab PS above EMS Compt.. The light (s) to include black optic holders, black bezels and black fixture body. The light(s) will be activated by a switch at the driver's side switch panel, by a switch at the left side pump 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.
0736731	Lights, HiViz FT-GESM LED 1st	12 VOLT LIGHTING There will be one (1) HiViz®, Model FT-GESM, 20,500 equivalent lumens 8.65" high x 10.61" wide x 2.78" deep light(s) with white LEDs installed on the cab DS above EMS Compt.. The light (s) to include black optic holders, black bezels and black fixture body. The light(s) will be activated by a switch at the driver's side switch panel, by a switch at the left side pump 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.
0733336	Lights, HiViz FT-GESM* LED 2nd	12 VOLT LIGHTING - BODY There will be two (2) HiViz®, Model FT-GESM, surface mount, 20,500 equivalent lumens, 8.65" high x 10.61" wide x 2.78" deep with white LED's installed on the body PS upper front body corner and rear body corner. The light(s) to include black optic holders, black bezels and black fixture body. The light(s) will be activated by the same control that has been selected for the right side scene light(s). The light(s) may be load managed when the parking brake is applied.

0733343	Lights, HiViz FT-GESM* LED 1st	12 VOLT LIGHTING - BODY There will be two (2) HiViz®, Model FT-GESM, surface mount, 20,500 equivalent lumens, 8.65" high x 10.61" wide x 2.78" deep with white LED's installed on the body DS upper front body corner and rear body corner. The light(s) to include black optic holders, black bezels and black fixture body. The light(s) will be activated by the same control that has been selected for the left side scene light(s). The light(s) may be load managed when the parking brake is applied.
0532358	Not Required, Deck Lights, Other Hose Bed & Rear Lighting	
0645877	Lights, Hose Bed, Sides, Dual LED Light Strips	HOSE BED LIGHTS There will be white 12 volt DC LED light strips with stainless steel protective cover, provided to light the hose bed area. Hose Bed lights will meet the photometric levels listed in the current edition of applicable NFPA standards for Hose Bed lighting requirements. Light strip(s) will be installed along the upper edge of the left side of the hose bed. Light strip(s) will be installed along the upper edge of the right side of the hose bed. The lights will be activated by a cup switch at the rear of the apparatus no more than 72.00" from the ground.
0645677	Lights, Not Required, Rear Work, Alt. 12 Volt Lights At Rear Body	
0743346	Lights, Rear Scene, HiViz FT-GSMJR-*, Surface Mt	REAR SCENE LIGHT(S) There will be two (2) HiViz item FT-GSMJR-*, 5.04" high x 7.40" wide x 1.54" deep 5,000 raw lumens light(s) with white LEDs black trim and black optic holder(s) surface mounted at the rear of the apparatus, Rear bulkhead as high as possible. The light(s) will be controlled by a switch at the driver's side switch panel, by a switch at the passenger's side switch panel and by a cup switch at the driver's side rear bulkhead. The light(s) may be load managed when the parking brake is applied.
0787447	Lights, Walk Surf, Dual LED Light Strips, Cargo Area, Bdy Stp Lt	WALKING SURFACE LIGHTS There will be white 12 volt DC LED light strips with stainless steel protective cover, provided to light the cargo area. One (1) light strip will be installed the entire length of the driver's side of the cargo area. One (1) light strip will be installed the entire length of the passenger's side of the cargo area. The light will be activated when the body step lights are on.
0060016	Pumper, Long, Aluminum, 2nd Gen	
0554271	Body Skirt Height, 20"	
0013897	Tank, Water, 750 Gallon, Poly, Long, New York Style	WATER TANK Booster tank will have a capacity of 750 gallons and be constructed of polypropylene plastic by United Plastic Fabricating, Incorporated. The tank will be designed to achieve a low hose bed. Tank design will be a stepped design with the forward section of the tank higher than the section of the tank that is below the hose bed. Tank joints and seams will be nitrogen welded inside and out. Tank will be baffled in accordance with the current edition of applicable NFPA standards. Baffles will have vent openings at both the top and bottom to permit movement of air and water between compartments. Longitudinal partitions will be constructed of .38" polypropylene plastic and will extend from the bottom of the tank through the top cover to allow for positive welding. Transverse partitions will extend from 4.00" off the bottom of the tank to the underside of the top cover. All partitions will interlock and will be welded to the tank bottom and sides. 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. Tank top will be sufficiently 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 (2) of the dowels will be drilled and tapped (.50" diameter, 13.00" deep) to accommodate lifting eyes. A sump that will be sized dependent on the tank to pump plumbing will be provided at the bottom of the water tank. 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 will be provided to properly support bottom of tank. Crossmembers will be constructed of steel bar channel or rectangular tubing. Tank will "float" 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 or other provision will be provided to prevent an empty tank from bouncing excessively while moving vehicle. Mounting system will be approved by the tank manufacturer.

0003405	Overflow, 4.00" Water Tank, Poly	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.
0028104	Foam Cell Required	
0635329	Modified Poly Tank & Cradle, Ext'd To Rear, Pumper	
0633066	Sleeve, Through Tank	SLEEVE, PLUMBING, THROUGH TANK One (1) sleeve will be provided in the water tank for a 3.00" pipe to the rear.
0553725	Restraint, Water Tank, Heavy Duty, Special Type Tank, 4x4, or Export	WATER TANK RESTRAINT A heavy-duty water tank restraint will be provided.
0003429	Not Required, Direct Tank Fill	
0003424	Not Required, Dump Valve	
0048710	Not Required, Jet Assist	
0030007	Not Required, Dump Valve Chute	
0514778	Not Required, Switch, Tank Dump Master	
0618241	Hose Bed, Aluminum, Pumper, New York Style	HOSE BED The hose bed will be fabricated of 0.125"-5052 aluminum with a nominal 38,000 psi tensile strength. The hose bed will be as low as practical. Upper and rear edges of side panels will have a double break for rigidity. The upper area at the rear of the hose bed will be covered with brushed stainless steel to prevent damage to painted surface when hose is removed. Flooring of the hose bed will be removable aluminum grating with the top surface corrugated to aid in hose aeration. The grating slats will be a minimum of 0.50" x 4.50" with spacing between slats for hose ventilation. A cross divider will be provided at the front of the hose bed before the tank transitions from the lower section to the upper section. The divider will run from the top of the side sheet down below the hose bed grating.
0723545	Unpainted/Dual Action Finished Aluminum Hose Bed, 2G Pumper/Tankers	The hose bed interior walls will be unpainted and dual action finished.
0003481	Hose Bed Capacity, Special	Hose bed will accommodate Bay 1: 200' of 2.5" Bay 2: 1000' of 5" Bay 3: 400' of 3".
0689090	Divider, Hose Bed, .25" Unpainted, w/Handhold	HOSE BED DIVIDER Two (2) hosebed dividers will be furnished for separating hose. Each divider will be constructed of a .25" brushed aluminum sheet. Flat surfaces will be sanded for uniform appearance, or constructed of brushed aluminum. An oval opening will be provided near the rear of the divider to be used as a hand hold and aid in accessing the hose bed. Divider will be fully adjustable by sliding in tracks, located at the front and rear of the hose bed. Divider will be held in place by tightening bolts, at each end. Acorn nuts will be installed on all bolts in the hose bed which have exposed threads.
0807329	Hose Restraint, Hose Bed, Vinyl, Top	HOSEBED HOSE RESTRAINT A black hosebed cover will be furnished on the top of the hosebed with quarter turn fasteners at the front and quarter turn fasteners on the sides. The vinyl hosebed cover will be connected to the rear flap hose restraint.

0807338	Hose Restraint, Hose Bed, Vinyl, Rear	A black vinyl flap will be connected to the restraint at the top of the hosebed. At the bottom of the flap, bungee cord and hook with pull tab will be provided. The bottom of the flap will be not weighted.
0661258	Divider, Unpainted, Permanent, Extruded, Additional	one (1) additional hose bed dividers will be furnished. Each divider will be constructed of a .125" brushed aluminum sheet fitted and fastened into a slotted, 1.50" diameter radiused extrusion along the top, bottom, and rear edge. Divider will be permanently mounted. If required, acorn nuts will be installed on all bolts, within the hose bed, which have exposed threads. The location of the additional divider will be Right side of hose bed above ground ladder compt. at transition between Bay 3 and Bay 4.
0090058	Partition, Hose Bed, Divider to Side Sheet	SUPPORT PARTITION A support partition will be provided from the hosebed divider to the side sheet In Bay 4, 8' from rear of hose bed.. The support will be designed to match the divider material.
0740286	Lettering, Hose Bed Rear Flap, Reflective	LETTERING, HOSE BED REAR FLAP The lettering designation on the rear flap of the hose bed cover will be E 2. There will be red reflective lettering provided on the rear flap. There will be two (2) letters provided. The reflective lettering will be approximately 16.00" high. The lettering will be centered on the truck. The layout of the lettering will be straight.
0013512	Running Boards, 12.75" Deep	RUNNING BOARDS Running boards will be fabricated of 0.125" bright aluminum treadplate. Each running board will be supported by a welded 2.00" square tubing and channel assembly, which will be bolted to the pump compartment substructure. Running boards will be 12.75" deep and spaced 0.50" away from the pump panel. A splash guard will be provided above the running board treadplate.
0681766	Tailboard, 16" Deep, Full Width, Extended Substructure, Angled Corners	TAILBOARD The tailboard will also be constructed of .125" bright aluminum treadplate and spaced .50" from the body, as well as supported by a structural steel assembly. The tailboard area will be 16.00" deep and full width of the body. The outboard sides of the tailboard will be angled at 45 degrees beginning at the point where the body meets the tailboard at the outboard edge angling rearward to the rear edge of the tailboard. The exterior side will be flanged down and in for increased rigidity of tailboard structure.
0690027	Wall, Rear, Smooth Aluminum/Body Material, Flush Rear Wall	REAR WALL, SMOOTH ALUMINUM/BODY MATERIAL The rear facing surfaces of the center rear wall will be smooth aluminum. The bulkheads, the surface to the rear of the side body compartments, will be smooth and the same material as the body. The rear wall will be flush.
0889214	Tow Eyes, w/Tow Bar, 2G Pumper	REAR TOW EYES Two (2) tow eyes, which are an integral part of the body mounting substructure, will be installed below the rear of the truck. The tow eyes will be of adequate strength to allow the truck to be pulled from the eyes. REAR TOW BAR One (1) tow bar will be installed under the tailboard. The tow bar assembly will be designed and positioned to allow up to a 30-degree upward angled pull of 17,000 lb, or a 20,000 lb straight horizontal pull in line with the centerline of the vehicle. The tow bar design will have been tested and evaluated using finite element analysis techniques.
0590926	Hose Restraint, Running Board, Velcro Straps	RUNNING BOARD HOSE RESTRAINT A pair of 2.00" wide black nylon straps with Velcro fasteners will be provided for each hose tray to secure the hose during travel. Two (2) hose trays will be located one (1) in each side running board.
0003634	Tray, Hose, Running Board, 25' of 5.00", Soft Suction Hose	HOSE TRAY Two (2) hose trays will be recessed one (1) in each side running board. Capacity of the tray will be 25.00' of 5.00" soft suction hose. Rubber matting will be installed on the floor of the tray to provide proper ventilation. Drain holes will be provided.

COMPARTMENTATION

Body and compartments will be fabricated of 0.125", 5052-H32 aluminum.

Side compartments will be an integral assembly with the rear fenders.

Circular fender liners will be provided for prevention of rust pockets and ease of maintenance.

Side compartment flooring will be of the sweep out design with the floor higher than the compartment door lip.

The side compartment door opening will be framed by flanging the edges in 1.75" and bending out again 0.75" to form an angle.

Drip protection will be provided above the doors by means of bright aluminum extrusion, formed bright aluminum treadplate or polished stainless steel.

The top of the compartment will be covered with bright aluminum treadplate rolled over the edges on the front, rear and outward side. These covers will have the corners welded.

Side compartment covers will be separate from the compartment tops.

Front facing compartment walls will be covered with bright aluminum treadplate.

All screws and bolts which protrude into a compartment will have acorn nuts on the ends to prevent injury.

UNDERBODY SUPPORT SYSTEM

Due to the severe loading requirements of this pumper a method of body and compartment support suitable for the intended load will be provided.

The backbone of the support system will be the chassis frame rails which is the strongest component of the chassis and is designed for sustaining maximum loads.

Forward to the rear axle, the support system will include "L"-shaped support members bolted to the chassis frame rails. These welded support members will include vertical formed channels, horizontal structural channels, and support gussets. These parts extend from the chassis frame outward underneath the body.

Rearward to the rear axle, the body support system will include two rearward facing "L"-shaped support members bolted to the chassis frame rails. These support members will be connected to the two body supporting crossmembers forming a boxed foundation for the rear body support system.

Steel upper platform decks will be mounted on the top of these support members to create a floating substructure which will result in a 500 lb equipment support rating per lower compartment.

All structural components of this system will be made from high strength 50K steel plate material or structural steel componentry. The steel frames as well as the steel vertical angles will be treated with an epoxy E-coat or equivalent to provide resistance to corrosion and chemicals as standard.

The floating substructure will be separated from the horizontal members with neoprene elastomer isolators. These isolators will reduce the natural flex stress of the chassis from being transmitted to the body.

Isolators will have a broad load range, proven viability in vehicular applications, be of a fail-safe design and allow for all necessary movement in three (3) transitional and rotational modes.

The neoprene isolators will be installed in a pattern which assimilates a three (3)-point mounting pattern to reduce the natural flex of the chassis being transmitted to the body.

A design with body compartments hanging on the chassis in an unsupported fashion will not be acceptable.

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

Louvers will be stamped into compartment walls to provide the proper airflow inside the body compartments and to prevent water from dripping into the compartment. Where these louvers are provided, they will be formed into the metal and not added to the compartment as a separate plate.

TESTING OF BODY DESIGN

Body structural analysis will be fully tested. Proven engineering and test techniques such as finite element analysis, strain gauging, and model analysis will be performed with special attention given to fatigue, life and structural integrity of the body and substructure.

Body will be tested while loaded to its greatest in-service weight.

The criteria used during the testing procedure will include:

Raising opposite corners of the vehicle tires 9.00" to simulate the twisting a truck may experience when driving over a curb.

Making a 90 degree turn, while driving at 20 mph to simulate aggressive driving conditions.

Driving the vehicle at 35 mph on a washboard road.

Driving the vehicle at 55 mph on a smooth road.

Accelerating the vehicle fully, until reaching the approximate speed of 45 mph on rough pavement.

Evidence of actual testing techniques will be made available upon request.

0063662	LS 161" Rollup, Full Height Front & Rear, FDLER	LEFT SIDE COMPARTMENTATION The left side compartmentation will consist of three (3) rollup door compartments. A full height, rollup door compartment ahead of the rear wheels will be provided. The interior dimensions of this compartment will be 44.00" wide x 66.63" high x 25.88" deep in the lower 25.00" of the compartment and 12.00" deep in the remaining upper portion. The clear door opening will be a minimum of 38.25" wide x 56.88" high. A rollup door compartment over the rear wheels will be provided. The interior dimensions of this compartment will be 66.50" wide x 32.88" high x 12.00" deep. The clear door opening will be a minimum of 58.25" wide x 23.13" high. A full height, rollup door compartment behind the rear wheels will be provided. The interior dimensions of this compartment will be 47.75" wide x 67.63" high x 25.88" deep in the lower 26.00" of height and 12.00" deep in the remaining upper section of the compartment. The clear door opening will be a minimum of 44.75" wide x 57.88" high. The interior height of the compartments will be measured from the compartment floor to the ceiling. The spool of the rollup door at the top of the compartment takes up some usable space. The depth of the compartments will be measured from the back wall to the inside of the door frame. Closing of the door will not require releasing, unlocking, or unlatching any mechanism and will easily be accomplished with one (1) hand.
0812780	RS 161" Rollup, Full Height & Depth Front & Rear, Built Into Body	RIGHT SIDE COMPARTMENTATION The right side compartmentation will consist of three rollup door compartments. A full height, rollup door compartment ahead of the rear wheels will be provided. The interior dimensions of this compartment will be 44.00" wide x 65.13" high x 25.88" deep. The clear door opening will be a minimum of 38.25" wide x 56.88" high. A rollup door compartment over the rear wheels will be provided. The interior dimensions of this compartment will be 66.50" wide x 31.38" high x 25.88" deep. The clear door opening will be a minimum of 58.25" wide x 23.13" high. A full height, rollup door compartment behind the rear wheels will be provided. The interior dimensions of this compartment will be 47.75" wide x 66.13" high x 25.88" deep. The clear door opening will be a minimum of 44.75" wide x 57.88" high. The interior height of the compartments will be measured from the compartment floor to the ceiling. The spool of the rollup door at the top of the compartment takes up some usable space. The depth of the compartments will be measured from the back wall to the inside of the door frame. Closing of the door will not require releasing, unlocking, or unlatching any mechanism and will easily be accomplished with one hand.
0594005	Doors, Rollup, Amdor, Side Compartments	SIDE COMPARTMENT ROLLUP DOOR(S) There will be six (6) 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 rollup 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 ingress. 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 rollup door will be equipped with two (2) cut-outs to allow for easier access with gloved hands. 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. All injection molded rollup door wear components will be constructed of Type 6 nylon. Each rollup door will have a 3.00 inch diameter balancer/tensioner drum to assist in lifting the door. The header for the rollup door assembly will not exceed 4.00". A heavy-duty magnetic switch will be used for control of open compartment door warning lights.
0098470	Compt, Flush Rear, Rollup, 30.75" FF, 25.88" D	REAR COMPARTMENTATION A roll-up door compartment above the rear tailboard will be provided. The interior dimensions of this compartment will be 40.00" wide x 33.63" high x 25.88" deep. The interior height of the compartments will be measured from the compartment floor to the ceiling. The spool of the rollup door at the top of the compartment takes up some usable space. The depth of the compartments will be measured from the back wall to the inside of the door frame. A louvered, removable access panel will be furnished on the back wall of the compartment. The rear compartment will be open into the rear side compartments. The clear door opening of this compartment will be a minimum of 33.25" wide x 23.88" high. Closing of the door will not require releasing, unlocking, or unlatching any mechanism and will easily be accomplished with one hand.

0594003	Door, Amdor, Rollup, Rear Compartment	ROLLUP REAR COMPARTMENT DOOR The rear compartment will have a rollup door. The door will be double faced, aluminum construction, satin aluminum and manufactured by AMDOR™ brand rollup doors. The door 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 ingress. The door 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 rollup door will be equipped with two (2) cut-outs to allow for easier access with gloved hands. 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. All injection molded rollup door wear components will be constructed of Type 6 Nylon. The door will have a 3.00 inch diameter balancer/tensioner drum to assist in lifting the door. The header for the rollup door assembly will not exceed 4.00". A heavy-duty magnetic switch will be used for control of open compartment door warning lights.
0554995	No Body Modification Required	
0625184	Guard, Drip Pan, S/S, Rollup Door, Pumper	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 left side rearward compartment, left side over the wheel compartment, left side forward compartment, right side rearward compartment, right side over the wheel compartment, right side forward compartment and rear compartment.
0768509	Lights, Compt, Amdor AY-LB-12HW0** LED, Dual Lt Strip	COMPARTMENT LIGHTING There will be seven (7) compartments that include Amdor, Model AY-LB12HW0**, white 12 volt DC LED compartment light strips with 45 degree brackets. The light manufacturers electrical connectors will be included in the circuit. The lights will be mounted with mechanical fasteners. There will be two (2) strip lights installed vertically in each compartment opening per the latest NFPA requirements. The lights will be activated when the battery switch is on and the respective compartment door is opened.
0730092	Not Required	
0722037	SP Lights, Hatch Compt, Not Req'd, No Top Doors	
0760868	Lights, Cargo/Dunnage, Dual LED Light Strips, Each Side	CARGO/DUNNAGE AREA LIGHTING There will be two (2), 12 volt DC strips lights with white LEDs and stainless steel protective cover, provided to illuminate the cargo area. One (1) light strip will be installed the entire length of the left side of the cargo area. One (1) light strip will be installed the entire length of the right side of the cargo area. The light(s) will be activated by the same switch control that has been selected for the hose bed light(s).
0687146	Shelf Tracks, Painted	MOUNTING TRACKS There will be five (5) sets of tracks for mounting shelf(s) in LS1, LS3, RS1, RS3 and B1. These tracks will be installed vertically to support the adjustable shelf(s). The tracks will be painted to match the compartment interior.
0600350	Shelves, Adj, 500 lb Capacity, Full Width/Depth, Predefined Locations	ADJUSTABLE SHELVES There will be five (5) shelves with a capacity of 500 lb provided. The shelf construction will consist of .188" aluminum painted spatter gray with 2.00" sides. 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 in LS1 at the depth transition point, in RS1 at the transition point, in RS3 at the transition point, in RS3 in the lower third and in LS3 at the depth transition point.

0647091	Tray, Floor Mounted, Slide-Out, 500lb, 2.00" Sides	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 50lb 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 RS1, RS3 and LS1.
0725644	Cabinet, Drawer Assembly, CTECH, Three Drawers, Up To 24" Wide, 24" Deep	DRAWER ASSEMBLY A slide-out drawer assembly will be installed Floor of LS3 as far forward as possible. The clear dimensions of the first drawer starting at the top will be 3.00" with a face plate that is 4.00" high x 21.00" deep. The clear dimensions of the second drawer will be 6.75" with a face plate that is 7.00" high x 21.00" deep. The clear dimensions of the third drawer will be 8.75" with a face plate that is 9.00" high x 21.00" deep. Each drawer will be the same width and not exceed 24.00". The drawers will have a capacity of 250 pounds. The drawers will be mounted in a cabinet housing constructed of light gray powder coated aluminum with anodized aluminum frames. The housing will be 24.00" deep, and completely enclose the drawer. A full-length aluminum extruded rail will be provided at the top edge of each drawer. This rail will act as the latching mechanism as well as the handle for each drawer. There will be a total of one (1) provided.
0540317	Toolboard, Swing-out, Alum, .188", Peg Board	SWING OUT TOOLBOARD A swing out aluminum toolboard will be provided. It will be a minimum of 0.188" thick with .203" 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 front 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 spatter gray painted and installed LS2 full height and width and RS2 full height and width.
0755527	Pegboard, Back Wall Mounted, 3/16" Alum, Standard Depth Upper	PEGBOARD There will be 3/16" thick aluminum pegboard spatter gray painted will be installed on the back wall of six (6) compartments. It will be mounted using two (2) horizontal tracks. Retainers will be used to mount the pegboard to the tracks. The pegboard(s) installed will be on the upper standard depth section of the compartment. The holes will be .203" diameter, punched 1.00" on center. Pegboard will be provided in the following compartments: LS1, LS2, LS3, RS1, RS2 and RS3.
0004016	Rub Rail, Aluminum Extruded, Side of Body	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.
0784811	Fender Crowns, Rear, Stainless, w/Removable Liner	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 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 A 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.
0519849	Not Required, Hose, Hard Suction	HARD SUCTION HOSE Hard suction hose will not be required.

0626229	Handrails, Side Pump Panels, Per Print	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 provided to meet current edition of applicable NFPA standards. The handrails will be installed as noted on the sales drawing.
0004126	Handrails, Beavertail, Standard	HANDRAILS One (1) vertical handrail will be located on each rear beavertail.
0610196	Handrail, Rear, Above Hose Bed, New York Style/Low Hose Bed	One (1) horizontal black rubber-covered aluminum handrail will be provided above the hose bed at the rear of the apparatus. The hose bed dividers do not require additional reinforcement.
0004150	Handrail, Extra - 15-20" Long	ADDITIONAL HANDRAIL Two (2) handrails will be mounted Top of Cargo Side Sheet rearward DS and PS side. The handrail(s) will be constructed of knurled aluminum.
0636301	Compt, Extinguisher (2) Fender Panel, Triangular Door, 8" Dia	EXTINGUISHER/AIR BOTTLE/ STORAGE (Triangular) A total of one (1) extinguisher/air bottle/storage compartments will be provided on the right side rearward of the rear wheels. The triangular shaped compartment will be sized to fit a 8.00" diameter extinguisher in the lower area and a 8.00" diameter extinguisher in the upper area. The compartment will be approximately 25.50" deep. A partition will be provided to separate the compartment. Also inside the compartment, black rubber matting glued to the floor will be provided. The compartment will be furnished with a drain hole. A painted stainless steel, triangular shaped door with a Southco raised trigger C2 black lever latch will be provided to contain the air bottles. A dielectric barrier will be provided between the door hinge, hinge fasteners and the body sheet metal. AIR BOTTLE COMPARTMENT STRAP A strap will be provided in the air bottle compartment(s) to help contain the bottles when the vehicle is parked on an incline. The strap will wrap around the neck and attach to the wall of the compartment.
0657522	Compt, Air Bottle, Triple, Fender Panel	AIR BOTTLE STORAGE (Triple) A quantity of two (2) air bottle compartments designed to hold (3) air bottles up to 7.25" in diameter x 26.00" deep will be provided on the left side forward of the rear wheels and on the right side forward of the rear wheels. A painted stainless steel door with a Southco raised trigger C2 black lever latch will be provided to contain the air bottle. A dielectric barrier will be provided between the door hinge, hinge fasteners and the body sheet metal. Inside the compartment, black rubber matting glued to the floor will be provided. AIR BOTTLE COMPARTMENT STRAP A strap will be provided in the air bottle compartment(s) to help contain the air bottles when the vehicle is parked on an incline. The strap will wrap around the neck and attach to the wall of the compartment.
0004225	Ladder, 24' Duo-Safety 900A 2-Section	EXTENSION LADDER There will be a 24' two-section aluminum Duo-Safety Series 900-A extension ladder provided.
0004230	Ladder, 14' Duo-Safety 775A Roof	ROOF LADDER There will be a 14' aluminum Duo-Safety Series 775-A roof ladder provided.
0812656	Ladder Storage, Built Into Body, RS, Enclosed, RPH	LADDER STORAGE The ladders will be stored inside the upper section of the right side compartments. The ladders will extend into the pump compartment just to the rear of the water pump discharges. The section of ladders that extend into the pump house will also be enclosed. A black rubber boot will be provided to enclose the ladders in the gap between the pump house and the body. Each ladder will be stored vertically in a separate stainless steel storage trough. Each stainless steel trough will be lined with Dura-Surf nylon slides. A vertically hinged smooth aluminum door with a pair of Southco raised trigger C2 black powder coated latches will be provided at the rear bulkhead to access the ladders. The door will be hinged along the outboard edge.
0733387	Ladder, 10' Duo-Safety Folding 585A	FOLDING LADDER One (1) 10.00' aluminum, Series 585-A, Duo-Safety folding ladder will be installed.
0733796	Trough, Folding Ladder, Ladder Storage Btwn Tank & S.Sht	FOLDING LADDER STORAGE There will be storage designated right side for folding ladders stored between the side sheet in a stainless steel trough in the ladder storage compartment.

0725371	Compt w/Door, Backboard, Over Pump	BACKBOARD STORAGE A transverse area over the pump and rearward of the cargo area will hold one (1) storage trough. A blister will be supplied at each side to enclose the backboards due to their length. The backboards will be accessible from either side of the vehicle through the aluminum treadplate door(s) with a Southco C2 black powder coated raised trigger latch. The door(s) will be hinged along the forward edge. The size of the backboard(s) to be stored will be 72.00" long x 18.00" wide x 4.00" high.
0816920	Pike Pole, Provided by Fire Department, NFPA/ULC 2024	PIKE POLE PROVIDED BY FIRE DEPARTMENT The pike poles are not on the apparatus as manufactured. The fire department will provide and mount the pike poles. There will be one (1) pike pole(s) provided. The pike pole(s) will be a Duo-Safety 10' pike pole.
0816918	Pike Pole, 6', Provided by Fire Department, NFPA/ULC 2024	6' PIKE POLE PROVIDED BY FIRE DEPARTMENT The pike pole is not on the apparatus as manufactured. The fire department will provide and mount the pike poles. There will be two (2) 6' pike pole(s) provided. The pike pole(s) will be a Fire Hooks Unlimited 6 foot roof hook.
0004361	Tubes, Alum, Pike Pole Storage	PIKE POLE STORAGE Aluminum tubing will be used for the storage of one (1) pike pole and will be located in ladder storage compartment. If the head of a pike pole can come in contact with a painted surface, a stainless steel scuffplate will be provided.
0058193	Tubes, Alum, Pike Pole Storage, Spcl Notch, NY PP Head	PIKE POLE STORAGE Aluminum tubing will be used for the storage of two (2) pike poles and will be located Ladder Storage. If the head of a pike pole can come in contact with a painted surface, a stainless steel scuffplate will be provided. The pike pole tube will be notched to allow a New York style pike pole to fit into the tube.
0785102	Steps, Folding, Front of Body, Cargo Bed Access, w/LED, Trident	FOLDING STEPS FRONT OF BODY Folding steps will be provided full height on the left side and right side body compartments to provide access to the cargo bed. Steps will be spaced evenly on the sales drawing. Actual quantity may vary due to pump panel interferences but will meet the NFPA required maximum stepping height. The Trident steps will be bright finished, non-skid with a black tread coating on the stepping surface. The step will incorporate an LED light to illuminate the stepping surface. The steps can be used as a hand hold with two openings wide enough for a gloved hand.
0592994	Steps, Folding, Rear of Body, w/LED, Trident	REAR FOLDING STEPS Bright finished, non-skid folding steps with a black tread coating on the stepping surface will be provided at the rear. Each step will incorporate an LED light to illuminate the stepping surface. The steps can be used as a hand hold with two openings wide enough for a gloved hand.
0019940	Step, Special Width, Rear Of Body, 8.00"	An 8.00" deep bright aluminum treadplate step will be provided at the rear of the body above the rear compartment.

0007575	Pump House, Side Control, 48", Control Zone	PUMP COMPARTMENT The pump compartment will be separate from the hose body and compartments so that each may flex independently of the other. The pump compartment will be constructed of the same material as the body compartmentation. The pump compartment substructure will be a fabricated assembly of steel tubing, angles and channels which supports both the fire pump and the side running boards. The pump compartment will be mounted on the chassis frame rails with rubber biscuits in a four point pattern to allow for chassis frame twist. Pump compartment, pump, plumbing and gauge panels will be removable from the chassis in a single assembly. PUMP MOUNTING Pump will be mounted to a substructure which will be mounted to the chassis frame rail using rubber isolators. The mounting will allow chassis frame rails to flex independently without damage to the fire pump. LEFT SIDE PUMP CONTROL PANEL All pump controls and gauges will be located at the left (driver's) side of the apparatus and properly identified. Layout of the pump control panel will be ergonomically efficient and systematically organized. The pump operator's control panel will be removable in two (2) main sections for ease of maintenance: The upper section will contain sub panels for the mounting of the pump pressure control device, engine monitoring gauges, electrical switches, and foam controls (if applicable). Sub panels will be removable from the face of the pump panel for ease of maintenance. Below the sub panels will be located all valve controls and line pressure gauges. The lower section of the panel will contain all inlets, outlets, and drains. All push/pull valve controls will have 1/4 turn locking control rods with polished chrome plated zinc tee handles. Guides for the push/pull control rods will be chrome plated zinc castings securely mounted to the pump panel. Push/pull valve controls will be capable of locking in any position. The control rods will pull straight out of the panel and will be equipped with universal joints to eliminate binding. IDENTIFICATION TAGS The identification tag for each valve control will be recessed in the face of the tee handle. All discharge outlets will have color coded identification tags, with each discharge having its own unique color. Color coding will include the labeling of the outlet and the drain for each corresponding discharge. All line pressure gauges will be mounted directly above the corresponding discharge control tee handles and recessed within the same chrome plated casting as the rod guide for quick identification. The gauge and rod guide casting will be removable from the face of the pump panel for ease of maintenance. The casting will be color coded to correspond with the discharge identification tag. All remaining identification tags will be mounted on the pump panel in chrome plated bezels. The pump panel on the right (passenger's) side will be removable with lift and turn type fasteners. Trim rings will be installed around all inlets and outlets.
0037731	Pump House Structure, Raised, Included with Ladder Storage	
0794212	Pump, Darley, PSM, 1500 GPM, Magna Transmission, Single Stage	PUMP Pump will be a Darley PSM single stage pump, 1500 gpm, midship mounted centrifugal type. Pump will be the class "A" type. Pump will deliver the percentage of rated discharge at pressure indicated below: - 100% of rated capacity at 150 psi net pump pressure. - 70% of rated capacity at 200 psi net pump pressure. - 50% of rated capacity at 250 psi net pump pressure. Pump body will be fine-grained gray iron, bronze fitted. The impellers will be high strength bronze alloy accurately balanced and splined to pump shaft for precision fit and durability. Double seal ring design will help to minimize end thrust. 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.
0007153	Seal, Mechanical, Darley, Silicon Carbide	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.
0794209	Trans, Pump, Darley Magna	PUMP TRANSMISSION Pump transmission case will be alloy cast iron of heavy duty design with adequate oil reserve capacity to maintain low operation temperatures. Magnetic drain will be provided. The gears will be helical in design and precision cut for quiet operation and long life. The gears will be cut from high strength alloy steel, heat treated and gas nitride. The gear face will be a minimum of 3.50".
0635600	Pumping Mode, Stationary Only	PUMPING MODE An interlock system will be provided to ensure that the pump drive system components are properly engaged so that the apparatus can be safely operated. The interlock system will be designed to allow stationary pumping only.

0604307	Pump Shift, Air w/o Manual Override, Split Shaft, Interlocked, Darley	AIR PUMP SHIFT Pump shift engagement will be made by a two (2) position sliding collar, actuated pneumatically (by air pressure), with a three (3) position air control switch located in the cab. Two (2) indicator lights will be provided adjacent to the pump shift inside the cab. One (1) green light will indicate the pump shift has been completed and be labeled "pump engaged". The second green light will indicate when the pump has been engaged, and that the chassis transmission is in pump gear. This indicator light will be labeled "OK to pump". The pump shift will be interlocked to prevent the pump from being shifted out of gear when the chassis transmission is in gear to meet NFPA requirements. The pump shift control in the cab will be illuminated to meet NFPA requirements.
0003148	Transmission Lock-up, EVS	TRANSMISSION LOCK-UP The direct gear transmission lock-up for the fire pump operation will engage automatically when the pump shift control in the cab is activated.
0004551	Auxiliary Cooling System, Darley	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. The pump casting will be designed to be used as a heat exchanger.
0014486	Not Required, Transfer Valve, Single Stage Pump	
0746508	Valve(s), Relief Intake, Trident Air Max, Control Location	INTAKE RELIEF VALVE One (1) Trident Air Max intake relief valve(s) will be installed on the suction side of the pump preset at 125 psig. The relief valve will have a working range of 50 psi to 350 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. One (1) adjustable air regulator and pressure indicating gauge will be located on a common bezel on the left side pump panel to control the intake valve(s).

0826104	Controller, Pressure, FRC, Pump Boss Max, PBA500	PRESSURE CONTROLLER A FRC Pump Boss 500 electronic pressure controller with one (1) 600 PSI transducer on the pump discharge will be provided. All readouts will be standard PSI. When a single 300 psi or single 600 psi pressure transducer is selected the transducer is installed in the discharge side of the water pump. The transducer continuously monitors pump pressure sending a signal to the electronic pressure controller. When a dual 600 psi pressure transducer is selected the transducer are installed in the discharge side and intake side of the water pump. The discharge transducer continuously monitors pump pressure sending a signal to the electronic pressure controller. The intake transducer continuously monitors the pump intake 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 RPM Setting mode. In 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 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. 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. An additional audible alarm will NOT BE provided. The pressure controller screen will be LCD. The LCD screen and LED intensity will be 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 Transmission Temp 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 engine oil pressure High engine coolant temperature 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.
0072153	Primer, Trident, Air Prime, Air Operated	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.
0780364	Manuals, Pump, (2) Total, Electronic Copies	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.
0602512	Plumbing, Stainless Steel and Hose, Single Stage Pump, Control Zone	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.

0795135	Plumbing, Stainless Steel, w/Foam System	FOAM SYSTEM PLUMBING All piping that is in contact with the foam concentrate or foam/water solution will be stainless steel. The fittings will be stainless steel or brass. Cast iron pump manifolds will be allowed.
0004645	Inlets, 6.00" - 1250 GPM or Larger Pump	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.
0004646	Cap, Main Pump Inlet, Long Handle, NST, VLH	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.
0084610	Valves, Akron 8000 series- All	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.
0016158	Valve, Inlet(s) Recessed, Side Cntrl, "Control Zone"	The location of the valve for the one (1) inlet will be recessed behind the pump panel.
0004700	Control, Inlet, at Valve	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.
0004660	Inlet (1), Left Side, 2.50"	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.
0029147	Not Required, Inlet, Right Side	
0505132	Anode, Zinc, Pair, Pump, One (1) on Inlet Side & One (1) on Discharge Side	ANODE, INLET One (1) pair of sacrificial Zinc anodes will be provided in the water pump to protect the pump from corrosion. One (1) will be placed in the inlet side of the pump and the other one (1) in the discharge side of the pump.
0092569	No Rear Inlet (Large Dia) Requested	
0064116	No Rear Inlet Actuation Required	
0092696	Not Required, Cap, Rear Inlet	
0009648	No Rear Intake Relief Valve Required on Rear Inlet	
0092568	No Rear Auxiliary Inlet Requested	
0723049	Valve, .75" Bleeder, Aux. Side Inlet, "T" Swing Handle	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.

0029043	Tank to Pump, (1) 3.00" Valve, 3.00" Plumbing	TANK TO PUMP The booster tank will be connected to the intake side of the pump with stainless steel piping and a quarter turn 3.00" full flow line valve with the control remotely located at the operator's panel. Tank to pump line will run straight (no elbows) from the pump into the front face of the water tank and angle down into the tank sump. 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.
0004905	Outlet, Tank Fill, 1.50"	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.
0771671	Control, Outlets, Swing Handle, Vertical, Side Control, 48.00" Pump House	DISCHARGE OUTLET CONTROLS The discharge outlets will incorporate a quarter-turn ball valve with the control located at the pump operator's panel. The valve operating mechanism will indicate the position of the valve. If a handwheel control valve is used, the control will be a minimum of a 3.9" diameter stainless steel handwheel with a dial position indicator built in to the center of the handwheel. SWING CONTROLS There will be Eight (8) discharge outlets controlled by a vertical swing style control. These controls will be located on the following discharges Front bumper, (2) speedlays, (2) DS 2.5", (1) PS 2.5", (1) rear 2.5", hose reel.
0004940	Outlet, Left Side, 2.50"	LEFT SIDE DISCHARGE OUTLETS There will be Two (2) discharge outlets with a 2.50" valve on the left side of the apparatus, terminating with a 2.50" (M) National Standard hose thread adapter.
0005091	Elbow, Left Side Outlets, 45 Degree, 2.50" FNST x 2.50" MNST, VLH	LEFT SIDE OUTLET ELBOWS The 2.50" discharge outlets located on the left side pump panel will be furnished with a 2.50" (F) National Standard hose thread x 2.50" (M) National Standard hose thread, chrome plated, 45 degree elbow. The elbow will be Pierce VLH, which incorporates an exclusive thread design to automatically relieve stored pressure in the line when disconnected.
0092570	Not Required, Outlets, Left Side Additional	
0035094	Not Required, Elbow, Left Side Outlets, Additional	
0004945	Outlet, Right Side, 2.50"	RIGHT SIDE DISCHARGE OUTLETS There will be One (1) discharge outlet with a 2.50" valve on the right side of the apparatus, terminating with a 2.50" (M) National Standard hose thread adapter.
0025091	Elbow, Right Side Outlets, 45 Degree, 2.50" FNST x 2.50" MNST, VLH	RIGHT SIDE OUTLET ELBOWS The 2.50" discharge outlets located on the right side pump panel will be furnished with a 2.50" (F) National Standard hose thread x 2.50" (M) National Standard hose thread, chrome plated, 45 degree elbow. The elbow will be Pierce VLH, which incorporates an exclusive thread design to automatically relieve stored pressure in the line when disconnected.
0092571	Not Required, Outlets, Right Side Additional	
0089584	Not Required, Elbow, Right Side Outlets, Additional	
0816625	Outlet, Large Diameter, Right Side, Akron Valve	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) Pierce large handwheel with indicator located at the pump operator's panel.
0005097	Elbow, Large Dia Outlet, 30 Deg, 4.00" FNST x 5.00" Storz	LARGE DIAMETER OUTLET ELBOWS The 4.00" outlet(s) will be furnished with one (1) 4.00" (F) National Standard hose thread x 5.00" Storz elbow adapter with Storz cap.

0649939	Outlet, Front, 1.50" w/2" Plumbing	FRONT DISCHARGE OUTLET There will be one (1) 1.50" discharge outlet piped to the front of the apparatus and located on the top of the right side of the front bumper. Plumbing will consist of 2.00" piping and flexible hose with a 2.00" ball 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.
0004995	Outlet, Rear, 2.50"	REAR DISCHARGE OUTLET There will be One (1) discharge outlet piped to the rear of the hose bed, left side, installed so proper clearance is provided for spanner wrenches or adapters. Plumbing will consist of 2.50" piping along with a 2.50" full flow ball valve with the control from the pump operator's panel.
0045091	Elbow, Rear Outlets, 45 Degree, 2.50" FNST x 2.50" MNST, VLH	REAR OUTLET ELBOWS The 2.50" discharge outlets located at the rear of the apparatus will be furnished with a 2.50" (F) National Standard hose thread x 2.50" (M) National Standard hose thread, chrome plated, 45 degree elbow. The elbow will be Pierce VLH, which incorporates an exclusive thread design to automatically relieve stored pressure in the line when disconnected.
0092574	Not Required, Outlet, Rear, Additional	
0085695	Not Required, Elbow, Rear Outlets, Large, Additional	
0092573	Not Required, Outlet, Hose Bed/Running Board Tray	
0752097	Caps/Plugs for 1.00" to 3.00" Discharges/Inlets, Chain	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.
0723042	Valve, 0.75" Bleeder, Discharges, "T" Swing Handle	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.
0055107	Outlet, 3.00" Deluge Riser, Akron Valve, Handwheel	DELUGE RISER A 3.00" deluge riser will be installed above the pump in such a manner that a monitor can be mounted and used effectively. Piping will be rigidly braced and installed securely so no movement develops when the line is charged. The riser will be gated and controlled at the pump operator's panel. The outlet will include an Akron valve with a handwheel control.
0770359	No Monitor Requested, Customer/Dealer Furnished and Installed	MONITOR A customer/dealer supplied and installed make and model TFT monitor will be properly installed on the deluge riser.
0029304	No Nozzle Req'd	
0005070	Deluge Mount, NPT	The deluge riser will have male National Pipe Threads for mounting the monitor.
0723726	Speedlay Module Not Required	
0722432	Hose Restraint Not Required, No Speedlay Module	

0723395	Speedlays, Not Required	
0723394	Speedlays, Not Required	
0025140	Not Required, 1.50" Crosslays	
0029196	Not Required, 2.50" Crosslay	
0500535	Not Required, Hose Restraint, Crosslay	
0508895	Speed, (2) 1.5" W/ Poly Tray, Top Mount/Side Control, Special Cap	SPEEDLAYS WITH TRAY Ahead of the pump enclosure, will be two (2) 1.75" speedlay hose beds. Each bed will have a 2.00" preconnect line with a 2.00" quarter-turn ball valve and terminate with a 1.50" National Standard hose thread 90-degree swivel. The swivel will be located at the top of the speedlay compartment to allow easy removal of the hose in either direction. Individual controls for the speedlays will be at the pump operator's panel. Each compartment will be capable of carrying 250' of 1.75" Double Jacket Hose for both speedlays. double-jacketed hose with the one (1) compartment located above the other. A removable tray will be provided for each speedlay hosebed. The speedlay trays 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. The bottom of the speedlay compartments will be lined with stainless steel to allow the tray to slide with ease. Scuffplates will be provided on both sides, at the sides and bottom of each opening to protect the paint.
0752945	Hose Restr, Spdly, 2"Nylon Web, (2) Seat Belt Buckle, Tether Release	SPEEDLAY HOSE RESTRAINT A 2.00" black nylon webbing design restraint will be provided across the ends of speedlay(s) to secure the hose during travel. The webbing assembly is to be attached at the bottom of the speedlay(s) with footman loops as a permanent attachment and is attached at the top outside corners with two (2) seat belt buckles. The female end is permanently attached above the speedlay(s) and the male end attached to the webbing. There will be a metal bar, to connect the buckles, and an attached web strap, to allow a single pull release. The color of the release strap will be red.
0039605	Tray(s), Poly, Additional, Speedlays	TRAY, SPEEDLAY There will be two (2) additional poly tray(s) provided for the speedlays. The trays will be identical in design and will be shipped with the loose equipment.
0758955	Reel, Booster, Aluminum, Rear Tailboard Comprt	BOOSTER HOSE REEL A Hannay electric rewind aluminum booster hose with polished discs will be installed in the rear tailboard compartment. Roll-up door for this compartment will not interfere with the hose reel. A polished stainless steel roller and guide assembly will be provided so the booster hose does not rub against a painted surface. Discharge control will be provided at the pump operator's panel. Plumbing to the reel will consist of 1.50" or larger Aeroquip hose, stainless steel pipe and a 1.50" valve. HOSE REEL BLOWOUT A hose reel blowout will be furnished to blow out any remaining water from the hose reel. The blowout will be piped from the wet tank of the brake system to the hose reel and will be controlled at the pump operator's panel.
0005279	Switch, Reel Rewind - One at Reel	Reel motor will be protected from overload with a circuit breaker rated to match the motor. An electric rewind control switch will be installed adjacent to the reel.
0005300	Hose, Booster - 150' of 1.00"/800 PSI	Booster hose, 1.00" diameter and 150 feet, with chrome plated Barway, or equal couplings will be provided. Working pressure of the booster hose will be a minimum of 800 psi.
0005244	Capacity, Hose Reel 200' of 1"	Capacity of the hose reel will be 200 feet of 1.00" booster hose.
0007428	Nozzle for Booster Reel Not Req'd	

0065417	Foam Sys, FoamPro 1600, (Single Agent)	FOAM SYSTEM There will be a Hypro/Foam Pro, Model 1600, direct injection foam proportioning system furnished and installed on the apparatus. The system will be a single agent system suitable for handling Class "A" foam concentrate only. The foam system will be plumbed to five (5) discharges. The discharges capable of dispensing foam will be Front Bumper Discharge, (2) 1.5" Speedlays, rear hose reel, and rear outlet. The proportioning operation will be based on an accurate direct measurement of water flows with no water flow restriction. The foam system will be installed in accordance with the manufacturer recommendations. The system will be equipped with a control module. It will be installed on the pump operator's panel and enable the pump operator to perform the following functions: Activate the foam system. Change foam concentrate proportioning rates from .1 percent to 1 percent. Flash a low concentrate warning light when the foam concentrate tank runs low of concentrate and in two (2) minutes if foam concentrate is not added to tank shut the foam pump down. The foam system will have a 12volt, 1/3 hp electric motor driven positive displacement piston type foam concentrate pump with a rated capacity of 1.7 gpm @ 200 psi with a maximum operating pressure of 400 psi. A full flow check valve will be provided in the discharge piping to prevent foam contamination of the fire pump and water tank. A 5 psi opening pressure check valve will be installed in the concentrate line. The number of discharges supplied with foam will be [Amount of Disc. W/Foam]. The discharges will be [Discharge].
0012126	Not Required, CAF Compressor	
0552517	Not Required, Refill, Foam Tank	
0031896	Demonstration, Foam System, Dealer Provided	
0022539	Foam Cell, 20 Gallon, Reduce Water	FOAM TANK The foam tank will be an integral portion of the polypropylene water tank. The cell will have a capacity of 20 gallons of foam with the intended use of Class A foam. The foam cell will reduce the capacity of the water tank. The foam cell will have a screen in the fill dome and a breather in the lid.
0091036	Drain, 1.00" Foam Tank #1	FOAM TANK DRAIN The foam tank drain will be a 1.00" drain valve located inside the pump compartment accessible through a door on the right side pump panel.
0091079	Not Required, Foam Tank #2	
0091112	Not Required, Foam Tank #2 Drain	
0738072	Approval Dwg, Pump Panel(s), Not Required	
0032479	Pump Panel Configuration, Control Zone	PUMP PANEL CONFIGURATION The pump panel configuration will be arranged and installed in an organized manner that will provide user-friendly operation.
0635355	Material, Pump Panels, Side Control Painted FormCoat Black	PUMP AND GAUGE PANEL The pump and gauge panels will be constructed of aluminum with a painted FormCoat black finish. A polished aluminum trim molding will be provided around each panel.
0721765	Panel, Pump Access - Right Side Only, Side Control	PUMP ACCESS Right Side Panel The right side upper pump panel will be removable. Panel Fastener The removable panels will be secured with black raised trigger latch. The left side pump panels will be attached with screws. The right side lower pump panel (drain bank) will be attached with screws.
0583824	Light, Pump Compt, Wln 3SC0CDCR LED White	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 pump compartment.

0586382	Gauges, Engine, Included With Pressure Controller	Engine monitoring graduated LED indicators will be incorporated with the pressure controller. Also provided at the pump panel will be the following: - Master Pump Drain Control
0005601	Throttle, Engine, Incl'd w/Press Controller	
0739224	Indicator Light @ Pump Panel, Throttle Ready, Incl w/Pressure Gov/Throttle, Green	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.
0549333	Indicators, Engine, Included with Pressure Controller	
0745568	Indicator Light, Pump Panel, Ok To Pump, Green	OK TO PUMP INDICATOR LIGHT There will be a green indicator light installed on the pump operators panel that is activated when the pump is in Ok To Pump mode.
0553643	Control, Air Horn at Pmp Pnl, Red Switch, Momentary	AIR HORN SWITCH An air horn control switch will be provided at the pump operator's control panel. This switch will be momentary red and properly labeled. The switch will be located within easy reach of the operator in the electrical switch panel.
0511078	Gauges, 4.00" Master, Class 1, 30"-0-600psi	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 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.
0511100	Gauge, 2.00" Pressure, Class 1, 30"-0-400psi	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.
0757359	Gauge, Water Level, Class 1, Pierce Std, Remote Module Driver	WATER LEVEL GAUGE There will be an electronic water level gauge provided on the operator's panel that registers water level by means of five (5) colored LED lights. The lights will be durable, ultra-bright five (5) LED design viewable through 180 degrees. The water level indicators will be as follows: 100 percent = Green 75 percent = Yellow 50 percent = Yellow 25 percent = Yellow Refill = Red The light will flash when the level drops below the given level indicator to provide an eighth of a tank indication. To further alert the pump operator, the lights will flash sequentially when the water tank is empty. The level measurement will be based on the sensing of head pressure of the fluid in the tank. The display will be constructed of a solid plastic material with a chrome plated die cast bezel to reduce vibrations that can cause broken wires and loose electronic components. The encapsulated design will provide complete protection from water and environmental elements. An industrial pressure transducer will be mounted to the outside of the tank. The field calibratable display measures head pressure to accurately show the tank level. The main water level gauge will be powered with battery switch. There will be a Hale part number 106877, 4-light driver module included with this installation to power additional water level gauges. The remote level lights will be energized when battery switch is on.

0750438	Water Level Gauge, Wln PSTANK2, LED 1-Light, 4-Level	WATER LEVEL GAUGE There will be two (2) additional water level indicator(s), Whelen®, Model PSTANK2, LED module with black trim, installed one (1) each side rearward of crew cab doors. 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 battery switch is on.
0062992	Gauge, Foam Level, (1) Tank, Class 1, GAAAR 5lt	FOAM LEVEL GAUGE An electronic foam level gauge will be provided on the operator's panel that registers foam level by means of five (5) colored LED lights. The lights will be durable, ultra-bright five (5) LED design viewable through 180 degrees. The foam level indicators will be as follows: 100 percent = Green 75 percent = Yellow 50 percent = Yellow 25 percent = Yellow Refill = Red The light will flash when the level drops below the given level indicator to provide an eighth of a tank indication. To further alert the pump operator, the lights will flash sequentially when the foam tank is empty. The level measurement will be based on the sensing of head pressure of the fluid in the tank. The display will be constructed of a solid plastic material with a chrome plated die cast bezel to reduce vibrations that can cause broken wires and loose electronic components. The encapsulated design will provide complete protection from foam and environmental elements. An industrial pressure transducer will be mounted to the outside of the tank. The display will be able to be calibrated in the field and will measure head pressure to accurately show the tank level.
0682503	Light Shield/Step 8", LED, P25 LED Stp Lt	STEP/LIGHT SHIELD There will be an aluminum treadplate stepping surface no less than 8.00" deep and properly reinforced to support a man's weight, installed over the pump operators panel. There will be 12 volt DC white LED lights installed under the step to illuminate the controls, switches, essential instructions, gauges, and instruments necessary for the operation of the apparatus. These lights will be activated by the pump panel light switch. Additional lights will be included every 18.00" depending on the size of the pump house. One (1) pump panel light will come on when the pump is in ok to pump mode. There will be a light activated above the pump panel light switch when the parking brake is applied. This is to afford the operator some illumination when first approaching the control panel. There will be one (1) white LED, step light provided above this step. In order to ensure exceptional illumination, each step light will provide a minimum of 25 foot-candles (fc) covering an entire 15.00" x 15.00" square placed 10.00" below the light and a minimum of 1.5 fc covering an entire 30.00" x 30.00" square at the same 10.00" distance below the light. The step light will be activated by the pump panel light switch.
0682498	Light Shield/Step 8", PS LED, P25 LED Stp Lt	ADDITIONAL STEP/LIGHT SHIELD There will be an additional aluminum treadplate stepping surface no less than 8.00" deep and properly reinforced to support a man's weight, installed over the passenger's side pump panel. There will be 12 volt DC white LED lights installed under the step to illuminate the controls, switches, essential instructions, gauges, and instruments necessary for the operation of the apparatus. These lights will be activated by the pump panel light switch. Additional lights will be included every 18.00" depending on the size of the pump house. There will be one (1) white LED, step light provided above the step. In order to ensure exceptional illumination, each step light will provide a minimum of 25 foot-candles (fc) covering an entire 15.00" x 15.00" square placed 10.00" below the light and a minimum of 1.5 fc covering an entire 30.00" x 30.00" square at the same 10.00" distance below the light. The step light will be activated by the pump panel light switch.
0606694	Air Horns, (2) Hadley, 6" Round, eTone, In Bumper	AIR HORN SYSTEM Two (2) Hadley®, eTone, chrome air horns will be recessed in the front bumper. 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.
0606835	Location, Air Horns, Bumper, Each Side, Outside Frame, Outboard (Pos #1 & #7)	Air Horn Location The air horns will be located on each side of the bumper, towards the outside.
0757092	Control, Air Horn, Multi Select	Air Horn Control The air horn(s) will be activated by the following:
0757072	Control, Air Horn, Rocker/Membrane Sw, RS	Right side momentary switch

0757084	Control, Air Horn, Horn Ring	Steering wheel horn ring with electric/air horn selector switch
0533071	Siren, WIn 295SLSC1, 100 or 200 Watt, w/Plug-in/Detachable Microphone Cord	ELECTRONIC SIREN A Whelen, Model: 295SLSC1, electronic siren with a plug-in, detachable noise canceling microphone will be provided. This siren to be active when the battery switch is on and that emergency master switch is on.
0790527	Location, Electronic Siren, Center Dash Switch Panel, Saber FR	The electronic siren head will be located in switch panel # 13 area of the center dash switch panel.
0076156	Control, Elec Siren, Head Only	The electronic siren will be controlled on the siren head only. No horn button or foot switches will be provided.
0601304	Speaker, (2) WIn, SA315P, w/Pierce Polished Stainless Steel Grille, 100 watt	SPEAKERS There will be two (2) Whelen®, Model SA315P, black nylon composite, 100-watt, speakers with through bumper mounting brackets and polished stainless steel grille provided. Each speaker will be connected to the siren amplifier.
0601558	Location, Speaker, Frt Bumper, Recessed, Ea Side, Outside Frame, Inbrd (Pos 2/6)	The speakers will be recessed in each side of the front bumper, just outside of the frame rails.
0895310	Siren, Federal Q2B	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.
0006095	Siren, Mechanical, Mounted Above Deckplate	The mechanical siren will be mounted on the bumper deck plate. It will be mounted on the left side. A reinforcement plate will be furnished to support the siren.
0748305	Control, Mech Siren, Multi Select	MECHANICAL SIREN CONTROL The mechanical siren will be activated by the following:
0748274	Control Mech Siren, Rocker/Membrane Sw, RS	Right side momentary switch.
0748282	Control, Mech Siren, Ft Sw LS	Left side foot switch.
0737437	Sw, Siren Brake, Momentary Red, Pnl 9, Saber FR/Enf	A momentary red switch will be included in switch panel #9 to activate the siren brake.
0731683	Sw, Siren Brake, Mom Rocker, Red Outline, Lower Sw Pnl, Mux	A momentary rocker switch with red outline around the black switch will be included in the lower switch panel to activate the siren brake.
0746353	Not Required, Warning Lights Intensity	

0803690	SP Lightbar, Wln, Freedom IV-Q, 72", RRRRRWRRRRWRRRRR	FRONT ZONE UPPER WARNING LIGHTS There will be one (1) 72.00" Whelen Freedom IV LED lightbar mounted on the cab roof. The lightbar will include the following: One (1) red flashing LED module in the left side end position. One (1) red flashing LED module in the left side front corner position. One (1) red flashing LED module in the left side first front position. One (1) red flashing LED module in the left side second front position. One (1) red flashing LED module in the left side third front position. One (1) white flashing LED module in the left side fourth front position. One (1) red flashing LED module in the left side fifth front position. One (1) red flashing LED module in the left side sixth front position. One (1) red flashing LED module in the right side sixth front position. One (1) red flashing LED module in the right side fifth front position. One (1) white flashing LED module in the right side fourth front position. One (1) red flashing LED module in the right side third front position. One (1) red flashing LED module in the right side second front position. One (1) red flashing LED module in the right side first front position. One (1) red flashing LED module in the right side front corner position. One (1) red flashing LED module in the right side 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 this lightbar. The white LEDs will be disabled when the parking brake is applied. Any of the red flashing LED modules in the front positions may be load managed when the parking brake is applied.
0016380	No Additional Lights Req'd, Side Zone Upper	
0761731	Lights, Front Zone, Wln M6** M6** M6** M6**, 4lts Q Bezel, Clr Fet	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 blue The passenger's side front inside warning light to be blue 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.
0554452	Light, Front, Wln M6*C LED, Clear Lens 1st	FRONT WARNING LIGHT There will be two (2) Whelen, Model M6*, LED flashing light(s) with chrome trim provided Front bumper in positions 3 & 5. The color of the light(s) will be red. The color of the lens will be clear. The light(s) will be activated with the front warning switch. These light may be load managed if colored or disabled if white when the parking brake is applied. Any white light will be disabled and any amber light activated when the parking brake is applied.
0653937	Flasher, Headlight Alternating	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.
0540692	Lights, Side Zone Lower, Wln M6*C LED, Clear Lens, 3pr, Ovr 25	SIDE ZONE LOWER LIGHTING There will be six (6) Whelen®, Model M6*C, flashing LED warning lights with chrome trim installed per the following: Two (2) lights, one (1) each side on the bumper extension. The side front lights to be red. Two (2) lights, one (1) each side of cab rearward of crew cab doors. The side middle lights to be red. Two (2) lights, one (1) each side above rear wheels. The side rear lights to be blue. The lights will include clear lenses. There will be a switch in the cab on the switch panel to control the lights.
0896616	Lights, Door Interior Flash, 4 Dr Cab, Weldon 8401-0000-20 Strip Light	INTERIOR CAB DOOR WARNING LIGHTS There will be four (4) Weldon, Model 8401-0000-20, 16" long x 3/4" High x 5/8" deep amber 12 volt DC LED flashing strip lights provided. One (1) light on the left side cab door. One (1) light on the right side cab door. One (1) light on the right side crew cab door. One (1) light on the left side crew cab door. Each light will be located over the door window.. Each light will be activated when the battery switch is on, respective door is opened and the ignition switch is on. Each light will be installed so the flash pattern directs traffic away from the doors.

0815847	Connectors, Door Interior Flash, All Cabs, Weatherproof	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.
0644686	Lights, Side Rf, Wln M4** LED, Paint Brkt, Custom 6lts	ADDITIONAL SIDE UPPER LIGHTS There will be six (6) Whelen, Model M4**, 3.38" high x 5.50" long x 1.38" deep LED surface mount flashing lights with chrome trim provided on the outside corner radius of the cab roof over the crew cab doors. The side front lights to be red. The side middle lights to be blue. The side rear lights to be red. The color of the lenses will be clear. The lights will be installed on two (2) painted bracket that are attached to the cab roof. Three (3) lights on the driver's side and three (3) lights installed on the passenger's side. There will be a switch in the cab on the switch panel to control the lights. White LED's will be disabled when the parking brake is applied. Colored LED's may be load managed when the parking brake is applied.
0672937	Lights, Side, Wln WIONSMC* LED, Chrome Flange, Mounted In Rub Rail, 1st	SIDE WARNING LIGHTS There will be four (4) Whelen, Model WIONSMC* LED light(s) provided and located in the body rub rails Rubrail under LS1, LS3, RS3, RS1. The lights will only be mounted with the rubber gasket if clearance allows it. The color of each light will be red LED with a clear lens. Each light will be provided with a chrome plated ABS flange. The light(s) will be activated with the side warning switch.
0564655	Lights, Rear Zn Lwr, Wln M6*C LED, Clear Lens, For Tail Lt Housing	REAR ZONE LOWER LIGHTING There will be two (2) Whelen®, Model M6*C, LED flashing warning lights located at the rear of the apparatus. The driver's side rear light to be red The passenger's side rear light to be red Both lights will include a lens that is clear. There will be a switch located in the cab on the switch panel to control the lights.
0740407	Lights, Rear, Wln M6** LED, Features 1st	REAR WARNING LIGHTS There will be two (2) Whelen®, Model M6**, 4.31" high x 6.75" wide x 1.37" deep flashing LED warning light(s) with chrome trim provided at the rear of the apparatus, Upper rear bulkhead below scene lights. The light(s) to include blue flashing LEDs. The warning light lens color(s) to be clear. These light(s) will be controlled with the rear upper warning switch. The light(s) may be load managed when the parking brake is applied.
0809546	Light, Rear Zone Up, Wln L31H5F Beacons, Red w/Clear Lens, 2Lts	REAR ZONE UPPER WARNING LIGHTS There will be two (2) Whelen®, Model L31H5F, 4.00" high x 7.18" in diameter beacons with red LEDs and clear domes mounted high at the rear of the apparatus, one to each outer edge of the body. There will be a switch in the cab on the switch panel that controls the beacons when the battery switch and emergency master switch is on.
0006551	Not Required, Lights, Rear Upper Zone Blocking	
0006615	Mounting, Rear Warn Lights, On Top of Compartment	The rear warning lights will be mounted on top of the compartmentation with all wiring totally enclosed. The rear deck lights will be mounted on the beavertails as high as possible.
0759107	Lights, Traffic Directing, Wln WIONSMC* Amber LED, 6 Lts, TACTL5	TRAFFIC DIRECTING LIGHT There will be six (6) Whelen® Model WIONSMC*, 1.68" high x 5.93" long x 1.12" deep lights with amber LEDs, clear lenses and chrome trim installed at the rear of the apparatus. There will be one (1) Whelen, Model TACTL5 control head energized when the battery switch is on included with this installation. The available flash patterns are: left arrow, right arrow, split and flash (center out and wig-wag) will be provided. The auxiliary flash to be activated when the emergency master switch is on.
0529278	Location, TDL, Surface Mounted	This traffic directing light will be surface mounted at the rear of the apparatus.
0530288	Location, Traf Dir Lt Controller, Overhead Recessed Console, above Eng Tnl DS	The traffic directing light controller will be located within the overhead recessed console above the engine tunnel on the driver's side.

0782807	Circuit Breaker Panel, Sub Feed, Cutler Hammer, Shoreline	SUB FEED CIRCUIT BREAKER PANEL There will be a shoreline powered sub feed circuit breaker panel installed in the LS3 Forward Wall High. A directory for each breaker will be provided adjacent to the circuit breaker panel. Identification of circuits will be done in a durable manner that provides years of service.
0781579	Receptacle, 15/20A 120V 3-Pr 3-Wr, NEMA 5-20R SB Dup, 1st, Interior Cab	120 VOLT RECEPTACLE There will be two (2), 15/20 amp 120 volt AC three (3) wire straight blade duplex receptacle(s) with interior stainless steel wall plate(s), installed (1) inside the DS EMS compt. high on forward inboard wall and (1) inside PS EMS compt. high on forward inboard 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 Rating (amps) Phase Frequency
0779698	Receptacle Strip, 15A 120V 6-Place, Interior Body	POWER OUTLET STRIP There will be one (1) receptacle strip(s) with six (6) 15 amp 120 volt AC straight blade receptacles provided Left wall of RS1 compt. as high as possible. The strip(s) selected will be powered from the shoreline inlet through a receptacle located adjacent to the strip(s). There will be a label installed near the strip(s) that state the following: Line Voltage Current Rating (amps) Phase Frequency
0519934	Not Required, Brand, Hydraulic Tool System	
0649753	Not Required, PTO Driven Hydraulic Tool System	
0007150	Bag of Nuts and Bolts	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.
0816508	NFPA Required Loose Equipment, Pumper, NFPA/ULC 2024, Provided by Fire Dept	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 207, <i>Standard for High Visibility Public Safety Vests</i> , 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. NFPA Loose Equipment That Shall 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 (60 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 (750 L/min) minimum. Two (2) handline nozzles, 95 gpm (360 L/min) minimum. One (1) smooth bore or combination nozzle with shutoff and with 2.50" (65 mm) inlet that flows a minimum of 250 gpm (950 L/min). Four (4) SCBA apparatus Four (4) SCBA spare cylinders One (1) first aid kit. Four (4) combination spanner wrenches. Two (2) hydrant wrenches. One (1) double female 2.50" (65 mm) adapter with national hose (NH) threads. One (1) double male 2.50" (65 mm) adapter with national hose (NH) threads. One (1) rubber mallet, for use on suction hose connections. Two (2) salvage covers each a minimum size of 12 ft x 18 ft (3.7 m x 5.5 m). One (1) automatic external defibrillator (AED).
0816941	Soft Suction Hose, Provided by Fire Department, NFPA/ULC 2024	SOFT SUCTION HOSE PROVIDED BY FIRE DEPARTMENT Hose is not on the apparatus as manufactured. The fire department will provide suction or supply hose.

0027023	No Strainer Required	
0816939	Extinguisher, Dry Chemical, NFPA 2024, Provided by Fire Department	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.
0816937	Extinguisher, 2.5 Gal. Pressurized Water, NFPA/ULC 2024, Provided by Fire Dept	WATER EXTINGUISHER PROVIDED BY FIRE DEPARTMENT The extinguisher is not on the apparatus as manufactured. The fire department will provide and mount the extinguisher.
0816998	Axe, Flathead, Provided by Fire Department	FLATHEAD AXE PROVIDED BY FIRE DEPARTMENT The axe is not on the apparatus as manufactured. The fire department will provide and mount the axe.
0817000	Axe, Pickhead, Provided by Fire Department	PICKHEAD AXE PROVIDED BY FIRE DEPARTMENT The axe is not on the apparatus as manufactured. The fire department will provide and mount the axe.

0741569	Paint Process / Environmental Requirements, Appleton	PAINT PROCESS The exterior custom cab and body painting procedure will consist of a seven (7) step finishing process as follows: <u>Manual Surface Preparation</u> - 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. <u>Chemical Cleaning and Pretreatment</u> - 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. <u>Surfacer Primer</u> - 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. <u>Finish Sanding</u> - 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. <u>Sealer Primer</u> - 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. <u>Basecoat Paint</u> - 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. <u>Clear Coat</u> - 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 manufacture'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.
0709566	Paint, Two-Tone Color, Enforcer	TWO-TONE CAB PAINT The cab will be painted two-tone with the upper section painted #101 black and the lower section painted 268 RED. There will be a standard two-tone cab paint break provided. There will be a standard cab shield provided.
0709845	Paint, Single Color, Body	BODY PAINT The body will be painted to match the lower section of the cab.

0646901	Paint Chassis Frame Assy, With Liner, E-Coat, Standard	PAINT CHASSIS FRAME ASSEMBLY The chassis frame assembly will be finished with a single system black top coat 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 painted (unless otherwise stated in a secondary option) are: Frame rails Frame liners Cross members Axles Suspensions Steering gear Battery boxes Bumper extension weldment Frame extensions Body mounting angles Rear Body support substructure (front and rear) Pump house substructure Steel fuel tank Castings Individual piece parts used in chassis and body assembly Components treated with epoxy E-coat protection prior to paint: Two (2) C-channel frame rails Two (2) frame liners The E-coat process will meet the technical properties shown.
0693798	Paint, Front Wheels	FRONT WHEELS PAINT All wheel surfaces, inside and outside, will be provided with powder coat paint #101 black.
0693793	Paint, Rear Wheels, Single Axle	REAR WHEELS PAINT All wheel surfaces, inside and outside, will be provided with powder coat paint #101 black.
0733739	Paint, Axle Hubs	AXLE HUB PAINT All axle hubs will be painted black #101.
0007230	Compartment, Painted, Spatter Gray	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.
0745909	Reflective Band, 1" Vinyl, 6" Reflective, 1" Vinyl w/Gaps Per Print	REFLECTIVE AND VINYL STRIPES Three (3) stripes will be provided across the front of the vehicle and along the sides of the cab and body. The band will consist of a 1.00" Charcoal Metallic vinyl stripe at the top with .25" black border top and bottom, then a 6.00" black reflective stripe with a 1.00" Charcoal Metallic vinyl stripe at the bottom with a .25" black border top and bottom. There will be a void between the stripes.
0007356	Reflective across Cab Face	The reflective band provided on the cab face will be at the headlight level.
0819898	Stripe, Chevron, Rear, Reflective, NFPA/ULC 2024, Pumper	REAR CHEVRON STRIPING There will be alternating chevron striping located on the rear-facing vertical surface of the apparatus. The rear surface, excluding the rear compartment door, will be covered. The colors will be ruby red and black reflective. Each stripe will be 6.00" in width.
0073811	Folded "Z" Ribbon in Reflective Stripe, Pair	FOLDED RIBBON IN REFLECTIVE STRIPE There will be one (1) folded type ribbon/s added to the reflective stripe Per LP Drawing.
0670031	Stripe, Reflective, Toolboard	TOOLBOARD REFLECTIVE STRIPES There will be ruby red reflective stripes installed on the two (2) toolboard(s) located LS2 and RS2 Toolboards.
0671882	Stripe, Reflective, Slide Out Tray, Front and Sides	SLIDE OUT TRAY REFLECTIVE STRIPES There will be ruby red reflective stripes installed on the front and sides of three (3) slide out tray (s) located LS1, RS1, RS2 Floor Trays.
0669643	Stripe, Reflective, Inside Aluminum Rub Rail	REFLECTIVE STRIPE INSIDE RUBRAILS A reflective stripe will be provided inside the extruded aluminum rubrails. The reflective material will be ruby red. There will be a quantity of four (4) rubrails striped.

0512024		Stripe, Reflective, Chevron/Inverted "V", On Front Bumper	CHEVRON/INVERTED "V" STRIPING ON THE FRONT BUMPER There will be alternating chevron striping located on the front bumper. The striping will consist of the following colors: The first color will be black The second color will be ruby red The size of the striping will be 6.00".
0509398		Stripe, Reflective, Chevron, Cab and Crew Cab Doors Interior	INVERTED "V" CHEVRON STRIPING ON CAB AND CREW CAB DOORS There will be alternating chevron striping located on the inside of each cab and crew cab door. The striping will consist of the following colors: The first color will be black The second color will be ruby red The size of the striping will be 6.00".
0679810		Stripe, Printed Effect Gold Leaf, Two-Tone Paint Break with Shield, IPO Chrome	CAB STRIPE There will be a printed effect gold leaf stripe provided on both sides of the cab in place of the chrome molding and on the cab face with shield.
0027372		Lettering Specifications, (GOLD STAR Process)	LETTERING The lettering will be totally encapsulated between two (2) layers of clear vinyl.
0685692		Lettering, Printed Effect Gold Leaf, 3.00", (1-20)	LETTERING One (1) to twenty (20) printed effect gold leaf lettering, 3.00" high, with outline and shade will be provided.
0685520		Lettering, Printed Effect Gold Leaf, 16.00", Each	LETTERING There will be printed effect gold leaf lettering, 16.00" high, with outline provided. There will be four (4) letters provided.
0685542		Lettering, Printed Effect Gold Leaf, 8.00", (21-40)	LETTERING Twenty-one (21) to forty (40) printed effect gold leaf lettering, 8.00" high, with outline and shade will be provided.
0685544		Lettering, Printed Effect Gold Leaf, 8.00", Each	LETTERING There will be printed effect gold leaf lettering, 8.00" high, with outline provided. There will be two (2) letters provided.
0822404		Lettering, Printed Effect Gold Leaf, Script, 2-3"	LETTERING, SCRIPT There will be printed effect gold leaf script lettering, approximately 2-3" in size, provided and installed per the fire departments submitted information.
0735249	SP	Plate, LG Painted Aluminum Panel, Upper Side Sheet, Graphics/Lettering (Color)	PAINTED PLATE FOR LETTERING There will be two (2) painted Black #101 aluminum sign panel(s) provided for the department's graphics/lettering. The panel(s) will be sized to fit and mounted to the upper side sheet area that is above the catwalk on the DS and PS upper side sheets side(s).
0684111		Emblem, Monogram w/Scrolling, Printed Effect Gold Leaf, 12"-14", Pair	EMBLEM/S There will be one (1) pair of printed effect gold leaf emblems, 12.00" to 14.00" wide, supplied and installed Cab Doors. The emblems will include the fire department's monogram or number inside of a circle with scrolling.
0665404	SP	Emblem, Monogram w/Scrolling, Gold Leaf, 12"-14", Each	EMBLEM/S There will be one (1) pair of genuine gold leaf emblems, 12.00" to 14.00" wide, supplied and installed B1 Rollup. The emblems will include the fire department's monogram or number inside of a circle with scrolling.
0666386		Emblem, Flag, Generic, Each	EMBLEM There will be two (2) emblem(s), approximately 15.00" - 17.00" wide in size, installed On EMS compt. doors. See LP Drawing. The emblem will be modeled after the department submitted information (art, patch, etc).
0766493		Emblem, American Flag Muted w/Thin Red Line, Ptd Cab Grille, All Custom Chassis	CAB GRILLE DESIGN A muted American flag with a thin red line design will be painted on the cab grille.

0772003	Manual, Fire Apparatus Parts, USB Flash Drive, Custom	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.
0772037	Manual, Chassis Service, USB Flash Drive, Custom	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.
0773381	Manual, Chassis Operation, (1) USB Flash Drive, Custom	CHASSIS OPERATION MANUAL The chassis operation manual will be provided on one (1) USB flash drive.
0030008	Warranty, Basic, 1 Year, Apparatus, WA0008	ONE (1) YEAR MATERIAL AND WORKMANSHIP A Pierce basic apparatus limited warranty certificate, WA0008, is included with this proposal.
0735523	Warranty, Engine, Paccar MX13, 5 Year, WA0386	ENGINE WARRANTY A Paccar five (5) year limited engine warranty will be provided. A limited warranty certificate is included with this proposal.
0684953	Warranty, Steering Gear, Sheppard M110, 3 Year WA0201	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.
0596017	Warranty, Frame, 50 Year, Custom Chassis, WA0013	FIFTY (50) YEAR STRUCTURAL INTEGRITY The Pierce custom chassis frame only (does not include crossmembers) limited warranty certificate, WA0013, is included with this proposal.
0595698	Warranty, Axle, 3 Year, TAK-4, WA0050	FRONT AXLE THREE (3) YEAR MATERIAL AND WORKMANSHIP WARRANTY The Pierce TAK-4 suspension limited warranty certificate, WA0050, is included with this proposal.
0610485	Warranty, Axle, Eaton/Dana, 5 Year/100,000 Mile, Parts and Labor	REAR AXLE WARRANTY A Eaton five (5)-year/100,000 mile parts and labor warranty will be provided.
0652758	Warranty, ABS Brake System, 3 Year, Meritor Wabco, WA0232	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.
0019914	Warranty, Structure, 10 Year, Custom Cab, WA0012	TEN (10) YEAR STRUCTURAL INTEGRITY The Pierce custom cab limited warranty certificate, WA0012, is included with this proposal.

0744240	Warranty, Paint, 10 Year, Cab, Pro-Rate, WA0055	TEN (10) YEAR PRO-RATED PAINT AND CORROSION A Pierce cab limited pro-rated paint warranty certificate, WA0055, is included with this proposal.
0524627	Warranty, Electronics, 5 Year, MUX, WA0014	FIVE (5) YEAR MATERIAL AND WORKMANSHIP The Pierce Command Zone electronics limited warranty certificate, WA0014, is included with this proposal.
0695416	Warranty, Pierce Camera System, WA0188	CAMERA SYSTEM WARRANTY A Pierce fifty four (54) month warranty will be provided for the camera system.
0708760	Warranty, Not Applicable, LED Strip Lights	COMPARTMENT LIGHT WARRANTY The compartment lights will not offer an extended warranty.
0046369	Warranty, 5-year EVS Transmission, Standard Custom, WA0187	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.
0685945	Warranty, Transmission Cooler, WA0216	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.
0688798	Warranty, Water Tank, Lifetime, UPF, Poly Tank, WA0195	WATER TANK WARRANTY A UPF poly water tank limited warranty certificate, WA0195, is included with this proposal.
0596025	Warranty, Structure, 10 Year, Body, WA0009	TEN (10) YEAR STRUCTURAL INTEGRITY The Pierce apparatus body limited warranty certificate, WA0009, is included with this proposal.
0693126	Warranty, AMDOR, Roll-up Door, 10 Year/5 Year Painted, WA0185	ROLL UP DOOR MATERIAL AND WORKMANSHIP WARRANTY An AMDOR roll-up door limited warranty will be provided. The roll-up door will be warranted against manufacturing defects for a period of ten (10) years . A five (5) year limited warranty will be provided on painted roll up doors. The limited warranty certificate, WA0185, is included with this proposal.
0582368	Warranty, Pump, Darley, 6 Year Parts 3 Year Labor, WA0179	PUMP WARRANTY A Darley pump limited warranty certificate, WA0179, is included with this proposal.
0648675	Warranty, 10 Year S/S Pumping, WA0035	TEN (10) YEAR PUMP PLUMBING WARRANTY The Pierce apparatus plumbing limited warranty certificate, WA0035, is included with this proposal.
0641372	Warranty, Foam System, Not Available	
0595820	Warranty, Paint, 10 Year, Body, Pro-Rate, WA0057	TEN (10) YEAR PRO-RATED PAINT AND CORROSION A Pierce body limited pro-rated paint warranty certificate, WA0057, is included with this proposal.
0595421	Warranty, Goldstar, 3 Year, Apparatus, WA0018	THREE (3) YEAR MATERIAL AND WORKMANSHIP The Pierce Goldstar gold leaf lamination limited warranty limited warranty certificate, WA0018, is included with this proposal.
0819254	Certification, Vehicle Stability, CD0196	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.
0808565	Certification, Engine Installation, Enf, Paccar MX, 2027	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.

0686786	Certification, Power Steering, CD0098	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.
0892691	Certification, Cab Integrity, Saber FR/Enforcer, CD0189	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. There will be no exception to any portion of the cab integrity certification. Nonconformance will lead to immediate rejection of bid.
0631973	Certification, Cab Door Durability, Saber FR/Enforcer, CD0137	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.
0631978	Certification, Windshield Wiper Durability, Saber FR/Enforcer, CD0132	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 <i>Windshield Wiper Systems - Trucks, Buses and Multipurpose Vehicles</i>. The bidder will certify that the wiper system design has been tested and that the wiper system has met these criteria.
0631974	Certification, Electric Window Durability, Saber FR/Enforcer, CD0133	ELECTRIC WINDOW DURABILITY CERTIFICATION Cab window roll-up systems can cause maintenance problems if not designed for long service life. The window regulator design will complete 30,000 complete up-down cycles and still function normally when finished. The bidder will certify that sample doors and windows similar to those provided on the apparatus have been tested and have met these criteria without malfunction or significant component wear.
0631977	Certification, Seat Belt Anchors and Mounting, Saber FR/Enforcer, CD0134	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.

0735949	Certification, Cab HVAC System Performance, SFR/Enf, CD0165/CD0167/CD0174/CD0175	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.<i>The bidder will certify that the defrost system design has been tested in a cold chamber and passes the SAE J381 criteria.</i> Cab Auxiliary Heater <i>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.</i>
0545073	Amp Draw Report, NFPA Current Edition	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.
0002758	Amp Draw, NFPA/ULC Radio Allowance	
0799248	Appleton/Florida BTO	
0000018	PUMPER, 2ND GEN	
0000012	PIERCE CHASSIS	
0735525	PACCAR MX13 ENGINE	
0046396	EVS 4000 Series TRANSMISSION	
0018574	DARLEY PUMP	
0020009	POLY TANK	
0028048	FOAM SYSTEM	
0020006	SIDE CONTROL	
0020007	AKRON VALVES	
0020015	ABS SYSTEM	
0658751	PUMPER BASE	



Option List

9/19/2024

Customer: Hewitt, TX Fire Department
Representative: Peters, Brian
Organization: Siddons-Martin Emergency Group
Requirements Manager:
Description: 2024 Hewitt Pumper
Body: Pumper, Long, Aluminum, 2nd Gen
Chassis: Enforcer Chassis

Bid Number: 1163
Job Number:
Number of Units: 1
Bid Date: 10/31/2024
Stock Number:
Price Level: 50 (Current: 50)
Lane: Lane 1

Line	Option	Type	Option Description	Qty
1	0766611		Boiler Plates, Pumper	1
			Fire Department/Customer - Hewitt Fire Department	
			Operating/In conjunction W-Service Center - In Conjunction	
			Miles - 75 Miles	
			Number of Fire Dept/Municipalities - 2	
			Bidder/Sales Organization - Siddons-Martin	
			Delivery - Delivery representative	
			Dealership/Sales Organization, Service - Siddons-Martin	
2	0661794		Single Source Compliance	1
3	0584456		Manufacture Location, Appleton, Wisconsin	1
4	0584452		RFP Location: Appleton, Wisconsin	1
5	0588609		Vehicle Destination, US	1
6	0764706	SP	BMP Truck- Pre-Approval at Bid - Approved Option will be Required at Booking	1
7	0816491		Comply NFPA 1900 Changes Effective Jan 1, 2024, With Exceptions	1
8	0533347		Pumper/Pumper with Aerial Device Fire Apparatus	1
9	0588611		Vehicle Certification, Pumper	1
10	0661778		Agency, Apparatus Certification, Pumper/Tanker, U.L.	1
11	0816495		Certification, Vehicle Inspection Program, NFPA 1900	1
12	0620362		Consortium, HGAC	1
13	0537375		Unit of Measure, US Gallons	1
14	0030006		Bid Bond Not Requested	1
15	0816849		Performance Bond, Not Requested	1
16	0000007		Approval Drawing	1
17	0002928		Electrical Diagrams	1
18	0649754		Enforcer Chassis	1
19	0000110		Wheelbase	1
			Wheelbase - 210.50"	
20	0000070		GVW Rating	1
			GVW rating - 46,500	
21	0729280		Frame Rails, 13.38 x 3.50 x .375, Enforcer	1
22	0889469		Frame Liner, "C/Inv L" 12.50" x 3.00" x .25", AXT/Vel/Imp/Enf, 56" QVal	1
23	0630705		Axle, Front, Oshkosh TAK-4, Non Drive, 19,500 lb, Enforcer	1
24	0030264		Suspension, Front TAK-4, 19,500 lb, Qtm/AXT/Imp/Vel/Enf/SFR	1
25	0087572		Shock Absorbers, KONI, TAK-4, Qtm/AXT/Imp/Vel/DCF/Enf	1
26	0000322		Oil Seals, Front Axle	1
27	0802633		Tires, Front, Goodyear, Armor Max MSA, 385/65R22.50, 18 ply, Fire Ser. Load Rtg	1
28	0604672		Wheels, Front, Accuride, 22.50" x 12.25", Steel, Hub Pilot	1
29	0640711		Axle, Rear, Dana S26-190, 27,000 lb Saber/Enforcer	1
30	0544253		Top Speed of Vehicle, 68 MPH /109 KPH	1
31	0565380		Suspen, Rear, Single Slipper Spring, 27,000 lb, Saber/Enforcer	1
32	0000485		Oil Seals, Rear Axle	1
33	0824971		Tires, Rear, Goodyear, G622 RSD, 12R22.50, 16 ply, Single	1
34	0654806		Wheels, Rear, Accuride, 22.50" x 8.25", Steel, Hub Pilot, Single	1
35	0568081		Tire Balancing, Counteract Beads	1
36	0620570		Tire Pressure Monitoring, RealWheels, AirSecure, Valve Cap, Single Axle	1
			Qty, Tire Pressure Ind - 6	
37	0801909		Lug Nut, Covers, Chrome	1
38	0002045		Mud Flap, Front and Rear, Pierce Logo	1
39	0617577		Chocks, Wheel, Worden HWG- SB, Super Gripper	1
			Qty, Pair - 01	

Line	Option	Type	Option Description	Qty
40	0646364		Mounting Brackets, Chocks, Worden Safety, Model U815T Location, Wheel chock - Ahead of DS rear wheels Qty, Pair - 01	1
41	0820509		ESC/ABS/ATC Wabco Brake System, Single Rear Axle, NFPA 1900/ULC	1
42	0030185		Brakes, Knorr/Bendix 17", Disc, Front, TAK-4	1
43	0627930		Brakes, Bendix, Cam, Rear, 16.50 x 8.63"	1
44	0735527		Air Compressor, Brake, Wabco 26.8 CI, Paccar	1
45	0644232		Brake Reservoirs, 4,272 Cubic Inch Minimum Capacity, Saber FR/Enforcer Paint Color, Air Tanks - Frame color	1
46	0568012		Air Dryer, Wabco System Saver 1200, Heater, 2010	1
47	0000790		Brake Lines, Nylon	1
48	0617799		Inlet/Outlet, Air, w/Disconnect Fitting, 1/4 Turn Valve, Location Location - Lower Left corner of DS Pump Panel below speedlay Qty, Air Coupling (s) - 1	1
49	0014130		Air Tank, Additional for Extra Air Horn Capacity Paint Color, Air Tanks - Frame color	1
50	0808515		Engine, Paccar MX, 510HP, 1850 lb-ftW/OBD, EPA 2027, Saber FR/Enforcer	1
51	0811409		Not Required, Engine Contingency Adjustment	1
52	0001244		High Idle w/Electronic Engine, Custom	1
53	0735687		Engine Brake, Fully Integrated, Paccar MX13 Engine Switch, Engine Brake - MX13	1
54	0644227		Clutch, Fan, Air Actuated, Saber FR/Enforcer	1
55	0640477		Air Intake, Metal Screen, Saber FR/Enforcer	1
56	0814375		Exhaust System, Horizontal, Right Side 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)	1
57	0788765		Radiator, Saber FR/Enforcer	1
58	0001090		Cooling Hoses, Rubber	1
59	0001125		Fuel Tank, 65 Gallon, Left Side Fill	1
60	0001129		Lines, Fuel	1
61	0734655		DEF Tank, 7.3 Gallon, LS Fill, Under Cab, Paccar, Fill Dr, ENF Door, Material & Finish, DEF Tank - Painted Latch, Door, Access - SouthCo C2 black raised	1
62	0552793		Not Required, Fuel Priming Pump	1
63	0552712		Not Required, Shutoff Valve, Fuel Line	1
64	0699437		Cooler, Chassis Fuel, Not Req'd.	1
65	0011125		Door, Fuel Fill Painted Job Color Qty, - 01	1
66	0690880		No Selection Required From This Category	1
67	0887546		Trans, Allison 6th Gen, 4000 EVS P, w/Prognostics, Imp/Vel/SFR/Enf	1
68	0625331		Transmission, Shifter, 6-Spd, Push Button, 4000 EVS	1
69	0684459		Transmission Oil Cooler, Modine, External	1
70	0630574		Informational, Transmission Program, Shift To Neutral w/Prk Brk	1
71	0001375		Driveline, Spicer 1810	1
72	0734211		Steering, Sheppard M110 w/Tilt, TAK-4, Paccar Pump, w/Cooler, Paccar	1
73	0605356		Steering Wheel, 4 Spoke without Controls, Saber FR/Enforcer	1
74	0690274		Logo/Emblem, on Dash Text, Row (1) One - Hewitt Text, Row (2) Two - Fire Text, Row (3) Three - Department	1
75	0606441		Bumper, 19" Extended, Steel Painted, Saber FR/Enforcer	1
76	0637813		Tray, Hose, Center, 19" Bumper, Outside Air Horns, 15" Deep, 13" Below/2" Above Grating, Bumper extension - Grating, None Capacity, Bumper Tray - 21) 150' of 1.75"	1
77	0630809		Cover, Aluminum Treadplate, One (1) D-Ring Latch, Hose Tray, Notched Location - opposite of the notch Stay arm, Tray Cover - b) Pneumatic Stay Arm	1
78	0614646		No Lift & Tow Package, Imp/Vel, AXT, SFR/Enf	1
79	0002270		Tow Hooks, Chrome	1
80	0698960		Coating, Top Flange, Front Bumper, Outside Exterior, UL-LX Coating, Black	1

Line	Option	Type	Option Description	Qty
81	0648332		Cab, Enforcer, 7010 **	1
82	0747442		Engine Tunnel, X12, MX13, Spray Insulation, Enforcer	1
83	0887601		Cab Insulation, Enforcer/Saber FR	1
84	0633594		Rear Wall, Interior, Adjustable Seating	1
85	0632103		Rear Wall, Exterior, Cab, Saber FR/Enforcer	1
			Material, Exterior Rear Wall - Aluminum Treadplate	
86	0644201		Cab Lift, Elec/Hyd, Saber FR/Enforcer	1
87	0695930		Grille, Bright Finished, Front of Cab, Enforcer	1
88	0647932		Not Required, Trim, S/S Band, Across Cab Face, AXT/Saber/Enforcer	1
89	0015440		No Chrome Molding, On side of cab	1
90	0590424		Mirrors, Retractable, West Coast Style, Htd/Rmt, w/Htd/Rmt Convex, Black	1
91	0648172		Door, Full Height, Saber FR/Enforcer 4-Door Cab, Raised Roof	1
			Key Model, Cab Doors - 751	
			Cab, Exterior Door Handle, Finish - 4-Door, Chrome/Black	
92	0655543		Door Panel, Brushed Stainless Steel, Saber/Enforcer 4-Door Cab	1
93	0630636		Controls, Electric Roll-Up Windows, 4dr, 4 Driver Controls, Saber FR/Enforcer	1
94	0638310		Steps, 4-Door Cab, Saber FR/Enforcer	1
			Step Well Material - Aluminum Treadplate	
95	0770194		Handrail, Exterior, Knurled, Alum, 4-Door Cab	1
96	0892638		Lights, Cab & Crw Cab Acs Stps, P25, LED w/Bezel, 6lts	1
			Color, Trim - Chrome Housing	
97	0583698		Fenders, S/S on cab, Extra Wide, Saber/Enf	1
98	0042105		No Windows, Side of Crew Cab	1
99	0012090		Not Required, Windows, Front/Side of raised roof	1
100	0779033		Not Required, Windows Rear of Crew Cab, Saber FR/Enforcer	1
101	0809780		Compt, 16.50 W x 16 LS/25.50 RS H x 15 D, Ea Side C/C, Dbl Pan, DEF, 70" Enf	1
			Light, Aux Cab Compartments - Amdor, White Hinged Side	
			Finish, Cab Compt/Component - Cab Interior	
			Door, Cab Exterior Cabinet - Double Pan, (2), Non-Locking	
			Door, Exterior Stop - 2-Web Strap	
102	0602317		Storage Pockets, Elastic Cover, Recessed, Switch Panel, Saber FR/Enf	1
			Location - Location #11	
			Qty, - 1	
103	0618193		Storage Pockets, Elastic Cover, Recessed, Overhead Switch Panel, Saber FR/Enf	2
			Location - Location #6, PNL POS B	
			Qty, - 02	
104	0722796		Dash, Poly, Saber FR/Enforcer	1
105	0614915		Work Surface, 1/4" Alum, Full Engine Tunnel, Flat, Lower Rear, SFR/Enf	1
			Material Finish, Cab Interior - Painted	
106	0657893		Mounting Plate, 3/16" Aluminum, Cab Interior	2
			Location - DS and PS outboard positions on back wall between forward facing seats and outboard wall.	
			Qty, - 02	
			Size - From just below the adjustable seat tracking to the floor and as wide as possible	
			Mounting Provision Spacing - 1.00"	
			Material Finish, Cab Interior - Painted	
107	0750824		Cab Interior, Vinyl Headliner, Saber FR/Enforcer, CARE	1
			Color, Cab Interior Vinyl/Fabric - Endure Vinyl - Black	
			Engine Tunnel Cover - Black Endure Vinyl	
			Cab Interior Rear Wall Material - Painted Aluminum	
108	0753903		Cab Interior, Paint Color, Saber FR/Enforcer	1
			Color, Cab Interior Paint - d) red	
109	0052100		Floor, Rubber Padded, Cab & Crew Cab, Saber/Enforcer	1
110	0722696		HVAC, Standard-Duty, Enforcer, CARE	1
			HVAC System, Filter Access - Removable Panel	
			Auxiliary Cab Heater - Both	
			HVAC System, Control Loc. - Panel Position #12	
			Plenum Cover Material - Metal, Painted	
111	0677382		Guard, Brush, Painted, For Coleman A/C Unit, Cab Roof	1
112	0788991		Air Conditioning, Coleman-Mach 8, Roughneck, 120V, 15K Cool Only, Cab Roof, Black	1
			Thermostat - Coleman ceiling unit	

Line	Option	Type	Option Description	Qty
112			AC Power Source - Shoreline	
113	0639675		Sun Visor, Smoked Lexan, AXT, Imp/Vel, SFR/Enf	1
			Sun Visor Retention - Thumb Latch	
114	0634328		Grab Handles, Driver and Officer Door Posts, Saber FR/Enforcer	1
115	0583938		Lights, Engine Compt, Custom, Auto Sw, WIn 3SC0CDCR, 3" LED, Trim	1
			Qty, - 01	
116	0631830		Fluid Check Access, Saber FR/Enforcer, Arrow XT	1
			Latch, Door, Storage - Southco C2 Black Flush	
117	0583042		Side Roll and Frontal Impact Protection	1
118	0622619		Seating Capacity, 4 Belted Seats	1
119	0636955		Seat, Driver, Pierce PSV, Air Ride, High Back, Safety, PRIMARY, SFR/Enf	1
120	0636942		Seat, Officer, Pierce PSV, Fixed, SCBA, Safety, PRIMARY, SFR/Enf	1
121	0620420		Radio Compartment, Below Non-Air Ride Seat, Saber FR/Enforcer	1
			Latch, Door, Storage - Southco C2 Black Flush	
122	0822577		Cabinet, Rear Facing, LS, 23 W x 34 H x 26.75 D, Web, Ext Acc, SFR/Enf	1
			Light, Short Cabinet - Amdor, Exterior, White, Left Side	
			Scuffplate, Material/Finish - S/S, Brushed	
			Material Finish, Shelf - Painted - Cab Interior	
			Shelf/Tray, Cabinet - (2) Shelves, Adjustable, 0.75" Flange Down	
			Door, Cab Exterior Cabinet - Double Pan, Non-Locking	
			Door, Exterior Stop - Web Strap	
			Louvers, Cabinet - 0-No Louvers	
			Fastener, Web, Cab Cabinet - 1" Cam Buckle, Bottom	
123	0102783		Not Required, Seat, Rr Facing C/C, Center	1
124	0822590		Cabinet, Rear Facing, RS, 22 W x 34 H x 26.75 D, Web, Ext Acc, SFR/Enf	1
			Light, Short Cabinet - Amdor, Exterior, White, Left Side	
			Scuffplate, Material/Finish - S/S, Brushed	
			Material Finish, Shelf - Painted - Cab Interior	
			Shelf/Tray, Cabinet - (2) Shelves, Adjustable, 0.75" Flange Down	
			Door, Cab Exterior Cabinet - Double Pan, Non-Locking	
			Door, Exterior Stop - Web Strap	
			Louvers, Cabinet - 0-No Louvers	
			Fastener, Web, Cab Cabinet - 1" Cam Buckle, Bottom	
125	0108189		Not Required, Seat, Forward Facing C/C, LS Outboard	1
126	0607011		Seat, Fwd Fcng C/C, Ctr, (2) PSV, SCBA, Safety, 5.5" Sp, Riser, SECONDARY, SFR/Enf	1
127	0108190		Not Required, Seat, Forward Facing C/C, RS Outboard	1
128	0761572	SP	Compt, Storage, Forward Facing, Overhead, 88 W x 10 H x 9 D, Saber FR/Enf	1
			Latch, Storage Compt - a) Non Locking	
			Qty, Compt Door - (2)	
			Light, Overhead Compt - Pierce, Horizontal Mounted	
129	0766467		Upholstery, Seats In Cab, All Vinyl, Seats Inc, CARE	4
			Color, Cab Interior Vinyl/Fabric - Endure Vinyl - Black	
			Qty, - 04	
130	0543991		Bracket, Air Bottle, Hands-Free II, Cab Seats	3
			Qty, - 03	
131	0603866		Seat Belt, Dual Retractor, ReadyReach, Saber FR/Enforcer	1
			Seat Belt Color - Red	
132	0817557		Helmet Storage, Provided by Fire Department, NFPA/ULC 2024	1
133	0647647		Lights, Dome, FRP Dual LED 4 Lts	1
			Color, Dome Lt - Red & White	
			Color, Dome Lt Bzl - Black	
			Control, Dome Lt White - Door Switches and Lens Switch	
			Control, Dome Lt Color - Lens Switch	
134	0896451		Enhanced Software for Cab and Crew Cab Dome Lts	1
135	0816997		Portable Hand Light, Provided by Fire Dept, NFPA/ULC 2024	1
136	0622803		Cab Instruments, Black Gauges, Black Bezels, Enforcer MUX	1
			Emergency Switching - Individual Switches	
137	0509511		Air Restriction Indicator, Imp/Vel, AXT, Dash CF, Enf MUX	1
138	0543751		Light, Do Not Move Apparatus	1
			Alarm, Do Not Move Truck - No Alarm	
139	0509042		Messages, Open Dr/DNMT, Color Dsply,	1
140	0622798		Switching, Cab Instrument Lower Console & Overhead, Rocker MUX, Enforcer	1

Line	Option	Type	Option Description	Qty
141	0802940		Wiper Control, 2-Speed with Intermittent, Saber FR/Enforcer	1
			Location, Wiper Control - Standard Location	
142	0820904		Wiring, Spare, 15 A 12V DC 1st NFPA1900/ULC	1
			Qty, - 01	
			12vdc power from - Battery switched	
			Wire termination - 15 amp power point plug	
			Location, Spare Wiring - Engine Tunnel - Officer's Side	
143	0821444		Wiring, Spare, 20 A 12V DC, 12 Circuit Fuse Block Blue Sea 5032 1st NFPA1900/ULC	1
			Qty, - 01	
			12vdc power from - Battery switched	
			Location - (1) Behind driver seat mounted to the front face of the EMS compt.	
			12vdc power from 2 - b) switched battery	
144	0820920		Wiring, Spare, 4.8 A 12V DC, USB Termination Blue Sea 1045 2nd NFPA1900/ULC	2
			Qty, - 02	
			12vdc power from - Battery switched	
			Location - Back of engine tunnel between EMS compts. and engine tunnel, coiled up loose for install by dealer.	
145	0820897		Wiring, Spare, 15 A 12V DC, Batt Dir, 2nd NFPA1900/ULC	1
			Location, Wiring - Overhead of officer	
			12vdc power from - Battery direct	
			Wire termination - Butt Splice	
146	0821470		Wiring, Spare, 4.8 A 12V DC, USB Termination 1st NFPA1900/ULC	1
			Qty, - 01	
			12vdc power from - Battery switched	
			Location - corner of officer dash to the right of Panel #14	
147	0820894		Wiring, Spare, 15 A 12V DC, Batt Dir, 1st NFPA1900/ULC	1
			Location, Wiring - Officer Dash	
			12vdc power from - Battery direct	
			Wire termination - Butt Splice	
148	0814201		Vehicle Information Center, 7" Color Display, Touchscreen, MUX, CL714 **	1
			System Of Measurement - US Customary	
149	0816633		Collision Mitigation, HAAS Alert (R2V), HA7	1
			Subscription, HAAS R2V - R2V - 5 Year Data Plan Subscription	
150	0606247		Vehicle Data Recorder w/CZ Display Seat Belt Monitor	1
151	0696439		Antenna Mount, Custom Chassis, Cable Routed to Instrument Panel Area	1
			Qty, - 01	
			Location, Antenna Mount - Right Side	
152	0816486		Camera, Pierce, LS Mux, RS, R, SD Cameras, CL714 **	1
			Camera System Audio - Not Provided	
153	0814831		Not Required, Camera Switcher	1
154	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	
155	0896456		Prognostics, Electrical System	1
156	0816093		ClearSky Telematics, Remote Fleet & On-scene Management, AT&T Commercial *	1
			Subscription, Telematics - 3 Year Subscription	
157	0624253		Electrical System, Enforcer MUX	1
158	0079211		Batteries, (6) Stryten/Exide Grp 31, 950 CCA each, Threaded Stud	1
159	0008621		Battery System, Single Start, All Custom Chassis	1
160	0002698		Battery Compartment, Saber/Enforcer	1
161	0813848		Charger, Sngl Sys, IOTA, DLS-75, 75 amp, IQ4 Controller	1
162	0814869		Location, Cab, Charger, Behind Driver Seat	1
163	0813791		Panel, Charger Display, Kussmaul, 091-94-12, Batt Dir	1
164	0814939		Location, Cab, Ind/Remote, Driver's Seat Riser	1
165	0507624		Shoreline, 30A 120V, Kussmaul Auto Eject, 091-159-30-120, Super	1
			Qty, - 01	
			Color, Kussmaul Cover - b) red	
			Connection, Shoreline - Chassis batteries and Coleman AC	
166	0026800		Shoreline Location	1
			Location, Shoreline(s) - DS Cab, Frt Corner	
167	0647728		Alternator, 430 amp, Delco Remy 55SI	1

Line	Option	Type	Option Description	Qty
168	0092582		Load Manager/Sequencer, MUX	1
			Enable/Disable Hi-Idle - e)High Idle enable	
169	0724853		Headlights, Rect LED, HiViz FT-4X6-4KIT, AXT/DCF/Enf/Imp/Sab/Vel, Trim	1
			Color, Headlight Housing and Trim - Polished Housing and Chrome Trim	
170	0625953		Light, Directional, Wln 600 Cmb, Cab Crn, Wrp Bzl Out HD Lts, Enf/Sab	1
			Color, Lens, LED's - c)clear	
171	0620054		Light, Directional/Marker, Intermediate, Weldon 9186-8580-29 LED 2lts	1
172	0736083		Lights, Clearance/Marker, Side, P25 LED 2 Lts, Others With Visor Lt	1
173	0625210		Lights, Directional, Cab Front Side, Truck-Lite 19036Y LED, AXT/Enf	1
174	0627282		Lights, Clearance/Marker/ID, Rear, FRP LED Bar & P25 LED 4Lts	1
175	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)	
176	0806466		Lights, Backup, Wln M62BU, LED, For Tail Lt Housing	1
177	0889577		Bracket, License Plate & Light, P25 LED, Stainless Brkt	1
			Color, Trim - Chrome Housing	
178	0556842		Bezels, Wln, (2) M6 Chrome Pierce, For mtg (4) Wln M6 lights	1
179	0589905		Alarm, Back-up Warning, PRECO 1040	1
180	0626588		Lights, Perimeter Cab, TecNiq T10-LC00-1 15" LED 4Dr	1
181	0617901		Lights, Perimeter Pump House, TecNiq T10-LC00-1 15" LED 2lts	1
182	0626579		Lights, Perimeter Body, TecNiq T10-LC00-1 15" LED 2lts, Rear Step	1
			Control, Perimeter Lts - Parking Brake Applied and Directional Light	
			Activated with 10 Sec Del	
183	0896454		Enhanced Software for Perimeter Lts	1
184	0556360		Lights, Step, P25 LED 4lts, Pump Pnl Sw	1
185	0762177		Light, Visor, HiViz, FT-B-72-ML-*, Cntl Feat, Flush w/Cab	1
			Control, Scene Lts - Cab Sw Panel DS and Cab Sw Panel PS	
			Color, Lt Housing HiViz - Black	
186	0736731		Lights, HiViz FT-GESM LED 1st	1
			Location - DS above EMS Compt.	
			Qty, - 01	
			Control, Scene Lts - Cab Sw Panel DS, Pump Panel Sw LS and Cab Sw	
			Panel PS	
			Color, Lt Housing HiViz - Blk Opt Hold, Blk Bez, Blk Fix	
187	0736729		Lights, HiViz FT-GESM LED 2nd	1
			Location - PS above EMS Compt.	
			Qty, - 01	
			Control, Scene Lts - Cab Sw Panel DS, Pump Panel Sw LS and Cab Sw	
			Panel PS	
			Color, Lt Housing HiViz - Blk Opt Hold, Blk Bez, Blk Fix	
188	0733343		Lights, HiViz FT-GESM* LED 1st	2
			Location - DS upper front body corner and rear body corner	
			Qty, - 02	
			Control, Scene Lts - LS Scene Lts	
			Color, Lt Housing HiViz - Blk Opt Hold, Blk Bez, Blk Fix	
189	0733336		Lights, HiViz FT-GESM* LED 2nd	2
			Location - PS upper front body corner and rear body corner	
			Qty, - 02	
			Control, Scene Lts - RS Scene Lts	
			Color, Lt Housing HiViz - Blk Opt Hold, Blk Bez, Blk Fix	
190	0532358		Not Required, Deck Lights, Other Hose Bed & Rear Lighting	1
191	0645877		Lights, Hose Bed, Sides, Dual LED Light Strips	1
			Control, Hose Bed Lts - Cup Switch At Rear	
192	0645677		Lights, Not Required, Rear Work, Alt. 12 Volt Lights At Rear Body	1
193	0743346		Lights, Rear Scene, HiViz FT-GSMJR-*, Surface Mt	2
			Location, Lights - Rear bulkhead as high as possible	
			Qty, - 02	
			Control, Rear Scene Lts - Cab Switch Panel DS, Cab Switch Panel PS	
			and Body Switch, DS Rear Bulkhead	
			Color, Trim - Black Trim & Optic Holder	
194	0787447		Lights, Walk Surf, Dual LED Light Strips, Cargo Area, Bdy Stp Lt	1
195	0060016		Pumper, Long, Aluminum, 2nd Gen	1
196	0554271		Body Skirt Height, 20"	1
197	0013897		Tank, Water, 750 Gallon, Poly, Long, New York Style	1

Line	Option	Type	Option Description	Qty
198	0003405		Overflow, 4.00" Water Tank, Poly	1
199	0028104		Foam Cell Required	1
200	0635329		Modified Poly Tank & Cradle, Ext'd To Rear, Pumper	1
201	0633066		Sleeve, Through Tank	1
			Qty, Sleeve - 1	
			Water Tank Sleeve - Plumbing/Hydraulic Diameter - 3" Plumbing	
202	0553725		Restraint, Water Tank, Heavy Duty, Special Type Tank, 4x4, or Export	1
203	0003429		Not Required, Direct Tank Fill	1
204	0003424		Not Required, Dump Valve	1
205	0048710		Not Required, Jet Assist	1
206	0030007		Not Required, Dump Valve Chute	1
207	0514778		Not Required, Switch, Tank Dump Master	1
208	0618241		Hose Bed, Aluminum, Pumper, New York Style	1
			Material Trim/Scuffplate - b) S/S, Brushed	
209	0723545		Unpainted/Dual Action Finished Aluminum Hose Bed, 2G Pumper/Tankers	1
210	0003481		Hose Bed Capacity, Special	1
			Capacity, Hosebed - Bay 1: 200' of 2.5" Bay 2: 1000' of 5" Bay 3: 400' of 3"	
211	0689090		Divider, Hose Bed, .25" Unpainted, w/Handhold	2
			Qty, Hosebed Dividers - 2	
212	0807329		Hose Restraint, Hose Bed, Vinyl, Top	1
			Color, Vinyl Cover - c) black	
			Fastener, Top Restraint, Front - Quarter Turn	
			Fastener, Top Restraint, Sides - Quarter Turn	
213	0807338		Hose Restraint, Hose Bed, Vinyl, Rear	1
			Color, Vinyl Cover - c) black	
			Vinyl Flap Weight - Not Weighted	
			Fastener, Rear Restraint, Bottom - Bungee Cord and Hook with Pull Tabs	
214	0661258		Divider, Unpainted, Permanent, Extruded, Additional	1
			Location - Right side of hose bed above ground ladder compt. at transition between Bay 3 and Bay 4	
			Qty, - 01	
215	0090058		Partition, Hose Bed, Divider to Side Sheet	1
			Location - In Bay 4, 8' from rear of hose bed.	
			Qty, - 1	
216	0740286		Lettering, Hose Bed Rear Flap, Reflective	2
			Color, Lettering - o) red	
			Qty, Lettering - 02	
			Lettering, Hosebed - E 2	
			Centering, Lettering, Rear Flap - Centered on Truck	
			Layout, Lettering - Straight	
			Size, Lettering, Rear Flap, Reflective - 16.00"	
217	0013512		Running Boards, 12.75" Deep	1
218	0681766		Tailboard, 16" Deep, Full Width, Extended Substructure, Angled Corners	1
219	0690027		Wall, Rear, Smooth Aluminum/Body Material, Flush Rear Wall	1
220	0889214		Tow Eyes, w/Tow Bar, 2G Pumper	1
221	0590926		Hose Restraint, Running Board, Velcro Straps	2
			Location, Hose Tray, Running Board - a) both sides	
			Qty, Tray, Hose - 2	
222	0003634		Tray, Hose, Running Board, 25' of 5.00", Soft Suction Hose	2
			Location, Hose Tray, Running Board - a) both sides	
			Qty, Tray, Hose - 2	
223	0895820		Construction, Compt, Alum, 2G Pumper	1
224	0063662		LS 161" Rollup, Full Height Front & Rear, FDLER	1
225	0812780		RS 161" Rollup, Full Height & Depth Front & Rear, Built Into Body	1
226	0594005		Doors, Rollup, Amdor, Side Compartments	6
			Qty, Door Accessory - 06	
			Color, Roll-up Door - AMDOR Painted to Match Lower Body	
			Latch, Roll-up Door - Non-Locking Liftbar	
227	0098470		Compt, Flush Rear, Rollup, 30.75" FF, 25.88" D	1
228	0594003		Door, Amdor, Rollup, Rear Compartment	1
			Color, Roll-up Door - AMDOR Satin Aluminum	
			Latch, Roll-up Door - Non-Locking Liftbar	

Line	Option	Type	Option Description	Qty
229	0554995		No Body Modification Required	1
230	0625184		Guard, Drip Pan, S/S, Rollup Door, Pumper	7
			Qty, Door Accessory - 07	
			Location, Door Guard/Drip Pan - LS1, LS2, LS3, RS1, RS2, RS3 and B1	
231	0768509		Lights, Compt, Amdor AY-LB-12HW0** LED, Dual Lt Strip	7
			Qty, - 07	
232	0730092		Not Required	1
233	0722037	SP	Lights, Hatch Compt, Not Req'd, No Top Doors	1
234	0760868		Lights, Cargo/Dunnage, Dual LED Light Strips, Each Side	1
			Control, Scene Lts - Hose Bed Light Sw	
235	0687146		Shelf Tracks, Painted	5
			Qty, Shelf Track - 05	
			Location, Shelf Track - LS1, LS3, RS1, RS3 and B1	
236	0600350		Shelves, Adj, 500 lb Capacity, Full Width/Depth, Predefined Locations	5
			Qty, Shelf - 05	
			Material Finish, Shelf - Painted - Spatter Gray	
			Location, Shelves/Trays, Predefined - LS1-Transition Point, RS1-Transition Point, RS3-Transition Point, RS3-Lower Third and LS3-Transition Point	
237	0647091		Tray, Floor Mounted, Slide-Out, 500lb, 2.00" Sides	3
			Qty, - 03	
			Location, Tray Slide-Out, Floor Mounted - RS1, RS3 and LS1	
			Material Finish, Tray - Painted - Spatter Gray	
238	0725644		Cabinet, Drawer Assembly, CTECH, Three Drawers, Up To 24" Wide, 24" Deep	1
			Qty, - 01	
			Location - Floor of LS3 as far forward as possible	
			Size, Drawer Height 1 (Top) - 3.00"	
			Size, Drawer Height 2 - 6.75"	
			Size, Drawer Height 3 - 8.75"	
239	0540317		Toolboard, Swing-out, Alum, .188", Peg Board	2
			Qty - 2	
			Location, Pivot - Front	
			Mounting, Toolboard - Adjustable Frt-back	
			Hole Diameter, Pegboard/Toolboard - .203" diameter	
			Finish, Pegboard/Toolboard - Painted - Spatter Gray	
			Location, Toolboard - LS2 - Full Height/Width and RS2 - Full Height/Width	
240	0755527		Pegboard, Back Wall Mounted, 3/16" Alum, Standard Depth Upper	6
			Qty, Comp. Accessory - 06	
			Hole Diameter, Pegboard/Toolboard - .203" diameter	
			Finish, Pegboard/Toolboard - Painted - Spatter Gray	
			Location, Compartment, Predefined - LS1, LS2, LS3, RS1, RS2 and RS3	
241	0004016		Rub Rail, Aluminum Extruded, Side of Body	1
242	0784811		Fender Crowns, Rear, Stainless, w/Removable Liner	1
			Material Finish, Fender Liner - Painted Aluminum Lower Body	
243	0519849		Not Required, Hose, Hard Suction	1
244	0626229		Handrails, Side Pump Panels, Per Print	1
245	0004126		Handrails, Beavertail, Standard	1
246	0610196		Handrail, Rear, Above Hose Bed, New York Style/Low Hose Bed	1
			Handrail Finish - Black Rubber Covered	
			Reinforcement, Hose Bed Divider - Not Required, Reinforcement	
247	0004150		Handrail, Extra - 15-20" Long	2
			Qty, Handrails - 02	
			Location, Handrail Additional - Top of Cargo Side Sheet rearward DS and PS side	
248	0636301		Compt, Extinguisher (2) Fender Panel, Triangular Door, 8" Dia	1
			Qty, - 01	
			Door Finish, Fender Compt - Painted	
			Location, Fender Compt - Double - RS Rear	
			Latch, Air Bottle Compt - Southco C2 Black Raised	
			Insert, Air Bottle Compt - Rubber Matting Glued	
249	0657522		Compt, Air Bottle, Triple, Fender Panel	2
			Qty, Air Bottle Comp - 2	
			Door Finish, Fender Compt - Painted	
			Location, Fender Compt - Triple - LS Fwd and Triple - RS Fwd	

Line	Option	Type	Option Description	Qty
249			Latch, Air Bottle Compt - Southco C2 Black Raised	
			Insert, Air Bottle Compt - Rubber Matting Glued	
250	0004225		Ladder, 24' Duo-Safety 900A 2-Section	1
251	0004230		Ladder, 14' Duo-Safety 775A Roof	1
252	0812656		Ladder Storage, Built Into Body, RS, Enclosed, RPH	1
			Door, Material & Finish, Ladder Storage - smooth aluminum	
			Latch, Door Ladder Storage - Southco C2 Black Raised, Pair	
			Hinge Location - Outboard	
253	0733387		Ladder, 10' Duo-Safety Folding 585A	1
254	0733796		Trough, Folding Ladder, Ladder Storage Btwn Tank & S.Sht	1
			Location, Left Side, Right Side - Right Side	
255	0725371		Compt w/Door, Backboard, Over Pump	1
			Door, Material & Finish, Storage - Aluminum Treadplate	
			Latch, Door, Storage - Southco C2 Black Raised	
			Qty, Backboard Troughs - 1	
			Hinge Location - Forward	
			Location, BB/Stokes/Long Tool Storage Over Pump - Rearward, Cargo	
			Area	
			Access, Backboard/Stokes/Long Tool Compt - Both	
			Size, Backboard, Predefined - 72"L x 18"W x 4"H	
256	0816920		Pike Pole, Provided by Fire Department, NFPA/ULC 2024	1
			Qty, - 01	
			Pike Pole Make/Model - Duo-Safety 10' Pike Pole	
257	0816918		Pike Pole, 6', Provided by Fire Department, NFPA/ULC 2024	2
			Qty, - 02	
			Pike Pole Make/Model - Fire Hooks Unlimited New York Roof Hook, RH-6	
258	0004361		Tubes, Alum, Pike Pole Storage	1
			Qty, Pike Pole Tubes - 01	
			Location, Pike Pole Tube - Ladder Storage	
259	0058193		Tubes, Alum, Pike Pole Storage, Spcl Notch, NY PP Head	2
			Location - Ladder Storage	
			Qty, Pike Pole Tubes - 02	
260	0785102		Steps, Folding, Front of Body, Cargo Bed Access, w/LED, Trident	1
			Coating, Step - black	
			Location, Steps - Full Height Left and Right Side w/LED Light	
261	0592994		Steps, Folding, Rear of Body, w/LED, Trident	1
			Coating, Step - black	
262	0019940		Step, Special Width, Rear Of Body, 8.00"	1
263	0007575		Pump House, Side Control, 48", Control Zone	1
264	0037731		Pump House Structure, Raised, Included with Ladder Storage	1
265	0794212		Pump, Darley, PSM, 1500 GPM, Magna Transmission, Single Stage	1
266	0007153		Seal, Mechanical, Darley, Silicon Carbide	1
267	0794209		Trans, Pump, Darley Magna	1
268	0635600		Pumping Mode, Stationary Only	1
269	0604307		Pump Shift, Air w/o Manual Override, Split Shaft, Interlocked, Darley	1
270	0003148		Transmission Lock-up, EVS	1
271	0004551		Auxiliary Cooling System, Darley	1
272	0014486		Not Required, Transfer Valve, Single Stage Pump	1
273	0746508		Valve(s), Relief Intake, Trident Air Max, Control Location	1
			Qty - 1	
			Pressure Setting - 125 psig	
			Intake Relief Valve Control - Left Side Pump Panel	
274	0826104		Controller, Pressure, FRC, Pump Boss Max, PBA500	1
			Pressure Governor Throttle Control - Clockwise	
			Pressure Governor Default Mode - RPM Setting	
			Pressure Governor Std/Metric - Standard psi readouts	
			Pressure Governor Transducer - Single 600 PSI	
			Pressure Governor Alarm - NOT BE an additional alarm provided	
275	0072153		Primer, Trident, Air Prime, Air Operated	1
276	0780364		Manuals, Pump, (2) Total, Electronic Copies	1
277	0602512		Plumbing, Stainless Steel and Hose, Single Stage Pump, Control Zone	1
278	0795135		Plumbing, Stainless Steel, w/Foam System	1
279	0004645		Inlets, 6.00" - 1250 GPM or Larger Pump	1

Line	Option	Type	Option Description	Qty
280	0004646		Cap, Main Pump Inlet, Long Handle, NST, VLH	1
281	0084610		Valves, Akron 8000 series- All	1
282	0016158		Valve, Inlet(s) Recessed, Side Cntrl, "Control Zone"	1
			Qty, Inlets - 1	
283	0004700		Control, Inlet, at Valve	1
284	0004660		Inlet (1), Left Side, 2.50"	1
285	0029147		Not Required, Inlet, Right Side	1
286	0505132		Anode, Zinc, Pair, Pump, One (1) on Inlet Side & One (1) on Discharge Side	1
287	0092569		No Rear Inlet (Large Dia) Requested	1
288	0064116		No Rear Inlet Actuation Required	1
289	0092696		Not Required, Cap, Rear Inlet	1
290	0009648		No Rear Intake Relief Valve Required on Rear Inlet	1
291	0092568		No Rear Auxiliary Inlet Requested	1
292	0723049		Valve, .75" Bleeder, Aux. Side Inlet, "T" Swing Handle	1
293	0029043		Tank to Pump, (1) 3.00" Valve, 3.00" Plumbing	1
294	0004905		Outlet, Tank Fill, 1.50"	1
295	0771671		Control, Outlets, Swing Handle, Vertical, Side Control, 48.00" Pump House	8
			Location - Front bumper, (2) speedlays, (2) DS 2.5", (1) PS 2.5", (1) rear 2.5", hose reel	
			Qty, Discharges - 08	
296	0004940		Outlet, Left Side, 2.50"	2
			Qty, Discharges - 02	
297	0005091		Elbow, Left Side Outlets, 45 Degree, 2.50" FNST x 2.50" MNST, VLH	1
298	0092570		Not Required, Outlets, Left Side Additional	1
299	0035094		Not Required, Elbow, Left Side Outlets, Additional	1
300	0004945		Outlet, Right Side, 2.50"	1
			Qty, Discharges - 01	
301	0025091		Elbow, Right Side Outlets, 45 Degree, 2.50" FNST x 2.50" MNST, VLH	1
302	0092571		Not Required, Outlets, Right Side Additional	1
303	0089584		Not Required, Elbow, Right Side Outlets, Additional	1
304	0816625		Outlet, Large Diameter, Right Side, Akron Valve	1
			Outlet, Large Diameter, Plumbing - 4.00"	
			Outlet, Large Diameter, NST Adapter - 4.00" MNST	
			Outlet, Large Diameter, Valve Actuation - Pierce large handwheel	
305	0005097		Elbow, Large Dia Outlet, 30 Deg, 4.00" FNST x 5.00" Storz	1
			Qty, - 01	
306	0649939		Outlet, Front, 1.50" w/2" Plumbing	1
			Fitting, Outlet - 1.50" NST with 90 degree swivel	
			Drain, Front Outlet - Automatic	
			Location, Front, Single - top of right bumper	
307	0004995		Outlet, Rear, 2.50"	1
			Qty, Discharges - 01	
			Location, Outlet - b) left side	
308	0045091		Elbow, Rear Outlets, 45 Degree, 2.50" FNST x 2.50" MNST, VLH	1
309	0092574		Not Required, Outlet, Rear, Additional	1
310	0085695		Not Required, Elbow, Rear Outlets, Large, Additional	1
311	0092573		Not Required, Outlet, Hose Bed/Running Board Tray	1
312	0752097		Caps/Plugs for 1.00" to 3.00" Discharges/Inlets, Chain	1
313	0723042		Valve, 0.75" Bleeder, Discharges, "T" Swing Handle	1
314	0055107		Outlet, 3.00" Deluge Riser, Akron Valve, Handwheel **	1
315	0770359		No Monitor Requested, Customer/Dealer Furnished and Installed	1
			Fill in Blank - TFT	
316	0029304		No Nozzle Req'd	1
317	0005070		Deluge Mount, NPT	1
318	0723726		Speedlay Module Not Required	1
319	0722432		Hose Restraint Not Required, No Speedlay Module	1
320	0723395		Speedlays, Not Required	1
321	0723394		Speedlays, Not Required	1
322	0025140		Not Required, 1.50" Crosslays	1
323	0029196		Not Required, 2.50" Crosslay	1
324	0500535		Not Required, Hose Restraint, Crosslay	1

Line	Option	Type	Option Description	Qty
325	0508895		Speed, (2) 1.5" W/ Poly Tray, Top Mount/Side Control, Special Cap Capacity, Special Xlay - 250' of 1.75" Double Jacket Hose for both speedlays.	1
326	0752945		Hose Restr, Spdly, 2"Nylon Web, (2) Seat Belt Buckle, Tether Release Color, Strap - Red Release, Seat Belt Buckle - Bar	1
327	0039605		Tray(s), Poly, Additional, Speedlays Qty, - 02	2
328	0758955		Reel, Booster, Aluminum, Rear Tailboard Comprt	1
329	0005279		Switch, Reel Rewind - One at Reel	1
330	0005300		Hose, Booster - 150' of 1.00"/800 PSI	1
331	0005244		Capacity, Hose Reel 200' of 1"	1
332	0007428		Nozzle for Booster Reel Not Req'd	1
333	0065417		Foam Sys, FoamPro 1600, (Single Agent) Discharge - Front Bumper Discharge, (2) 1.5" Speedlays, rear hose reel, and rear outlet Amount of Disc. W/Foam - 5	1
334	0012126		Not Required, CAF Compressor	1
335	0552517		Not Required, Refill, Foam Tank	1
336	0031896		Demonstration, Foam System, Dealer Provided	1
337	0022539		Foam Cell, 20 Gallon, Reduce Water Type of Foam - Class "A"	1
338	0091036		Drain, 1.00" Foam Tank #1	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	0635355		Material, Pump Panels, Side Control Painted FormCoat Black Material Finish, Pump Panel, Side Control - Painted FormCoat Black Material, Pump Panel, Side Control - Aluminum	1
344	0721765		Panel, Pump Access - Right Side Only, Side Control Latch, Pump Panel Access, Side Mount - Raised Trigger, Black	1
345	0583824		Light, Pump Compt, Wln 3SC0CDCR LED White Qty, - 01	1
346	0586382		Gauges, Engine, Included With Pressure Controller	1
347	0005601		Throttle, Engine, Incl'd w/Press Controller	1
348	0739224		Indicator Light @ Pump Panel, Throttle Ready, Incl w/Pressure Gov/Throttle, Green	1
349	0549333		Indicators, Engine, Included with Pressure Controller	1
350	0745568		Indicator Light, Pump Panel, Ok To Pump, Green	1
351	0553643		Control, Air Horn at Pmp Pnl, Red Switch, Momentary	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	0757359		Gauge, Water Level, Class 1, Pierce Std, Remote Module Driver Activation, Water Level G - b) battery switched	1
355	0750438		Water Level Gauge, Wln PSTANK2, LED 1-Light, 4-Level Qty, - 02 Activation, Water Level G - b) battery switched Location, Water Level Gauge, Multi-Select - Each Side Custom Cab Color, Trim - Black Trim	2
356	0062992		Gauge, Foam Level, (1) Tank, Class 1, GAAAR 5lt	1
357	0682503		Light Shield/Step 8", LED, P25 LED Stp Lt	1
358	0682498		Light Shield/Step 8", PS LED, P25 LED Stp Lt	1
359	0606694		Air Horns, (2) Hadley, 6" Round, eTone, In Bumper	1
360	0606835		Location, Air Horns, Bumper, Each Side, Outside Frame, Outboard (Pos #1 & #7)	1
361	0757092		Control, Air Horn, Multi Select	1
362	0757072		Control, Air Horn, Rocker/Membrane Sw, RS	1
363	0757084		Control, Air Horn, Horn Ring	1
364	0533071		Siren, Wln 295SLSC1, 100 or 200 Watt, w/Plug-in/Detachable Microphone Cord	1
365	0790527		Location, Electronic Siren, Center Dash Switch Panel, Saber FR Location, Electronic Siren - Switch Panel # 13	1
366	0076156		Control, Elec Siren, Head Only	1

Line	Option	Type	Option Description	Qty
367	0601304		Speaker, (2) WIn, SA315P, w/Pierce Polished Stainless Steel Grille, 100 watt	1
			Connection, Speaker - siren head	
368	0601558		Location, Speaker, Frt Bumper, Recessed, Ea Side, Outside Frame, Inbrd (Pos 2/6)	1
369	0895310		Siren, Federal Q2B	1
			Finish, Q2B Siren - Chrome	
370	0006095		Siren, Mechanical, Mounted Above Deckplate	1
			Location, Siren, Mech - a) Left	
371	0748305		Control, Mech Siren, Multi Select	1
372	0748274		Control Mech Siren, Rocker/Membrane Sw, RS	1
373	0748282		Control, Mech Siren, Ft Sw LS	1
374	0737437		Sw, Siren Brake, Momentary Red, Pnl 9, Saber FR/Enf	1
375	0731683		Sw, Siren Brake, Mom Rocker, Red Outline, Lower Sw Pnl, Mux	1
376	0746353		Not Required, Warning Lights Intensity	1
377	0803690	SP	Lightbar, WIn, Freedom IV-Q, 72", RRRRRWRRRRWRRRRR	1
			Filter, Whl Freedom Ltbrs - No Filters	
378	0016380		No Additional Lights Req'd, Side Zone Upper	1
379	0761731		Lights, Front Zone, WIn 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 - b) DS Front Inside Blue	
			Color, Lt PS Front Inside - b) PS Front Inside Blue	
			Color, Q Bezel and Trim - Polished Chrome	
380	0554452		Light, Front, WIn M6*C LED, Clear Lens 1st	2
			Location, Lights - Front bumper in positions 3 & 5	
			Qty, - 02	
			Color, Lights, Warning - gla) red	
			Control, Light - h) front warning	
381	0653937		Flasher, Headlight Alternating	1
			Headlt flash deactivation - a)w/high beam	
382	0540692		Lights, Side Zone Lower, WIn M6*C LED, Clear Lens, 3pr, Ovr 25	1
			Location, Lights Front Side - b)each side bumper	
			Color, Lt Side Front - Red	
			Color, Lt Side Middle - Red	
			Color, Lt Side Rear - Blue	
			Location, Lights Mid Side - Rearward of Crew Cab Doors	
			Location, Lights Rear Side - Over Rear Wheels	
383	0896616		Lights, Door Interior Flash, 4 Dr Cab, Weldon 8401-0000-20 Strip Light	1
			Control, Door Int Flash - Ignition Switch	
			Location, Light, Door Int Flash - Over Window	
384	0815847		Connectors, Door Interior Flash, All Cabs, Weatherproof	1
385	0644686		Lights, Side Rf, WIn M4** LED, Paint Brkt, Custom 6lts	1
			Location, Light Bar - b) over the crew cab doors	
			Color, Lens, LED's - c)clear	
			Color, Lt Side Front - Red	
			Color, Lt Side Middle - Blue	
			Color, Lt Side Rear - Red	
386	0672937		Lights, Side, WIn WIONSMC* LED, Chrome Flange, Mounted In Rub Rail, 1st	4
			Location, Lights - Rubrail under LS1, LS3, RS3, RS1	
			Qty, - 04	
			Color, Lights, Warning - gla) red	
			Control, Light - b) side warning	
387	0564655		Lights, Rear Zn Lwr, WIn M6*C LED, Clear Lens, For Tail Lt Housing	1
			Color, Lt DS Rear - r) DS Rear Lt Red	
			Color, Lt PS Rear - r) PS Rear Lt Red	
388	0740407		Lights, Rear, WIn M6** LED, Features 1st	2
			Location - Upper rear bulkhead below scene lights	
			Qty, - 02	
			Color, Lights, Warning - Blue Flashing	
			Control, Light - a) rear upper warning	
			Color, Lens, LED's - Clear	
			Color, Trim - Chrome Trim	
389	0809546		Light, Rear Zone Up, WIn L31H5F Beacons, Red w/Clear Lens, 2Lts	1
390	0006551		Not Required, Lights, Rear Upper Zone Blocking	1

Line	Option	Type	Option Description	Qty
391	0006615		Mounting, Rear Warn Lights, On Top of Compartment	1
392	0759107		Lights, Traffic Directing, Wln WIONSMC* Amber LED, 6 Lts, TACTL5 Activation, Traffic Dir L - Aux Flash with Emergency Master	1
393	0529278		Location, TDL, Surface Mounted	1
394	0530288		Location, Traf Dir Lt Controller, Overhead Recessed Console, above Eng Tnl DS **	1
395	0782807		Circuit Breaker Panel, Sub Feed, Cutler Hammer, Shoreline Location, CB Panel - LS3 Forward Wall High	1
396	0781579		Receptacle, 15/20A 120V 3-Pr 3-Wr, NEMA 5-20R SB Dup, 1st, Interior Cab Qty, - 02 Location 1 - (1) inside the DS EMS compt. high on forward inboard wall and (1) inside PS EMS compt. high on forward inboard wall AC Power Source - Shoreline Cover, Receptacle - Interior SS Wall Plate(s)	2
397	0779698		Receptacle Strip, 15A 120V 6-Place, Interior Body Qty, - 01 Location 1 - Left wall of RS1 compt. as high as possible AC Power Source - Shoreline	1
398	0519934		Not Required, Brand, Hydraulic Tool System	1
399	0649753		Not Required, PTO Driven Hydraulic Tool System	1
400	0007150		Bag of Nuts and Bolts Qty, Bag Nuts and Bolts - 1	1
401	0816508		NFPA Required Loose Equipment, Pumper, NFPA/ULC 2024, Provided by Fire Dept	1
402	0816941		Soft Suction Hose, Provided by Fire Department, NFPA/ULC 2024	1
403	0027023		No Strainer Required	1
404	0816939		Extinguisher, Dry Chemical, NFPA 2024, Provided by Fire Department	1
405	0816937		Extinguisher, 2.5 Gal. Pressurized Water, NFPA/ULC 2024, Provided by Fire Dept	1
406	0816998		Axe, Flathead, Provided by Fire Department	1
407	0817000		Axe, Pickhead, Provided by Fire Department	1
408	0741569		Paint Process / Environmental Requirements, Appleton	1
409	0709566		Paint, Two-Tone Color, Enforcer Paint Color, Upper Area, Predefined - #101 Black Shield, Cab - Standard Shield Paint Color, Lower Area, Predefined - 268 RED Paint Break, Cab - Standard Two-Tone Cab Break	1
410	0709845		Paint, Single Color, Body Paint, Body - Match Lower Cab	1
411	0646901		Paint Chassis Frame Assy, With Liner, E-Coat, Standard Paint Color, Frame Assembly, Predefined - Standard Black	1
412	0693798		Paint, Front Wheels Paint, Wheels - Powder Coat Black #101	1
413	0693793		Paint, Rear Wheels, Single Axle Paint, Wheels - Powder Coat Black #101	1
414	0733739		Paint, Axle Hubs Paint, Axle Hub - Black #101	1
415	0007230		Compartment, Painted, Spatter Gray	1
416	0745909		Reflective Band, 1" Vinyl, 6" Reflective, 1" Vinyl w/Gaps Per Print Color, Vinyl Stripe - 1) Charcoal Metallic Color, Reflect Band - B - p) black	1
417	0007356		Reflective across Cab Face	1
418	0819898		Stripe, Chevron, Rear, Reflective, NFPA/ULC 2024, Pumper Color, Reflect Band - A - c) ruby red Color, Reflect Band - B - p) black	1
419	0073811		Folded "Z" Ribbon in Reflective Stripe, Pair Location - Per LP Drawing Qty, - 1	1
420	0670031		Stripe, Reflective, Toolboard Location - LS2 and RS2 Toolboards Color, Reflect Band - A - c) ruby red Qty, - 02	2
421	0671882		Stripe, Reflective, Slide Out Tray, Front and Sides Location - LS1, RS1, RS2 Floor Trays Color, Reflect Band - A - c) ruby red Qty, - 03	3

Line	Option	Type	Option Description	Qty
422	0669643		Stripe, Reflective, Inside Aluminum Rub Rail Color, Reflect Band - A - c) ruby red Qty, - 04	4
423	0512024		Stripe, Reflective, Chevron/Inverted "V", On Front Bumper Color, Reflect Band - A - c) ruby red Size, Chevron Striping - 06 Color, Reflect Chev - A - e) black	1
424	0509398		Stripe, Reflective, Chevron, Cab and Crew Cab Doors Interior Color, Reflect Band - B - n) ruby red Size, Chevron Striping - 06 Color, Reflect Chev - A - e) black	1
425	0679810		Stripe, Printed Effect Gold Leaf, Two-Tone Paint Break with Shield, IPO Chrome	1
426	0027372		Lettering Specifications, (GOLD STAR Process)	1
427	0685692		Lettering, Printed Effect Gold Leaf, 3.00", (1-20) Outline, Lettering - Outline and Shade	1
428	0685542		Lettering, Printed Effect Gold Leaf, 8.00", (21-40) Outline, Lettering - Outline and Shade	1
429	0685544		Lettering, Printed Effect Gold Leaf, 8.00", Each Qty, Lettering - 02 Outline, Lettering - Outline	2
430	0685520		Lettering, Printed Effect Gold Leaf, 16.00", Each Qty, Lettering - 04 Outline, Lettering - Outline	4
431	0822404		Lettering, Printed Effect Gold Leaf, Script, 2-3"	1
432	0735249	SP	Plate, LG Painted Aluminum Panel, Upper Side Sheet, Graphics/Lettering(Color) Location - DS and PS upper side sheets Qty, - 02 Fill in Blank - Black #101	2
433	0665404	SP	Emblem, Monogram w/Scrolling, Gold Leaf, 12"-14", Each Qty, - 01 Location, Emblem - B1 Rollup	1
434	0684111		Emblem, Monogram w/Scrolling, Printed Effect Gold Leaf, 12"-14", Pair Qty, - 01 Location, Emblem - Cab Doors	1
435	0666386		Emblem, Flag, Generic, Each Qty, - 02 Location, Emblem - On EMS compt. doors. See LP Drawing Size, Flag - 15" - 17"	2
436	0766493		Emblem, American Flag Muted w/Thin Red Line, Ptd Cab Grille, All Custom Chassis	1
437	0772003		Manual, Fire Apparatus Parts, USB Flash Drive, Custom Qty, - 01	1
438	0772037		Manual, Chassis Service, USB Flash Drive, Custom Qty, - 01	1
439	0773381		Manual, Chassis Operation, (1) USB Flash Drive, Custom	1
440	0030008		Warranty, Basic, 1 Year, Apparatus, WA0008	1
441	0735523		Warranty, Engine, Paccar MX13, 5 Year, WA0386	1
442	0684953		Warranty, Steering Gear, Sheppard M110, 3 Year WA0201	1
443	0596017		Warranty, Frame, 50 Year, Custom Chassis, WA0013	1
444	0595698		Warranty, Axle, 3 Year, TAK-4, WA0050	1
445	0610485		Warranty, Axle, Eaton/Dana, 5 Year/100,000 Mile, Parts and Labor	1
446	0652758		Warranty, ABS Brake System, 3 Year, Meritor Wabco, WA0232	1
447	0019914		Warranty, Structure, 10 Year, Custom Cab, WA0012	1
448	0744240		Warranty, Paint, 10 Year, Cab, Pro-Rate, WA0055	1
449	0524627		Warranty, Electronics, 5 Year, MUX, WA0014	1
450	0695416		Warranty, Pierce Camera System, WA0188	1
451	0708760		Warranty, Not Applicable, LED Strip Lights	1
452	0046369		Warranty, 5-year EVS Transmission, Standard Custom, WA0187	1
453	0685945		Warranty, Transmission Cooler, WA0216	1
454	0688798		Warranty, Water Tank, Lifetime, UPF, Poly Tank, WA0195	1
455	0596025		Warranty, Structure, 10 Year, Body, WA0009	1
456	0693126		Warranty, AMDOR, Roll-up Door, 10 Year/5 Year Painted, WA0185	1
457	0582368		Warranty, Pump, Darley, 6 Year Parts, 3 Year Labor, WA0179	1
458	0648675		Warranty, 10 Year S/S Pumbing, WA0035	1

Line	Option	Type	Option Description	Qty
459	0641372		Warranty, Foam System, Not Available	1
460	0595820		Warranty, Paint, 10 Year, Body, Pro-Rate, WA0057	1
461	0595421		Warranty, Goldstar, 3 Year, Apparatus, WA0018	1
462	0819254		Certification, Vehicle Stability, CD0196	1
463	0808565		Certification, Engine Installation, Enf, Paccar MX, 2027	1
464	0686786		Certification, Power Steering, CD0098	1
465	0892691		Certification, Cab Integrity, Saber FR/Enforcer, CD0189	1
466	0631973		Certification, Cab Door Durability, Saber FR/Enforcer, CD0137	1
467	0631978		Certification, Windshield Wiper Durability, Saber FR/Enforcer, CD0132	1
468	0631974		Certification, Electric Window Durability, Saber FR/Enforcer, CD0133	1
469	0631977		Certification, Seat Belt Anchors and Mounting, Saber FR/Enforcer, CD0134	1
470	0735949		Certification, Cab HVAC System Performance, SFR/Enf, CD0165/CD0167/CD0174/CD0175	1
471	0545073		Amp Draw Report, NFPA Current Edition	1
472	0002758		Amp Draw, NFPA/ULC Radio Allowance	1
473	0799248		Appleton/Florida BTO	1
474	0000018		PUMPER, 2ND GEN	1
475	0000012		PIERCE CHASSIS	1
476	0735525		PACCAR MX13 ENGINE	1
477	0046396		EVS 4000 Series TRANSMISSION	1
478	0018574		DARLEY PUMP	1
479	0020009		POLY TANK	1
480	0028048		FOAM SYSTEM	1
481	0020006		SIDE CONTROL	1
482	0020007		AKRON VALVES	1
483	0020015		ABS SYSTEM	1
484	0658751		PUMPER BASE	1

Siddons Martin Emergency Group, LLC
3500 Shelby Lane
Denton, TX 76207
GDN P115891
TXDOT MVD No. A115890

September 20, 2024

Jonathan Christian, Fire Chief
HEWITT FIRE DEPARTMENT
100 PATRIOT CT
HEWITT, TX 76643



Proposal For: 2024 Hewitt Pumper

Siddons-Martin Emergency Group, LLC is pleased to provide the following proposal to HEWITT FIRE DEPARTMENT. Unit will comply with all specifications attached and made a part of this proposal. Total price includes delivery FOB HEWITT FIRE DEPARTMENT and training on operation and use of the apparatus.

Description	Amount
Qty. 1 - 1163 - Pierce-Custom Enforcer Pumper, 2nd Gen	
(Unit Price - \$1,109,218.00)	
Delivery within 37-38 months of order date	
QUOTE # - SMEG-0008352-0	
	Vehicle Price \$1,109,218.00
1163 - UNIT TOTAL	\$1,109,218.00
	SUB TOTAL \$1,109,218.00
	HGAC FS12-23 (FIRE) \$2,000.00
TOTAL	\$1,111,218.00

Price guaranteed until 10/31/2024

Additional: '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.
Persistent Inflationary Environment Notification: If the Producer Price Index of Components for Manufacturing [www.bls.gov Series ID: WPUID6112] (the "PPI") has increased at a compounded annual growth rate greater than 5.0% from the date of acceptance of this proposal letter (the "Order Month") and 14 months prior to the anticipated Ready for Pickup Date (the "Evaluation Month"), then the proposal price may be increased by an amount equal to any increase exceeding 5.0% for the time period between the Order Month and the Evaluation Month. Siddons Martin and Pierce will provide documentation of such increase and the updated price for the customer's approval before proceeding with completion of the order along with an option to cancel the order.'

Taxes: Tax is not included in this proposal. In the event that the purchasing organization is not exempt from sales tax or any other applicable taxes and/or the proposed apparatus does not qualify for exempt status, it is the duty of the purchasing organization to pay any and all taxes due. Balance of sale price is due upon acceptance of the apparatus at the factory.

Late Fee: A late fee of .033% of the sale price will be charged per day for overdue payments beginning ten (10) days after the payment is due for the first 30 days. The late fee increases to .044% per day until the payment is received. In the event a prepayment is received after the due date, the discount will be reduced by the same percentages above increasing the cost of the apparatus.

Cancellation: In the event this proposal is accepted and a purchase order is issued then cancelled or terminated by Customer before completion, Siddons-Martin Emergency Group may charge a cancellation fee. The following charge schedule based on costs incurred may be applied:

- (A) 10% of the Purchase Price after order is accepted and entered by Manufacturer;
- (B) 20% of the Purchase Price after completion of the approval drawings;
- (C) 30% of the Purchase Price upon any material requisition.

The cancellation fee will increase accordingly as costs are incurred as the order progresses through engineering and into manufacturing. Siddons-Martin Emergency Group endeavors to mitigate any such costs through the sale of such product to another purchaser; however, the customer shall remain liable for the difference between the purchase price and, if applicable, the sale price obtained by Siddons-Martin Emergency Group upon sale of the product to another purchaser, plus any costs incurred by Siddons-Martin to conduct such sale.

Acceptance: In an effort to ensure the above stated terms and conditions are understood and adhered to, Siddons-Martin Emergency Group, LLC requires an authorized individual from the purchasing organization sign and date this proposal and include it with any purchase order. Upon signing of this proposal, the terms and conditions stated herein will be considered binding and accepted by the Customer. The terms and acceptance of this proposal will be governed by the laws of the state of Texas. No additional terms or conditions will be binding upon Siddons-Martin Emergency Group, LLC unless agreed to in writing and signed by a duly authorized officer of Siddons-Martin Emergency Group, LLC.

Sincerely,

Brian Peters

Brian Peters

I, _____, the authorized representative of HEWITT FIRE DEPARTMENT, agree to purchase the proposed and agree to the terms of this proposal and the specifications attached hereto.

Signature & Date



COUNCIL AGENDA ITEM FORM

MEETING DATE: October 21, 2024

AGENDA ITEM #: 9.

SUBMITTED BY: Bo Thomas, City Manager

ITEM DESCRIPTION:

Discussion and possible action to approve **Resolution No. 2024-10** authorizing the City Manager to enter into a 380 Agreement for Economic Development with Kirby-Smith Machinery, Inc.

STAFF RECOMMENDATION/ITEM SUMMARY:

In an executive session, the Council agreed to consider a negotiated 380 Agreement for Kirby-Smith Machinery, Inc., negotiated by the City Manager and City Attorney. The proposed agreement is for a sales tax grant as provided by state statute. Its term is capped at seven (7) years on a 50/50 split basis up to a maximum of \$500,000.

FISCAL IMPACT:

Amount Budgeted - N/A

Line Item in Budget - N/A

SUGGESTED MOTION:

I move to approve **Resolution No. 2024-10** authorizing the City Manager to enter into a 380 Agreement with Kirby-Smith Machinery, Inc.

ATTACHMENTS:

1. Resolution 2024-10: 380 Agreement - Kirby-Smith Machinery, Inc.
2. Signed Hewitt 380 Agreement - Final

Resolution No. 2024-10

**RESOLUTION OF THE CITY COUNCIL OF THE CITY OF HEWITT,
TEXAS, APPROVING CHAPTER 380 PROGRAM PROJECT
AGREEMENT BETWEEN THE CITY OF HEWITT AND KIRBY-SMITH
MACHINERY, INC.**

WHEREAS, the City Council passed an ordinance under Chapter 380 of the Texas Local Government Code to allow the City to utilize economic development incentives to stimulate, encourage, and develop business location and commercial activity in the City of Hewitt and

WHEREAS, Kirby-Smith Machinery, Inc. approached the City about economic development incentives for its possible location of a Kirby-Smith Machinery, Inc. in Hewitt and

WHEREAS, \$9,000,000 of capital investment, new jobs, significantly increased sales taxes, and serving as an anchor for other development are some of the benefits to the City and

WHEREAS, Kirby-Smith Machinery, Inc. is willing to enter into a Program Project Agreement for the promised development in return for an economic development grant to be paid over time-based on the volume of sales achieved by the store and

WHEREAS, the City Council finds that the proposed project will develop and diversify the economy and commerce of Hewitt and this State, eliminate unemployment or underemployment, and spur additional growth as an anchor store and

WHEREAS, the City Council finds that the proposed Program Project Agreement will stimulate, encourage, and develop the location of business and commercial activity in the City of Hewitt.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF HEWITT, TEXAS THAT:

1. The previous recitals are incorporated herein and made findings of the City Council;
2. The proposed Chapter 380 Program Project Agreement with Kirby-Smith Machinery, Inc. is APPROVED and
3. The City Manager is authorized to execute the Project Performance Agreement on the City's behalf.

Passed and approved this 21st day of October 2024.

CITY OF HEWITT, TEXAS

Steve Fortenberry, Mayor

Attest:

Lydia Lopez, City Secretary

Approved:

Michael W. Dixon, City Attorney

**PROJECT PERFORMANCE AGREEMENT BETWEEN
THE CITY OF HEWITT AND KIRBY SMITH MACHINERY, INC.**

This Project Performance Agreement (“Agreement”) is entered into by and between the City of Hewitt, Texas (hereinafter “City”) and Kirby Smith Machinery, Inc., an Oklahoma S-corporation (hereinafter “Business”).

1. Program Project

1. The Business proposes to construct and operate an approximately 25,500 square foot building to provide heavy equipment sales, service and leasing on an approximately 16.5 acre tract of land located at 1151 Enterprise Blvd., Hewitt, Texas 76643, and being more specifically described as set forth in Exhibit “A” attached hereto and incorporated herein (hereinafter “Property”). The capital investment of the Business in developing and constructing the building and appurtenances shall be at least \$9,000,000 (hereinafter “Project”). Land acquisition does not count towards capital investment. Inventory does not count towards capital investment.

The Business shall obtain a Certificate of Occupancy (hereinafter defined) from the City on or before September 1st, 2025 barring extensions required by matters beyond its control (hereinafter “Operations Date”).

2. Commitment and Incentives. Business agrees to construct the Project and to obtain a Certificate of Occupancy by the Operations Date (hereinafter “Development Requirements”). In return for the Business’ agreement to meet the Development Requirements, the City agrees to pay an economic development grant to the Business as authorized by Chapter 380 of the *Texas Local Government Code* and the City’s Chapter 380 Economic Development Program. The Grant is further described in Sections 3 and 4 below.

3. Grant

3.1 Definitions.

“Grant” means a Chapter 380 Economic Development grant as authorized by Chapter 380 of the *Texas Local Government Code* and the City’s Chapter 380 Economic Development Program. This Grant is not a sales tax rebate, rather, the amount of the grant is tied to a percentage of sales taxes generated by the Business and received by the City for purposes of providing a logical calculation.

“Agreement Year” means a calendar year within the term of this Agreement.

“Agreement Year Amount” means the total City sales tax collected by operations on the Project during an Agreement Year.

“Base Year” means the calendar year when this Agreement is signed.

“Base Year Amount” means the total City sales tax collected by operations on the Project

Premises during the Base Year.

“Certificate of Occupancy” means a certificate of occupancy (or its local equivalent) issued by the City for the Project.

“City’s Sales Tax Rate” The current aggregate sales tax rate in the City as of the date this Agreement is signed is eight and one-quarter percent (8.25%), of which one and one-half percent (1.5%) represents the City’s sales tax rate.

“Net Sales Tax Revenues” means the City sales tax revenues collected by the Business in excess of the Base Year Amount, less any refunds required to be made by the Business, or refunds to the Business that are required to be made by the City.

“Annual Grant Amount” is the amount of the grant to be paid to the Business at the end of the Agreement Year.

“Total Grant Amount” is the not-to-exceed total of all grant funds that the Business is eligible to receive under this Agreement, which is \$500,000. The Grant shall end when the \$500,000 cap is reached, regardless of whether additional time remains on the Grant Term. If the \$500,000 cap is reached during an Agreement Year, the Annual Grant Amount payable to the Business will be pro-rated.

“Grant Percentage” means the percentage provided in this Agreement to be applied in each Agreement Year to the Net Sales Tax Revenues to arrive at the Annual Grant Amount. The Grant Percentage is 50%.

“Grant Period” or “Grant Term” means the total number of Agreement Years during which the Business is eligible for the Grant, which is a period of seven (7) calendar years following the Business’s obtaining a Certificate of Occupancy.

3.2 Calculation.

City Sales Tax Collections attributable to the Business are calculated as follows:
$$\text{Agreement Year Amount} - \text{Base Year Amount and refunds} = \text{Net Sales Tax Revenues} \times \text{Grant Percentage} = \text{Annual Grant Amount}.$$

If the Business begins operations during an Agreement Year, the Annual Grant Amount will be determined on a prorated basis for the remainder of that Agreement Year, which shall count as the first Agreement Year against the Grant Period. By written election provided to the City the Business may elect to have the Grant Period start on the next January 1 instead of during a partial calendar year. If such an election is made, Business will not be entitled to any Annual Grant Amount for the partial year.

3.3 Payment. The Annual Grant Amount for an Agreement Year does not become payable until the City receives full payment from the state comptroller of its share of sales taxes for the preceding calendar year constituting the Agreement Year. Payment shall be made to the

Business by the City within 30 days after receipt of payment in full of the City's share of sales taxes for the preceding Agreement Year. The total of all Annual Grant Amounts shall not exceed the Total Grant Amount.

3.4 Compliance with Development Requirements. Payment to Business of an Annual Grant Amount under this Agreement is subject to the Business complying with its Development Requirements. The effect of non-compliance is addressed in Section 6 below.

4. Grant Period and Percentage. The Annual Grant Amount provided to the Business by the City under this Agreement shall:

- a) Be for the Grant Period; and
- b) Be at a Grant Percentage of fifty (50%) percent, subject to the Total Grant Amount.

Once the Total Grant Amount is reached, this Agreement shall automatically terminate, even if years remain under the Grant Period. In no circumstance will the total of all Annual Grant Amounts paid to the Business exceed the Total Grant Amount. If the Total Grant Amount is reached during an Agreement Year, the Grant does not apply to the rest of the year.

5. Reporting and Provision of Information.

5.1 General. The Business must meet its Development Requirements for payments described herein to begin, and the City must receive Construction Reports (hereinafter defined) from the Business during the construction and development of the Project, and before the Operations Date.

5.2 Reports During Development and Construction. At least quarterly during the development and construction of the Project, the Business shall provide a written report to the City Manager ("Construction Reports") showing the percentage of completion of the Project, the estimated completion date of the Project, and whether the Business is still on target for the Operations Date.

5.3 Capital Investment Verification. Prior to the Operations Date, the Business shall provide the City Manager with an itemized summary of Project costs to verify that the capital investment of the Business for the Project (i.e., \$9,000,000) has been attained. The City Manager or his/her designee shall have the right to inspect records supporting the cost summary upon reasonable request.

5.4 Extension of Operations Date. The Operations Date is fixed as set forth above and shall only be extended when required due to matters clearly outside of the control of the Business. The Business must submit a written request for extension to the City Council which identifies in detail the reasons that the extension is needed. The City Council will not unreasonably withhold an extension however, it may deny an extension if the Business fails to show that the matter(s) requiring the extension were clearly beyond its reasonable control. The total of all extensions may not exceed 180 days.

6. Breach by Business.

6.1 General. If the Business builds nothing and/or does not begin operations by the Operations Date, as extended, payments described herein shall not begin and such non-commencement of payments described herein shall be the City's sole remedy for the breach, therefore, the breaches addressed hereunder are less than complete breaches. These are:

- a. failure to meet the \$9,000,000 capital investment requirement;
- b. failure to begin operations by the Operations Date (including any extensions granted);
- c. failure to provide required Construction Reports; and/or
- d. failure to provide a Project cost summary to verify capital investment or to allow a review of supporting documents as required herein.

In the instance of one or more of these breaches the Total Grant Amount will be reduced as set forth in this paragraph 6.

6.2 Breach of Capital Investment Requirement. Failure to provide at least 75% of the capital investment is a complete breach and shall result in termination of this Agreement. Reductions in the Total Grant Amount for capital investment equal to or more than 75% of the required capital investment, but less than 100% will be addressed by reducing the Total Grant Amount by the percentage deficiency in capital investment. For example, if the Business achieves 90% of its capital investment requirement, the Total Grant Amount is reduced by 10%.

6.3 Failure to Begin Operations by the Operations Date (including any extensions granted). Failure to meet the Operations Date (plus approved extensions) will result in reductions to the Total Grant Amount as follows:

- a. 1-12 months of delay—reduction of 1% per month; and
- b. Delay exceeding 12 months---reduction of 5% per month.

6.4 Failure to Provide Construction Reports. The City Manager and the Business shall set a date when the first Construction Report is due. Thereafter, a Construction Report is due every three (3) months. The City Manager shall send the Business a notice that its Construction Report is due at least ten (10) days before the due date. If the Business has been given the notice and still fails to provide a Construction Report, a warning will be given in writing to the Business by the City Manager that if it fails to provide a report within ten (10) days of the warning, a 1% reduction will be made to the Total Grant Amount. If the Business still fails to provide a Construction Report, an additional 5% reduction will be made to the Total Grant Amount.

6.5 Failure to Provide Cost Summary Verification or Allow Review of Supporting Documents. If the Business fails to provide a Project cost summary verifying its capital investment or refuses to allow the City Manager or designee to review the supporting documents on reasonable request, the Annual Grant Amount shall be suspended until such time as the Business complies.

6.6 Reductions are Cumulative. The reductions to the Total Grant Amount set forth

above are cumulative of one another.

7. Breach by City. Should the City fail to comply with or to perform any term, obligation, covenant or condition contained in this Agreement shall be a breach of this Agreement. In the event of a breach by the City, the Business shall have the right to terminate this Agreement, enforce specific performance as appropriate, or maintain a cause of action for damages caused by the breach.

8. Additional Requirements and Terms.

8.1 Business shall keep the Project insured against loss or damage by fire or any other casualty.

8.2 Inventory does not count as capital investment.

8.3 The City, by approving this Agreement, assumes no liability or responsibility therefore or for any defect in said Project. The relationship between parties at all times shall NOT be deemed a partnership or joint venture for purposes of this Agreement, or any other purpose.

8.4 If, on account of any breach of a party's obligations under the terms, conditions, or covenants of this Agreement, it shall be necessary for the non-breaching party to employ or engage an attorney or attorneys to enforce or defend any of the rights or remedies hereunder, and should the non-breaching party prevail, the non-breaching party shall be entitled to any reasonable attorney's fees, costs, or expenses it incurs in connection herewith.

8.5 If any provision of this Agreement is held to be illegal, invalid, or unenforceable under the present or future laws effective while this agreement is in effect, such provision shall be automatically deleted from this agreement and the legality, validity and enforceability of the remaining provisions of this agreement shall not be affected thereby.

8.6 This Agreement shall be construed under and in accordance with the laws of the State of Texas and all obligations of the parties created hereunder are performable in McLennan County, Texas. Venue of any dispute under or arising out of this Agreement shall be in a court of competent jurisdiction in McLennan County, Texas.

8.7 This Agreement and its attachments constitute the sole and only Agreement of the parties hereto and supersede any prior understandings or written or oral agreements between the parties respecting the subject matter hereof. No representations outside of this Agreement are being relied upon by the parties.

8.8 No amendment, modification or alteration of the terms hereof shall be binding unless the same shall be in writing, dated subsequent to the date hereof and duly executed by the parties hereto.

8.9 The rights and remedies provided by this Agreement are cumulative and the use of any one right or remedy by either party shall not preclude or waive its rights to use any or all other

remedies. Said rights and remedies are given in addition to any other rights the parties may have by law, statute, ordinance or otherwise.

8.10 This Agreement is binding on the parties and their respective successors, heirs and assigns.

8.11 This Agreement may not be assigned without the express written consent of the other party, which shall not be unreasonably withheld, conditioned or delayed. Any restrictions herein on the transfer or assignment of Business's interest in this Agreement shall not apply to and shall not prevent the assignment of this Agreement to a subsidiary or affiliate of Business, an acquirer of substantially all of Business's assets, or any corporation or other entity with which Business may merge or consolidate or that may succeed to a controlling interest in the Business or in which Business owns more than a twenty percent (20%) equity interest.

8.12 Business and City have participated in negotiating and drafting this Agreement, and agree that the Agreement is to be construed as if drafted jointly. The parties agree that the Agreement will not be interpreted or construed against either party should a need for interpretation or resolution of any ambiguity arise.

8.13 Any notice or other communication required or permitted by this Agreement (hereinafter referred to as the "Notice") is effective when in writing and (i) personally delivered by nationally recognized next business day delivery service or by hand or (ii) three (3) days after notice is deposited with the U.S. Postal Service, postage prepaid, certified with return receipt requested. The parties agree to keep the other party or parties informed of their address at all times during the Grant Term. The Notices shall be addressed as follows:

If to the City: City of Hewitt, Texas
 Attn: City Manager
 200 Patriot Court
 Hewitt, Texas 76643

With a Copy To: Mike Dixon
 100 N. Ritchie Road
 Waco, Texas 76712

If to the Company: Kirby-Smith Machinery, Inc.
 Attn: Cody Ward
 9658 North May Avenue, Ste. 200
 Oklahoma City, Oklahoma 73120

With a Copy To: Joplin Hendricks, PLLC
 Attn: Joanna R. Joplin
 225 E. Virginia St., Suite 3
 McKinney, Texas 75069
 joanna@joplinhendricks.com

8.14 Upon written request by Business to City, City will provide Business with a certificate stating, as of the date of the certificate, (i) whether this Agreement is in full force and effect and, if Business is in breach of this Agreement, the nature of the breach, and (ii) a statement as to whether this Agreement has been amended and, if so, the identity and substance of each amendment.

8.15 Business represents and warrants that: (1) it has sufficient legal authority to conduct business in the State of Texas; (2) it has full capacity and authority to grant all rights and assume all obligations that it has granted and assumed under this Agreement; and (3) that the person or persons executing this Agreement on its behalf has been duly authorized to do so.

8.16 City represents and warrants that it has full capacity and authority to grant all rights and assume all obligations that it has granted and assumed under this Agreement; and that the person or persons executing this Agreement on its behalf has been duly authorized to do so.

8.17 This Agreement may be executed in multiple counterparts, each of which constitutes an original.

AGREED:

Kirby Smith Machinery, Inc.

BY: 
JOHN ARAPIDIS

ITS: PRESIDENT AND CEO

DATE: 10/3/2024

City of Hewitt, Texas

BY: _____

BO THOMAS

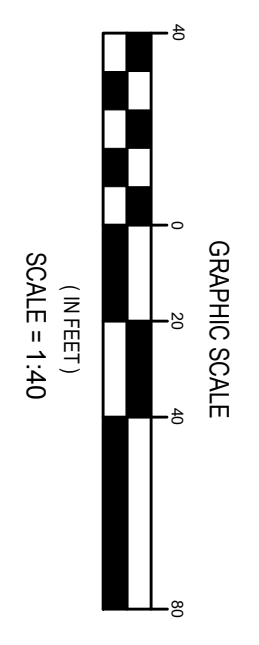
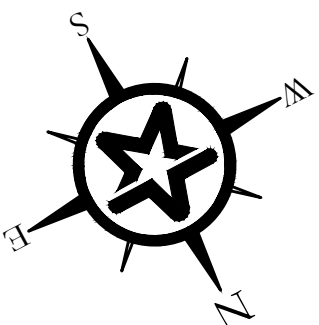
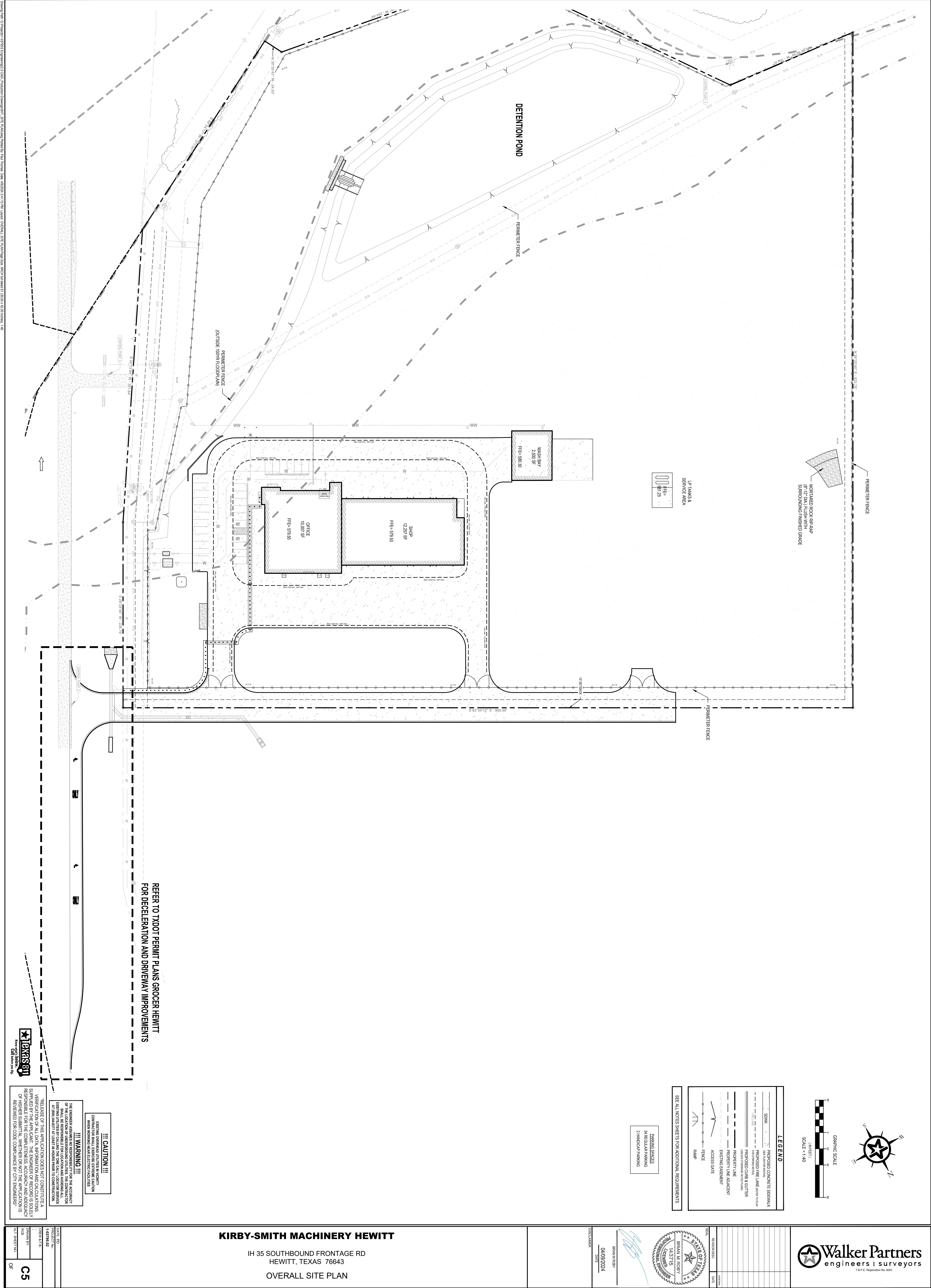
ITS: CITY MANAGER

DATE: _____

Attest:

LYDIA LOPEZ, CITY SECRETARY

Drawing Part of Project: 030522 Engineering/CD/CD Production/Drawings/ SITE LAYOUT/Drawings/ Final Review Date: 04/09/2024 14:15:04 User: OVERALL SITE PLAN.dwg Size: 407104 Bytes E: 100.00 x 2.00 inches, 1:40



LEGEND	
	PROPOSED CONCRETE SIDEWALK
	SANITARY SEWER
	STORM SEWER
	WATER MAIN
	GAS MAIN
	ELECTRIC LINE
	PROPOSED FIRE LINE REFER TO PLAN
	PROPOSED FIRE LINE REFER TO PLAN
	PROPERTY LINE
	PROPERTY LINE ADJACENT
	EXISTING EASEMENT
	ACCESS GATE
	FENCE
	ROAD

SEE ALL NOTES SHEETS FOR ADDITIONAL REQUIREMENTS

PARKING SPACES
34 REGULAR PARKING
2 HANDICAP PARKING



BRIAN M. ROBERY
04/09/2024
DATE

KIRBY-SMITH MACHINERY HEWITT
IH 35 SOUTHBOUND FRONTAGE RD
HEWITT, TEXAS 76643
OVERALL SITE PLAN

PROJECT NO.	
DATE	04/09/2024
DRAWN BY	C5
CHECKED BY	
DATE	
SCALE	
REVISIONS	
DATE	
BY	
REASON	

