VENDOR

PURCHASE ORDER

TEXAS A&M FOREST SERVICE
PURCHASING DEPARTMENT

200 Technology Way, Suite 1120, College Station, TX 77845-3424; Phone 979-458-7380, FAX 979-458-7386

Order Date
11/26/2024

Purchase Order No.	(Include this number on all correspondence and packages)
P500190	

VENDOR GUARANTEES MERCHANDISE DELIVERED ON THIS ORDER WILL MEET OR EXCEED SPECIFICATIONS IN THE BID INVITATION.

INVOICE TO:

TEXAS A&M FOREST SERVICE
FRP--CAPACITY BUILDING
200 TECHNOLOGY WAY, SUITE 1162
COLLEGE STATION TX 77845-3424

VENDOR

12743335905
SIDDONS MARTIN EMERGENCY GROUP LLC
1362 E RICHEY RD
HOUSTON, TX 77073-3505

- -

ALL TERMS AND CONDITIONS SET FORTH IN OUR BID INVITATION BECOME A PART OF THIS ORDER.

SHIP TO:

TEXAS A&M FOREST SERVICE
FRP--CAPACITY BUILDING
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COLLEGE STATION TX 77845-3424

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PLEASE NOTE: IF YOUR INVOICE IS NOT ADDRESSED AS INSTRUCTED PAYMENT WILL BE DELAYED.

Item	Description	Quantity	UOM	Unit Price	Ext Price
	USER REF: 000000-SB				
1	93-0003 -BME- , TYPE 3 (Wildland Type 34) INTERNATIONAL HV507, SFA, 350HP, 4 DOOR, 4X4 38,000#, (193' WB) & LOOSE EQUIPMENT Delivery within 36-37 months of order date ** BELOW IS FOR TAMFS REFERENCE ** For South Branch - New Braunfels FD(FCID 683)	1	EA	649,621.000	649,621.00
2	93-0003 -BME- , TYPE 3 (Wildland Type 34) INTERNATIONAL HV507, SFA, 350HP, 4 DOOR, 4X4 38,000#, (193' WB) & LOOSE EQUIPMENT Delivery within 36-37 months of order date ** BELOW IS FOR TAMFS REFERENCE ** For North Branch - Town of Flower Mound FD (FCID 965)	1	EA	649,621.000	649,621.00
3	93-0003 -BME- , TYPE 3 (Wildland Type 34) INTERNATIONAL HV507, SFA, 350HP, 4 DOOR, 4X4 38,000#, (193' WB) & LOOSE EQUIPMENT Delivery within 36-37 months of order date ** BELOW IS FOR TAMFS REFERENCE ** For East Branch - Nacogdoches FD (FCID 1005)	1	EA	649,621.000	649,621.00
4	HGAC FS12-23(BME) FEE PER VENDOR QUOTE# SMEG-0007240-3 /93-0003 ** BELOW IS FOR TAMFS REFERENCE ** FOR SOUTH BRANCH - NEW BRAUNFELS FD(FCID 683)	1	EA	333.340	333.34
5	HGAC FS12-23(BME) FEE PER VENDOR QUOTE# SMEG-0007240-3 /93-0003 ** BELOW IS FOR TAMFS REFERENCE ** FOR NORTH BRANCH - TOWN OF FLOWER MOUND FD (FCID 965)	1	EA	333.330	333.33
RTL					

Texas A&M Forest Service cannot accept collect freight shipments.

FOB: DESTINATION FRT PREPAID AND ADD

Terms:

FAILURE TO DELIVER - If the vendor fails to deliver these supplies by the promised delivery date or a reasonable time thereafter, without giving acceptable reasons for delay, or if supplies are rejected for failure to meet specifications, the State reserves the right to purchase specified supplies elsewhere, and charge the increase in price and cost of handling, if any, to the vendor. No substitutions nor cancellations permitted without prior approval of Purchasing Department.

IN ACCORDANCE WITH YOUR BID, SUPPLIES/EQUIPMENT MUST BE PLACED IN THE DEPARTMENT RECEIVING ROOM BY

The State of Texas is exempt from all Federal Excise Taxes.

STATE AND CITY SALES TAX EXEMPTION CERTIFICATE: The undersigned claims an exemption from taxes under Texas Tax Code, Section 151.309 (4), for purchase of tangible personal property described in this numbered order, purchased from contractor and/or shipper listed above, as this property is being secured for the exclusive use of the State of Texas.

The Terms and Conditions of the State of Texas shall prevail.

THIS ORDER IS NOT VALID UNLESS SIGNED BY THE PURCHASING AGENT

PURCHASING AGENT FOR
TEXAS A&M FOREST SERVICE

VENDOR

PURCHASE ORDER

TEXAS A&M FOREST SERVICE
PURCHASING DEPARTMENT

Order Date
11/26/2024

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SIDDONS MARTIN EMERGENCY GROUP LLC
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HOUSTON, TX 77073-3505

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Item	Description	Quantity	UOM	Unit Price	Ext Price
6	HGAC FS12-23(BME) FEE PER VENDOR QUOTE# SMEG-0007240-3 /93-0003 ** BELOW IS FOR TAMFS REFERENCE ** FOR EAST BRANCH - NACOGDOCHES FD (FCID 1005)	1	EA	333.330	333.33
				TOTAL	1949,863.00
	***** NET 30 ***** NOTE TO VENDOR: "SHIP TO" AND "INVOICE TO" ADDRESSES MAY DIFFER. FAILURE TO SUBMIT INVOICE TO PROPER ADDRESS MAY RESULT IN DELAYED PAYMENT. EXEMPT PURCHASE - TEXAS A&M FOREST SERVICE PURCHASING PROCEDURES, SECTION 6 (EXEMPT PURCHASES). GROUP PURCHASE - AS PER TAMUS REGULATION 25.99.02 SECTION 3 AND TAMUS PROCUREMENT CODE SECTION 15. BY ACCEPTANCE OF THIS PURCHASE ORDER VENDOR AGREES TO ALL TERMS AND CONDITIONS (AS APPLICABLE) LISTED ON ATTACHED "TEXAS A&M FOREST SERVICE PURCHASE ORDER--ATTACHMENT A". PRICING IS COMPLIANT WITH HGAC FS12-23(BME) PER VENDOR QUOTE# SMEG-0007240-3 /93-0003 AGENCY TERMS AND CONDITIONS SHALL APPLY, AND ARE INCLUDED WITH DOCUMENTATION.				
RTL					

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TEXAS A&M FOREST SERVICE

PURCHASE ORDER

VENDOR

TEXAS A&M FOREST SERVICE
PURCHASING DEPARTMENT

Order Date
11/26/2024

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VENDOR

12743335905
SIDDONS MARTIN EMERGENCY GROUP LLC
1362 E RICHEY RD
HOUSTON, TX 77073-3505

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Item	Description	Quantity	UOM	Unit Price	Ext Price
	VENDOR QUOTE: 93-0003 VENDOR REF: WILL TOPF 800-784-6806				
RTL					

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PURCHASING AGENT FOR
TEXAS A&M FOREST SERVICE

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

October 3, 2024

Jared Karns, Planning & Preparedness Department Head
TEXAS A&M FOREST SERVICE
200 TECHNOLOGY WAY STE 1281
COLLEGE STATION, TX 77845

Proposal For: 2024 TIFMAS BME (BUDGET)

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

Description	Amount
Qty. 3 - 93-0003 - BME International HV507 Wildland Type 34 (Unit Price - $649,621.00) Delivery within 36-37 months of order date QUOTE # - SMEG-0007240-3	
Vehicle Price	$1,948,863.00
93-0003 - UNIT TOTAL	**$1,948,863.00**
SUB TOTAL	$1,948,863.00
HGAC FS12-23 (BME)	$1,000.00
TOTAL	**$1,949,863.00**

Price guaranteed until 12/20/2024

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,

William Topf

William Topf

I, _____, the authorized representative of TEXAS A&M FOREST SERVICE, agree to purchase the proposed and agree to the terms of this proposal and the specifications attached hereto.

_____

Signature & Date

QUOTATION

FIRE TRUCKS

Texas A&M Forest Service
Jared Karns
200 Technology Way
Suite 1162
College Station, Texas 77845
979-458-6507
jkarns@tfs.tamu.edu

Siddons-Martin Emergency Group
Will Topf
1362 East Richey Road
Houston, TX 77073
800-784-6806
wtopf@siddons-martin.com

Exp. Date: 10/05/2024
Quote No: 93-0003 Texas A&M Forest Service HV507 Type 3 Summit
11/18/2024

PART NO	S		DESCRIPTION	QTY
			== BME, Type 3: Model 34, "Summit" - 2.810 09/05/24 ==	
			COVER SHEET	
00-00-1216	XS	>	Commercial Wildland, Single Axle, Model 34, "Summit	1
			GENERAL TERMS AND CONDITIONS	
00-01-0010			Standard Boiler Plate Package (DEALER)	1
00-15-1110		>	|-- Certificate, Weight/Tilt Angle, NFPA (BME)	1
00-20-1310			|-- Performance Testing, Electrical, 12 Volt (BME)	1
00-21-9100			|-- Test Results, Vehicle (BME)	1
00-55-1010			|-- Delivery, Dealer Arranged	1
00-65-1020			|-- Warranty, General Provisions, 1 Year (BME)	1
00-65-2100			|-- Material and Workmanship Rqmts (BME)	1
00-66-1115			|-- Warranty, Body & Structural, 10 Yrs (BME)	1
00-67-1620			|-- Plumbing Warranty, 10 Years, Stainless Steel	1
00-67-1800			|-- Valve Warranty, Akron, 5 Years	1
00-69-5210			|-- Warranty, Paint, 7 yrs (BME)	1
00-69-5420			|-- Warranty, Lettering/Striping, 3 yrs (BME)	1
00-70-1055			|-- Warranty, Chassis, General (BME)	1
00-75-1405		>	|-- Manuals, Apparatus Complete Electronic, USB	2
			========= CHASSIS SPECIFICATIONS =========	
01-30-2000		>	INT HV507, SFA, 350 HP, 4 Door, 4 x 4, 38,000# (193" WB)	1
			LABELING	
02-71-1000			*** Cab Seating Placard ***	1
02-71-1100			Label, Seating Number, Cab	1
02-71-2999				1
02-71-3000			*** Safety Placards ***	1

PART NO	S	DESCRIPTION	QTY
02-71-3100		Labels, Standard Package Set	1
02-71-3110		|-- Label, Data, Fluid Levels	1
02-71-3115	>	|-- Label, Data, Pump Performance	1
02-71-3300		|-- Label, Data, "No Ride" Rear Step (LEXAN)	1
02-71-3501	<	|-- Label, Safety, FAMA07 Seat Belt Warning	1
		Label shall be mounted in a location visible to any occupant in the cab.	
02-71-3511	<	|-- Label, Safety, FAMA42, Siren Noise	1
		Label shall be located insde the driver cab door.	
02-71-3512	<	|-- Label, Safety, FAMA43, Helmet Worn In Cab	1
		The label shall located visible from each seating location in the cab.	
02-71-3900		|-- Label, Ember Separator	1
02-71-3910		|-- Label, Ember Separator, Fresh Air	1
		LOGOS -- BME	
02-71-4110		Plaque, BME (1)	1
81-15-1605		|-- BME Plaque, Reflective Background, White Back, Red Front	1
		TOWING	
02-72-4002		*** Front Towing Devices ***	1
02-72-4400		Tow Eye Plate, Front, Painted (Durabak) M34 - style	1
02-72-5105		|-- Front Receiver, Off Center	1
02-71-3750	<	|-- Label, Off Set Reciever Hitch, Not For Towing	1
		The specified off set reciver hitch shall have a warning label located visibly near the hitch that states "NOT FOR TOWING".	
02-72-5999			1
02-72-6000		*** Rear Towing Provisions ***	1
02-72-7105		Rear Receiver, Off Center	1
02-71-3750	<	|-- Label, Off Set Reciever Hitch, Not For Towing	1
		The specified off set reciver hitch shall have a warning label located visibly near the hitch that states "NOT FOR TOWING".	
02-72-8300		Towing Provision, Rear Under Body Bustle, Job Color, Model 34	1
		BUMPERS	
02-73-1000		*** Bumper Extensions ***	1
02-73-1240	>	Bumper Extension, 16", Frame Rails	1
02-73-1220	>	|-- Bumper Platform, 16", .125" Alum	1
80-70-3105		|-- Bumper Platform, Surface Finish, Bare Embossed Diamond Plate	1
02-73-8005		|-- Bumper, International, 15 degree	1
02-73-9701		|-- Front Bumper, Color, Job Color	1
02-73-8008		|-- Bumper, Side Bumper Wings	1
02-73-9710		|-- Front Bumper, Wings, Color, Job Color	1
02-73-1999			1
02-73-2000		*** Bumper Compartments ***	1
02-73-2305		Bumper Cmpt, Driver, Hose Stge Compartment	1
02-73-6600		|-- Bumper Cmpt, Nylon Straps W/Buckles, (1) per Cmpt	1
35-86-1100		|-- Black Straps	1
35-85-2118		|-- Dri-Dek, Grating, Per Bumper Cmpt	1
35-85-5001		|-- Dri-Dek, Black	1
02-73-2999			1
02-73-3305		Bumper Cmpt, Center, Hose Stge Compartment	1
02-73-6100		|-- Bumper Cmpt, Door, Alum, NFPA T/P, Embossed	1
24-18-2310		|-- D-ring, Polished	1
35-85-2118		|-- Dri-Dek, Grating, Per Bumper Cmpt	1
35-85-5001		|-- Dri-Dek, Black	1
02-73-3999			1
02-73-4305		Bumper Cmpt, Psngr, Hose Stge Compartment	1
02-73-6600		|-- Bumper Cmpt, Nylon Straps W/Buckles, (1) per Cmpt	1
35-86-1100		|-- Black Straps	1
35-85-2118		|-- Dri-Dek, Grating, Per Bumper Cmpt	1

PART NO	S	DESCRIPTION	QTY
35-85-5001		|-- Dri-Dek, Black	1
02-73-6999			1
02-73-8000		*** Bumper Equipment ***	1
02-73-8006		Bumper, Swivel Elbow Stopper	1
		AIR HORNS	
02-74-1560		Air Horn, (1) Buell, #1063, Frame Mounted, (Model 34)	1
02-74-2200		|-- Air Horn, Control, Driver, Single Foot Switch	1
02-74-2520		|-- Air Horn, Control, Pump Panel	1
		EXHAUST SYSTEMS	
02-76-1000		*** Horizontal Exhaust ***	1
02-76-1100		Exhaust System, Extend to Psngr Side	1
02-76-1350		Exhaust, Heat Wrap	1
02-76-1999			1
02-76-2000		*** Exhaust Extraction Systems ***	1
02-76-2050		NO--Exhaust Adapter, No Modification	1
		MUD FLAPS	
02-77-1000		*** Front Mud Flaps ***	1
02-77-1600		Bumper Box Protective Flaps, Black Rubber	1
02-77-1999			1
02-77-2000		*** Rear Mud Flaps ***	1
02-77-2200		Mud Flaps, Rear Wheels, Manufacturer Logo	1
		CAB STEPS -- ALUM T/P ENCLOSURES -- SCUFF PLATES	
02-79-1050		NO--Fuel Tank Cover	1
02-79-1055		NO--Exhaust After Treatment Cover	1
02-79-1999			1
02-79-2000		*** Cab Step Compartments ***	1
02-79-2060		Cab Step Compartment, Under Cab, Driver, S.S., Double door, Job Color	1
24-18-2310		|-- D-ring, Polished	2
41-44-4020		|-- Cmpt Lights, 800 Series LED 21"	1
41-46-2005		|-- Door Open Sensor, Compt Door	1
02-79-2109			1
02-79-2160		Cab Step Compartment, Under Cab, Psngr, S.S., Double Door	1
02-79-3100		|-- Slide Tray, 250#, Under Cab Compartment, S/S	1
24-18-2310		|-- D-ring, Polished	2
41-44-4020		|-- Cmpt Lights, 800 Series LED 21"	2
41-46-2005		|-- Door Open Sensor, Compt Door	1
02-79-3999			1
02-79-4000		*** Cab Steps ***	1
02-79-4500		Cab Steps, Extrd Diamond Back Alum, (4) Door	1
		CAB DOORS	
02-80-1600		Cab Trim, Door, Reflective NFPA, 4 Door	1
81-15-1521		|-- Reflective Color, Red/Wht DOT	1
		CAB SEATING AND SCBA EQUIPMENT	
02-81-1300	<	Seat Pedestal, Front, Air Ride	1
		Please ensure retaining straps are installed from seat to floor, and that buckles are mounted on air ride seats	
02-81-1442	>	|-- Seats, Cab, Legacy, Air Ride	2
02-81-1445		|-- Seats, Cab, Legacy, Material, Black Duraleather	2
02-81-0154			1
02-81-1303	<	Seat Pedestal, Rear, Air Ride	1
		Please ensure retaining straps are installed from seat to floor, and that buckles are mounted on air ride seats	

PART NO	S	DESCRIPTION	QTY
02-81-1442	>	|-- Seats, Cab, Legacy, Air Ride	2
02-81-1445		|-- Seats, Cab, Legacy, Material, Black Duraleather	2
		AIR SYSTEMS	
02-87-2100		|-- Air Outlet, Driver Cab Step, Manual, W/ Shutoff at Tank	1
02-87-2699			1
02-87-2705		Air Tank Relocation, Rear	1
		ADDITIONAL CHASSIS MODIFICATIONS	
02-88-2125		Chassis Batteries, Relocated, Psnger Side Under Rear Cab.	1
02-88-2199			1
02-88-2500		Under hood Light, LED	2
02-88-3250	< >	International Headlights, Replace Halogen with LED	1
		The factory halogen headlights shall be replaced with LED headlights. The headlights shall be Truck Lite #27270C 7" LED.	
02-88-3399			1
02-88-3605		NO---Stormking Fire Curtains	1
02-88-4100		Ember Separator, Screen, Installation, Chassis	1
02-88-4200		Ember Separator, Screen, Installation, Fresh Air Cab	1
02-88-4300		Ember Separator, Screen, Installation, Fire Pump Engine, Aux	1
02-88-4399			1
02-88-5000	>	Chassis Skid Plate Options	1
02-88-5330		|-- Fuel Tank Skid Plate	1
80-70-3021		|-- Surface Finish, Powder Coated, Gloss Black	1
02-88-5399			1
02-88-6115		NO--Aftermarket Tint, Cab Windows	1
02-88-6300	< >	Exterior Cab Trim, Debris Skirt (Navistar Only)	1
		NOTE: Cab trim skirts are only installed on International HV chassis.	
02-88-7100		Protective Sleeve, Air, Fuel, Elec Lines, Fire Resistant Sleeves	1
02-88-7110		Fuel Tank Venting	1
02-88-7999			1
02-88-8100		Tire Pressure Monitoring System, Real Wheels	1
02-88-9619			1
		****** FIRE PUMP ******	
08-11-1275		Pump, Darley, PSPH 1000, High Pressure, PTO	1
00-67-1410		|-- Pump Warranty, Darley, 3 years	1
08-20-6005		|-- Pump Primer, Darley, Elec	1
10-01-1100		|-- Pump Test, UL, NFPA 1901, 750 to 3000gpm	1
10-02-1110		|-- Pump Drive, PTO and Drivelines	1
10-03-1150		|-- Intake-Relief Valve, Elkhart #40/40	1
10-04-1120		|-- Engine and Pump Cooler, Bypass-To-Tank	1
10-06-1200		|-- Pump Drain, Master-Low Point, Handwheel	1
10-08-2005		|-- Pump Shift, PTO, Stationary Pumping Only	1
10-09-1120		|-- Piping, Stainless Steel, PTO	1
08-12-9999			1
08-15-1800		Pump, Darley, 1-1/2 AGE, 24HP Kubota D902 Diesel, Model 34	1
07-20-1800		|-- Pump Primer, Waterous, VAP Priming Valve	1
08-20-5300		|-- Dual Deluxe Plus Panels, Darley	1
10-09-1300		|-- Piping, Stainless Steel, Auxiliary Pump	1
10-80-3115		|-- Primer, Electric, Share with Main Pump, Aux Pump, Push Button	1
10-80-5300		|-- Fuel System, Plumbed to Chassis Fuel Tank	1
10-80-6100		|-- Battery, 12V, From Chassis, Quick Disconnect	1
10-81-6100		|-- Plumbing, Piped to Main Fire Pump	1
10-81-8400		|-- Auxiliary Pump, Oil Drain Extension	1
		========== PUMP INTAKES ==========	
		LEFT SIDE INTAKE	

PART NO	S	DESCRIPTION	QTY
11-01-1000		*** Left Side Ungated Intakes ***	1
11-01-1607		Intake, Ungated, 6", LH Side	1
11-07-5600		|-- Cap, 6", Chrome Brass, Long Handle	1
11-08-4010		|-- NO--Storz Adapter	1
11-09-1010		|-- NO--Storz Elbow	1
11-01-1799			1
11-01-2000		*** Left Side Gated Intakes ***	1
11-01-2100		Intake, Gated, 2.5", LH Side	1
10-07-1105		|-- Intake Valve Bleeder, South Park, W/O flange, Push-Pull	1
10-15-1120		|-- Valves, Akron, Brass, 8825 Series (Uses R1,TS or TSC Handles Only)	1
10-20-0060		|-- Valve, Direct, Local Control, Akron TSC	1
11-07-1100		|-- Plug, 2.5", Chrome Brass, Rocker Lug	1
		RIGHT SIDE INTAKE	
11-02-3000		*** Right Side Gated Intakes ***	1
11-02-3100		Intake, Gated, 2.5", RH Side	1
10-07-1105		|-- Intake Valve Bleeder, South Park, W/O flange, Push-Pull	1
10-15-1120		|-- Valves, Akron, Brass, 8825 Series (Uses R1,TS or TSC Handles Only)	1
10-20-0060		|-- Valve, Direct, Local Control, Akron TSC	1
11-07-1100		|-- Plug, 2.5", Chrome Brass, Rocker Lug	1
		TANK-TO-PUMP	
11-10-2000		*** Tank To Pump - PTO Pumps ***	1
11-10-2300		Tank-To-Pump, 3", W/Check Valve	1
10-15-1152		|-- Valves, Akron, Brass, 8630 Series (Electric Controller)	1
10-22-3110		|-- Elec Valve Cntrl, Akron, Navigator Pro 9333	1
		PUMP-TO-TANK	
11-20-2000		*** Pump To Tank - PTO Pumps ***	1
11-20-2200		Pump-To-Tank, 2", Water Tank, (Model 34)	1
10-15-1220		|-- Valve, Akron Brass, 8820 Series (Pump to Tank)	1
10-20-0040	>	|-- Valves, Direct, R1, Handle	1
10-20-1110		|-- Pull Rod Valve Cntrl, Thuemling, Locking	1
		LEFT SIDE DISCHARGES	
12-05-1000		*** 2.5" Left Side Discharges ***	1
12-05-1120		Discharge, 2.5", LH Forward	1
10-08-1100		|-- Discharge Valve Bleeder, Class 1, Manual 1/4 Turn	1
10-15-1120		|-- Valves, Akron, Brass, 8825 Series (Uses R1,TS or TSC Handles Only)	1
10-20-0060		|-- Valve, Direct, Local Control, Akron TSC	1
12-20-1050		|-- NO--Reducing Adapter	1
12-22-4100		|-- Cap, 2.5", Rocker Lug, Chrome Brass, w/Chain	1
12-05-1199			1
12-05-1200		Discharge, 2.5", LH Rearward	1
10-08-1100		|-- Discharge Valve Bleeder, Class 1, Manual 1/4 Turn	1
10-15-1120		|-- Valves, Akron, Brass, 8825 Series (Uses R1,TS or TSC Handles Only)	1
10-20-0060		|-- Valve, Direct, Local Control, Akron TSC	1
12-21-1200		|-- Elbow, 2.5"F x 2.5"M, Chrome Brass	1
12-22-4100		|-- Cap, 2.5", Rocker Lug, Chrome Brass, w/Chain	1
		RIGHT SIDE DISCHARGES	
12-06-0005		NO--Right Side Discharge	1
		========== REAR DISCHARGES ==========	
12-07-2000		*** 2.5" Rear Left Discharges ***	1
12-07-2100		Discharge, 2.5", Rear LH	1
10-15-1120		|-- Valves, Akron, Brass, 8825 Series (Uses R1,TS or TSC Handles Only)	1
10-20-0060		|-- Valve, Direct, Local Control, Akron TSC	1
12-20-1050		|-- NO--Reducing Adapter	1

PART NO	S		DESCRIPTION	QTY
12-21-1200			|-- Elbow, 2.5"F x 2.5"M, Chrome Brass	1
12-22-4100			|-- Cap, 2.5", Rocker Lug, Chrome Brass, w/Chain	1
12-08-0299				1
12-08-2100			Discharge, 2.5", Rear RH	1
10-08-1205			|-- Discharge Valve Bleeder, South Park, W/O flange, Push-Pull	1
10-15-1120			|-- Valves, Akron, Brass, 8825 Series (Uses R1,TS or TSC Handles Only)	1
10-20-0060			|-- Valve, Direct, Local Control, Akron TSC	1
12-20-1050			|-- NO--Reducing Adapter	1
12-21-1200			|-- Elbow, 2.5"F x 2.5"M, Chrome Brass	1
12-22-4100			|-- Cap, 2.5", Rocker Lug, Chrome Brass, w/Chain	1
12-09-3199				1
12-09-4090			NO--Rear Spray Nozzle	1
			1-1/2" / 2" CROSSLAY DISCHARGES	
12-10-1056			Crosslay Discharge, (2) 1-1/2", Over Pump Panel (Model 34)	1
10-15-1115			|-- Valves, Akron, Brass, 8820 Series (Uses R1,TS or TSC Handles Only)	2
10-20-0060			|-- Valve, Direct, Local Control, Akron TSC	2
12-11-5150			|-- Crosslay Cover, Alum T/P, Vinyl NFPA Ends	1
12-11-7310			|-- Crosslay Flaps, Vinyl, Red	2
12-11-6110			|-- Crosslay Flared Edges, Both Sides	1
12-20-1150			|-- Reducing Adapter, 2"F x 1.5"M, Chrome Brass	2
12-22-2100			|-- Cap, 1.5", Rocker Lug, Chrome Brass, w/Chain	2
			FRONT BUMPER DISCHARGES	
12-13-1210			Bumper Dschrg, 2" Valve, 1-1/2" Front, Swivel, Left Side	1
10-15-1115			|-- Valves, Akron, Brass, 8820 Series (Uses R1,TS or TSC Handles Only)	1
10-20-0060			|-- Valve, Direct, Local Control, Akron TSC	1
12-22-2100			|-- Cap, 1.5", Rocker Lug, Chrome Brass, w/Chain	1
12-13-1299				1
12-13-1310			Bumper Dschrg, 2" Valve, 1-1/2" Front, Swivel, Right Side	1
10-15-1115			|-- Valves, Akron, Brass, 8820 Series (Uses R1,TS or TSC Handles Only)	1
10-20-0060			|-- Valve, Direct, Local Control, Akron TSC	1
12-22-2100			|-- Cap, 1.5", Rocker Lug, Chrome Brass, w/Chain	1
12-13-1359				1
12-13-1360			Discharge Isolation Vlv Cntrl, 2", Wildland,	1
10-15-1700			|-- Valves, Akron, Brass, 8820 Series, Isolation Valve	1
10-20-0040		>	|-- Valves, Direct, R1, Handle	1
12-13-8405			NO--Front Spray Nozzle	1
			HOSE REELS	
12-31-2205			Hose Reel, HANNAY, Elec Rewind, Super Booster (Model 34)	1
12-31-3100			|-- Mounting Hose Reel, Over Pump Area	1
12-31-6205			|-- Hose Reel Controls, Model 34, Local Control Valve	1
10-15-1105			|-- Valves, Akron, Brass, 8810 Series (Uses R1,TS or TSC Handles Only)	1
10-20-0060			|-- Valve, Direct, Local Control, Akron TSC	1
12-32-2110			|-- Rewind Cntrl, Weatherproof Push Buttons, Model 34	2
12-32-5005			|-- NO--Nozzle Mounting	1
12-32-6700			|-- Rollers, Hose Reel, Model 34	1
12-32-4199			|--	1
12-32-6810	U		|-- Hose, Water, Reel Tex, Fabric cvrd, 1" x (1)50' (Altra Reel*)	3
			MONITOR DISCHARGES	
12-40-1005			No Front Monitor Discharge	1
			INJECTION - FOAM SYSTEMS	
13-10-1120		<	Foam System, FoamPro, 1600 12V Elec, Model 34	1
			The following discharges shall have foam distributed to them.	
			Front bumper discharges	
			Front bumper monitor (if applicable)	
			Pump house crosslay pre connects	

PART NO	S	DESCRIPTION	QTY
		Booster hose reel	
		Rear 1-1/2" discharge	
00-67-1100		|-- Foam Warranty, System, 1 year	1
13-10-5200		|-- Foam System, FoamPro, On-Off Switch in Cab	1
13-11-1110		|-- Foam Upload System, Hale, EZ Foam	1
		========== PUMP ENCLOSURES ==========	
14-01-2145		Pump Enc, PTO, Steel, 37"W, Model 34	1
10-81-8800		|-- Auxiliary Pump, Cover, ALDP	1
41-46-2005		|-- Door Open Sensor, Compt Door	1
		PUMP ENCLOSURE STEPS	
14-15-1225		Running Boards, Pump Panel, Non-slip, Driver/Psngr	1
		PUMP ENCLOSURE SERVICE ACCESS DOORS	
14-16-1100		Pump Enc Door, Upper LH, S/S, Blk Powder Coated, Model 34	1
		PUMP PANELS	
14-25-1100		Pump Panels, SM, Stainless Steel, Blk Powder Coated, Model 34	1
		PUMP PANEL INSTRUMENTATION	
14-30-1300		Master Discharge Pressure / Intake Pressure Gauges, SPAN, 4.5"	1
14-30-1500		|-- *** 4.5" Master Pressure Gauges - Intake***	1
14-30-1800		|-- Master Intake Pressure Gauge, SPAN, -30-0-600	1
14-30-1400		|-- Pressure Gauge, Drains	1
14-30-4100		|-- Gauge Backlighting, LED, White	1
14-30-4600		|-- Standard Dial Face, Black on White	1
14-30-5100		|-- Gauge Bezel, Chrome	1
14-30-1999		|--	1
14-30-2000		|-- *** 4.5" Master Pressure Gauges - Discharge***	1
14-30-2290		|-- Master Discharge Pressure Gauge, SPAN, 30-0-600	1
14-30-1400		|-- Pressure Gauge, Drains	1
14-30-4100		|-- Gauge Backlighting, LED, White	1
14-30-4600		|-- Standard Dial Face, Black on White	1
14-30-5100		|-- Gauge Bezel, Chrome	1
14-30-2999		|--	1
14-30-3000		|-- *** Test Taps - Pressure Gauges ***	1
14-30-3100		|-- Gauge, Test Taps	1
		ENGINE CONTROLS AND GAUGES	
14-35-2010		Pressure Governor, FRC, PBA501-D00, Pump Boss Max, Dual Sensor (Cummins)	1
		WATER TANK LEVEL GAUGES	
14-40-1005		NO--Water Tank Gauge, Mini, Cab	1
14-40-1006		NO-- Water Tank Gauge, Cab/Body Mtd	1
14-40-1099			1
14-40-1100	>	Water Tank Gauge, FRC, TankVision, Pump Panel	1
14-40-4215		|-- Level Gauge, Activation, Battery Switched	1
		FOAM TANK LEVEL GAUGES	
14-40-5060		NO--Foam Tank Gauge, Mini, Cab	1
14-40-5061			1
14-40-5100	>	Foam Tank Gauge, FRC, Class A, Pump Panel	1
14-40-4215		|-- Level Gauge, Activation, Battery Switched	1
		LABELING AND LIGHTING	

PART NO	S	DESCRIPTION	QTY
14-45-1000		*** Identification Labels ***	1
14-45-1210		Nomenclature Plates, Color Coded, English, Lexan w/Bezel	1
14-45-1999			1
14-45-2000		*** Pump Panel and Pump Enclosure Lighting ***	1
14-45-2155		Pump Panel Light, Midship, Driver, LED, Tecniq, 3 Lights	1
14-45-3000		|-- Pump Panel Light, Actuated Pump Engagement	1
14-45-2199			1
14-45-2255		Pump Panel Light, Midship Psngr, LED, Tecniq, 1 Light	1
14-45-2999			1
14-45-3210		Pump Enc Lights, Plumbing Area, Manual Switch, Tecniq E10	1
		PUMP PANEL EQUIPMENT	
		---------- STEEL BODY CONSTRUCTION ---------	
20-10-0020		Body Construction, Steel, Summit	1
		******* Model 34 - Targhee Compartments ********	
21-01-2701		*** Drivers Side Compartments ***	1
21-01-2720		Cmpt Dim, Drivers, 51"W x 39"H, D1	1
24-09-1200		|-- Ventilation and Filter, Weber Style, Compartment	1
24-09-3100		|-- Cmpt Floor Drains, Corners	1
24-17-5100		|-- Compt, Sill Plate, Polished Stainless Steel, Each	1
35-01-1110		|-- Adj tracks, Uni-Strut	1
35-01-7120		|-- Adj tracks, Uni-Strut, Back Wall, Vertical (2)	1
35-10-0050		|-- NO--Shelf, Adjustable	1
35-20-0050		|-- NO--Slide Tray	1
35-45-1000		|-- NO-- Vertical Divider	1
35-50-6005		|-- NO--Tool Board, Rear Wall	1
35-50-6010		|-- NO--Tool Board, Side Walls	1
35-70-3201		|-- NO--SCBA Mounting	1
35-85-0050		|-- NO-- Compt Grating	1
41-45-0015		|-- Compartment Lighting, Code 3 800 series, (3)	1
41-46-2005		|-- Door Open Sensor, Compt Door	1
42-20-1050		|-- NO - 12V Power	1
21-01-2725			1
21-01-2740		Cmpt Dim, Drivers, 34"W x 58"H, D2	1
24-09-1200		|-- Ventilation and Filter, Weber Style, Compartment	1
24-09-3100		|-- Cmpt Floor Drains, Corners	1
24-17-5100		|-- Compt, Sill Plate, Polished Stainless Steel, Each	1
35-01-1110		|-- Adj tracks, Uni-Strut	1
35-01-7120		|-- Adj tracks, Uni-Strut, Back Wall, Vertical (2)	1
35-10-0050		|-- NO--Shelf, Adjustable	1
35-25-2120		|-- Slide Tray, BME 500#, Alum 3/16", <44"D	1
81-20-2520		|-- Stripe, Slide Trays, Reflective,Each	1
81-15-1521		|-- Reflective Color, Red/Wht DOT	1
35-45-1000		|-- NO-- Vertical Divider	1
35-50-6005		|-- NO--Tool Board, Rear Wall	1
35-50-6010		|-- NO--Tool Board, Side Walls	1
35-54-1050		|-- NO-- Slide Out Vertical Tool Boards	1
35-85-0050		|-- NO-- Compt Grating	1
41-45-0015		|-- Compartment Lighting, Code 3 800 series, (3)	1
41-46-2005		|-- Door Open Sensor, Compt Door	1
42-20-1050		|-- NO - 12V Power	1
21-01-2799			1
21-01-2800		*** Passenger Side Compartments ***	1
21-01-2811		Cmpt Dim, Psngr, 51"W x 39"H, P1	1
24-09-1200		|-- Ventilation and Filter, Weber Style, Compartment	1
24-09-3100		|-- Cmpt Floor Drains, Corners	1
24-17-5100		|-- Compt, Sill Plate, Polished Stainless Steel, Each	1
35-01-1110		|-- Adj tracks, Uni-Strut	1
35-01-7120		|-- Adj tracks, Uni-Strut, Back Wall, Vertical (2)	1
35-10-0050		|-- NO--Shelf, Adjustable	1

PART NO	S	DESCRIPTION	QTY
35-20-0050		|-- NO--Slide Tray	1
35-45-1000		|-- NO-- Vertical Divider	1
35-50-6242	>	|-- Tool Board, Rear Wall, Bolt-In, BME, Medium	1
35-50-6251	>	|-- Tool Board, SIDE Wall, Bolt-In, BME, Medium	1
35-70-3201		|-- NO--SCBA Mounting	1
35-85-0050		|-- NO-- Compt Grating	1
41-45-0015		|-- Compartment Lighting, Code 3 800 series, (3)	1
41-46-2005		|-- Door Open Sensor, Compt Door	1
42-20-1050		|-- NO - 12V Power	1
21-01-2815			1
21-01-2831		Cmpt Dim, Psngr, 34"W x 58"H, P2	1
24-09-1200		|-- Ventilation and Filter, Weber Style, Compartment	1
24-09-3100		|-- Cmpt Floor Drains, Corners	1
24-17-5100		|-- Compt, Sill Plate, Polished Stainless Steel, Each	1
35-01-1110		|-- Adj tracks, Uni-Strut	1
35-01-7120		|-- Adj tracks, Uni-Strut, Back Wall, Vertical (2)	1
35-10-0050		|-- NO--Shelf, Adjustable	1
35-20-0050		|-- NO--Slide Tray	1
35-45-1000		|-- NO-- Vertical Divider	1
35-50-6005		|-- NO--Tool Board, Rear Wall	1
35-50-6010		|-- NO--Tool Board, Side Walls	1
35-54-1050		|-- NO-- Slide Out Vertical Tool Boards	1
35-85-0050		|-- NO-- Compt Grating	1
41-45-0015		|-- Compartment Lighting, Code 3 800 series, (3)	1
41-46-2005		|-- Door Open Sensor, Compt Door	1
42-20-1050		|-- NO - 12V Power	1
21-01-2839			1
21-01-2840		*** Back Compartments ***	1
21-01-2841		Back Compartment, 27"W x 34"H, B1	1
24-09-1200		|-- Ventilation and Filter, Weber Style, Compartment	1
24-09-3100		|-- Cmpt Floor Drains, Corners	1
24-17-5100		|-- Compt, Sill Plate, Polished Stainless Steel, Each	1
35-01-1110		|-- Adj tracks, Uni-Strut	1
35-01-7120		|-- Adj tracks, Uni-Strut, Back Wall, Vertical (2)	1
35-10-0050		|-- NO--Shelf, Adjustable	1
35-20-0050		|-- NO--Slide Tray	1
35-85-0050		|-- NO-- Compt Grating	1
41-45-0010		|-- Compartment Lighting, Vertical, Code 3 800 series, (Large) (2)	1
41-46-2005		|-- Door Open Sensor, Compt Door	1
42-20-1050		|-- NO - 12V Power	1
21-01-2860		*** Special Compartments ***	1
21-01-2880		Pump House Cmpt, 21"W x 23"H x 12"D, PH1	1
24-09-1200		|-- Ventilation and Filter, Weber Style, Compartment	1
24-09-3100		|-- Cmpt Floor Drains, Corners	1
35-01-1110		|-- Adj tracks, Uni-Strut	1
35-10-0050		|-- NO--Shelf, Adjustable	1
35-85-0050		|-- NO-- Compt Grating	1
41-45-0011		|-- Compartment Lighting, Two, Vertical, Code 3 800 series, (Small)	1
41-46-2005		|-- Door Open Sensor, Compt Door	1
21-01-2885		Pump House Cmpt, 11.5"W x 18"H x 18"D, PH2	1
24-09-3100		|-- Cmpt Floor Drains, Corners	1
41-46-2005		|-- Door Open Sensor, Compt Door	1
		SLIDE-IN LADDER CMPTS	
23-68-5715		Ladder Cmpt, Vertical, 20' 3 Section, Rear, Psngr, (M34)	1
41-46-2005		|-- Door Open Sensor, Compt Door	1
		SLIDE-IN SUCTION HOSE CMPTS	
23-68-6002		*** Hard Suction Hose Cmpt - Slide-in Rear ***	1
23-68-6115		Hard Suction Cmpt, Rear, Drivers/Psngr, (M34)	1
41-46-2005		|-- Door Open Sensor, Compt Door	2
		HOSE BED COMPARTMENTS	

PART NO	S	DESCRIPTION	QTY
23-70-6000		*** Hose Bed Compartments - Front of Hosebed ***	1
23-70-6100		Hose Bed Cmpt, Front Center, Model 34, TC1	1
24-14-1002		|-- Doors, Roof Compts, Lift Up Alum Embossed T/P, Medium 1000-3000sq.in.	1
24-19-0100		|-- Lever Latch, Black, Non-Locking, Round Button, Each	2
41-45-0005		|-- NO--Compartment Lighting	1
41-46-2005		|-- Door Open Sensor, Compt Door	1
23-72-3999			1
23-72-4000		*** Hose Bed Dunnage Compartments --Center ***	1
23-72-4100		Top Compartment, Center, (Model 34), TC2	1
24-14-1001		|-- Doors, Roof Compts, Lift Up Alum Embossed T/P, Small <1000sq.in	1
24-19-0100		|-- Lever Latch, Black, Non-Locking, Round Button, Each	1
41-45-0005		|-- NO--Compartment Lighting	1
41-46-2005		|-- Door Open Sensor, Compt Door	1
23-72-4105		Top Compt, Painted Smooth Alum, Bolted Panel, Rear Upper Center	1
		========== BODY COMPONENTS ==========	
		WHEEL WELL AREA	
24-01-1100		*** Wheel Well Panels -- Single Axle ***	1
24-01-1400		Wheel Well Panel Constr, Galv Steel Body, Pntd	1
24-03-1999			1
24-03-2000		*** Wheel Well Liners ***	1
24-03-2400		Wheel Well Inner Liners, Body, Plastic, 22.5" rims, S/A	1
24-03-2999			1
24-03-3000		*** Fenderettes ***	1
24-03-4200		Fenderettes, Body, Rear, Rubber, 22.5" rims (2) Single Axle	1
		DRIVERS SIDE -- SCBA OPENINGS AND COMPARTMENTS	
24-05-1700		SCBA Stge, Drivers, Fwd Wheelwell, 8" Round	1
24-05-2450		|-- SCBA Door, Cast Products, Lever Latch	1
24-05-2500		|-- SCBA Tube, Plastic, w/ Mat	1
24-19-0415		|-- Lever Latch, Textured Chrome Raised Button, Non-locking, Each	1
24-05-7000		|-- SCBA Cylinder Tether, 1" Nylon	1
24-05-2305	>	SCBA Compt, Drivers, Rwd Whlwell, Full Pack Storage	1
24-05-2465		|-- SCBA Door, Painted Stainless Steel	1
24-19-0410		|-- Lever Latch, Black, Non-Locking, Round Button, Each	1
		PASSENGER SIDE -- SCBA OPENINGS AND COMPARTMENTS	
24-05-5700		SCBA Stge, Psngr, Fwd Wheelwell, 8" Round	1
24-05-2450		|-- SCBA Door, Cast Products, Lever Latch	1
24-05-2500		|-- SCBA Tube, Plastic, w/ Mat	1
24-19-0415		|-- Lever Latch, Textured Chrome Raised Button, Non-locking, Each	1
24-05-7000		|-- SCBA Cylinder Tether, 1" Nylon	1
24-05-6305	>	SCBA Compt, Psngr, Rwd Whlwell, Full Pack Storage	1
24-05-2465		|-- SCBA Door, Painted Stainless Steel	1
24-19-0410		|-- Lever Latch, Black, Non-Locking, Round Button, Each	1
		RUB RAILS	
24-07-6330		Rub Rails, Alum Chan, 2" x 1.5", Ribbed	1
81-15-1522		|-- Reflective Color, White	1
		FRONT AND REAR BODY SURFACE -- SCUFF PLATES	
24-08-1000		*** Front of Body ***	1
24-08-1100		Protective Surface, Alum T/P, Entire Front	1
24-08-2100		Protective Front Corner Trim, S/S	1
24-08-2999			1
24-08-3000		*** Rear of Body ***	1
24-08-3400		Rear Body Panels, Painted	1

PART NO	S	DESCRIPTION	QTY
24-08-4200		Protective Rear Corner Trim, S/S	1
24-08-4999			1
24-08-5000		*** Top of Body ***	1
24-08-5100		Protective Surfaces, Alum T/P, Top of Side Cmpts	1
24-08-7999			1
24-08-8000		*** Anodized Aluminum Drip Rails ***	1
24-08-8100		Drip Rails	1
		HINGED DOORS -- ALUMINUM PAINTED	
24-12-1100		Doors, Hinged, Alum Painted, Single, Base Specs	1
24-18-2310		|-- D-ring, Polished	1
24-18-2420		|-- Door Locks, D-Ring, Hinged, 1250 Key Type, Each	1
81-20-2505		|-- Stripe, Cmpt Door, Reflective, Each, Color Options	1
81-15-1521		|-- Reflective Color, Red/Wht DOT	1
24-12-1199			1
24-12-1200		Doors, Hinged, Alum Painted, Double-Door	5
24-18-2310		|-- D-ring, Polished	5
24-18-2420		|-- Door Locks, D-Ring, Hinged, 1250 Key Type, Each	5
81-20-2505		|-- Stripe, Cmpt Door, Reflective, Each, Color Options	10
81-15-1521		|-- Reflective Color, Red/Wht DOT	10
		========== REAR STEPS ==========	
24-20-3000		*** Rear Steps - Extruded Aluminum DIAMOND BACK ***	1
24-20-3165		Rear Step, 3 Piece w/step, Extruded Alum, Diamond Back, M34	1
		AUXILIARY STEPS	
24-21-3190		Steps, Fixed CPI, Drivers, Rear	3
24-21-3230		Steps, Fixed CPI, Psngr, Rear	3
		HANDRAILS AND GRAB HANDLES	
24-26-0025	<	Grab Handle Package, Targee/Summit/Cal-Fire	1
		Two (2) 34.25" vertical grab handles one on each tail panel just inset from DOT lights.	
		One (1) 18" vertical grab handle mounted on the passenger side pump house.	
		One (1) 14" horizontal grab handle mounted on the rear of the center dunnage box	
		One (1) 63" horizontal grab handle mounted just below the hosebed	
		Two (2) 19" horizontal grab handles one mounted on each hosebed door rear facing	
		One (1) 13" horizontal grab handle mounted on the drivers side of pump house	
24-26-0249			1
24-26-0250		NO--Additional Grab Handles	1
		HOSE BED CONSTRUCTION	
24-30-2210		Hose Bed, Aluminum, Spec, Wildland, (Model 34 2021)	1
		HOSEBED DIVIDERS	
24-32-1300		Hose Bed Divider, Adjustable, .250" Aluminum (1)	1
		HOSE STORAGE	
24-32-3525		Hose Storage, I-Zone Brckts, Rear (2) , Model 34	1
		HOSEBED GRATING	
24-32-4115		Hosebed, Grating, Alum, Wildland (Model 34 2021)	1
		HOSEBED COVERS -- WILDLAND TRUCKS	
24-33-1115		Hosebed Covers, Alum T/P, Dbl Door, Flap, Model 34	1
24-32-7305		|-- Hosebed Rear Flap and Straps, Model 34	1
24-33-5110		|-- Hosebed Flaps, Color, Black	1

PART NO	S	DESCRIPTION	QTY
24-33-5315		|-- Hosebed Doors, Embossed ALDP, Model 34	1
41-35-1835		|-- Hosebed Lights, Tecniq E10, LED	4
41-46-2005		|-- Door Open Sensor, Compt Door	1
		========== WATER TANK SPECIFICATIONS ==========	
28-01-1501		Water Tank Capacity, 500 Gallons, Poly (Model 34)	1
00-68-1101		|-- Warranty, Water Tank, Poly, Lifetime	1
28-02-1100		|-- Water Tank Shape, Rectangular	1
28-07-1305		|-- Sump, Water Tank, Model 34	1
28-10-1100		|-- Water Tank Drain, 3"	1
29-05-1205		|-- Foam Tank Capacity, 20 Gallons, Poly, Model 34, Seperate	1
00-68-2110		|-- Warranty, Foam Tank, Poly, Lifetime	1
29-40-1100		|-- Foam Tank, Fill and Vent, Class A	1
29-50-1050		|-- Foam Tank Drain and Valve, 3/4"	1
		DIRECT TANK FILL CONNECTIONS	
28-31-1000		*** Direct Tank Quarter-Turn Fill Valve - Rear ***	1
28-31-1100		Direct Tank Fill Valve, Drivers, Rear, 2.5", w/Strainer and Plug	1
10-15-1120		|-- Valves, Akron, Brass, 8825 Series (Uses R1,TS or TSC Handles Only)	1
10-20-0060		|-- Valve, Direct, Local Control, Akron TSC	1
11-07-1100		|-- Plug, 2.5", Chrome Brass, Rocker Lug	1
12-21-3700		|-- Elbow, 2.5"F x 2.5"M, Chrome Brass, Direct Tank Fill	1
		BACK PACK FILL PROVISIONS	
28-32-3155		Back Pack Fill, GHT x 1/2"NPT, w/vlv, Pump Panel, M34	1
		========== 12 VOLT ELECTRICAL ==========	
40-05-1000		*** 12 Volt Base Electrical Wiring ***	1
40-05-1150		Electrical, 12V, Base Wiring Specs, Wildland	1
40-05-4600		|-- Electrical Harness, Wildland	1
		CONSOLES AND SWITCH PANELS	
40-10-1160	>	Rear Console, Cab, Navistar HV, AP-00-018699	1
40-10-1700		|-- Cup Holder, Each	2
40-10-9900		|-- Console Finish	1
80-21-2320		|-- Multi-Spec, Color, Black/Black	1
42-21-1110		|-- 12V Power Outlet, 20 Amp, Console	2
42-21-3310		|-- 12 Volt Pwr Source, Switched Battery	2
42-21-1555		|-- USB/ USB-C, Charging Port	2
42-21-3310		|-- 12 Volt Pwr Source, Switched Battery	2
40-10-1249			1
40-10-1251	>	Electrical Console, Cab, BME, Navistar HV, AP-00-017855	1
40-10-1505		|-- NO Mapbox	1
40-10-1700		|-- Cup Holder, Each	4
40-10-9900		|-- Console Finish	1
80-21-2320		|-- Multi-Spec, Color, Black/Black	1
42-21-1110		|-- 12V Power Outlet, 20 Amp, Console	2
42-21-3310		|-- 12 Volt Pwr Source, Switched Battery	2
42-21-1555		|-- USB/ USB-C, Charging Port	2
42-21-3310		|-- 12 Volt Pwr Source, Switched Battery	2
		BATTERY EQUIPMENT INSTALLATION	
40-15-1000		*** Battery And Ignition Switches ***	1
40-15-1150		Battery Switch, Master Disconnect, Chassis Supplied	1
40-15-2999			1
40-15-3000		*** Battery Charger Systems ***	1
40-15-4601		Battery Charger, Blue Sea Systems, P12, 12V, 25A, #7531	1
40-15-4605		|-- Battery Charger, Blue Sea Systems, Sure Eject, 20A, 7851	1
40-15-4606		|-- Battery Charger, Sure Eject, Cover, Yellow 7820	1

PART NO	S	DESCRIPTION	QTY
40-15-6299			1
40-15-6300		*** Inverters ***	1
40-15-6395		NO-- Power Inverter	1
		VEHICLE IDENTIFICATION LIGHTS	
40-25-1355		Clearance Lgts, LED, DOT, Wildland, Model 34	1
		LICENSE PLATE MOUNTING	
40-30-1310		License Plate Mounting, Tecniq LED, L110, Rear	1
		STOP - TAIL - TURN - BACK-UP INDIVIDUAL LIGHTS	
40-66-0010		Stop, Tail, Turn Lights, Whelen M Series, Quad, Package	1
40-32-1000		|-- *** Tail and Stop Lights ***	1
40-32-5150		|-- Stop/Tail Lgts, Whelen #M62BTT, LED, 4" x 6",(2)	1
40-32-9999		|--	1
40-33-1000		|-- *** Turn Signals ***	1
40-33-5160		|-- Turn Signals, Whelen M62T, LED, LED, (2)	1
40-34-9999		|--	1
40-35-1000		|-- *** Back Up Lights ***	1
40-35-5150		|-- Back up Lights, Whelen M62BU, LED, 4" x 6", (2)	1
40-55-1999		|--	1
40-55-2000		|-- *** Tail Light Mountings and Bezels -- 4 Lights ***	1
40-55-2300		|-- Tail Light Bezels, Whelen #M6FCV4, (4) lts, 4" x 6" (2)	1
45-75-9999		|--	1
45-80-1000		|-- *** Lower Rear Warning Lights ***	1
45-80-1810		|-- Warning Lights, Whelen, M6R, Lower Rear, (2), (No Bezel)	1
		CAB INTERIOR LIGHTING	
41-05-0005		NO--Cab Interior Lighting	1
		MAP LIGHTS	
41-15-1605		Map Light, Havis Shields #C-MAP-T-LED, 12" LED (Model 34)	1
		HAND HELD FLASHLIGHTS	
		BROW LIGHTING	
		UNDERBODY AND GROUND LIGHTS	
41-25-1000		*** Bumper Ground Lights ***	1
41-25-1305		Ground Lights, Front Bumper, Tecniq E10, LED	2
41-25-5360		|-- Ground Lights, Activation, Park Brake/Park Signal	2
41-25-1999			1
41-25-2000		*** Cab Ground Lights ***	1
41-25-2510		Ground Lights, Cab, 4 Door, Tecniq E10, LED	4
41-25-5360		|-- Ground Lights, Activation, Park Brake/Park Signal	4
41-25-2999			1
41-25-3000		*** Body Ground Lights ***	1
41-25-3210		Ground Lights, Pump Panel, Tecniq E10, LED	2
41-25-5360		|-- Ground Lights, Activation, Park Brake/Park Signal	2
41-25-3499			1
41-25-3850		NO--Ground Lights Side Facing Behind the Rear Wheels	1
41-25-3899			1
41-25-5255		Ground Lights, Under Rear Step, Tecniq E10, LED	2
41-25-5360		|-- Ground Lights, Activation, Park Brake/Park Signal	2
		SCENE LIGHTS	

PART NO	S	DESCRIPTION	QTY
41-39-4015		Summit Scene Light Package	1
41-36-5300	>	|-- Scene Light, Whelen, PCPSM1C, LED	3
41-40-6401		|-- Scene Light Switching, Cab Console, Individual (Left Right Rear)	3
41-40-6405		|-- Scene Light Switching, Pump Panel, Individual, (Left Right Rear)	1
41-40-8704		|-- Scene Light Location, Rear, Center Rear Dunnage	1
41-40-8705		|-- Scene Light Location, Drivers/Psngr Side, Center of Body	1
41-36-5280	< >	|-- Scene Light, Whelen, Pioneer Micro, MPBB	2
		mounted under rear middle steps	
41-40-6401		|-- Scene Light Switching, Cab Console, Individual (Left Right Rear)	2
41-36-5510		|-- Scene Lights, Whelen, Pioneer Summit, 30" S30MB, Front Bumper	1
41-40-6425		|-- Scene Light Switching, Cab Console, Individual (Front)	1
		DOOR AJAR WARNING SYSTEMS	
41-46-2000		*** Door Open Light and Alarm ***	1
41-46-2125		Door Open Light and Buzzer, Zones	1
		RADIOS AND ANTENNAS	
42-05-9999			1
42-10-3905		Radio Pre-Wire	1
42-10-1006		NO--Radio Installation.	1
42-10-1007		NO--Handheld Radio Charger Installation	1
42-10-2015		Radio Antenna, Installation	4
42-10-3999			1
		BACK UP ALARMS	
43-10-1110		Back Up Alarm, Self Adjusting	1
		CAMERAS	
43-10-2240		Back Up Camera, FRC, TrueSight, 130°	1
43-10-2699			1
		HEADLIGHT FLASHERS OR WIG-WAG	
43-15-1760		Headlight, Flasher, Wig-Wag	1
43-15-2030		|-- Wig Wag, Activation, Siren Controller, Slide Switch Pos #3	1
		ELECTRONIC SIRENS AND SPEAKERS	
44-05-0000		*** Electronic Siren/PA Systems ***	1
44-05-1288		Siren, Electronic, Whelen, CenCom Core C399, T/A	1
44-05-1302		|-- Whelen, Core, Control Head, CCTL6	1
44-05-1322		|-- Whelen, Core, WeCanX, Traffic Advisor Module, CTA	1
44-05-9999			1
44-09-1000		*** Siren Speakers ***	1
44-09-1500		Speaker, Whelen, #SA315P, 100 Watt, nylon housing	1
		MECHANICAL SIRENS	
44-15-0005		NO--Mechnical Siren	1
		ZONE A -- UPPER CAB LIGHTBARS	
45-05-0035	< >	Lightbar, Whelen Cenator, WeCanX, Solo, 60"	1
		The lightbar shall feature the following layout.	
		4 (four) single color corner modules	
		6 (five) forward facing single color Con3 LED modules	
		2 (two) forward facing white Con3 LED modules	
		LOWER ZONE A -- FRONT LOWER	

PART NO	S		DESCRIPTION	QTY
45-40-1510			Warning Lights, Whelen, M6R, Lwr Front, (2),LED	1
41-40-7530			|-- Bezels, Whelen, M6, Chrome Plastic	2
45-40-9994				1
			ZONE B AND D -- LOWER CAB INTERSECTION LIGHTS	
45-45-1510			Warning Lights, Whelen M6R, Intersection, (2),LED	1
41-40-7530			|-- Bezels, Whelen, M6, Chrome Plastic	2
45-45-9994				1
			ZONE B AND D -- LOWER MID-BODY SIDE WARNING LIGHTS	
45-55-1510			Warning Lights, Whelen, M6R, Lwr Mid Body, (2), LED	1
41-40-7530			|-- Bezels, Whelen, M6, Chrome Plastic	2
			ZONE B AND D -- UPPER FRONT BODY WARNING LIGHTS	
45-65-1000			NO--Upper Side Front Body Warning Lights Zone B & D	1
			ZONE B AND D -- UPPER REAR CORNER BODY WARNING LIGHTS	
45-70-1510			Warning Lights, Whelen, M6R, Upper Side Rear, (2), LED	1
41-40-7530			|-- Bezels, Whelen, M6, Chrome Plastic	2
			ZONE C -- UPPER REAR WARNING LIGHTS	
45-75-1510			Warning Lights, Whelen, M6R, Upper Rear, (2), LED	1
41-40-7530			|-- Bezels, Whelen, M6, Chrome Plastic	2
45-75-9994				1
			TRAFFIC ARROWS	
46-05-1860			Traffic Advisor, Whelen, TAZ86, LED, Eight Lamp	1
			========== WINCH INSTALLATIONS ==========	
60-00-0005			NO- Mounted Winch Provided	1
			========== PAINTING ==========	
80-00-0001	XS	< >	Paint Codes - Freightliner L2978EB White	1
			Freightliner L2978EB White	
			CAB PAINTING	
			EXTERIOR PAINTING ---- BODY	
80-10-0002			*** Wildland -- Exterior Body Painting ***	1
80-10-1000		>	Paint, Wildland, 60-84" CA Body, Single Axle, 1 Color	1
			INTERIOR PAINTING --- COMPARTMENTS	
80-21-2305			Cmpt Pntg, Multispec, (6) Compts.	1
80-21-2326			|-- Multi-Spec, Color, Gray Stone	1
			MISCELLANEOUS PAINTING AND BODY FINISHING OPTIONS	
80-60-0000			*** Touch Up Paint ***	1
80-60-1000			Body Paint, Touch Up, Pint One Color	1
80-61-9999				1
80-65-0000			*** Miscellaneous Painting ***	1
80-65-1200			Painting, Valves, To Match Truck	1

PART NO	S	DESCRIPTION	QTY
		====== BLACKOUT PACKAGE======	
		REFLECTIVE STRIPING	
81-20-7075	< >	Striping Package, Gold	1
		Rear Chevron - Diamond Grade - Side Panels	
		6" stripe - Blue reflective - Straight	
		Identifiers and door decals	
		LADDERS	
90-03-7350		Ladder, Extension, Duo-Safety, 20' Alum, 3 Section	1
		SUCTION HOSE	
90-07-0005		NO-Suction Hose Supplied	1
90-07-4999			1
90-07-5000		*** Suction Strainers ***	1
90-07-5005		NO--Strainer	1
		WHEEL CHOCKS	
90-09-1710		Wheel Chocks, Worden, Alum, w/Handle, Large, HWC-7WH (2)	1
		FIRE EXTINGUISHERS	
90-10-1110		Extinguisher, Dry Chem, 5#, 2A:10B:C, w/mntg	1
		-------- **MISCELLANEOUS EQUIPMENT** --------	
90-40-4100		Jack, 12T, Hyd bottle	1
90-40-4500		Lug Wrench and Breaker Bar	1
		NFPA AND DOT SAFETY AND HIGHWAY EQUIPMENT	
90-42-1200		Reflector Set, Triangular D.O.T.	1

Texas A&M Forest Service

Siddons-Martin Emergency Group

FIRE TRUCKS

TEXAS A&M FOREST SERVICE
MODEL 34 "SUMMIT"

DETERMINATION OF APPARATUS WEIGHT

BME Fire Trucks, LLC. shall submit estimated "in-service" weight analysis required by applicable NFPA standards. This Excel computer weight analysis shall break down all major components of the apparatus and shall show the impact on percentage-of-load on the front and rear axles, total weight, and weight on each tire set.

The analysis shall evenly distribute the NFPA required minimum payload allowance or estimated equipment payload as provided by the purchaser into the specified compartments. The allowance for personnel, hose loads, water and foam fluids, and required NFPA equipment shall be outlined individually in the analysis and placed on the apparatus in its specific intended position.

CENTER-OF-GRAVITY ANALYSIS

BME Fire Trucks, LLC. shall perform an estimated center of gravity calculation as required by the applicable section of NFPA standards. This calculation shall include tilt angles, the estimated right to left load distribution, and load on each axle, including all specified major components.

LOW VOLTAGE TEST REQUIRMENTS

The fire apparatus low voltage electrical system shall be tested as required by this section and the test results shall be certified by the apparatus manufacturer. The certification shall be delivered to the purchaser with the documentation for the completed apparatus. The tests shall be performed when the air temperature is between 0 degrees Fahrenheit and 110 degrees Fahrenheit.

TEST SEQUENCE

The three tests defined below shall be performed in the order in which they appear. Before each test, the chassis batteries shall be fully charged until the voltage stabilizes at the voltage regulator set point and the lowest charge current is maintained for 10 minutes. The failure of any of these tests shall require a repeat of the test sequence.

RESERVE CAPACITY TEST

The chassis engine shall be started and kept running until the chassis engine and engine compartment temperatures are stabilized at normal operating temperatures and the chassis battery system is fully charged. The chassis engine shall be shut off and the minimum continuous electrical load shall be applied for 10 minutes. All electrical loads shall be turned off prior to attempting to restart the chassis engine. The chassis battery system shall then be capable of restarting the chassis engine. The failure to restart the chassis engine shall be considered a failure of this test.

ALTERNATOR PERFORMANCE TEST AT IDLE

The minimum continuous electrical load shall be applied with the chassis engine running at idle speed. The chassis engine temperature shall be stabilized at normal operating temperature. The chassis battery system shall be tested to detect the presence of a chassis battery current discharge. The detection of chassis battery current discharge shall be considered a failure of this test.

ALTERNATOR PERFORMANCE TEST AT FULL LOAD

The total continuous electrical load shall be applied with the chassis engine running up to the engine manufacturer's governed speed. The test duration shall be a minimum of two hours. The activation of the electrical system load management system shall be permitted during this test. The activation of an alarm due to excessive chassis battery discharge, as detected by the system required by NFPA (current edition), or an electrical system voltage of less than 11.8 volts direct current for a 12 volt direct current nominal system, for more than 120 seconds, shall be considered a failure of this test.

LOW VOLTAGE ALARM TEST

Following the completion of the tests described above, the chassis engine shall be turned off. With the chassis engine turned off, the total continuous electrical load shall be applied and shall continue to be applied until the excessive battery discharge alarm activates. The chassis battery voltage shall be measured at the battery terminals.

The test shall be considered to be a failure if the low voltage alarm has not yet sounded 140 seconds after the voltage drops to 11.70 volts direct current for a 12 volt direct current nominal system. The chassis battery system shall then be able to restart the chassis engine. The failure of the chassis battery system to restart the chassis engine shall be considered a failure of this test.

The completed fire apparatus shall undergo a complete 12 volt electrical load and performance testing per applicable sections of NFPA standards with inspection and test sheets included in delivery documentation.

DOCUMENTATION

The apparatus manufacturer shall provide the results of the low-voltage electrical system performance test, certified in writing, with the documentation provided to the purchaser at the time of delivery of the completed apparatus.

The test results shall consist of the following documents:

(1) Documentation of the electrical system performance tests.
(2) A written electrical load analysis, including the following:

- (a) The nameplate rating of the alternator.
- (b) The alternator rating under the conditions specified in NFPA 1906 (current edition).
- (c) Each of the component loads specified that make up the minimum continuous electrical load.
- (d) Additional electrical loads that, when added to the minimum continuous electrical load, determine the total continuous electrical load.
- (e) Each individual intermittent electrical load.

TEST RESULTS

BME Fire Trucks LLC. shall provide results of the apparatus testing and shall certify the following:

The weight of the completed apparatus, when loaded to its estimated in service weight, does not exceed the GVWR and GAWR of the chassis.

The complete unit, when loaded to its estimated in service weight, meets the weight distribution and vehicle stability requirements, as defined in the current NFPA guidelines.

The unit meets all required federal standards pertaining to the manufacturer and completion of the apparatus and a label tag has been affixed to the apparatus by the manufacturer stating same.

BME Fire Trucks LLC. shall provide all testing results, including engine, speed, acceleration, road ability, braking, and auxiliary braking to the Purchaser at the time of delivery.

DELIVERY REQUIREMENTS

The bidder shall not be responsible for delays in delivery due to strikes, acts of God, failure of suppliers to deliver, chassis shortage and other reasons beyond the reasonable control of the builder. Should BME Fire Trucks, LLC. be unable to comply with the proposed delivery date, we shall immediately contact the purchaser regarding delay information and actions to be taken by the company.

This vehicle shall be F.O.B. the BME Fire Trucks facility in Boise Idaho. Dealer shall be responsible for arrangement of delivery from factory.

GENERAL WARRANTY PROVISIONS

All materials and workmanship herein specified, including all equipment furnished, shall be guaranteed for a period of one (1) year after the acceptance date of the apparatus, unless otherwise noted, with the exception of any normal maintenance services or adjustments which shall be required. Under this warranty, BME Fire Trucks, LLC. shall be responsible for the costs of repairs to the apparatus that have been caused by defective workmanship or materials during this period.
This warranty shall not apply to the following:

- Any component parts or trade accessories such as chassis, engines, tires, pumps, valves, signaling devices, batteries, electric lights, bulbs, alternators, and all other installed equipment and accessories, in

as much as they are usually warranted separately by their respective manufacturers, or are subject to normal wear and tear.

- Failures resulting from the apparatus being operated in a manner or for a purpose not recommended by the apparatus manufacturer.
- Loss of time or use of the apparatus, inconvenience or other incidental expenses.
- Any apparatus which has been repaired or altered without written consent or outside of the apparatus manufacturer's factory and or authorized service center in any way that affects its stability, or which has been subject to misuse, negligence, or accident.
- Delivery of the apparatus to repair site.

DISCLAIMER

NO WARRANTIES ARE GIVEN BEYOND THOSE DESCRIBED HEREIN. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. THE COMPANY SPECIFICALLY DISCLAIMS WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OTHER REPRESENTATIONS TO THE USER/PURCHASER AND ALL OTHER OBLIGATIONS OR LIABILITIES. FURTHER, THE COMPANY EXCLUDES LIABILITY FOR CONSEQUENTIAL AND INCIDENTAL DAMAGES, ON THE PART OF THE COMPANY OR SELLER. No person is authorized to give any other warranties or to assume any liabilities on the Company’s behalf unless made or assumed in writing by the seller; and no other person is authorized to give any warranties or to assume any liabilities on the seller’s behalf unless made or assumed in writing by the seller.

OBTAINING SERVICE

Return the vehicle to any BME Fire Trucks, LLC. dealer/authorized service center; Return the vehicle to BME Fire Trucks, LLC. or contact BME Fire Trucks, LLC.. BME Fire Trucks, LLC. shall be solely responsible for determining the extent of repair under the terms of the warranty. Transportation costs shall be the responsibility of the purchaser.

MATERIAL AND WORKMANSHIP

All equipment provided shall be guaranteed to be new and of current manufacture, and unless specified otherwise, shall meet all requirements of these specifications and prevailing NFPA documents and be in condition at time of delivery for use as specified for this type of apparatus.

All workmanship shall be of the highest quality and accomplished in a professional manner so as to insure a functional apparatus with a high quality aesthetic appearance.

The construction shall be rugged and ample safety factors shall be provided to carry the loads specified to meet both on and off road requirements.

The apparatus shall be designed and the equipment mounted with due consideration to the distribution of load between the front and rear axles, so all specified equipment, with a full complement of personnel, can be carried without damage to the apparatus.

BODY AND STRUCTURAL WARRANTY

BME Fire Trucks, LLC. shall warrant each new apparatus body, if used in a normal and reasonable manner, against structural defects caused by defects in material, design or workmanship for a period of ten (10) years, covering parts & labor to the original purchaser which shall start on day of acceptance.

This warranty shall not apply to:

- Normal maintenance services or adjustments
- To any vehicle which will have been repaired or altered outside of our factory in any way so as, in the judgment of BME Fire Trucks, LLC., to affect it's stability, nor which has been subject to misuse, negligence, or accident, nor to any vehicle made by us which will have been operated to a speed exceeding the factory rated speed, or loaded beyond the factory rated load capacity.
- Commercial chassis and associated equipment furnished with chassis, signaling devices, generators, batteries, or other trade accessories as they are usually warranted separately by their respective manufacturers.
- Shipping costs of parts or apparatus for purposes of repair or replacement of parts. This warranty is in lieu of all other warranties, expressed or implied. All other representations as to the original purchaser and all other obligations or liabilities, including for incidental or consequential damage on the company's behalf unless made in writing by the company.

DARLEY FIRE PUMP WARRANTY

A three (3) year warranty on the Darley fire pump shall be provided. The provisions of this warranty shall be described in the completed apparatus documentation.

PLUMBING WARRANTY

The stainless steel fire pump plumbing shall carry a ten (10) year parts and labor warranty against defects in workmanship and perforation corrosion.

AKRON VALVE WARRANTY

The Akron valves shall carry a five (5) year manufacturer's warranty. Provisions of this warranty shall be provided with the completed apparatus documentation.

WATER TANK WARRANTY

The polypropylene water tank that is specified to be supplied with this apparatus shall be warranted by the water tank manufacturer for a "lifetime" period from the date that the apparatus is put into service. The tank manufacturer shall repair, at no cost to the purchaser, any problems caused by defective materials and/or workmanship. The warranty shall cover the reasonable costs of removing the water tank from the apparatus and reinstalling it after the completion of the covered warranty repairs, but shall not cover any liability for the loss of service or downtime costs of the apparatus.

FOAM TANK WARRANTY

The foam tank shall carry a "lifetime" warranty against defects in workmanship and perforation corrosion. The provisions of this warranty shall be provided in the delivery documentation. The tank manufacturer shall repair, at no cost to the purchaser, any problems caused by defective materials and/or workmanship. The warranty shall cover the reasonable costs of removing the water tank from the apparatus and reinstalling it after the completion of the covered warranty repairs, but shall not cover any liability for the loss of service or downtime costs of the apparatus.

PAINT WARRANTY

BME Fire Trucks, LLC. shall provide a seven (7) year paint warranty which shall cover peeling and/or de-lamination of the top coat and other layers of paint, cracking or checking, loss of gloss caused by cracking, checking or chalking, and any paint failure caused by defective paint materials covered by the paint manufacturer's material warranty.

CHASSIS WARRANTY

The specified chassis shall be provided with the chassis manufacturer's warranty. The exact provisions of this warranty shall be supplied with the completed apparatus documentation.

APPARATUS OPERATION MANUAL(S)

BME Fire Trucks, LLC. shall provide (2) electronic apparatus operational manual(s) on a USB thumb drive.

CHASSIS SPECIFICATIONS

Base Chassis, Model HV507 SFA with 193.00 Wheelbase, 74.10 CA, and 65.00 Axle to Frame.

AXLE CONFIGURATION {Navistar} 4x4

BUMPER, FRONT Swept Back 15-Degrees, Steel, for use with Front Frame Extensions, Heavy Duty

AXLE, FRONT DRIVING {Meritor MX-12-120 EVO} Single Reduction, 12,000-lb Capacity, with Hub Piloted Wheel Mounting

SUSPENSION, FRONT, SPRING Parabolic Taper Leaf, Shackle Type, 12,000-lb Capacity, with Shock Absorbers

BRAKE SYSTEM, AIR Dual System for Straight Truck Applications

STEERING WHEEL 4-Spoke; 18" Dia., Black

STEERING GEAR Power

EXHAUST SYSTEM Horizontal Aftertreatment System, Frame Mounted Right Side Under Cab, for Single Short Horizontal Tail Pipe, Frame Mounted Right Side Back of Cab, for All-Wheel Drive

ENGINE COMPRESSION BRAKE {Jacobs} for Cummins ISL/L9 Engines; with Selector Switch and On/Off Switch

ELECTRICAL SYSTEM 12-Volt, Standard Equipment

BATTERY SYSTEM {Fleetrite} Maintenance-Free, (3) 12-Volt 2850CCA Total, Top Threaded Stud

SPEAKERS (2) 6.5" Dual Cone Mounted in Both Doors, (2) 5.25" Dual Cone Mounted in Both B-Pillars

RADIO AM/FM

CLEARANCE/MARKER LIGHTS (5) {Truck Lite} Amber LED Lights, Flush Mounted on Cab or Sunshade

STARTING MOTOR 12 Volt

ALARM, PARKING BRAKE Electric Horn Sounds in Repetitive Manner When Vehicle Park Brake is "NOT" Set, with Ignition "OFF" and any Door Opened

TURN SIGNALS, FRONT Includes LED Side Turn Lights Mounted on Fender

HEADLIGHTS Halogen, with Daytime Running Lights

GRILLE Stationary

FRONT END Tilting, Fiberglass, with Three Piece Construction, for WorkStar/HV

GRILLE EMBER SCREEN Mounted to Grille and Cowl Tray to Keep Hot Embers out of Engine and HVAC Air Intake System

PAINT SCHEMATIC, PT-1 Single Color, Design 100

PAINT CLASS Premium Color

ANTI-FREEZE Red, Extended Life Coolant; To -40 Degrees F/ -40 Degrees C, Freeze Protection

ENGINE, DIESEL {Cummins L9 350} EPA 2021, 350HP @ 2200 RPM, 1050 lb-ft Torque @ 1200 RPM, 2200 RPM Governed Speed, 350 Peak HP (Max)

FAN DRIVE {Horton Drivemaster} Two-Speed Type, Direct Drive, with Residual Torque Device for Disengaged Fan Speed

FAN Nylon

RADIATOR Aluminum, Cross Flow, Front to Back System, 1228 SqIn, with 1167 SqIn Charge Air Cooler, Includes In-Tank Oil Cooler

TRANSMISSION, AUTOMATIC {Allison 3000 EVS} 6th Generation Controls, Close Ratio, 6-Speed with Double Overdrive, with PTO Provision, Less Retarder, Includes Oil Level Sensor

TRANSFER CASE 2-Speed

AXLE, REAR, SINGLE {Meritor RS-26-185} Single Reduction, 26,000-lb Capacity, R Wheel Ends . Gear Ratio: 5.86

SUSPENSION, REAR, SINGLE 31,000-lb Capacity, Vari-Rate Springs, with 4500-lb Capacity Auxiliary Multileaf Springs

DEF TANK 9.5 US Gal (36L) Capacity, Frame Mounted Outside Left Rail, Under Cab

FUEL TANK Top Draw, Non-Polished Aluminum, 26" Dia, 70 US Gal (265L), Mounted Left Side, Under Cab

CAB Conventional 6-Man Crew Cab

AIR CONDITIONER with Integral Heater and Defroster

SEAT, DRIVER, Air Suspension, High Back

SEAT, PASSENGER, Air Suspension, High Back

C GRAB HANDLE, EXTERIOR (2) Towel Bar Type, with Anti-Slip Rubber Inserts, for Cab Entry Mounted Left and Right Side at B-Pillar

GRAB HANDLE, ADDITIONAL EXT (2) Towel Bar Type, with Anti-Slip Rubber Inserts, Mounted Left and Right Side, Rear of Rear Doors, for Crew Cab

SEAT, REAR {National} BENCH; Full Width; Vinyl, with Fixed Back and Two Integral Outboard Headrests

MIRRORS (2) C-Loop, Heads and Arms, Convex Mirrors

SEAT BELT All Red; 4 to 6

CONSOLE, OVERHEAD Molded Plastic with Dual Storage Pockets, Retainer Nets and CB Radio Pocket; Located Above Driver and Passenger

DOME LIGHT, CAB Door Activated and Push On-Off at Light Lens, Timed Theater Dimming, Integral to Overhead Console, Center Mounted

CAB REAR SUSPENSION Air Bag Type

WHEELS, FRONT DISC; 22.5x8.25 Rims, Standard Polish Aluminum

WHEELS, REAR DUAL DISC; 22.5x8.25 Rims, Standard Polish Aluminum

(2) TIRE, FRONT 12R22.5 Load Range H

(4) TIRE, REAR 12R22.5 Load Range H

{Bendix antilock Brake System} 4-Channel (4 Sensor/4 Modulator) Electronic Stability Program, with Automatic Traction Control-

CAB SEATING AND WEIGHT ALLOWANCE

A warning label shall be installed in the cab to indicate seating positions.

LABELS, STANDARD PACKAGE SET

A standard set of labels shall be provided and installed on the inside of chassis cab area. The labels shall contain the required information based on the applicable components for the apparatus.

DATA PLAQUE

A data plaque shall be provided and installed on the inside of the cab The data plaque shall contain the required information based on the applicable components for the apparatus:

- Engine oil
- Engine coolant
- Chassis transmission fluid
- Drive axle lubricant
- Power steering fluid
- Pump, generator, or other component lubrications
- Other NFPA applicable fluid levels or data as required
- Paint manufacturer, type, and color number
- Tire Speed Ratings

DATA PLAQUE

A data plaque shall be provided and installed. The plaque shall contain the following information.

- Pump make and model
- GPM capacity rating
- Truck serial and production number
- Pump performance (specific GPMs at rated pressures with engine RPM)
- Governed engine RPM
- Pump gear ratio

WARNING LABEL -- NO RIDING ON REAR

A warning label shall be provided and installed in the rear step area of the apparatus that states the following:

"WARNING: DO NOT RIDE ON REAR STEP WHILE VEHICLE IS IN MOTION. DEATH OR SERIOUS INJURY MAY RESULT

WARNING LABEL -- OCCUPANT SEATED AND BELTED

A warning label that complies with FAMA07 shall be provided and installed in a location visible to all occupants of the cab that states the following:

Label shall read "Crash hazard occupants must be seated and belted when vehicle is in motion. Use only OEM approved belts. Unbelted occupants are at greater risk of injury or death in a crash."

WARNING LABEL -- SIREN NOISE

A warning label that complies with FAMA42 shall be provided and installed inside the driver's cab door that states the following:

Label shall read, "Sirens produce loud sounds that may damage hearing. Roll up windows. Wear hearing protection. Use only for emergency response. Avoid exposure to siren sound outside of vehicle.

WARNING LABEL -- HELMET WORN IN CAB

A warning label that complies with FAMA43 shall be provided and installed in a location visible to all occupants of the cab that states the following:

The label shall read, "Cash Hazard. Do not wear helmet while seated unless necessary during suppression operations. Serious head or neck injury may result from helmet use in cab. Failure to comply may injure or kill.

The specified off set reciver hitch shall have a warning label located visibly near the hitch that states "NOT FOR TOWING".

The specified off set reciver hitch shall have a warning label located visibly near the hitch that states "NOT FOR TOWING".

AIR FILTER EMBER PROTECTION SCREEN WARNING LABEL

A warning label shall be provided and installed in the apparatus cab interior that states the following:

"THIS VEHICLE HAS AN AIR INTAKE EMBER SCREEN WHICH REQUIRES PERIODIC INSPECTION & CLEANING"

FRESH AIR EMBER SEPARATOR WARNING LABEL

A warning label shall be provided and installed in the apparatus cab interior that states the following:

"THIS APPARATUS IS EQUIPPED WITH A CAB FRESH AIR INTAKE EMBER PROTECTION SCREEN. ROUTINE INSPECTION IS REQUIRED"

MANUFACTURER LOGO

The apparatus shall include a BME logo plaque which shall be affixed at the rear of the apparatus.

FRONT TOW PLATE

A horizontal full frame width, ¾-inch thick steel plate, center pull, front tow eye shall be furnished and installed through or below the front bumper. The tow eye plate shall be triangle shaped extended 6 inches beyond the front bumper with a 3-inch X 4-inch rectangle tow eye.

The tow eye shall be braced and gusseted to prevent frame rail or bumper damage and bolted to the front frame rail web.

The tow plate shall to be sprayed with black durabak.

FRONT RECEIVER

There shall be one 2" receiver hitch on the front of the apparatus. The receiver shall be mounted off set as to prevent towing use.

REAR RECEIVER

There shall be one 2" receiver hitch on the rear of the apparatus. The receiver shall be mounted off set as to prevent towing use.

REAR BUSTLE

A single, frame mounted rear towing eye shall be provided. It shall be manufactured from ¾-inch thick steel plate and bolted between the rear frame rail webs with SAE Grade 8 frame bolts and lock nuts.

The tow eye shall be braced and gusseted to prevent damage to the frame rails, bumper or apparatus body while being towed from various angles. Access to the tow eye shall be below the bumper and designed not to interfere with the required angle of departure. The bustle shall be painted or powder coated job color.

BUMPER PLATFORM

The front bumper extended frame rails shall feature an overlay which shall offer space for mounting components necessary to the apparatus. The bumper extension shall measure approximately sixteen (16) inches from the cab to the front face of the extension.

FRONT FRAME EXTENSION

The front frame rails shall be extended 16” ahead of the cab grill or fender area.

DRIVERS SIDE -- FRONT BUMPER COMPARTMENT

One (1) recessed hose storage compartment shall be installed in the drivers side of the bumper. The compartment shall be constructed of smooth aluminum. The floor of the compartment shall have drain holes provided.

CENTER -- FRONT BUMPER COMPARTMENT

One (1) recessed hose storage compartment shall be installed in the center front bumper. The compartment shall be constructed of smooth aluminum. The floor of the compartment shall have drain holes provided.

PASSENGER SIDE -- FRONT BUMPER COMPARTMENT

One (1) recessed hose storage compartment shall be installed in the passenger side of the bumper. The compartment shall be constructed from smooth aluminum. The floor of the compartment shall have drain holes provided.

BUMPER COMPARTMENT DOOR

An aluminum embossed tread plate door shall be installed on the specified front bumper compartment. The non-skid surface door shall have a stainless steel hinge at the rear, latch, and hold open device installed.

BUMPER COMPARTMENT NYLON HOLD DOWN STRAP

One (1) nylon strap with a buckle shall be installed on the specified front bumper compartment. The nylon strap shall act as a hold down mechanism for the hose in the compartment.

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One (1) nylon strap with a buckle shall be installed on the specified front bumper compartment. The nylon strap shall act as a hold down mechanism for the hose in the compartment.

BUMPER

There shall be an International 15 degree bumper installed on the apparatus.

BUMPER DISCHARGE SWIVEL STOPPER

There shall be a swivel elbow stopper installed just behind the front discharge(s).

BUMPER SIDE WINGS

The bumper shall have steel side wings.

FRONT BUMPER COLOR

The front bumper shall be painted or powder coated job color.

FRONT BUMPER WINGS COLOR

The front bumper wings shall be painted or powder coated job color.

AIR HORN

One (1) Buell brand, Model #1063 15" air horn shall be provided and mounted on the frame rail of the passenger's side frame, behind the bumper.

AIR HORN FOOT SWITCH

One (1) foot switch shall be provided and installed. The foot switch shall be located on the driver's side of the floor and shall activate the air horn system.

AIR HORN PUSH BUTTON SWITCH

One (1) push button switch shall be provided on the pump panel. The switch shall activate the air horn system.

EXHAUST SYSTEM MODIFICATION

The chassis exhaust system shall be modified to exit on the passenger side of the apparatus ahead of the rear wheel.

EXHAUST HEAT WRAP

The exhaust pipe shall be wrapped with heat wrap from the diesel particulate filter to just shy of the end of the tailpipe.

BUMPER BOX PROTECTIVE FLAP

The protective flap shall be a cut down mud flap installed on the rear edge of the front bumper to eliminate debris from being deposited on the top of the front bumper and in the hose boxes.

REAR MUD FLAPS

Mud flaps featuring the BME logo shall be provided and installed behind the rear wheels of the apparatus.

DRIVER'S SIDE UNDER CAB COMPARTMENT

The apparatus shall be equipped with an enclosed stainless steel compartment located under the crew door on the drivers side of the cab. The compartments clear door opening shall measure approximately 32" wide x 12.5" high x 19.25" deep with a hinged aluminum door and a D-ring style latch.

The doors shall be painted job color.

PASSENGER'S SIDE UNDER CAB COMPARTMENT

The apparatus shall be equipped with an enclosed stainless steel compartment located under the crew door on the passenger side of the cab. The compartments clear door opening shall measure approximately 35" wide x 12.5" high x 15.25" deep with double hinged aluminum doors.
The doors shall be painted job color.

SLIDE TRAY

A 250# capacity slide tray shall be installed in the specified under cab compartment.

CAB STEPS

Aggressive, extruded aluminum surfaces shall be installed on each of the cab steps areas.

CAB DOOR REFLECTIVE PANELS

The cab doors shall include reflective trim installed inside each door.

FRONT AIR RIDE SEATS

REAR AIR RIDE SEATS

CAB SEATING

There shall be (2) Legacy air ride seats installed in the cab. The Legacy seats shall have left and right armrest and have a full recline feature.
Seat belt occupancy sensors cannot be used on these seats.

CAB SEATING

There shall be (2) Legacy air ride seats installed in the cab. The Legacy seats shall have left and right armrest and have a full recline feature.
Seat belt occupancy sensors cannot be used on these seats.

The specified seat(s) shall have black duraleather seat material.

The specified seat(s) shall have black duraleather seat material.

AIR HOSE OUTLET

(1) female quick connect air outlet shall be provided and installed at cab step area. The quick connect fitting shall provide connection to a utility air hose and shall be located on the driver's side cab exterior. There shall be a shut off located at the tank.

AIR TANK RELOCATION

The air tanks shall be relocated to the rear of the truck between the frame rails.

BATTERY RELOCATION

The chassis batteries are to be relocated to the passenger side of the chassis, below the rear cab door in a custom made under cab box.

UNDERHOOD LIGHTS

There shall be two (2) Tecniq LED light(s) installed under the hood of the chassis. Lights shall have local switching on the driver side under the hood.

LED HEADLIGHTS REPLACEMENT

The factory halogen headlights shall be replaced with LED headlights. The headlights shall be Truck Lite #27270C 7" LED.

AIR FILTER EMBER PROTECTION SCREEN AND WARNING LABEL

The chassis air intake shall be protected by an ember guard of 18 Mesh, 0.017-inch wire diameter, and a maximum mesh opening of 0.039 inches. The ember guard shall be sized to fit and located at the intake opening. The screen shall be readily accessible for inspection and maintenance.

EMBER SEPARATOR -- FRESH AIR INTAKE TO CAB

The cabin air filter shall be protected by an ember guard with a maximum mesh opening of 0.039 inches.

EMBER SEPARATOR

The final stage manufacturer shall install a stainless steel ember separator within the auxiliary fire pump engine air intake system.

FUEL TANK SKID PLATE

A heavy duty removable skid plate shall be fastened to the bottom side of the fuel tank. The skid plate shall have the front and rear sides turned up to prevent digging into the ground when the apparatus is in off road conditions.

OEM TINTED CAB WINDOWS

The cab windows shall remain as tinted by the OEM chassis manufacturer for UV resistance only, no aftermarket tinting shall be done.

EXTERIOR CAB TRIM

A rubber debris skirt will be installed to prevent debris and embers from entering between the cab and frame. The debris skirt will be attached with a 12 gauge stainless steel trim piece the full length along the lower cab seam below the cab doors. The trim shall be fastened to the body seam with evenly spaced 10/32 stainless steel Phillips head machine screws and nylock nuts.

NOTE: Cab trim skirts are only installed on International HV chassis.

AIR, FUEL, ELECTRICAL LINE PROTECTION

All air lines, fuel lines and electrical harnesses below the chassis frame rails shall be protected with fire resistive sleeves.

FUEL TANK VENTING

The O.E.M fuel tank vent line shall be extended from the fuel tank and vented to the atmosphere. The vent line shall extend vertically from the tank to the bottom of the cab rear window and then bend 180 degrees towards the ground.

TIRE PRESSURE INDICATOR SYSTEM

There shall be a tire pressure indicator at each tire's valve stem on the vehicle that shall indicate if there is insufficient pressure in the specific tire.

PRIMING VALVE

A Waterous model #82507-2T VAP priming valve shall be installed on the apparatus.

FIRE PUMP SPECIFICATIONS

A Darley model PSPH, 1000 GPM PTO driven fire pump shall be installed. The pump shall be mid ship mounted and designed to operate through a PTO shaft from the transmission. The engine, transmission and driveline components shall provide sufficient horsepower and RPM to enable the pump to meet and exceed its rated performance.

The pump shall contain a cored heating jacket feature that can be connected into the vehicle antifreeze system to protect the pump from freezing in cold climates, and to help reject engine heat from engine coolant, providing longer life for the engine.

The pump shaft shall be precision ground stainless steel with long wearing Chromium Oxide hard coating under the packing glands with a hardness level of #RC72. The shaft shall be splined to receive broached impeller hubs, for greater resistance to wear, torsional vibration, and torque imposed by engine, as well as ease of maintenance and repair.

The bearings provided shall be heavy duty, deep groove, radial type ball bearings. Sleeve bearings on any portion of the pump or transmission shall be prohibited due to wear, deflection, and alignment concerns. The bearings shall be protected at all openings from road dirt and water splash with oil seals and water slingers.

The impeller shall be a high strength bronze alloy of mixed flow design, splined to the pump shaft for precision fit, durability, and ease of maintenance. Impeller shall be vacuum cast designed for maximum lift and highest capacity. The seal rings shall be renewable, double labyrinth, wrap around bronze type.

Impeller shaft oil seals shall be constructed to be free from steel components except for the internal lip spring.

The transmission case shall be heavy duty cast iron. A magnetic drain plug shall be provided. Transmission case shall include a dip stick for checking oil level. Transmission case interior shall be powder coated to reduce oil contamination. Transmission case shall be equipped with a removable plate for quick inspection of gears,

shafts, and bearings inside the transmission.

The pump drive shaft shall be precision ground, heat treated alloy steel. Gears shall be helical design, and shall be precision ground for quiet operation and extended life. The gears shall be manufactured from alloy steel and carburized for surface hardness and strength.

Two (2) manuals covering the fire pump transmission and fire pump shall be provided with the apparatus.

PORTABLE PUMP

A Darley 1-1/2AGE 24K portable pump shall be provided on the apparatus. The unit shall have a liquid cooled, 24 HP, Kubota D902 diesel engine equipped with an electric start.

Pump Performance
20 gpm @ 310 psi
140 gpm @ 145 psi
180 gpm @ 80 psi

Diesel Engine
Kubota, D902 Diesel, water-cooled, 24 hp.

Fuel Supply
The engine shall be piped to the chassis fuel system with provisions to prevent fuel drain back to the tank when the engine is shutdown.

Fuel Prime
A fuel re-prime pump shall be provided to assist in fuel delivery to the diesel engine from the chassis tank.

Lubrication
Pressure feed with spin-on filter.

Starter
12-volt electric wired into the chassis battery system

Exhaust
A spark arrestor shall be provided on the engine exhaust system.

Air Intake
An air cleaner shall be provided with easy access to remove the element.
An ember screen shall be provided on the inlet to the air cleaner.

The aux pump shall be capable of flowing water though the following discharges only.

Front bumper discharges
Front bumper monitor (if applicable)
Booster hose reel
Cross lay pre connect discharges
Rear 1-1/2" discharge

DUAL DARLEY DELUXE PANELS

The auxiliary pump shall be controlled by a dual Darley, Deluxe panel set up. One panel shall be located on the pump panel and one panel shall be located in the cab console.

ELECTRIC PRIMER SPECIFICATIONS

A 12 volt electrically driven positive displacement fire pump primer system shall be installed. The priming pump shall be constructed of heat treated aluminum and hard coat anodized and shall not use oil in the operation. The system shall perform in compliance to applicable NFPA standards.

THIRD PARTY FIRE PUMP TEST

The independent third-party organization shall witness the required pump test by an in-person representative(s) at the test site or by use of verifiable automated data collection and image recording equipment.

FIRE PUMP PTO AND DRIVELINES

A transmission power take-off (PTO) unit shall be provided and installed on the chassis automatic transmission to drive the fire fighting water pump. The PTO shall be a 10-bolt type, with a minimum torque rating of 300 lb. ft. (duty), and an engine speed ratio that provides the required pump performance.

INTAKE DUMP VALVE

An Elkhart model #40/40 intake dump valve shall be provided and mounted on the suction side of the pump. The valve shall be preset from the factory at 125 psi. The discharge piping of the dump valve shall be a minimum of 2-1/2" diameter and shall terminate with a 2-1/2" male NST adapter. The excess water shall be discharged to the ground. A label shall be provided indicating: "DUMP VALVE DISCHARGE, DO NOT CAP".

BYPASS FIRE PUMP COOLER

The fire pump shall be equipped with a cooling line, the line shall be routed through the main and auxiliary pump (if applicable) to an adjustable valve, from the valve the water shall be routed through the apparatus' engine cooling system and then to the water tank. The valve on the pump panel shall be labeled "Engine Cooler".

MASTER PUMP DRAIN

One (1) Trident, multiple-port drain valve, fabricated from bronze, shall be provided and controlled at the pump operator's control panel. The valve shall be opened by turning a rotary hand wheel. The valve shall be plumbed to drain both the discharge and intake sides of the pump, the relief valve and other plumbing components as required.

The valve shall be placed as low as possible to provide proper drainage of the components plumbed to it. The valve shall be rated to 600 PSI minimum and suitable for daily valve actuation.

The intake shall be equipped with a South Park Corp. 3/4" Push-pull type drain valve mounted to the bottom of the valve.

The intake shall be equipped with a South Park Corp. 3/4" Push-pull type drain valve mounted to the bottom of the valve.

A Class 1 quarter-turn 3/4" drain and bleeder valve shall be installed on the discharge valve.

A Class 1 quarter-turn 3/4" drain and bleeder valve shall be installed on the discharge valve.

The discharge outlet shall be equipped with a South Park Corp. 3/4 Push-pull type drain valve mounted to the bottom of the valve.

PUMP SHIFT STATIONARY PUMPING ONLY

An electric powered PTO pump shift shall be installed in the cab driver's area where not subject to accidental engagement. The pump shift system shall permit "Stationary pumping only" operations.

The following indicator lights shall be included with pump shift.

1. An amber indicator light, labeled "PUMP ENGAGED" shall indicate pump shift has successfully been completed.
2. A green indicator light, labeled "OK TO PUMP" shall indicate the chassis transmission is in the proper gear and the parking brake is engaged.
3. Pump shift and interlocks shall comply with applicable sections of NFPA standards.
4. The pump shift shall have an instruction label and nameplate to indicate proper pump shift instructions.

PLUMBING

The plumbing system shall utilize stainless steel piping incorporating hosing to allow for flex. The piping shall utilize TIG welding to provide a complete seal. Hard angles shall be avoided when possible to improve water flow characteristics. The piping shall utilize Victaulic couplers whenever possible to allow flex as the body module flexes.
Threaded sections of piping shall be avoided to reduce the leak potential of the system. Victaulic couplers shall be used in place of threading to reduce leak potential. Schedule 10 stainless steel piping shall be used for

transport type piping. Schedule 40 stainless steel shall be used for areas requiring threading to provide a stable threading base. Brackets shall be Uni-Strut clamp type with rubber flex inserts installed to support threading locations thereby reducing the potential for leaks.

All hoses shall be connected directly to the tank. Any front discharges, any rear discharges, and all cross lays shall use hose to reach the actual discharge. The use of hose shall be utilized due to the difference in flex or movement between the discharge location and the pump connection. Drain lines shall be provided at the lowest points in the plumbing system to allow for complete drainage.

The main suction and discharge plumbing shall be welded stainless steel pipe or high pressure flexible hose. The flexible hose shall be designed to withstand the normal operating pressures of the pump. All high pressure hose shall be installed with a swivel or Victaulic coupling on at least one end of the hose.

AUXILIARY PUMP PLUMBING

The auxiliary fire pump plumbing system shall utilize stainless steel piping incorporating hosing to allow for flex. The piping shall utilize TIG welding to provide a complete seal. Hard angles shall be avoided when possible to improve water flow characteristics. The piping shall utilize Victaulic couplers whenever possible to allow flex as the body module flexes.

Threaded sections of piping shall be avoided to reduce the leak potential of the system. Victaulic couplers shall be used in place of threading to reduce leak potential. Schedule 10 stainless steel piping shall be used for transport type piping. Schedule 40 stainless steel shall be used for areas requiring threading to provide a stable threading base. Brackets shall be installed to support threading locations thereby reducing the potential for leaks.

All hoses shall be connected directly to the tank due to the different flex ratios of the tank to body. Any front discharges, any rear discharges, and all cross lays shall use hose to reach the actual discharge. The use of hose shall be utilized due to the difference in flex or movement between the discharge location and the pump connection.

One (1) Akron 8810 series swing-out style valve(s) shall be supplied and installed. All valves shall be designed to operate under normal conditions up to 500 PSI and shall have dual seats to work in both pressure and vacuum environments. All valves and controls shall be easily accessible for service, repair or replacement.

Two (2) Akron 8820 series swing-out style valve(s) shall be supplied and installed. All valves shall be designed to operate under normal conditions up to 500 PSI and shall have dual seats to work in both pressure and vacuum environments. All valves and controls shall be easily accessible for service, repair or replacement.

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One (1) Akron 8825 series swing-out style valve(s) shall be supplied and installed. All valves shall be designed to operate under normal conditions up to 500 PSI and shall have dual seats to work in both pressure and vacuum environments. All valves and controls shall be easily accessible for service, repair or replacement.

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One (1) Akron 8630 series swing-out style valve(s) shall be supplied and installed. All valves shall be designed to operate under normal conditions up to 500 PSI and shall have dual seats to work in both pressure and vacuum environments. All valves and controls shall be easily accessible for service, repair or replacement. The valve shall be operated by an electric actuator.

One (1) Akron 8820 series swing-out style valve(s) shall be supplied and installed. All valves shall be designed to operate under normal conditions up to 500 PSI and shall have dual seats to work in both pressure and vacuum environments. All valves and controls shall be easily accessible for service, repair or replacement.

One (1) Akron 8820 series swing-out style valve(s) shall be supplied and installed. All valves shall be designed to operate under normal conditions up to 500 PSI and shall have dual seats to work in both pressure and vacuum environments. All valves and controls shall be easily accessible for service, repair or replacement.

The specified valve shall have a direct actuated ‘local’ control, Akron Model R1 valve handle.

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The specified valve shall have a direct actuated ‘local’ control Akron Model TSC valve handle.

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The valve shall be equipped with a Thuemling manually operated pull rod, with quarter-turn locking feature.

The specified electric valve shall be controlled with a Navigator Pro 2.0 9333 controller.

PRIMER ASSEMBLY

The auxiliary pump shall use the main pump primer to prime the pump. Primer control shall be located on the pump control panel and shall utilize one primer for both pumps.

AUXILIARY FUEL SYSTEM

The fuel system for the auxiliary fire pump shall be plumbed to the chassis fuel system. There shall be a separate fuel pickup tube mounted in the chassis fuel tank specifically for a separate engine driven pump assembly. There shall be an electric fuel pump with regulator and fuel hose furnished between the chassis fuel tank and the auxiliary pump.

AUXILIARY FIRE PUMP ELECTRIC START WIRING TO CHASSIS

Properly sized 12 volt positive and negative cables shall be provided from the chassis battery to the auxiliary fire pump.

AUXILIARY AND MAIN PUMP PLUMBING

The auxiliary fire pump shall be plumbed to the main pump discharge.

AUXILIARY PUMP OIL DRAIN EXTENSION

There shall be an oil drain extension installed on the auxiliary pump. This will allow for the engine oil to be drained without removing the auxiliary engine.

AUXILIARY PUMP COVER

A louvered hinged cover with suitable latches shall be provided over the pump and power unit assembly. The area around the assembly shall remain open for maintenance and air circulation and the radiator shall be located behind ventilated side sheet.

6" UNGATED INTAKE -- LEFT SIDE

One (1) 6" ungated suction intake shall be installed on the left side pump panel to supply the fire pump from an external water supply. The threads shall be 6" NH male and equipped with a removable screen.

2-1/2” GATED INTAKE -- LEFT SIDE

One (1) 2-1/2" gated suction intake shall be recessed mounted on the left side pump panel to supply the fire pump from an external water supply. The valve shall be a quarter-turn ball valve with the appropriate handle and shall have 2-1/2" NH female thread.

2-1/2” GATED INTAKE -- RIGHT SIDE

One (1) 2-1/2" gated suction intake shall be recess mounted on the right side pump panel to supply the fire pump from an external water supply. The valve shall be a quarter-turn ball valve with the appropriate handle and shall have 2-1/2" NH female thread.

One (1) chrome brass 2-1/2" NH rocker lug plug with a securing chain or cable shall be installed on the intake.

One (1) chrome brass 2-1/2" NH rocker lug plug with a securing chain or cable shall be installed on the intake.

One (1) chrome brass 2-1/2" NH rocker lug plug with a securing chain or cable shall be installed on the intake.

One (1) chrome brass 6" NH long handle cap shall be installed on the intake.

WATER TANK SUPPLY LINE TO FIRE PUMP

A 3" water tank to pump line shall be installed, with a 3" full flow quarter turn ball valve and 3" piping. The line shall be equipped with a hump hose with stainless steel hose clamps and a 3" check valve to prevent pressurization of the water tank.

PUMP TO TANK

There shall be a pump to tank line provided from the discharge side of the pumps and plumbed to the top of the tank. The plumbing shall be 2-inch with a 2-inch Akron 8800 series ¼-turn full flow ball valve, and shall be controlled at the left pump panel by a push/pull T-handle and linkage. The pump to tank shall be plumbed to flow water from both the main and auxiliary pumps

2-1/2" DISCHARGE LEFT SIDE -- FORWARD PUMP PANEL

One (1) 2-1/2" discharge shall be installed on the left side forward pump panel area controlled by a quarter turn ball valve with the appropriate handle. The discharge shall have 2-1/2" NH male hose threads, bleeder valve, and chrome brass cap, with a label adjacent the control handle.

2-1/2" DISCHARGE LEFT SIDE -- REARWARD PUMP PANEL

One (1) 2-1/2" discharge shall be installed on the left side rearward pump panel area with controlled by a quarter turn ball valve. The discharge shall have 2-1/2" NH male hose threads and label adjacent the control handle.

2.5" DISCHARGE -- REAR LEFT

One (1) 2.5" discharge shall be installed on the rear left panel with controlled by a quarter turn ball valve. The discharge shall have 2.5" NH male hose threads and nameplate label adjacent the control handle.

2.5" DISCHARGE -- REAR RIGHT

One (1) 2.5" discharge shall be installed on the rear right with controlled by a quarter turn ball valve. The discharge shall have 2.5" NH male hose threads and nameplate label adjacent the control handle.

1-1/2" CROSSLAY DISCHARGES

Two (2) 1-1/2" hose cross lays shall be installed over pump enclosure. One (1) each side. They shall be arranged in a single stack design with a divider in the center of the storage area. Each storage area shall extend from the side of the pump house to the center of the pump house. The dimensions shall be approximately 4-1/2" wide x 36" deep x 32" tall.

The crosslay hosebed shall be equipped with an aluminum diamond plate hinged cover and vinyl end flap enclosures on each side, installed in compliance with applicable NFPA #1900 standards. The cover shall be equipped with rubber bumpers and lift up handle on each end of the cover.

CROSSLAY EDGES

The crosslay side sheets shall be rolled on each side to act as a guide for the hose to come out of the tray.

The specified crosslay/deadlay flaps shall be red.

1-1/2" BUMPER AREA DISCHARGE (LEFT SIDE)

One (1) 2" discharge shall be provided at the driver's side of the front bumper extension. The discharge shall be plumbed with 2" flexible high pressure hose with reusable fittings or welded stainless steel pipe. The front bumper discharge shall be equipped with a 2" quarter turn ball valve. The discharge shall have a 90 degree full swivel elbow, terminating in 1-1/2" NST male threads, to allow the hose to be pulled in any direction without kinking.

1-1/2" BUMPER AREA DISCHARGE (RIGHT SIDE)

One (1) 2" discharge, shall be provided at the passenger's side of the front bumper extension. The discharge shall be plumbed with 2" flexible high pressure hose with reusable fittings or welded stainless steel pipe. The front bumper discharge shall be equipped with a 2" quarter turn ball valve. The discharge shall have a 90 degree full swivel elbow, terminating in 1-1/2" NST male threads, to allow the hose to be pulled in any direction without kinking.

2" ISOLATION VALVE

One (1) 2" inline valve, labeled, shall be provided to isolate the front bumper extension discharge piping in the case of a hose or piping failure. This valve shall normally be left in the open position. Control for this valve shall be through the use of a R1 handle, painted red, located at the valve.

Two (2) chrome plated brass reducing adapter with a 2" female NH x 1.5" male NH thread with rocker lugs shall be provided on the discharge.

(1) chrome plated brass 30 degree elbow with 2.5" swivel female NH x 2.5" male NH thread with rocker lugs shall be provided on the discharge.

(1) chrome plated brass 30 degree elbow with 2.5" swivel female NH x 2.5" male NH thread with rocker lugs shall be provided on the discharge.

(1) chrome plated brass 30 degree elbow with 2.5" swivel female NH x 2.5" male NH thread with rocker lugs shall be provided on the discharge.

(1) chrome plated brass 30 degree elbow with 2.5" swivel female NH x 2.5" male NH thread with rocker lugs shall be provided on the direct tank fill.

Two (2) chrome plated brass 1.5" NH rocker lug cap with a securing chain or cable shall be installed on the discharge.

One (1) chrome plated brass 1.5" NH rocker lug cap with a securing chain or cable shall be installed on the discharge.

One (1) chrome plated brass 1.5" NH rocker lug cap with a securing chain or cable shall be installed on the discharge.

One (1) chrome brass 2.5" NH rocker lug cap with a securing chain or cable shall be installed on the discharge.

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HOSE REEL

There shall be one (1) Hannay aluminum hose reel(s) Model #SBSEPF17-28-29-RT shall be installed. The reel shall have leak proof ball bearing swing joint, adjustable friction brake, electric 12 volt rewind. The reel shall be plumbed with wire reinforced, high-pressure hose coupled with brass fittings. The reel shall be designed to hold 125% of the specified hose capacity.

The reel shall be provided with a 12 volt electric motor of appropriate size for rewinding.

HOSE REEL MOUNTING

The hose reel shall be mounted over the pump enclosure.

HOSE REEL CONTROLS

The hose reel shall be controlled by a 1/4 turn local control valve, the valve shall be located near the top of the pump control module next to the hose reel.

Two (2) Cole Hersee #M-608 push button hose reel rewind controls shall be installed supplied and installed to rewind the hose reel. One (1) button shall be installed on the left pump panel and one (1) button shall be installed on the right panel.
NO--Nozzle Mounting

HOSE REEL ROLLERS

The hose reel shall include one horizontal and two vertical chrome fairlead rollers. Two (2) additional sets of fair lead rollers shall be located on the auxiliary pump cover for guiding the hose across the top of the apparatus.

REEL MOUNTED HOSE

Three (3) 50' foot length(s) of 1" fabric covered REEL-TEX water hose shall be installed on the hose reel. The hose shall be equipped with chrome plated pin lug couplings and have a minimum 1000 PSI burst pressure.

FOAM SYSTEM

A FoamPro electronic foam system shall be provided. The system shall be designed for use with Class A foam concentrate. The foam proportioning operation shall be designed for direct measurement of water flows and shall remain consistent within the specified flows and pressures. The system shall be capable of accurately delivering foam solution as required by applicable sections of the NFPA standards.

The system shall be equipped with a control module suitable for installation on the pump panel. There shall be a microprocessor incorporated within the motor driver that shall receive input from the system's flowmeter, while also monitoring the foam concentrate pump output. The microprocessor shall compare the values to ensure that the desired amount of foam concentrate is injected onto the discharge side of the fire pump. A "foam capable" paddlewheel-type flowmeter shall be installed in the discharge side of the piping system.

The control module shall enable the pump operator to:

- Activate the foam proportioning system
- Select the proportioning rates from 0.1% to 1.0%
- See a "low concentrate" warning light flash when the foam tank level becomes low and in two (2) minutes, if the foam concentrate has not been added to the tank, the foam concentrate pump shall be capable of shutting down.

A 12-volt electric motor driven positive displacement plunger pump shall be provided. The pump capacity range shall be 0.1 to 1.7 GPM (6.4L/min) at 200 PSI (13.8 BAR) with a maximum operating pressure up to 400 PSI (27.6 BAR). The system shall draw a maximum of 30 amps at 12 volts. The motor shall be controlled by the microprocessor which shall be mounted to the base of the pump. It receives signals from the control module and power the 1/3 horsepower (.25 Kw) electric motor in a variable speed duty cycle to ensure that the correct proportion of concentrate is injected into the water stream.

A full flow check valve shall be provided in the discharge piping to prevent foam contamination of the fire pump and water tank. A 5 PSI (.35 BAR) opening pressure check valve shall be provided in concentrate line.

Components of the complete proportioning system as described above shall include:

- Operator control module

- Paddlewheel flowmeter
- Pump and electric motor/motor driver
- Wiring harnesses
- Low level tank switch
- Foam tank
- Foam injection check valve
- Main waterway check valve
- Flowmeter and tee with 2" male NPT threads.

The foam system shall be installed and calibrated to manufacturer's requirements. In addition the system shall be tested and certified by the apparatus manufacturer to applicable NFPA standards.

The foam system design shall be tested and pass environmental testing in accordance to SAE standards.

An installation and operation manual shall be provided for the unit. The system shall have a one (1) year limited warranty by the foam system manufacturer.

The FoamPro 1600 Series foam system shall be provided with a control cable from the controller to the foam pump assembly.

The FoamPro 1600 Series foam system shall be provided with a standard pump panel mounted FoamPro control head.

A FoamPro brass flowmeter shall be provided. The flowmeter shall be installed in the "foam capable" discharge line. The flowmeter shall have maximum accuracy between the flow range of 15 GPM and 520 GPM and be capable of operation between 5 GPM to 625 GPM. The tee shall have NPT and Victaulic inlet and outlets connections.

A FoamPro instruction and system rating label shall be provided. The label shall display information for a FoamPro 1600 Series foam system and shall meet applicable sections of the NFPA standards.

A FoamPro foam system schematic label shall be installed on the pump panel near foam controls. The label shall be a diagram of the FoamPro 1600 series foam system layout and shall meet applicable sections of the NFPA standards.

FOAM SYSTEM OUTLETS

The following discharges shall have foam distributed to them.

Front bumper discharges
Front bumper monitor (if applicable)
Pump house crosslay pre connects

Booster hose reel
Rear 1-1/2" discharge

FOAM SYSTEM CAB CONTROL

A FoamPro on-off control switch shall be installed in the cab console.

FOAM UPLOAD SYSTEM

There shall be a Hale EZ Foam upfill system supplied and installed on the apparatus.

PUMP MODULE ENCLOSURE

The PTO fire pump enclosure shall be a separate unit from the body unit and shall be attached and supported at the chassis frame rails. This module shall allow for independent flexing of the pump enclosure from the body, chassis, and tank, and shall permit quick removal. The module shall have Polypro mounting pads and shall be attached to the frame rails. The pump module shall also house the auxiliary pump and hose reel mounted up above the plumbing. The bolt-on pump enclosure support structure shall be constructed of steel tubing.

The pump enclosure shall be approximately 37" front to rear, 72" right to left, and 60" high.

The top portion above the pump panel (operators side), and above the pump house compartment (right hand side) shall have an stainless steel overlay. The overlay shall contour around the front and rear of the pump module approx 3" and extend down the outer edges of the module on both sides left and right to the bottom of the module. On the front of the pump house module there shall be an ALDP overlay that extends from left to right along the top approx 8" tall.

There shall be polished stainless steel bezels around panel mounted discharge and intake valves, they will be removable for ease of service.

PUMP ENCLOSURE RUNNING BOARD

Both the drivers and passenger side shall be equipped with a side running board. The running board shall extend along the width of the pump enclosure from the forward end of the body module to behind the chassis cab. The exterior edge of the running board shall be constructed of a non-slip aggressive surface, supported by the pump enclosure framework, and bolted in place with stainless steel fasteners.

PUMP ACCESS SERVICE DOOR -- UPPER LEFT SIDE

The upper left side of the side mount pump enclosure shall be provided with a pump service access door. The hinged door shall be constructed of stainless steel powder coated satin black, with push button type lever latches for service access.

PUMP PANELS

The pump panels shall be constructed of stainless steel, bolted to the pump enclosure with stainless steel fasteners. The operators side pump panel shall be powdercoated satin black, while the right side panel shall be brushed stainless steel.

MASTER PUMP DISCHARGE AND INTAKE GAUGES

The specified gauge shall feature a drain located at the gauge inlet to help prevent freezing. The drain shall be a twist open and close type.

The specified gauge shall feature a drain located at the gauge inlet to help prevent freezing. The drain shall be a twist open and close type.

MASTER INTAKE PRESSURE GAUGE

One (1) master intake pressure gauge shall be provided on the operator's panel. The gauge shall be a Span brand, or equivalent, -30-0-600 PSI graduated, with a minimum diameter of 4-1/2", backlit for nighttime operations and silicone liquid filled to prevent condensation inside the gauge and to dampen the movement.

The gauge housing shall be constructed of Zytel nylon with a 1/4" NPT brass male fitting centrally located on the rear of the housing. The gauge shall be filled with low-temperature liquid with an operating range of -40 to +150 degrees Fahrenheit, which prevents bouncing of the readout needle and provides for an accuracy rating of 3% or 1" hg on the vacuum side and 5% or 15 PSI on the pressure side of the gauge.

MASTER PRESSURE GAUGE

One (1) master discharge pressure gauge shall be provided on the operator's panel. The gauge shall be a Span brand, or equivalent, 30-0-600 PSI graduated, with a minimum diameter of 4-1/2", backlit for nighttime operations and silicone liquid filled to prevent condensation inside the gauge and to dampen the movement.

The gauge housing shall be constructed of Zytel nylon with a 1/4" NPT brass male fitting centrally located on the rear of the housing. The gauge shall be filled with low-temperature liquid with an operating range of -40 to +150 degrees Fahrenheit, which prevents bouncing of the readout needle and provides for an accuracy rating of 3% or 1" hg on the vacuum side and 5% or 15 PSI on the pressure side of the gauge.

TEST TAPS

Test taps for pump intake and pump pressure with name plate labels shall be provided on the pump instrument panel.

Gauge(s) shall include internal, back-lit 12 volt lighting. Replaceable, White, LED bulb in a water-resistant holder.

Gauge(s) shall include internal, back-lit 12 volt lighting. Replaceable, White, LED bulb in a water-resistant holder.

Gauge(s) shall be supplied with a white dial face with black lettering and black gauge marks.

Gauge(s) shall be supplied with a white dial face with black lettering and black gauge marks.

Gauge bezel shall be Chrome in color.

Gauge bezel shall be Chrome in color.

PRESSURE GOVERNOR and ENGINE MONITORING DISPLAY

Fire Research PumpBoss Max series PBA501-D00 pressure governor and control module kit shall be installed. The kit shall include a control module, intake pressure sensor, discharge pressure sensor, and cables. The control module housing shall be waterproof and have dimensions not to exceed 7 1/2" high by 3 5/8" wide. The control knob shall be 2" in diameter with no mechanical stops, have a serrated grip, and a red idle push button in the center. It shall not extend more than 2" from the front of the control module. The control LCD shall be 3.5” in size with a minimum brightness of 1000 nits and optically bonded to 3mm Borofloat Glass. Inputs for monitored engine information shall be from a J1939 data bus or independent sensors. Outputs for engine control shall be on the J1939 data bus. Inputs from the pump discharge and intake pressure sensors shall be electrical.

The following continuous displays shall be provided:

- Engine RPM; shown on LCD screen
- Check engine and stop engine warning; shown on LCD screen
- Engine oil pressure; shown on LCD screen
- Engine coolant temperature; shown on LCD screen
- Transmission Temperature; shown on LCD screen
- Battery voltage; shown on LCD screen
- Pressure and RPM operating mode LEDs
- Pressure / RPM setting; shown on LCD screen
- Throttle ready / Ok to Pump LEDs.

On screen (LCD) message display shall show diagnostic and warning messages as they occur. It shall show monitored apparatus information, stored data, and program options when selected by the operator. LCD Screen and LED’s intensity shall be automatically adjusted for day and nighttime operation.
The program shall store the accumulated operating hours for the pump and engine to be displayed with the push of a button. It shall monitor inputs and support audible and visual warning alarms for the following conditions:

- High Battery Voltage
- Low Battery Voltage (Engine Off)
- Low Battery Voltage (Engine Running)
- High Transmission Temperature
- Low Engine Oil Pressure

High Engine Coolant Temperature
Out of Water (visual alarm only)
No Engine Response (visual alarm only).

The program features shall be accessed via push buttons located on the front of the control module. There shall be a USB port located at the rear of the control module to upload future firmware enhancements.

The pressure governor shall operate in two control modes, pressure and RPM. No discharge pressure or engine RPM variation shall occur when switching between modes. A throttle ready and Ok to Pump LED shall light when the interlock signal is recognized. The pressure governor shall start in pressure mode and set the engine RPM to idle. In pressure mode the pressure governor shall automatically regulate the discharge pressure at the level set by the operator. In RPM mode the governor shall maintain the engine RPM at the level set by the operator except in the event of a discharge pressure increase. The pressure governor shall limit a discharge pressure increase in RPM mode to a maximum of 30 psi. Other safety features shall include recognition of low water and no water conditions with an automatic programmed response and a push button to return the engine to idle.

The pressure governor control module shall be programmed at installation for a specific engine.

Location of the governor and monitoring display shall be:

WATER TANK GAUGE

One (1) Fire Research TankVision model WLA300-A00-S20 tank gauge shall be installed on the pump panel. The water tank indicator kit shall include an electronic indicator module, a pressure sensor, and a 10' sensor cable. The indicator shall show the volume of water in the tank on nine (9) easy to see super bright LEDs.

The specified level gauge shall be active anytime the chassis battery switch is turned on.

The specified level gauge shall be active anytime the chassis battery switch is turned on.

CLASS A FOAM TANK GAUGE

One (1) Fire Research brand, Model WLA360-A00 tank level gauge shall be provided on the pump operator’s panel to monitor the foam concentrate storage tank level. The gauge shall indicate the foam concentrate storage tank liquid level on an LED bar graph display.

NOMENCLATURE PLATES

The apparatus shall be equipped with color coded labels. The labels shall be furnished for discharges, intakes, and for other controls and indicators. All labels shall be in English format.

MIDSHIP PUMP PANEL LIGHTS -- DRIVERS SIDE

There shall be three Tecniq brand LED lights installed under a stainless steel light shield mounted above the pump panel. The two outer lights shall be operated by a panel mounted switch, while the middle light will only be activated upon pump engagement.

MIDSHIP PUMP PANEL LIGHTS -- PASSENGER SIDE

There shall be one Tecniq brand LED light installed under a stainless steel light shield mounted above the pump panel. The light shall activate upon pump engagement.

One (1) of the pump panel lights shall illuminate at the time the fire pump is engaged.

PUMP ENCLOSURE WORK LIGHTS

Two (2) LED work lights shall be installed in the pump enclosure. The work lights shall have clear lenses and shall have a control switch.

DESIGN AND SCOPE OF STEEL WILDLAND BODY

The body shall be designed and constructed of commonly available structural components for ease of repair and maintenance. The body shall be of a modular design with the body structure independent of the chassis frame rails. The fabrication of the body shall be of welded construction to withstand the rigors of fire service use.

The body shall be designed to incorporate and support the tank, hose bed, compartments, and all other equipment intended to be stored in, or mounted to, the body module. The body skeleton and compartment framework shall be designed of tubular members for increased strength and stress resistance. There shall be no sheet metal or extrusions utilized in the foundation or structural components of the body module due to their critical role in assuring lifetime durability, functionality, and usability.

BODY FRAMEWORK

The entire body framework shall be fabricated from steel tubing. The body framework shall be a completely welded unit, forming a connected, stable frame for strength and longevity and providing the skeleton of the body module.

BODY MOUNTING SYSTEM

The mounting assembly shall be designed to isolate and protect the body module from vibration and twisting stresses imparted by the flexing of the chassis frame rails. The body module shall employ spring-loaded body mounting assemblies. Each two-piece mounting assembly shall be designed to positively position the body on the frame rails while allowing lateral and forward or aft movement. Mounting assemblies shall be placed forward and rearward of the rear axle as necessary to provide a strong and stable mounting of the body module.

Each mounting assembly shall consist of a “male” upper mounting bracket and a “female” lower mounting bracket.

COMPARTMENT FLOOR-SWEEP OUT STYLE

Each compartment shall feature a raised floor sufficient enough so the lip of the compartment shall clear the frame rail of the body module to allow debris to be removed easily from the compartment.

COMPARTMENTATION

All compartments shall be constructed of E.G. steel welded for strength and be sealed from the elements. The compartments shall be attached to the steel superstructure only, in order to maintain a truly modular design. Each compartment shall feature smooth edges and surfaces from the walls to each weld without burs or sharp edges in the material.

DRIVER’S SIDE BODY COMPARTMENTS

COMPARTMENT D1

One compartment shall be provided on the driver's side of the apparatus body above the rear wheels. This compartment shall span from just behind the pump panel to the back of the rear wheel well quarter panel. The compartments approximate "clear door opening" is 51" wide by 39" high with a variable depth of 13.5"/22".

COMPARTMENT D2

One full height compartment shall be provided on the driver's side of the apparatus body aft of the rear wheels. This compartment shall span from behind the rear wheel well quarter panel to the rear of the body in width and from the top of the body to the rub rail in height. The compartments approximate "clear door opening" is 34" wide by 58" high with a variable depth of 13.5"/22".

PASSENGER SIDE BODY COMPARTMENTS

COMPARTMENT P1

One compartment shall be provided on the passenger's side of the apparatus body above the rear wheels. This compartment shall span from just behind the pump panel to the back of the rear wheel well quarter panel in width and from the top of the body side to the wheel well in height. The compartments approximate "clear door opening" is 51" wide by 39" high with a depth of 12".

COMPARTMENT P2

One compartment shall be provided on the passenger's side of the apparatus body aft of the rear wheels. This compartment shall span from behind the rear wheel well quarter panel to the rear of the body in width and from below the walkway to the rub rail in height. The compartments approximate "clear door opening" is 34" wide by 58" high with a variable depth of 12"/22".

BACK BODY COMPARTMENTS

COMPARTMENT B1

One compartment shall be provided at the back of the apparatus body, below the hose bed and above the tailboard. This compartment shall span just center of the tank. The compartments approximate "clear door opening" is 27" wide by 34" high with a depth of 25".

PUMP HOUSE COMPARTMENT (PH1)

There shall be a compartment located on the upper passenger side of the pump house. The compartment dimensions shall be approximately 21" wide x 23" high x 12" deep.

PUMP HOUSE COMPARTMENT (PH2)

There shall be a compartment located on the lower passenger side of the pump house. The compartment dimensions shall be approximately 11.5" wide x 18" high x 18" deep.

SLIDE-IN REAR LADDER COMPARTMENT - PASSENGER SIDE

The rear passenger side of the apparatus body shall have a vertically mounted slide-in ladder storage compartment. The compartment shall be **capable** of storing one (1) *20-foot three-section Duo Safety model #912 ladder, one (1) *backboard minimum dimensions 72" L x 16" W x 2" H (Ferno “Najo Light NB5500” or similar), one (1) *8-foot long pike pole and one (1) *5-foot digging bar, one (1) *8-foot rubbish hook, *New York Roof Hook with locking pins to secure each item.

Items are to be purchased by the end user

SLIDE-IN REAR SUCTION HOSE COMPARTMENTS

Two (2) suction hose storage compartments will be located above the side storage compartments on both sides of the apparatus. The compartments will hold a combined total of three (3) eight (8) foot sections of four (4) inch hard suction hose and strainer.

Both compartments will be capable of holding two (2) eight (8) foot sections of hose if needed. Each compartment will have a stainless steel painted hinged door on the rear of the compartment. Each compartment door will have a locking positive latching door latch.

FRONT OF HOSE BED COMPARTMENT

The front hose bed shall be provided with an compartment, the compartment shall span the width of the hosebed and comeback approximatly 19" aft from the front wall of the body. The compartment shall have a forward opening door.

TOP COMPARTMENT TC1

The hose bed shall be provided with a compartment down the center of the hosebed aft of the front compartment. The top compartment shall have a one piece aluminum treadplate cover. Approximate "clear door opening" dimensions shall be 13" wide by 75" deep and 16" high.

PAINTED ALUMINUM PANEL

There shall be a smooth aluminum panel bolted to the rear of the center top storage box.

WHEEL WELL PANEL CONSTRUCTION

The outer wheel well panel shall be galvanneal steel of the same gauge as compartment construction and an integral part of the overall body design. The exterior wheel well area shall be painted to match the body.

WHEEL WELL LINERS

Wheel well liners designed to protect the body from impact resulting from road debris thrown by the tires shall be installed. The removable liners shall be constructed from UHMW material to encompass the entire inner wheel well area. The liners shall be secured with stainless steel threaded fasteners.

REAR WHEEL FENDERETTES

Black radius rubber fenderettes shall be installed at each rear wheel opening. The fenderettes shall be positioned outside of the wheel well panel to cover the tire area that extends past the body. The fenderettes shall be secured with stainless steel threaded fasteners.

DRIVERS SIDE BODY -- SCBA CYLINDER STORAGE PROVISIONS

A storage area for an SCBA cylinder shall be provided in the forward area of the driver's side wheel well. Dimensions shall be 8" diameter x 26" deep.

DRIVERS SIDE BODY FULL SCBA STORAGE

A compartment for the storage of one (1) full SCBA pack with mask shall be provided in the rearward area of the drivers side wheel well.

The SCBA door shall be a Cast Products door.

The SCBA door shall be a Cast Products door.

The SCBA door shall be made from stainless steel and painted job color.

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The SCBA cylinder storage tube shall be made from plastic. There shall be rubber matting to cusion the bottle glued into the tube.

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PASSENGER SIDE BODY -- SCBA CYLINDER STORAGE PROVISIONS

A storage area for an SCBA cylinder shall be provided in the forward area of the passenger's side wheel well. Dimensions shall be 8" diameter x 26" deep.

PASSENGER SIDE BODY FULL SCBA STORAGE

A compartment for the storage of one (1) full SCBA pack with mask shall be provided in the rearward area of the passenger's side wheel well.

SCBA CYLINDER STRAPS

There shall be a 1" nylon tether installed to secure the bottle in the storage tube.

SCBA CYLINDER STRAPS

There shall be a 1" nylon tether installed to secure the bottle in the storage tube.

RUB RAILS, CLEARANCE LIGHTS, AND REFLECTIVE TAPE

The sides of the lower body area fore and aft of the wheel well area shall be provided with 2" x 1.25" x .250" extruded aluminum rub rails, with end caps or angled corners.

FRONT OF BODY -- PROTECTIVE SURFACE

The entire front of the apparatus body shall include a protective surface, constructed of aluminum tread plate material.

FRONT CORNERS OF BODY -- PROTECTIVE SURFACES

The front corners of the apparatus body shall include a protective surface installed. The surface shall be constructed of polished stainless steel material.

REAR BODY PANELS

The entire rear of the apparatus body shall be painted apparatus color.

OUTER REAR BODY PANELS -- PROTECTIVE COVERING

The rear outer panels of the body shall have protective surfaces installed on the corners. The protective covering shall be constructed of polished stainless steel material.

TOP OF BODY COMPARTMENTS -- PROTECTIVE SURFACES

The top of the side compartments shall have a protective surfaces installed. The surface shall be constructed of aluminum tread plate material.

ANODIZED ALUMINUM DRIP RAIL

All enclosed compartment doors on the body shall be provided with an aluminum drip rail above the doors.

COMPARTMENT VENTILATION

A minimum 2-inch single “Weber” style polished stainless steel swivel vent with four (4) ¼-inch vent holes shall be provided. These vents shall have a stainless steel center bolt to lock the vent in either the open or closed position and be located in the compartment walls. All vents will contain fire resistant filters to minimize dust entering the compartment.

COMPARTMENT VENTILATION

A minimum 2-inch single “Weber” style polished stainless steel swivel vent with four (4) ¼-inch vent holes shall be provided. These vents shall have a stainless steel center bolt to lock the vent in either the open or closed position and be located in the compartment walls. All vents will contain fire resistant filters to minimize dust entering the compartment.

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COMPARTMENT FLOOR DRAIN

The compartment shall be provided with rear corner floor drains to the underside of the body.

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ALUMININUM – COMPARTMENT DOOR, HINGED OVERLAP

One (1) single, vertically hinged door shall be provide and fabricated from aluminum. The frame of the door shall be constructed of 1.75” x 1.75” x .125” aluminum tubing to prevent corrosion and provide structural support. The spacing created by the frame tubing shall be filled with Styrofoam for added support, dent resistance, insulation and noise reduction. The exterior surface shall be .125” aluminum for durability. The interior surface shall be .080” aluminum. There shall be no mechanical fasteners, such as bolt heads or rivets on the inside or outside of the doors.

The exterior of the door shall overlap the opening of the compartment. A .75” lip shall be constructed around the opening of the compartment and the exterior of the door. A rubber seal shall be installed on the .75” lip on both the compartment and the door to provide a double seal against water and dust.

The door shall be designed utilizing a D-ring style latch system. A 6” stainless steel D-ring latch, large enough to accommodate a gloved hand, shall be mounted on the exterior of the door. A stainless steel bezel shall be installed to house and protect the D-ring locking mechanism. The easily serviced bezel shall be mounted utilizing stainless steel screws. The D-ring locking mechanism shall be a double catch design. The first catch shall engage to secure the door in the event of improper closure. The second catch shall seal the door from water and other elements once the door has been properly closed.

The door shall be mounted using a stainless steel piano style hinge and a .25” diameter hinge pin for stability. The vertical hinge shall be mounted to the body frame with threaded inserts and stainless steel screws to preserve functionality and ease of maintenance in the event of damage.

Gas struts shall be utilized to hold the door in the open position and to prevent the door from slamming during closing. The gas struts shall be mounted directly to the door with a stainless steel bracket assembly for stability and ease of maintenance. The gas struts shall be mounted to the interior of the compartment with a fully adjustable assembly.

ALUMININUM – COMPARTMENT DOOR, HINGED OVERLAP

There shall be five (5) double, vertically hinged sets of doors fabricated from aluminum and installed on the apparatus body. Each door shall feature exterior surfaces which overlaps the opening of the compartment. The exterior surface shall be .125” aluminum for durability and damage resistance. The interior surface shall be .080” aluminum for structural support and overall appealing appearance of the compartment. The frame of the doors shall be constructed of 1.75” x 1.75” x .125” aluminum tubing to prevent corrosion and provide structural support. The spacing created by the frame tubing shall be filled with Styrofoam for added support and dent resistance, temperature insulation, and noise reduction.

A .75” lip shall be constructed around the opening of the compartment and the exterior of the door. A rubber seal shall be installed on the .75” lip of both the compartment and the door to provide for a double seal against water and dust. A rain gutter shall be mounted above the latch type door for an added third layer of water protection.

The doors shall be designed utilizing a D-ring latch system. A 6 inch stainless steel D-ring latch, large enough to accommodate a gloved hand, shall be mounted on the exterior of the door to allow the door to seal and fasten in the closed position. A stainless steel bezel shall be installed to house and protect the D-ring locking mechanism. The easily serviced bezel shall be mounted utilizing stainless steel screws for added stability of the mechanism and ease of maintenance in the event of damage. The D-ring locking mechanism shall be of a double catch design. The first catch shall engage to secure the door in the event of improper closure. The second catch will seal the door to water and other elements once the doors has been properly closed.

The doors shall be mounted with a stainless steel hinges with .25" diameter hinge pin for stability. The vertical hinges shall be mounted to the body frame with threaded inserts and stainless steel screws to preserve functionality with use or age and ease of maintenance in the event of damage.

Gas struts shall be utilized to hold the door in the open position and to prevent the door from slamming during closing. The gas struts are mounted directly to the door with a stainless steel bracket assembly for stability and ease of maintenance. The gas struts shall be mounted to the interior of the compartment with fully adjustable assembly for ease of adjustment and maintenance while increasing stability.

ALUMINUM TREADPLATE DOOR

This compartment shall feature an embossed aluminum diamond plate lid. The lid shall be bare embossed aluminum diamond plate.

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COMPARTMENT SILL PLATE

The compartment shall feature a polished stainless steel sill plate protecting the painted surface of the compartment when items are accessed.

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The specified door(s) D-ring handles shall be equipped with manual key door locks keyed to use the 1250 key.

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DOOR LATCH

The specified hinged door(s) shall be equipped with a sealed, black lever latch(es). Latch(es) shall be non-locking style.

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DOOR LATCH

The specified hinged door(s) shall be equipped with (1), textured chrome lever latch(es). Latch(es) shall be non-locking style with a raised button.

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The specified hinged door(s) shall be equipped with (1), textured chrome lever latch(es). Latch(es) shall be non-locking style with a raised button.

REAR STEP

The rear bumper shalll be made from aluminum diamondback grip strut. The design of the grip strut shall allow for no debris or dust buildup and will allow for easy clean out with just water.

The step shall be of a three piece design each section to operate independently during body and chassis flexing. The step will be full body width.

The drop step will have locking positions to allow for up position storage and rear compartment door opening access.

AUXILIARY FIXED STEP -- DRIVERS SIDE REAR

Three (3) Cast Products square cast aluminum auxiliary step(s) shall be provided. The step shall be installed on the rear drivers side of the body.

AUXILIARY FIXED STEP -- PASSENGER SIDE REAR

Three (3) Cast Products square cast aluminum auxiliary step shall be provided. The step shall be installed on the rear passenger side of the body.

GRAB HANDLES

The following grab handles shall be provided and installed in the following locations.

- Two (2) 34.25" vertical grab handles one on each tail panel just inset from DOT lights.
- One (1) 18" vertical grab handle mounted on the passenger side pump house.
- One (1) 14" horizontal grab handle mounted on the rear of the center dunnage box
- One (1) 63" horizontal grab handle mounted just below the hosebed
- Two (2) 19" horizontal grab handles one mounted on each hosebed door rear facing
- One (1) 13" horizontal grab handle mounted on the drivers side of pump house

HOSE BODY CONSTRUCTION SPECIFICATIONS

The hose bed side sheets and floor shall be constructed from aluminum material. The hosebed shall provide two separate hose beds one on the left and one on the right side of the top loaded center dunnage. The hose body shall be free of sharp corners, bolts, or other obstructions that may catch hose and other equipment.

HOSE BED DIVIDER

One (1) adjustable width hose bed divider constructed from no less than .250 (1/4") aluminum material shall be installed. The divider shall be secured to the hose bed by utilizing adjustable track type channels and fasteners. The divider shall be full length and depth of the hose bed.

HOSE STORAGE BRACKETS

There shall be two (2) I-Zone hose bracket(s) provided on the rear of the apparatus body one on each side left and right. The mount(s) shall be mounted under CPI fixed step(s). Approx length of the I-zone pole shall be 24".

ALUMINUM HOSEBED GRATING

The hose bed compartment deck shall be constructed entirely from maintenance-free, extruded aluminum slats. The slats shall feature an anodized, contoured, ribbed top surface. The slats shall be of widths approximately 3/4" high x 4.5" wide and shall be welded into a one-piece grid system to prevent the accumulation of water and allow ventilation to assist in drying hose.

HOSEBED REAR ENCLOSURE

A vinyl end skirt with three (3) straps, and large quick release buckles (minimum 2-inch) shall be installed on each hose bed cover. Quick release buckles and nylon tie down straps shall be attached to the end skirts. The end skirts will be weighted at the bottom end with a full width flat strip of metal sewn into the hem of the skirt. The end skirts, straps, buckles, etc. will be exposed to direct sun light and shall be protected against UV rays.

ALUMINUM HOSEBED COVER

Two (2) separate aluminum tread plate hose bed covers shall be installed, ⅛-inch aluminum alloy diamond plate reinforced with a ⅛-inch aluminum alloy hat section as needed to support walking on the hose bed covers. The covers shall be hinged on the outboard side using full length polished stainless steel hinges with a minimum ⅜-inch pin and 1-inch joint length and installed to avoid any hindrance in walking on hose bed covers.

The hose bed covers shall have full length handrails installed along the rear lip of the covers and a mechanism on each cover to assist with opening and closing of the hose bed covers. Each hose bed cover shall have a mechanism to hold the hose bed cover in the open position and will be substantial enough to prevent accidental closing in extreme wind conditions.

The covers shall be reinforced so that they will support the weight of a person walking on the cover and shall be sloped to the outboard side of the apparatus to aid in water run-off.

The flaps shall be black in color.

HOSEBED SURFACE FINISH

The hosebed doors shall be embossed aluminum diamond plate.

WATER TANK SPECIFICATIONS

A 500 gallon booster tank (Poly Tank) shall be fabricated from a minimum of .500" polypropylene complete with a minimum of .375" polypropylene internal full height baffles that are raised 4" off the tank floor for maximum water flow between baffles. In addition, provisions for the main pump outlet, direct tank filler inlet, a pump to tank filler/churn valve inlet, a back pump filler outlet, a fitting for an electronic water level gauge sensor and clean outs for manual tank flushing shall be provided. The tank shall be structurally reinforced and restrained to prevent deformities or damage to the tank or apparatus body during stressed off road operations. The booster tank shall be a rectangular design, and shall be capable of being completely removable from the body without cutting or bending of any components. The tank and cradle assembly shall be mounted to the chassis frame in strict accordance to the tank manufacturer's installation guidelines.

The water tank shall be configured in a rectangular style with consistent widths on the sides from top to bottom.

TANK SUMP AND DRAIN PROVISIONS

A one (1) cubic foot (minimum) polypropylene sump, with anti-swirl baffles shall be provided. The sump shall be located as close to the center of the tank floor as the chassis cross members, and differential driveline will allow.

One (1) 3-inch or 4-inch National Pipe Thread (NPT) outlet and plug shall be provided in the sump floor for flushing of the tank. A 1½-inch drain valve shall be provided in the tank sump for flushing of the booster tank. The valve will be located as to provide for adequate clearance from cross members and differential during extreme twisting motions of the chassis and buildup

The sump shall also be provided with a 1-inch NPT outlet for the back pump filler hose.

Due to space constraints, it may be necessary to locate the main pump suction outlet in the tank sump for maximum water usage. The main pump suction tube will be of an adequate size to supply the main pump with enough water to meet pump ratings.

A minimum 3-inch direct tank fill NPT inlet and internal manifold shall be provided on the left rear of the tank. If the direct tank fill inlet is located on the rear tank wall, the inlet manifold shall pass through the first baffle and feature a turn down to eliminate any possible damage to the tank or baffles while filling the tank.

WATER TANK DRAIN PROVISIONS

A 3" plugged drain provision shall be installed in the bottom of the water tank, sump, or plumbing for water tank draining and the flushing-out of debris.

DIRECT TANK FILL - REAR DRIVERS SIDE

A valve for direct filling of the tank shall be supplied. The 1/4 turn valve shall be configured with 2-1/2" NH female threads, debris screen, threaded plug with retention chain and lever handle. The valve shall be located on the drivers side rear of the apparatus.

BACK PACK FILL SYSTEM

There shall be one (1) back pack fill system provided and installed on the lower area of the pump panel. The valve plumbing shall be 3/4" I.D. hose.

CLASS A FOAM TANK SPECIFICATIONS

The Class A foam tank shall have a capacity of 20 gallons. The foam tank shall be manufactured by UPF and have a lifetime warranty.

The tank shall be equipped with a positive sealing pressure/vacuum vent type cap, a low foam concentrate sensor that turns off the foam pump at a pre-set level, a visual sight gauge, an easily accessible brass or stainless steel drain valve located at the lowest point of the foam tank and an accessible brass or stainless steel cleanable strainer installed in the supply line from the foam tank to the foam pump.

The foam tank shall be mounted on a removable sub-structure. The tank will have a positive tie down. The tie down will allow for easy removal of the foam tank.

The foam tank will have two (2) quarter turn brass or stainless shut off valves at the pump supply and fill lines to allow for the removal of the tank without loss of foam. The float switch harness and the foam concentrate supply and fill lines shall have connections located adjacent to the tank to facilitate foam tank removal.

FOAM TANK FILL AND VENTING PROVISIONS

The foam concentrate tank shall be provided with a fill pipe having a volume of not less than 2 percent of the total tank volume. The filler opening shall be capped with a sealed air-tight threaded cover. The fill opening shall be designed to incorporate a removable screen and shall be located so that foam concentrate from a five (5) gallon container can be dumped into the tank.

The foam tank filler shall be equipped with a pressure/vacuum vent that enables the tank to compensate for changes in pressure or vacuum when filling or withdrawing foam concentrate from the tank. The pressure/vacuum vent shall not allow atmospheric air to enter the foam tank except during operation or to compensate for thermal fluctuations. The vent shall be protected to prevent foam concentrate from escaping or directly contacting the vent at any time. The vent shall be of sufficient size to prevent tank damage during filling or foam withdrawal.

A color coded label or visible permanent marking that reads "CLASS A -- FOAM TANK FILL" shall be placed

at or near the foam concentrate tank fill opening. An additional label shall be placed at or near any foam concentrate tank fill opening stating the type of foam concentrate the system is designed to use.

Any restrictions on the types of foam concentrate that can be used with the system shall also be stated, along with a warning message that states "WARNING: DO NOT MIX BRANDS AND TYPES OF FOAM."

A 3/4" diameter connection, piping, and gate type valve shall be installed for the foam tank for draining purposes.

ADJUSTABLE UNISTRUT

Adjustable Uni-Strut equipment mounting tracks shall be installed inside the compartment with two (2) channels on the left wall and two (2) channels on the right wall. The tracks shall be positioned to provide support for equipment mounting. The length of the tracks shall be sized to allow for optimum use of the compartment interior.

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Adjustable Uni-Strut equipment mounting tracks shall be installed inside the compartment with two (2) vertical channels on the back wall of the compartment.

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500# ROLL OUT TRAY

There shall be one (1) 500# capacity roll out tray(s) provided and installed in the specified compartments. The tray(s) shall be constructed of .188” smooth aluminum with a 2” lip on all four sides. The tray(s) shall roll fully out of the compartment, and shall be equipped with a locking device to hold the tray in both the in and out positions.

ALUMINUM ON BACK WALL OF COMPARTMENT

There shall be a 3/16" aluminum panel mounted to the back wall of the compartment for the purpose of mounting equipment. The equipment mounting board shall be mounted to unistrut.

ALUMINUM ON SIDE WALL OF COMPARTMENT

There shall be a 3/16" aluminum panel mounted to the side wall of the compartment for the purpose of mounting equipment. The equipment mounting board shall be mounted to unistrut.

COMPARTMENT GRATING

No compartment floor grating shall be provided in specified compartment.

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BUMPER COMPARTMENT GRATING

The specified bumper compartment shall be fitted with removable interlocking vinyl Dri-Dek grating. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

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The specified bumper compartment shall be fitted with removable interlocking vinyl Dri-Dek grating. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

The specified Dri-Dek grating shall be black in color.

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The straps shall be black in color.

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12 VOLT ELECTRICAL SPECIFICATIONS

The following describes the low voltage electrical system on the apparatus including all panels, electrical components, switches and relays, wiring harnesses and other electrical components. The apparatus manufacturer shall conform to the latest Federal DOT standards, current automotive electrical system standards, and the applicable requirements of the NFPA 1906.

Wiring shall be stranded copper or copper alloy conductors of a gauge rated to carry 125 percent of the maximum current for which the circuit is protected. Voltage drops shall not exceed 10 percent in all wiring from the power source to the using device. The wiring and wiring harness and insulation shall be in conformance to applicable SAE and NFPA standards. The wiring harness shall conform to SAE J-1128 with GXL temperature properties. Exposed wiring shall be run in a loom with a 290 degree Fahrenheit rating. Wiring looms shall be properly supported and attached to body members. Electrical conductors shall be constructed in accordance with applicable SAE standards, except when good engineering practice requires special construction.

All wiring connections and terminations shall provide positive mechanical and electrical connections and be installed in accordance with the device manufacturer's instructions. When wiring passes through metal panels, electrical connections shall be with mechanical type fasteners and rubber/plastic grommets.

Wiring between cab and body shall be split using Deutsch type connectors or enclosed in a terminal junction panel allowing body removal with minimal impact on the apparatus electrical system. Connections shall be insulated with heat shrink crimp-type tubing to resist moisture and foreign debris such as grease and road grime. Weather resistant connectors shall be provided throughout the system.

Electrical junction or terminal boxes shall be weather resistant and located away from water spray conditions. When required, automatic reset breakers and relays shall be housed in the main body junction panel.

There shall be no exposed electrical cabling, harnesses, or terminal connections located in compartments, unless enclosed in an electrical junction box or covered with a removable electrical panel. Wiring shall be secured in place and protected against heat, liquid contaminants and damage and shall be uniquely identified at least every six inches (6") by color coding or permanent marking with a circuit function code and identified on a reference chart or electrical wiring schematic per requirements of applicable NFPA 1906 standards.

Low voltage protective devices shall be provided for the electrical circuits. The devices shall be accessible and located in required terminal connection locations or weather resistant enclosures. Over current protection devices shall be automatic reset type suitable for electrical equipment and meet SAE standards. All electrical equipment, switches, relays, terminals, and connectors shall have a direct current rating of 125 percent of maximum current for which the circuit is protected. Electro-magnetic interference suppression shall be provided in the system as required in applicable SAE standards.

The electrical system shall include the following:

Electrical terminals in weather exposed areas shall have a non-conductive grease or spray applied. All terminal plugs located outside of the cab or body shall be treated with a corrosion preventative compound.

All electrical wiring shall be placed in a protective loom or be harnessed.

Exposed connections shall be protected by heat shrink material and sealed connectors.

Large fender washers shall be used when fastening equipment to the underside of the cab roof and all holes made in the roof shall be caulked with silicone.

Electrical components installed in exposed areas shall be mounted in a manner that will not allow moisture to accumulate inside.

A service loop shall be provided behind an electrical appliance to allow them to be pulled away from mounting area for inspection and service work.

Upon completion of the vehicle and prior to delivery, the apparatus shall be electrically tested and the electrical testing, certifications, and test results shall be submitted with delivery documentation per requirements of NFPA 1906.

ELECTRICAL WIRING HARNESS

The electrical system shall be divided into separate harnesses. The individual harness shall be connected with Deutsch type quick connectors. The wiring and appliances shall be protected by automatic reset type circuit breakers.

REAR CENTER CONSOLE

There shall be a center console located between the rear bucket seats. The rear console shall feature a recessed top storage area with two front drawers each with a pull style latch.

CUSTOM FABRICATED CONSOLE

A custom fabricated electrical console and enclosure shall be located between the driver's and the officer's seating positions. The console shall feature an angled forward hinged lid, with a flat rear section. At the rear of the console there shall be a storage compartment, it shall have a rear hinged door, with thumb latch, and gas strut to hold the door open.

CUP HOLDER

The console shall have two (2) cup holders installed. Exact location to be determined at the preconstruction meeting.

CUP HOLDER

The console shall have four (4) cup holders installed. Exact location to be determined at the preconstruction meeting.

BATTERY SWITCH - MASTER DISCONNECT

A battery cutoff switch shall be provided in the cab within easy reach of the driver; by the chassis manufacturer. The switch shall be rated for 300 amps.

BLUE SEA SYSTEMS BATTERY CHARGER

The apparatus shall have a Blue Sea Systems, P12 Battery Charger, model #7531 installed. The battery charger shall be 12V DC and have a total output current of 25A. The battery charger shall be located in a clean and dry area.

BLUE SEA SYSTEMS SHORE POWER

The apparatus shall have a Blue Sea Systems, Sure Eject 20 amp shore power plug installed.

The specified Sure Eject shall include a yellow cover.

IDENTIFICATION LIGHTS

All LED identification lights shall be installed on the vehicle as required by applicable highway regulations.

LICENSE PLATE MOUNTING AND LIGHT

A predrilled backing plate and LED light shall be installed on the rear for mounting of the license plate.

STOP AND TAIL LIGHTS

Two (2) Whelen Model #M62BTT, 4" x 6" LED brake, tail, turn with red lenses shall be provided. The light shall be furnished with a optic polycarbonate lens for maximum light spread and furnished with a 6" wire pigtail. The light can be used in combination with a separated turn signal, or alone as a Brake, tail, and turn light.

TURN SIGNALS

Two (2) Whelen M62T light heads shall be installed on the apparatus. The light heads shall feature an amber lens with sequential chevron arrow, with multi flash pattern.

BACK-UP LIGHTS

Two (2) Whelen M-Series M62BU, 4" x 6" rear LED back-up lights shall be installed.

TAILLIGHT BEZELS

Two chrome (2) Whelen M Series housings shall be installed at the rear of the apparatus for four (4) Whelen M-Series stop-tail-turn-backup and warning lights.
NO--Cab Interior Lighting

MAP LIGHT

One (1) Havis Shields #C-MAP-T-LED 12" LED map light, 12 volt, with a gooseneck arm an on-off switch located on the base of the light shall be installed on the dashboard.

FRONT BUMPER -- GROUND LIGHTS

There shall be two (2) Tecniq E10, LED ground light(s) installed under the front bumper.

CAB GROUND LIGHTS

There shall be four (4) Tecniq E10, LED ground lights installed under the cab door(s).

GROUND LIGHTS - PUMP PANEL

There shall be two (2) Tecniq E10, LED ground lights installed under the pump panel running board(s).

GROUND LIGHTS - UNDER REAR STEP

There shall be two (2) Tecniq E10, LED ground lights installed under the rear step area.

The ground lights shall be activated when parking brake is set, or the transmission is placed into park (where applicable).

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HOSEBED -- AREA LIGHTS

(4) Tecniq E10 lights shall be provided and installed on hosebed door(s).

PIONEER MICRO

There shall be two (2) Whelen Pioneer Micro lights provided and installed on the apparatus. The lights shall be located:

PIONEER FLOOD/SPOT SURFACE MOUNT LIGHTHEAD

Three (3) Whelen Pioneer Plus™ Model # PCPSM1C shall be provided and installed on the apparatus. The light head shall have a chrome housing.

WHELEN SCENE LIGHT

One (1) Whelen, Pioneer Summit 30" light bar shall be provided and installed in the front bumper.

SCENE LIGHTING

There shall be a total of 4 (four) scene lights provided and installed on the apparatus, they shall be located at the following locations.

Located at the front of the body one on the drivers side and one on the passenger side above the side compartments.

On the back of the truck, one on each tail panel below the suction storage.

The scene lights shall be activated by individual buttons or switches on the cab center console. Left, right, and rear scene light controls.

The scene lights shall be activated by individual buttons or switches on the cab center console. Left, right, and rear scene light controls.

The scene lights shall be activated by individual switches on the pump operators panel. Left, right, and rear scene light controls.

The foward facing scene light(s) shall be activated by individual buttons or switches on the cab center console.

The specified Whelen M6 lights shall be equipped with chrome plastic flange type light bezel mountings.

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COMPARTMENT LIGHTING

One (1) Code 3 800 Series LED lights shall be installed in the specified compartment(s).

COMPARTMENT LIGHTING

Two (2) Code 3 800 Series LED lights shall be installed in the specified compartment(s).

LIGHTING

The specified compartment shall have no compartment lighting.

LIGHTING

The specified compartment shall have no compartment lighting.

COMPARTMENT LIGHTING

The specified compartment shall have two (2) vertical Code 3 800 series lights installed.

COMPARTMENT LIGHTING

The specified compartment shall have two vertical Code 3 800 series lights installed.

COMPARTMENT LIGHTING

The specified compartment shall have two (2) vertical and one (1) horizontal Code 3 800 series lights installed.

COMPARTMENT LIGHTING

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COMPARTMENT LIGHTING

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COMPARTMENT LIGHTING

The specified compartment shall have two (2) vertical and one (1) horizontal Code 3 800 series lights installed.

DOOR AJAR SENSOR

The Specified door(s) shall feature a magnetic proximity switch to indicate when the compartment door is ajar.

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DOOR OPEN WARNING LIGHT

The door ajar warning system shall be separated into four zones, a Front, Left, Right, and Rear zone. Each zone shall have an individually labeled warning light and also activate an audible alarm. The door ajar lights and audible alarm shall activate only when the apparatus parking brake has been released.

RADIO ANTENNA INSTALLATION

There shall be four (4) radio antenna installed on the apparatus and routed to the cab center console.

RADIO PRE-WIRE

There shall be a radio pre-wire provided in the cab center console. The prewire shall consist of a battery hot, battery switched, and a ground source.

12 VOLT POWER SOURCE

There shall be two (2) 12 volt plug-in utility power connection(s) rated at 20 amps provided and installed in the cab console.

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There shall be two (2) 12 volt plug-in utility power connection(s) rated at 20 amps provided and installed in the cab console.

USB CHARGING PORT

Two (2) USB charging port(s) shall be installed in the cab of the truck for the fire departments accessory devices. The USB charging port shall have two (2) USB connections and one USB-C connection.

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Two (2) USB charging port(s) shall be installed in the cab of the truck for the fire departments accessory devices. The USB charging port shall have two (2) USB connections and one USB-C connection.

The specified power source shall be wired to the switched battery circuit.

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BACK UP ALARM

One (1) solid state back up alarm shall be provided at the rear of the apparatus. The back up alarm shall be wired to the reverse circuit of the transmission, and shall provide an audible alarm to the rear of the apparatus when reverse gear is selected. The alarm shall have a volume of 87 to 112 db while in operation.

130° CAMERA WITH 18 INFRARED ILLUMINATORS & 7" DIGITAL MONITOR

A Fire Research inView™ TrueSight™ model BCA111-A00 kit shall include: (1) one 130° camera with 18 infrared illuminators and (1) one 7" digital monitor.

The 130° Camera shall include the following features: ⅓" SONY® Color CCD Sensor, 250,000 pixels for Picture Elements and Gamma Correction with R=0.45 to 1.0. Camera shall have Mirror Image capability. (1) One 66 ft. Extension Cable shall be included for the camera. (1) One Screw Kit shall be provided for camera installation. The camera shall have a built-in high gain microphone. The Image Sensor shall provide 600 TV Lines PAL: 500(H) *582(V), NTSC: 510(H) *492(V). The 2.1MM Lens shall have a 130° Viewing Angle. The Waterproof rating shall be IP69K. The 130° Camera shall include an Internal Synchronization Sync System. Infrared Distance shall be 50 Ft. (18 Infrared IR). The Usable Illumination shall be 0 Lux (with IR ON). The Power Source shall be DC 12V (+/-10%). Signal-to-Noise ratio (S/N Ratio) shall be rated for higher than 48DB. The Electronic Iris rating shall be 1/50, 1/60-1/100,000 seconds. Video Output rating shall be 1VP.P 75 Ω. The IR Switch Control shall have a CDS Automatic Control. Vibration and Impact Rating shall be 20G/100G. The Operating and Storage Temperature ratings both shall be -40°F ~ +176°F / RH 95% Max.

The model BCA111-A00 kit shall also include (1) one **7" TFT LCD Digital Color Monitor**.
The specifications shall be as follows for the monitor:

- Dot Resolution: 800 x 3 (RGB) x 480

- Display Format/Contrast: 16:9 / 500:1
- Display Brightness: 400 CD/m^2
- Viewing Angle: U:50° D:60° L/R:70°
- 3 Channel Video Input
- 1 VP-P, 75Ω
- Power Supply – DC 12V-24V (+/-10%)
- Power Consumption – 5W
- Operating Temperature: -22°F ~ +176°F
- Video System: Auto NTSC/PAL
- Overall Dimensions: 7" (L) x 5" (H) x 1" (D)
- Weight: 400G
- Vibration Rating: 5G
- Dot Pitch: 0.192 (H) x 0.1805 (V)
- Internal Sync System

HEADLIGHT FLASHER

The headlights shall be set to alternate flash (Wig-Wag).

The wig wag shall be triggered by the siren controller slide switch position 3.

ELECTRONIC SIREN

A Whelen CenCom Core C399 electric siren and lighting control module shall be installed.

WHELEN CORE CONTROL HEAD

There shall be a Whelen model CCTL6 control head supplied with the Cencom Core system. It features a 3 section control head, with 8 push buttons, 4- position slide switch with a 7 position rotary knob. A manual siren and air horn button, and 3 traffic advisor control buttons.

WHELEN CORE WECANX TRAFFIC ADVISOR MODULE

There shall be a Whelen model CTA Traffic Advisor module interfaced with the Cencom Core system.

SIREN SPEAKER

One (1) Whelen Model #SA315P siren speaker shall be provided. The 100 watt siren speaker shall be designed in a black nylon composite housing with 123 decibel rating.

UPPER ZONE A-LIGHTBAR

There shall be a Whelen Cenator lightbar provided and installed on the apparatus. The lightbar shall feature the WeCan-X CAN based communication system, with single color light heads, and shall be 60" wide.

The lightbar shall feature the following layout.

- 4 (four) single color corner modules
- 6 (five) forward facing single color Con3 LED modules
- 2 (two) forward facing white Con3 LED modules

ZONE A -- LOWER FRONT WARNING LIGHTS

Two (2) Whelen M6 Series Model # M6R warning light shall be provided. The warning light shall incorporate Linear Super-LED® and Smart LED® technology. The M6R configuration shall consist of 18 red Super-LEDs and a red optic polycarbonate lens.

The lens/reflector assembly shall be sealed and resistant to water, moisture, dust, and other environmental conditions. The hard coated lens shall provide extended life/luster protection against UV and chemical stresses.

ZONE B AND D -- INTERSECTION WARNING LIGHTS

Two (2) Whelen M6R" warning lights shall be installed. The warning lights shall be installed in lower cab, one (1) each side, as far forward as possible. The warning light shall incorporate Linear-Super LED and Smart LED technology. The light head shall have six (6) red Super-LEDs with a red non-optic polycarbonate lens for maximum light spread. The light head assembly shall have internal flasher eleven (11) Scan-Lock flash patterns, including steady burn and synchronize power functions.

ZONE B AND D -- LOWER MID BODY WARNING LIGHTS

Two (2) Whelen M6R warning lights shall be installed. The warning lights shall be located one (1) each side, lower mid body. The warning lights shall incorporate Linear-Super LED and Smart LED technology. The light heads shall have six (6) red Super-LEDs with a red non-optic polycarbonate lens for maximum light spread. The light head assemblies shall have internal flasher eleven (11) Scan-Lock flash patterns, including steady burn and synchronize power functions. The lights shall have red lens and chrome plastic bezels.

ZONE B AND D -- UPPER SIDE REAR WARNING LIGHTS

Two (2) Whelen M6 Series Model # M6R warning lights shall be provided. The warning lights shall be located one (1) each side high on the body, as far rearward as possible. The warning lights shall incorporate Linear Super-LED® and Smart LED® technology. The M6R configuration shall consist of 18 red Super-LEDs and a red optic polycarbonate lens and chrome plastic bezels.

The lens/reflector assembly shall be sealed and resistant to water, moisture, dust, and other environmental conditions. The hard coated lens shall provide extended life/luster protection against UV and chemical stresses.

ZONE C -- UPPER REAR WARNING LIGHTS

Two (2) Whelen M6 Series Model # M6R warning lights be provided. The warning lights shall be located one (1) each side on the tail panels. The warning lights shall incorporate Linear Super-LED® and Smart LED® technology. The M6R configuration shall consist of 18 red Super-LEDs and a red optic polycarbonate lens and chrome plastic bezels.
The lens/reflector assembly shall be sealed and resistant to water, moisture, dust, and other environmental conditions. The hard coated lens shall provide extended life / luster protection against UV and chemical stresses.

ZONE C -- LOWER REAR WARNING LIGHTS

Two (2) Whelen M6 Series Model # M6R warning lights be provided. The warning lights shall be located one (1) each side on the tail panels. The warning lights shall incorporate Linear Super-LED® and Smart LED® technology. The M6R configuration shall consist of 18 red Super-LEDs and a red optic polycarbonate lens and chrome plastic bezels.
The lens/reflector assembly shall be sealed and resistant to water, moisture, dust, and other environmental conditions. The hard coated lens shall provide extended life / luster protection against UV and chemical stresses.

REAR TRAFFIC ADVISOR, EIGHT (8) L.E.D. LAMPS

A Whelen TAZ86 eight lamp LINZ6 Super-LED Traffic Advisor with all amber lights shall be provided and mounted at the rear of the body. The solid state traffic advisor shall include model TACTL5 control head, or it can be directly connected to a Whelen CenCon Siren Head Controller.

PAINT CODES/COLORS

The apparatus shall be painted the following color(s).

Freightliner L2978EB White.

BODY PAINTING SPECIFICATIONS

All exposed surfaces shall be prepared and painted using a multi-step process to ensure a blemish-free, protective coating for the base metal materials.

All removable items, such as brackets and compartment doors, shall be removed and painted separately to insure finish paint behind them after they are reinstalled.

Due to its modular design, the apparatus body shall be completely finish painted prior to its installation on the chassis.

The body shall be sanded, and cleaned. Any imperfections or defects in the metal shall be corrected with

premium body filler and then sanded smooth.

An epoxy primer shall be utilized on all painted and coated surfaces and shall prepare the metal for the final paint. The direct-to-metal primer shall be used to create a first level seal allowing secure adhesion between the base metal and the subsequent substrates.

All body and components shall then be primed, thoroughly sanded, and meticulously inspected for any imperfections; which shall be properly corrected..

All surfaces shall then be painted with a base coat of premium paint following the guidelines as established by the paint manufacturer. The body shall be painted using a single color to match the cab primary color, and then shall be buffed to a high gloss finish.

INTERIOR COMPARTMENT FINISH

The interior wall, floor and ceiling surfaces of compartments shall be finished with Rust-Oleum brand Multispec color flecked paint.

The specified compartment(s) shall be coated with Black/Black colored Multi-Spec paint.

The specified compartment(s) shall be coated with Black/Black colored Multi-Spec paint.

The specified compartment(s) shall be coated with Gray Stone colored Multi-Spec paint.

TOUCH-UP PAINT

Touch-up paint shall be furnished with the completed truck at final delivery.

VALVE PAINTING

All exposed valves shall be painted to match the color of the exterior body.

The specified part shall be powder coated gloss black.

The front bumper platform shall be bare embossed aluminum diamond plate.

Specified part shall include Red and White DOT approved reflective striping.

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Specified part shall include White reflective striping.

The BME plaque shall feature white reflective material on the outside of the Maltese cross and red reflective material in the middle.

COMPARTMENT DOOR EDGE STRIPING

The hinged compartment doors shall have reflective striping applied on the edges. The stripe shall be a 1-1/2" minimum in width.

COMPARTMENT DOOR EDGE STRIPING

The hinged compartment doors shall have reflective striping applied on the edges. The stripe shall be a 1-1/2" minimum in width.

The roll out slide tray and or trays shall have reflective striping applied horizontally on the front and side edges of the tray. The stripe shall be a 1-1/2" minimum in width.

GOLD STRIPING PACKAGE

Examples of graphics that can be covered under this package:

- Custom reflective stripe, full rear chevron, front bumper chevron, (2) door shields, (2) large graphics, (2) large lettering, (2) medium letterings, (5) identifiers, all reflective, layering, sharp/skinny lettering force lamination.
- Chose this package if any real gold is to be purchased

EXTENSION LADDER

One (1) Duo-Safety, 20 foot, three-section aluminum extension ladder shall be provided on the apparatus. The ladder shall meet or exceed latest NFPA standards.

SUCTION HOSE

There shall be **NO** suction hose supplied on the apparatus.

WHEEL CHOCKS

Two (2) Worden brand, Model #HWC-7WH wheel chocks shall be provided.

5# DRY CHEMICAL FIRE EXTINGUISHER

One (1) 5# ABC dry chemical fire extinguisher and mounting bracket shall be provided on the apparatus. The extinguisher shall have a pressure gauge and shall be filled with a dry chemical extinguishing agent.

HYDRAULIC JACK

One (1) hydraulic jack shall be provided. The jack shall be designed for lifting capacity of twelve (12) tons.

LUG WRENCH

There shall be one (1) lug wrench provided and shipped loose with the completed apparatus.

REFLECTOR

A set of three (3) triangular reflectors shall be provided.

ATTACHMENT A
TEXAS A&M FOREST SERVICE
TERMS AND CONDITIONS

1. BIDDING REQUIREMENTS

1.1 Bidders must comply with all rules, regulations and statutes relating to purchasing in the State of Texas in addition to the requirements of this form.

1.2 Bidders must price per unit shown. Unit prices shall govern in the event of extension errors.

1.3 Bids should be submitted on this form. Any alternations to the original format and content of this form will result in the disqualification of bid.

1.4 Late and/or unsigned bids will not be considered under any circumstances. Person signing bid must have the authority to bind the firm in a contract.

1.5 Quote F.O.B. destination, freight prepaid and allowed unless otherwise stated within the specifications.

1.6 Bid prices are requested to be firm for TFS acceptance for 60 days from opening date. Cash discounts are not considered in determining an award. Cash discounts offered will be taken if earned.

1.7 Bids should give Payee ID Number, full firm name and address of bidder on the face of this form. Enter in the space provided, if not shown. The Payee ID Number is the taxpayer number assigned and used by the Comptroller of Public Accounts of Texas.

1.8 Bid cannot be altered or amended after opening time. Any alterations made before opening time should be initialed by bidder or his authorized agent. No bid can be withdrawn after opening time without approval by TFS Purchasing Office based on a written acceptable reason.

1.9 Purchases made for TFS are exempt from the State Sales tax and Federal Excise tax. Do not include tax in quotation. Excise Tax Exemption Certificate will be furnished by TFS upon request.

1.10 TFS reserves the right to accept or reject all or any part of any bid, waive minor technicalities and award the bid to best serve the interests of the TFS.

1.11 The telephone number for FAX submission of bid is (979) 458-7387. This is the only number that will be used for the receipt of bids. TFS shall not be responsible for failure of electronic equipment or operator error. Late, illegible, incomplete, or otherwise non-responsive bids will not be considered.

2. SPECIFICATIONS

2.1 Catalogs, brand names or manufacture's references are descriptive only, and indicate type and quality desired. Bids on brands of like nature and quality will be considered, unless advertised as a Proprietary Purchase in accordance with TAMU Procurement Code Section 1 (b) and TFS Purchasing Procedures, Section 4.13. If bidding on other than references, bid should show manufacturer, brand or trade name, and other description of product offered. If other than brand(s) specified is offered, illustrations and complete description of product offered is requested to be made part of the bid. Failure to take exception to specifications/reference data will require bidder to furnish specified brand names, numbers, etc.

2.2 Unless otherwise specified, items shall be new and unused and of current production.

2.3 All electrical items must meet all applicable OSHA standards and regulations, and bear the appropriate listing from UL, FMRC or NEMA.

2.4 Samples, when requested, must be furnished free of expense to TFS. If not destroyed in examination, they will be returned to the bidder, upon request, at bidder's expense. Each sample should be marked with bidder's name and address, and Purchase Order number. Do not enclose in or attach bid to sample.

2.5 TFS will not be bound by any oral statement or representation contrary to the written specifications of this Invitation For Bid (IFB).

2.6 Manufacturer's standard warranty shall apply unless otherwise stated in the IFB.

3. TIE BIDS

Awards will be made in accordance with TAC Rule 20.36 (b) (3) and 20.38 (preferences).

4. DELIVERY

4.1 Show number of days required to place material in receiving agency's designated location under normal conditions. Delivery days mean calendar days, unless otherwise specified. Failure to state delivery time obligates bidder to deliver in 14 calendar days. Unrealistic delivery promises may cause bid to be disregarded.

4.2 If delay is foreseen, vendor shall give written notice to TFS. Vendor must keep TFS advised at all times of order status. Default of promised delivery (without accepted reasons) or failure to meet specifications authorizes TFS to purchase supplies elsewhere and charge full increase, if any, in cost and handling to defaulting vendor.

4.3 No substitutions permitted without TFS written approval.

4.4 Delivery shall be made during normal working hours only, unless prior approval has been obtained from TFS.

4.5 Each shipment must be accompanied by a packing slip which shows the TFS Purchase Order number and the description, quantity shipped and any back-ordered quantity for each item shipped. Each package must be clearly marked with the destination address and TFS Purchase Order number.

5. INSPECTION AND TESTS

All goods will be subject to inspection and test by TFS. Authorized TFS personnel shall have access to any supplier's place of business for the purpose of inspecting merchandise. Tests shall be performed on samples submitted with the bid or on samples taken from regular shipment. All costs shall be borne by the vendor in the event products tested fail to meet or exceed all conditions and requirements of the specification. Goods delivered and rejected in whole or in part may, at the TFS' option, will be returned to the vendor or held for disposition at vendor's expense. Latent defects may result in revocation of acceptance.

6. AWARD OF CONTRACT AND FORCE MAJURE

A response to this IFB is an offer to contract based upon the terms, conditions and specifications contained herein. Bids do not become contracts until they are accepted through a TFS purchase order. The contract shall be governed, construed and interpreted under the laws of the State of Texas, and as same may be amended. Any legal actions must be filed in Brazos County, Texas. The TFS may grant relief from performance of the contract if the vendor is prevented from compliance and performance by the act of war, order of legal authority, act of God, or other unavoidable causes not attributed to the fault or negligence of the contractor. To obtain release on Force Majure, the vendor must file a written request to the TFS.

7. PAYMENT

Vendor shall submit one (1) copy of an itemized invoice showing TFS Purchase Order number. TFS will incur no penalty for late payment if made in 30 or fewer days from receipt of goods or services and an uncontested invoice. **TFS will not be liable for payment of invoices received six (6) or more months after receipt of goods/services.**

8. PATENTS OR COPYRIGHTS

Vendor agrees to protect the TFS from claims involving infringement of patents or copyrights.

9. VENDOR ASSIGNMENTS

Vendor hereby assigns to TFS any and all claims for overcharges associated with this contract arising under the antitrust laws of the United States 15 U.S.C.A. Section 1, et seq. (1973), and the antitrust laws of the State of Texas, TEX. Bus. & Comm. Code Ann. Sec. 15.01, et seq. (1967). Inquiries pertaining to quotation must give the quotation number and opening date.

10. BIDDER AFFIRMATION

Signing this bid with a false statement is a material breach of contract and shall void the submitted bid or any resulting contracts, and the bidder shall be removed from all bid lists. By signature hereon affixed, the bidder hereby certifies that:

10.1 The bidder has not given, offered to give, nor intends to give at any time hereafter any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to a public servant in connection with the submitted quotation.

10.2 The bidder is not currently delinquent in the payment of any franchise tax owed the State of Texas.

10.3 Neither the bidder nor the firm, corporation, partnership or institution represented by the bidder, or anyone acting for such firm, corporation or institution has violated the antitrust laws of this State, or the Federal Antitrust Laws, (see Section 9 above) nor communicated directly or indirectly the bid made to any competitor or any other person engaged in such line of business.

10.4 Pursuant to Section 2155.004(a) Government Code the bidder has not received compensation for participation in the preparation of the specification for this IFB.

10.5 Pursuant to Section 231.006 (d), Family Code, re: child support, the bidder certifies that the individual or business entity named in this bid is not ineligible to receive the specified payment and acknowledges that this contract may be terminated and payment may be withheld if this certification is inaccurate.

10.6 Pursuant to Section 2155.004(b) Government Code the bidder certifies that the individual or business entity name in this bid is not ineligible to receive the specified payment and acknowledges that this contract may be terminated and/or payment withheld if this certification is inaccurate.

10.7 The Contractor shall defend, indemnify, and hold harmless the State of Texas, all of its officers, agents and employees from and against all claims, actions, suits, demands, proceedings, costs, damages, and liabilities, arising out of, connected with, or resulting from any acts or omissions of contractor or any agent, employee, subcontractor, or supplier of contractor in the execution of performance of this contract.

10.8 Bidder agrees that any payment due under this contract will be applied towards eliminating any debt or delinquency, regardless of when it arises, including but not limited to delinquent taxes and child support that is owed to the State of Texas.

10.9 Bidder certifies that they are in compliance with section 669.003 of the Government Code, relating to contracting with executive head of a State agency. If section 669.003 applies, bidder will complete the following information in order for the bid to be evaluated:

Name of Former Executive: _____

Name of State Agency: _____

Date of Separation from State Agency: _____

Position with Bidder: _____

Date of Employment with Bidder: _____

10.10 Bidder agrees to comply with Government Code 2155.4441, pertaining to service contract use of products in the State of Texas.

10.11 Contractor understands that acceptance of funds under this contract acts as acceptance of the authority of the State Auditor's Office, or any successor agency, to conduct an audit or investigation in connection with those funds. Contractor further agrees to cooperate fully with the State Auditor's Office or its successor in the conduct of the audit or investigation, including providing all records requested. Contractor will ensure that this clause concerning the authority to audit funds received indirectly by subcontractors through Contractor and the requirement to cooperate is included in any subcontract it awards.

11. BUSINESS OWNERSHIP

Pursuant to Section 231.006 (c), Family Code, quotation must include name and Social Security Number of each person with at least 25% ownership of the business entity submitting the quotation. Bidders that have pre-registered this information on the TPASS Centralized Master Bidders List have satisfied the requirement. If not pre-registered, attach name & social security number for each person. Otherwise, information must be provided prior to award.

12. NOTE TO BIDDER

Any terms and conditions attached to a bid will not be considered. Such terms and conditions may result in disqualification of the bid.

13. ALTERNATIVE DISPUTE RESOLUTION

The dispute resolution process provided for in Chapter 2260 of the Texas Government Code shall be used, as further described herein, by Texas A&M Forest Service and the Contractor to attempt to resolve any claim for breach of contract made by the contractor:

(a) A contractor's claim for breach of this contract that the parties cannot resolve in the ordinary course of business shall be submitted to the negotiation process provided in Chapter 2260, subchapter B, of the Texas Government Code. To initiate the process, the contractor shall submit written notice, as required by subchapter B, to Travis Zamzow, Associate Director for Finance and Administration. Said notice shall specifically state the provisions of Chapter 2260, subchapter B, are being invoked. A copy of the notice shall be given to all other representatives of Texas A&M Forest Service and the contractor otherwise entitled to notice under the parties' contract. Compliance by the contractor with subchapter B is a condition precedent to the filing of a contested case proceeding under Chapter 2260, subchapter C, Texas Gov't Code.

(b) The contested case process provided in Chapter 2260, subchapter C, of the Texas Government Code is the contractor's sole and exclusive process for seeking a remedy for any and all alleged breaches of contract by Texas A&M Forest Service, if the parties are unable to resolve their disputes under this subparagraph (A).

(c) Compliance with the contested case process provided in subchapter C is a condition precedent to seeking consent to sue from the Legislature under Chapter 107 of the Civil Practices and Remedies Code. Neither the execution of this contract by Texas A&M Forest Service nor any other conduct of any representative of Texas A&M Forest Service relating to the contract shall be considered a waiver of sovereign immunity to suit.

(1) The submission, processing, and resolution of the contractor's claim is governed by the published rules adopted by the Office of the Attorney General of the State of Texas pursuant to Chapter 2260, as currently effective, hereafter enacted or subsequently amended. These rules are found under Title 1, Part 3, Chapter 68 of the TAC.

(2) Neither the occurrence of an event nor the pendency of a claim constitutes grounds for the suspension of performance by the contractor, in whole or in part.

(3) The designated individual responsible on behalf of Texas A&M Forest Service for examining any claim or counterclaim and conducting any negotiations related thereto as required under Title 10, Subchapter B, Section 2260.052 of the Texas Government Code shall be Travis Zamzow, Associate Director for Finance and Administration (979) 458-7300.

14. PUBLIC DISCLOSURE

(a) Bidder acknowledges that Texas A&M Forest Service is obligated to strictly comply with the Public Information Act, Chapter 552, *Texas Government Code*, in responding to any request for public information pertaining to this Agreement, as well as any other disclosure of information required by applicable Texas law.

(b) Upon Texas A&M Forest Service's written request, bidder will provide specified public information exchanged or created under this Agreement that is not otherwise excepted from disclosure under chapter 552, Texas Government Code, to Texas A&M Forest Service in a non-proprietary format acceptable to Texas A&M Forest Service. As used in this provision, "public information" has the meaning assigned Section 552.002, *Texas Government Code*, but only includes information to which Texas A&M Forest Service has a right of access.

(c) Bidder acknowledges that Texas A&M Forest Service may be required to post a copy of the fully executed Agreement on its internet website in compliance with Section 2261.253(a)(1), *Texas Government Code*.

15. REHAB ACT, VEVRAA, SECTION 503

This contractor and subcontractor shall abide by the requirements of 41 CFR §§ 60-1.4(a), 60-300.5(a) and 60-741.5(a). These regulations prohibit discrimination against qualified individuals based on their status as protected veterans or individuals with disabilities, and prohibit discrimination against all individuals based on their race, color, religion, sex, or national origin. Moreover, these regulations require that covered prime contractors and subcontractors take affirmative action to employ and advance in employment individuals without regard to race, color, religion, sex, national origin, protected veteran status or disability.

ATTACHMENT A
TEXAS A&M FOREST SERVICE
TERMS AND CONDITIONS

16. **Conflict of Interest.** By executing this Agreement, Contractor and each person signing on behalf of Contractor certifies, and in the case of a sole proprietorship, partnership or corporation, each party thereto certifies as to its own organization, that to the best of their knowledge and belief, no member of The A&M System or The A&M System Board of Regents, nor any employee, or person, whose salary is payable in whole or in part by The A&M System, has direct or indirect financial interest in the award of this Agreement, or in the services to which this Agreement relates, or in any of the profits, real or potential, thereof.
17. **Prohibition on Contracts with Companies Boycotting Israel.** Prohibition on Contracts with Companies Boycotting Israel. To the extent that Texas Government Code, Chapter 2270 applies to this Agreement, PROVIDER certifies that (a) it does not currently boycott Israel; and (b) it will not boycott Israel during the term of this Agreement. PROVIDER acknowledges this Agreement may be terminated and payment withheld if this certification is inaccurate.
18. **Certification Regarding Business with Certain Countries and Organizations.** Pursuant to Subchapter F, Chapter 2252, Texas Government Code, Contractor certifies it is not engaged in business with Iran, Sudan, or a foreign terrorist organization. Contractor acknowledges this Agreement may be terminated if this certification is inaccurate.
19. **Prohibition on Contracts Related to Persons Involved in Human Trafficking.** Under Section 2155.0061, Government Code, the Contractor certifies that the individual or business entity named in this Agreement is not ineligible to receive the specified contract and acknowledges that this contract may be terminated and payment withheld if this certification is inaccurate.