

# BME Fire Trucks LLC

One (1) == BME, WUI "Big Horn" - 2.810 09/05/24 ==

Y\_\_N\_\_

One (1) Commercial Wildland, Single Axle, WUI, "Big Horn"  
00-00-1217

Y\_\_N\_\_



# FIRE TRUCKS

# BME Fire Trucks LLC

## TYPE 2 "BIG HORN"

One (1)  
00-15-1110

Certificate, Weight/Tilt Angle, NFPA (BME)

Y\_\_N\_\_

### 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.

One (1)  
00-20-1310

Performance Testing, Electrical, 12 Volt (BME)

Y\_\_N\_\_

### 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

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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

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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.

One (1)  
00-21-9100

Test Results, Vehicle (BME)

Y\_\_N\_\_

## **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.

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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.

One (1)  
00-55-1010

Delivery, Dealer Arranged

Y\_\_N\_\_

## 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.

One (1)  
00-65-1020

Warranty, General Provisions, 1 Year (BME)

Y\_\_N\_\_

## 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

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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.

One (1)  
00-65-2100

Material and Workmanship Rqmts (BME)

Y\_\_N\_\_

## **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.

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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.

One (1)  
00-66-1115

Warranty, Body & Structural, 10 Yrs (BME)

Y\_\_N\_\_

## **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.

One (1)  
00-67-1410

Pump Warranty, Darley, 3 years

Y\_\_N\_\_

## **DARLEY FIRE PUMP WARRANTY**

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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.

One (1)  
00-67-1620

Plumbing Warranty, 10 Years, Stainless Steel

Y\_\_N\_\_

## 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.

One (1)  
00-67-1800

Valve Warranty, Akron, 5 Years

Y\_\_N\_\_

## 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.

One (1)  
00-68-1101

Warranty, Water Tank, Poly, Lifetime

Y\_\_N\_\_

## 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.

One (1)  
00-68-2110

Warranty, Foam Tank, Poly, Lifetime

Y\_\_N\_\_

## 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.

One (1)  
00-69-5210

Warranty, Paint, 7 yrs (BME)

Y\_\_N\_\_

## PAINT WARRANTY

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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.

One (1)  
00-70-1055

Warranty, Chassis, General (BME)

Y\_\_N\_\_

## **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.

Two (2)  
00-75-1405

Manuals, Apparatus Complete Electronic, USB

Y\_\_N\_\_

## **APPARATUS OPERATION MANUAL(S)**

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

One (1)  
01-40-1225

F-L M2 106 +, 360 HP, 4 Door, Single Axle, 4x4, #43,000, "Big Horn"

Y\_\_N\_\_

## **CHASSIS SPECIFICATIONS**

M2 106 plus conventional chassis

Set back axle - truck

### **General service**

Fire service

Expected front axle(s) load : 12000.0 lbs

Expected rear drive axle(s) load : 31000.0 lbs

Expected gross vehicle weight capacity : 43000.0 lbs

### **Engine**

Cum 19 360ev hp @ 2200 rpm, 2200 gov rpm, 1150 lb-ft @ 1200 rpm, r/f/e

### **Engine equipment**

12v 325 amp blp4002h brushless pad alternator

(3) dtna genuine, flooded starting, min 2850cca, 525rc, threaded stud batteries

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Rh outboard under step mounted horizontal aftertreatment system assembly with rh horizontal tailpipe

6 gallon diesel exhaust fluid tank

100 percent diesel exhaust fluid fill

Delco 12v 39mt hd/ocp starter with thermal protection and integrated magnetic switch

## **Transmission**

Allison 3000 evs automatic transmission with pto provision

Meritor mtc 4210xl-ec 2-speed transfer case

## **Front axle and equipment**

Mx-12-120-evo 12,000# 1790mm kpi single front drive axle

## **Front suspension**

12,000# dual taperleaf front suspension

Maintenance free rubber bushings - front suspension

Front shock absorbers

## **Rear axle and equipment**

Rs-30-185 31,000# u-series fire/emergency service single rear axle

## **Rear suspension**

31,000# flat leaf spring rear suspension with helper and radius rod for fire/emergency service

Spring suspension - no axle spacers

## **Brake system**

Air brake package

Wabco 4s/4m abs with traction control with atc shut off switch

## **Wheelbase & frame**

5275mm (208 inch) wheelbase

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## **Fuel tanks**

70 gallon/264 liter aluminum fuel tank - lh

## **Tires**

12r22.5 16 ply radial front tires

315/80r22.5 20 ply radial rear tires

## **Wheels**

Alcoa ula18x 22.5x8.25 10-hub pilot 5.81 inset aluminum disc front wheels

Alcoa ultra one 89u64x 22.5x9.00 10-hub pilot 5.99 inset aluminum rear wheels

Polished front wheels; outside only

Polished rear wheels; outside of outer wheels only

## **Cab exterior**

Door mounted mirrors

102 inch equipment width

Lh and rh 8 inch bright finish convex mirrors mounted under primary mirrors

2 gallon windshield washer reservoir with fluid level indicator, frame mounted

## **Cab interior**

Rugged trim package

Molded plastic door panel

Molded plastic door panel

Black mats with single insulation

Forward roof mounted console

Lh and rh door storage pockets integrated into molded door panels

Heater, defroster and air conditioner

Standard hvac ducting

12v negative ground electrical system

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Premium led cab lighting

High visibility orange seat belts with driver indicator light and audible alarm

Adjustable tilt and telescoping steering column

4-spoke 18 inch (450mm) black steering wheel with switches

Driver and passenger interior sun visors

## **Instruments & controls**

Low air pressure indicator light and audible alarm with (1) additional park switch for customer use

Electronic cruise control with controls on steering wheel spokes

Electronic mph speedometer with secondary kph scale, without odometer

Standard vehicle speed sensor

Electronic 3000 rpm tachometer

Self canceling turn signal switch with dimmer, headlamp flash, wash/wipe/intermittent

Integral electronic turn signal flasher with 40 amp (20 amp per side) trailer lamp capacity

## **Design**

Paint: one solid color

49B-004 Electronic Stability Control

One (1)  
02-71-1100

Label, Seating Number, Cab

Y\_\_N\_\_

## **CAB SEATING AND WEIGHT ALLOWANCE**

A warning label shall be installed in the cab to indicate seating positions.  
Labels, Standard Package Set

One (1)  
02-71-3100

Y\_\_N\_\_

## **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.

One (1)

Label, Data, Fluid Levels

Y\_\_N\_\_

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02-71-3110

## 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

One (1)  
02-71-3115

Label, Data, Pump Performance

Y\_\_N\_\_

## 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

One (1)  
02-71-3300

Label, Data, "No Ride" Rear Step (LEXAN)

Y\_\_N\_\_

## 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

One (1)  
02-71-3501

Label, Safety, FAMA07 Seat Belt Warning

Y\_\_N\_\_

## WARNING LABEL -- OCCUPANT SEATED AND BELTED

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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."

One (1)  
02-71-3511

Label, Safety, FAMA42, Siren Noise

Y\_\_N\_\_

## **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."

One (1)  
02-71-3512

Label, Safety, FAMA43, Helmet Worn In Cab

Y\_\_N\_\_

## **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."

One (1)  
02-71-3750

Label, Off Set Reciever Hitch, Not For Towing

Y\_\_N\_\_

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

One (1)  
02-71-3900

Label, Ember Separator

Y\_\_N\_\_

## **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"

One (1)  
02-71-3910

Label, Ember Separator, Fresh Air

Y\_\_N\_\_

## **FRESH AIR EMBER SEPARATOR WARNING LABEL**

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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"  
Plaque, BME (1)

One (1)  
02-71-4110

Y\_\_N\_\_

## MANUFACTURER LOGO

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

One (1)  
02-72-4400

Tow Eye Plate, Front, Painted (Durabak) M34 - style

Y\_\_N\_\_

## FRONT TOW PLATE

A horizontal full frame width, 3/4-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, Off Center

One (1)  
02-72-5105

Y\_\_N\_\_

## 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.

One (1)  
02-72-8305

Towing Provision, Rear Under Body Bustle, WUI, Job Color

Y\_\_N\_\_

## REAR BUSTLE

A horizontal full frame width, 5/8-inch thick steel plate, center pull, rear tow eye shall be furnished and installed below the rear step. 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 damage to the frame rails, bumper or apparatus body while being towed from various angles, and shall be designed as to not interfere with angle of departure.

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One (1)  
02-73-1220

The rear bustle shall be painted or powdercoated to match job color  
Bumper Platform, 16", .125" Alum

Y\_\_N\_\_

## **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.

One (1)  
02-73-1240

Bumper Extension, 16", Frame Rails

Y\_\_N\_\_

## **FRONT FRAME EXTENSION**

The front frame rails shall be extended 16" ahead of the cab grill or fender area.  
Bumper Cmpt, Driver, Hose Stge Compartment

One (1)  
02-73-2305

Y\_\_N\_\_

## **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.

One (1)  
02-73-3305

Bumper Cmpt, Center, Hose Stge Compartment

Y\_\_N\_\_

## **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.

One (1)  
02-73-4305

Bumper Cmpt, Psngr, Hose Stge Compartment

Y\_\_N\_\_

## **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.

One (1)  
02-73-6100

Bumper Cmpt, Door, Alum, NFPA T/P, Embossed

Y\_\_N\_\_

## **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.

One (1)  
02-73-6600

Bumper Cmpt, Nylon Straps W/Buckles, (1) per Cmpt

Y\_\_N\_\_

## **BUMPER COMPARTMENT NYLON HOLD DOWN STRAP**

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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.

One (1)  
02-73-6600 Bumper Cmpt, Nylon Straps W/Buckles, (1) per Cmpt

Y\_\_N\_\_

## **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.

One (1)  
02-73-8005 Bumper, International, 15 degree

Y\_\_N\_\_

## **BUMPER**

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

One (1)  
02-73-8006 Bumper, Swivel Elbow Stopper

Y\_\_N\_\_

## **BUMPER DISCHARGE SWIVEL STOPPER**

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

One (1)  
02-73-8008 Bumper, Side Bumper Wings

Y\_\_N\_\_

## **BUMPER SIDE WINGS**

The bumper shall have steel side wings.

One (1)  
02-73-9701 Front Bumper, Color, Job Color

Y\_\_N\_\_

## **FRONT BUMPER COLOR**

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

One (1)  
02-73-9710 Front Bumper, Wings, Color, Job Color

Y\_\_N\_\_

## **FRONT BUMPER WINGS COLOR**

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

One (1)  
02-74-1550 Air Horn, (1)

Y\_\_N\_\_

## **AIR HORN**

One (1) Chrome air horn shall be provided and installed on the apparatus.

One (1)  
02-74-2200 Air Horn, Control, Driver, Single Foot Switch

Y\_\_N\_\_

## **AIR HORN FOOT SWITCH**

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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.

One (1)  
02-76-1300

Exhaust Heat Shield, Under Body Compartments

Y\_\_N\_\_

## **EXHAUST HEAT SHIELD**

The underside of the apparatus shall be provided with a heat shield. The heat shield shall be installed under the body in the areas where the exhaust system is routed.

One (1)  
02-76-1350

Exhaust, Heat Wrap

Y\_\_N\_\_

## **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.

One (1)  
02-77-1600

Bumper Box Protective Flaps, Black Rubber

Y\_\_N\_\_

## **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.

One (1)  
02-77-2200

Mud Flaps, Rear Wheels, Manufacturer Logo

Y\_\_N\_\_

## **REAR MUD FLAPS**

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

One (1)  
02-79-2160

Cab Step Compartment, Under Cab, Psngr, S.S., Double Door

Y\_\_N\_\_

## **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.

One (1)  
02-79-3100

Slide Tray, 250#, Under Cab Compartment, S/S

Y\_\_N\_\_

## **SLIDE TRAY**

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

One (1)

Cab Steps, Extrd Diamond Back Alum, (4) Door

Y\_\_N\_\_

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02-79-4500

## CAB STEPS

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

One (1)  
02-80-1600

Cab Trim, Door, Reflective NFPA, 4 Door

Y\_\_N\_\_

## CAB DOOR REFLECTIVE PANELS

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

One (1)  
02-87-2705

Air Tank Relocation, Rear

Y\_\_N\_\_

## AIR TANK RELOCATION

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

One (1)  
02-88-2125

Chassis Batteries, Relocated, Psnger Side Under Rear Cab.

Y\_\_N\_\_

## 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.

Two (2)  
02-88-2500

Under hood Light, LED

Y\_\_N\_\_

## 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.

One (1)  
02-88-4100

Ember Separator, Screen, Installation, Chassis

Y\_\_N\_\_

## 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.

One (1)  
02-88-4200

Ember Separator, Screen, Installation, Fresh Air Cab

Y\_\_N\_\_

## 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.

One (1)  
02-88-4300

Ember Separator, Screen, Installation, Fire Pump Engine, Aux

Y\_\_N\_\_

## EMBER SEPARATOR

10052-0001

01/09/25

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

One (1)  
02-88-6115

NO--Aftermarket Tint, Cab Windows

Y\_\_N\_\_

## 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.

One (1)  
02-88-8100

Tire Pressure Monitoring System, Real Wheels

Y\_\_N\_\_

## 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.

One (1)  
07-20-1800

Pump Primer, Waterous, VAP Priming Valve

Y\_\_N\_\_

## PRIMING VALVE

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

One (1)  
08-10-5100

Pump, Darley, PSP 1000, 1/Stg, PTO

Y\_\_N\_\_

## FIRE PUMP SPECIFICATIONS

A Darley model PSP, 1000 GPM single stage 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

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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 impeller shaft oil seals shall carry a lifetime warranty against damage from corrosion from water and other fire-fighting fluids.

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.

One (1)  
08-15-1801

Pump, Darley, 1-1/2 AGE, 24HP Kubota D902 Diesel, "Bighorn"

Y\_\_N\_\_

## **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

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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.

One (1)  
08-20-5300

Dual Deluxe Plus Panels, Darley

Y\_\_N\_\_

### **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.

One (1)  
08-20-6005

Pump Primer, Darley, Elec

Y\_\_N\_\_

### **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.

One (1)  
10-01-1100

Pump Test, UL, NFPA 1901, 750 to 3000gpm

Y\_\_N\_\_

### **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.

One (1)  
10-02-1110

Pump Drive, PTO and Drivelines

Y\_\_N\_\_

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## 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.

One (1)  
10-03-1150

Intake-Relief Valve, Elkhart #40/40

Y\_\_N\_\_

## 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".

One (1)  
10-04-1120

Engine and Pump Cooler, Bypass-To-Tank

Y\_\_N\_\_

## 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".

One (1)  
10-06-1200

Pump Drain, Master-Low Point, Handwheel

Y\_\_N\_\_

## 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.

One (1)  
10-07-1105

Intake Valve Bleeder, South Park, W/O flange, Push-Pull

Y\_\_N\_\_

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

One (1)  
10-07-1105

Intake Valve Bleeder, South Park, W/O flange, Push-Pull

Y\_\_N\_\_

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One (1) 10-08-1205	The intake shall be equipped with a South Park Corp. 3/4" Push-pull type drain valve mounted to the bottom of the valve. Discharge Valve Bleeder, South Park, W/O flange, Push-Pull	Y__N__
Two (2) 10-08-1210	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. Discharge Valve Bleeder, Innovative Controls, 3/4", Side Stem	Y__N__
One (1) 10-08-1210	The discharge outlet shall be equipped with an Innovative Controls 3/4" bleeder assembly with side stem lever control. Discharge Valve Bleeder, Innovative Controls, 3/4", Side Stem	Y__N__
Two (2) 10-08-1210	The discharge outlet shall be equipped with an Innovative Controls 3/4" bleeder assembly with side stem lever control. Discharge Valve Bleeder, Innovative Controls, 3/4", Side Stem	Y__N__
One (1) 10-08-1210	The discharge outlet shall be equipped with an Innovative Controls 3/4" bleeder assembly with side stem lever control. Discharge Valve Bleeder, Innovative Controls, 3/4", Side Stem	Y__N__
One (1) 10-08-1210	The discharge outlet shall be equipped with an Innovative Controls 3/4" bleeder assembly with side stem lever control. Discharge Valve Bleeder, Innovative Controls, 3/4", Side Stem	Y__N__
One (1) 10-08-2005	The discharge outlet shall be equipped with an Innovative Controls 3/4" bleeder assembly with side stem lever control. Pump Shift, PTO, Stationary Pumping Only	Y__N__

**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.

One (1)	Piping, Stainless Steel, PTO	Y__N__
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10-09-1120

## 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.

One (1)  
10-09-1300

Piping, Stainless Steel, Auxiliary Pump

Y\_\_N\_\_

## 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.

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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) Valves, Akron, Brass, 8820 Series (Uses R1,TS or TSC Handles Only) Y\_\_N\_\_  
10-15-1115

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) Valves, Akron, Brass, 8820 Series (Uses R1,TS or TSC Handles Only) Y\_\_N\_\_  
10-15-1115

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) Valves, Akron, Brass, 8820 Series (Uses R1,TS or TSC Handles Only) Y\_\_N\_\_  
10-15-1115

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) Valves, Akron, Brass, 8825 Series (Uses R1,TS or TSC Handles Only) Y\_\_N\_\_  
10-15-1120

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.

One (1) Valves, Akron, Brass, 8825 Series (Uses R1,TS or TSC Handles Only) Y\_\_N\_\_  
10-15-1120

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.

Two (2) Valves, Akron, Brass, 8825 Series (Uses R1,TS or TSC Handles Only) Y\_\_N\_\_  
10-15-1120

Two (2) Akron 8825 series swing-out style valve(s) shall be supplied and

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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) Valves, Akron, Brass, 8825 Series (Uses R1,TS or TSC Handles Only) Y\_\_N\_\_  
10-15-1120

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.

One (1) Valves, Akron, Brass, 8620 Series (Electric Controller) Y\_\_N\_\_  
10-15-1150

One (1) Akron 8620 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) Valves, Akron, Brass, 8630 Series (Electric Controller) Y\_\_N\_\_  
10-15-1152

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) Valves, Akron, Brass, 8840 Series (Electric Controller) Y\_\_N\_\_  
10-15-1153

One (1) Akron 8840 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) Valves, Akron, Brass, 8810 Series, Innovative, P/P, W/Gauge Y\_\_N\_\_  
10-15-1305

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) Valves, Akron, Brass, 8820 Series, Innovative, P/P, W/Gauge Y\_\_N\_\_  
10-15-1315

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

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environments. All valves and controls shall be easily accessible for service, repair or replacement.

One (1)  
10-15-1320 Valves, Akron, Brass, 8825 Series, Innovative, P/P, W/Gauge Y\_\_N\_\_

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.

One (1)  
10-15-1700 Valves, Akron, Brass, 8820 Series, Isolation Valve Y\_\_N\_\_

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)  
10-20-0040 Valves, Direct, R1, Handle Y\_\_N\_\_

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

One (1)  
10-20-0060 Valve, Direct, Local Control, Akron TSC Y\_\_N\_\_

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

One (1)  
10-20-0060 Valve, Direct, Local Control, Akron TSC Y\_\_N\_\_

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

Two (2)  
10-20-0060 Valve, Direct, Local Control, Akron TSC Y\_\_N\_\_

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

One (1)  
10-20-0060 Valve, Direct, Local Control, Akron TSC Y\_\_N\_\_

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

One (1)  
10-20-0060 Valve, Direct, Local Control, Akron TSC Y\_\_N\_\_

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

One (1)  
10-20-0060 Valve, Direct, Local Control, Akron TSC Y\_\_N\_\_

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

One (1)  
10-20-0060 Valve, Direct, Local Control, Akron TSC Y\_\_N\_\_

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

One (1)  
10-20-1220

Pull Rod Valve Cntrl, Locking, Innovative Controls, W Gauge

Y\_\_N\_\_

For valve actuation, the specified discharge shall be equipped with a side mount valve control. The ergonomically designed 1/4 turn push-pull T-handle shall be chrome plated zinc with recessed labels for color coding and signage. The gear-control rod, double laminated locking clips, and rod housing shall be stainless steel and provide true positive lock that will eliminate valve drift. Bronze and Teflon impregnated stainless steel bushings in both ends of rod housing shall eliminate rod deflection, never need lubrication and ensure consistent long-term operation.

A 63 millimeter IC discharge pressure gauges (0-600 PSI) shall be provided.. The gauges will be located on the pump instrument panel.

Two (2)  
10-20-1220

Pull Rod Valve Cntrl, Locking, Innovative Controls, W Gauge

Y\_\_N\_\_

For valve actuation, the specified discharge shall be equipped with a side mount valve control. The ergonomically designed 1/4 turn push-pull T-handle shall be chrome plated zinc with recessed labels for color coding and signage. The gear-control rod, double laminated locking clips, and rod housing shall be stainless steel and provide true positive lock that will eliminate valve drift. Bronze and Teflon impregnated stainless steel bushings in both ends of rod housing shall eliminate rod deflection, never need lubrication and ensure consistent long-term operation.

A 63 millimeter IC discharge pressure gauges (0-600 PSI) shall be provided.. The gauges will be located on the pump instrument panel.

One (1)  
10-20-1220

Pull Rod Valve Cntrl, Locking, Innovative Controls, W Gauge

Y\_\_N\_\_

For valve actuation, the specified discharge shall be equipped with a side mount valve control. The ergonomically designed 1/4 turn push-pull T-handle shall be chrome plated zinc with recessed labels for color coding and signage. The gear-control rod, double laminated locking clips, and rod housing shall be stainless steel and provide true positive lock that will eliminate valve drift. Bronze and Teflon impregnated stainless steel bushings in both ends of rod housing shall eliminate rod deflection, never need lubrication and ensure consistent long-term operation.

A 63 millimeter IC discharge pressure gauges (0-600 PSI) shall be provided.. The gauges will be located on the pump instrument panel.

One (1)  
10-20-1225

Pull Rod Valve Cntrl, Locking, Innovative Controls

Y\_\_N\_\_

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For valve actuation, the specified discharge shall be equipped with a side mount valve control. The ergonomically designed 1/4 turn push-pull T-handle shall be chrome plated zinc with recessed labels for color coding and signage. The gear-control rod, double laminated locking clips, and rod housing shall be stainless steel and provide true positive lock that will eliminate valve drift. Bronze and Teflon impregnated stainless steel bushings in both ends of rod housing shall eliminate rod deflection, never need lubrication and ensure consistent long-term operation.

The control assembly shall include a decorative chrome-plated zinc panel mounted bezel with recessed color-coded label.

One (1) Elec Valve Cntrl, Akron, Navigator Pro 9333 Y\_\_N\_\_  
10-22-3110

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

One (1) Elec Valve Cntrl, Akron, Navigator Pro 9333 Y\_\_N\_\_  
10-22-3110

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

One (1) Elec Valve Cntrl, Akron, Navigator Pro 9333 Y\_\_N\_\_  
10-22-3110

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

One (1) Exhaust and Muffler, Aux Pump Y\_\_N\_\_  
10-80-2100

## AUXILIARY PUMP EXHAUST SYSTEM

The auxiliary fire pump and engine assembly shall have a muffler and exhaust pipe. The exhaust pipe shall be directed out of the compartment and away from the pump operator. An additional guard shall be installed where the pipe is exposed to touch by an operator.

One (1) Primer, Electric, Share with Main Pump, Aux Pump, Push Button Y\_\_N\_\_  
10-80-3115

## 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.

One (1) Fuel System, Plumbed to Chassis Fuel Tank Y\_\_N\_\_  
10-80-5300

## AUXILIARY FUEL SYSTEM

The fuel system for the auxiliary fire pump shall be plumbed to the chassis fuel

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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.

One (1)  
10-80-6100 Battery, 12V, From Chassis, Quick Disconnect

Y\_\_N\_\_

## **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.

One (1)  
10-81-6100 Plumbing, Piped to Main Fire Pump

Y\_\_N\_\_

## **AUXILIARY AND MAIN PUMP PLUMBING**

The auxiliary fire pump shall be plumbed to the main pump discharge.  
Auxiliary Pump, Oil Drain Extension

One (1)  
10-81-8400

Y\_\_N\_\_

## **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.

One (1)  
10-81-8800 Auxiliary Pump, Cover, ALDP

Y\_\_N\_\_

## **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.

One (1)  
11-01-1607 Intake, Ungated, 6", LH Side

Y\_\_N\_\_

## **6" UNGATED INTAKE -- LEFT SIDE**

One (1) 6" un gated 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.

One (1)  
11-01-2100 Intake, Gated, 2.5", LH Side

Y\_\_N\_\_

## **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.

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One (1) Intake, Ungated, 6", RH Side Y\_\_N\_\_  
11-02-1607

## 6" UNGATED INTAKE -- RIGHT SIDE

One (1) 6" un-gated suction intake shall be installed on the right 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.

One (1) Intake, Gated, 2.5", RH Side Y\_\_N\_\_  
11-02-3100

## 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) Plug, 2.5", Chrome Brass, Rocker Lug Y\_\_N\_\_  
11-07-1100

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) Plug, 2.5", Chrome Brass, Rocker Lug Y\_\_N\_\_  
11-07-1100

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) Cap, 6", Chrome Brass, Long Handle Y\_\_N\_\_  
11-07-5600

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

One (1) Cap, 6", Chrome Brass, Long Handle Y\_\_N\_\_  
11-07-5600

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

One (1) Tank-To-Pump, Water Tank, w/check valve, 4", Elec Y\_\_N\_\_  
11-10-2400

## WATER TANK SUPPLY LINE TO FIRE PUMP

A 4" water tank to pump line shall be installed with a 4" full flow quarter turn ball valve and 4" piping. The line shall be equipped with a hump hose with stainless steel hose clamps.

One (1) Tank-To-Pump, Water Tank, 2", Aux Pump, w/ chk vlve, Innovative, P/P Y\_\_N\_\_  
11-10-3110

## WATER TANK SUPPLY LINE TO AUX/PORTABLE FIRE PUMP

A 2" water tank to pump line shall be installed with a 2" full flow quarter turn ball valve and 2" piping. The line shall be equipped with a hump hose with stainless steel hose clamps and check valve to tank.

One (1) Pump-To-Tank, Water Tank, 2" (Elec) Y\_\_N\_\_  
11-20-1105

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## PUMP TO TANK

One (1) 2" pump to tank line shall be installed with a 2" full flow quarter turn electronically controlled ball valve and 2" piping.

Two (2)  
12-05-1215

Discharge, 2.5", LH Rearward, IC,

Y\_\_N\_\_

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

(2) 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.

One (1)  
12-06-1125

Discharge, 2.5", RH, Forward, IC, P/P

Y\_\_N\_\_

## 2-1/2" DISCHARGE RIGHT SIDE -- FORWARD PUMP PANEL

One (1) 2-1/2" discharge shall be installed on the right side forward 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.

One (1)  
12-06-3005

NO-- LDH Discharge

Y\_\_N\_\_

One (1)  
12-07-1100

Discharge, 2" x 1.5", Rear LH

Y\_\_N\_\_

## 2" DISCHARGE -- REAR LEFT

One (1) 2" discharge shall be installed on the rear left panel, controlled by a quarter turn ball valve. The discharge shall have 2" NPT x 1-1/2" NH male hose threads and nameplate label adjacent the valve control.

One (1)  
12-08-2100

Discharge, 2.5", Rear RH

Y\_\_N\_\_

## 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.

One (1)  
12-10-1075

Crosslay Discharge, 1-1/2", (2), Pump Panel, IC, Push-Pull, WUI

Y\_\_N\_\_

## 1-1/2" CROSSLAY DISCHARGE

There shall be two (2) pre-connect 1-1/2" hose cross lays installed over pump enclosure. The outlets shall be equipped with a 1-1/2" NPT female chicksan swivel x 1-1/2" male NH hose threads. The hose bed decking shall be constructed with a removable slatted material. The bed shall be approximately 8" wide, 14" deep, and 72" right to left over the pump enclosure area. The hose beds shall

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provide a minimum capacity of 200 feet of 1-3/4" diameter double jacket hose with nozzle provided by fire department.

One (1)  
12-10-1100

Swivel, Chicksan, 1-1/2", Cross Lay

Y\_\_N\_\_

The specified outlet(s) shall be equipped with a 1-1/2" NPT female chicksan swivel x 1-1/2" male NH hose threads.

Two (2)  
12-11-5150

Crosslay Cover, Alum T/P, Vinyl NFPA Ends

Y\_\_N\_\_

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.

One (1)  
12-11-6110

Crosslay Flared Edges, Both Sides

Y\_\_N\_\_

## 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.

Four (4)  
12-11-7310

Crosslay Flaps, Vinyl, Red

Y\_\_N\_\_

The specified crosslay/deadlay flaps shall be red.

One (1)  
12-13-1210

Bumper Dschrg, 2" Valve, 1-1/2" Front, Swivel, Left Side

Y\_\_N\_\_

## 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.

One (1)  
12-13-1310

Bumper Dschrg, 2" Valve, 1-1/2" Front, Swivel, Right Side

Y\_\_N\_\_

## 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.

One (1)  
12-13-1360

Discharge Isolation Vlv Cntrl, 2", Wildland,

Y\_\_N\_\_

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## 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.

One (1)  
12-21-1100 Elbow, 1.5"F x 1.5"M, Chrome Brass Y\_\_N\_\_

One (1) chrome plated brass 30 degree elbow with 1.5" swivel female NH x 1.5" male NH thread with rocker lugs shall be provided on the discharge.

One (1)  
12-21-1200 Elbow, 2.5"F x 2.5"M, Chrome Brass Y\_\_N\_\_

(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.

One (1)  
12-22-2100 Cap, 1.5", Rocker Lug, Chrome Brass, w/Chain Y\_\_N\_\_

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)  
12-22-2100 Cap, 1.5", Rocker Lug, Chrome Brass, w/Chain Y\_\_N\_\_

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)  
12-22-2100 Cap, 1.5", Rocker Lug, Chrome Brass, w/Chain Y\_\_N\_\_

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

Two (2)  
12-22-4100 Cap, 2.5", Rocker Lug, Chrome Brass, w/Chain Y\_\_N\_\_

Two (2) chrome brass 2.5" NH rocker lug cap with a securing chain or cable shall be installed on the discharge.

One (1)  
12-22-4100 Cap, 2.5", Rocker Lug, Chrome Brass, w/Chain Y\_\_N\_\_

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

One (1)  
12-22-4100 Cap, 2.5", Rocker Lug, Chrome Brass, w/Chain Y\_\_N\_\_

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

One (1)  
12-31-2220 Hose Reel, HANNAY, Elec Rewind, Alum, "Bighorn" Y\_\_N\_\_

## HOSE REEL

There shall be one (1) Hannay aluminum hose reel(s) shall be installed. The reel shall have leak proof ball bearing swing joint, adjustable friction brake, electric 12 volt rewind provisions. The reel shall be plumbed with wire reinforced,

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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.

One (1)  
12-31-3500

Mounting Hose Reel, LH Cab Step Area,

Y\_\_N\_\_

The reel shall be mounted in the left side cab step compartment. The frame work shall be painted or powder coated to match the chassis frame rails.

One (1)  
12-31-5150

Hose Reel Cover, Under Cab, ALDP Overlay.

Y\_\_N\_\_

## HOSE REEL COVER

There shall be an aluminum diamond plate cover installed over the hose reel. The cover shall be held in place with two thumb latches and shall be able to be removed and installed with the steps in place.

One (1)  
12-31-6125

Hose Reel Discharge w/Bleeder, 1" Valve and Flex-Hose, IC, P/P

Y\_\_N\_\_

## HOSE REEL DISCHARGE

One (1) 1" discharge shall be piped from the fire pump to the hose reel with flexible high pressure hose.

One (1)  
12-32-5005

NO--Nozzle Mounting

Y\_\_N\_\_

Monitor Discharge, 3", Over Midship Pump Enclosure, IC

One (1)  
12-40-3105

Y\_\_N\_\_

## MONITOR DISCHARGE

One (1) 3" monitor discharge shall be installed over the pump enclosure. The discharge shall be controlled by a slow close 3" quarter turn ball valve. The discharge shall terminated with 3" hose threads or Victaulic coupling.

One (1)  
12-43-1005

NO--Deck Gun Included

Y\_\_N\_\_

NO- Deck gun is included with this discharge.

One (1)  
13-10-1315

Foam System, FoamPro, 2001, 12V Elec, "Big Horn"

Y\_\_N\_\_

## FOAM SYSTEM

A FoamPro #2001 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.

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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 flow meter, 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 flow meter shall be installed in the discharge side of the piping system.

The control module shall enable the pump operator to:

1. Activate the foam proportioning system
2. Select the proportioning rates from 0.1% to 3.0%
3. Display a "Lo Con" warning 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.
4. Display the current flow rate of water or foam solution per minute.
5. Display the total amount of water or foam pumped (resetable).
6. Display the foam concentrate injection rate setting.

A 12 volt electric motor driven positive displacement plunger pump shall be provided. The pump capacity range shall be 0.1 to 2.6 GPM at 150 PSI with a maximum operating pressure up to 400 PSI. The system shall draw a maximum of 40 amps at 12 volts. The motor shall be controlled by the microprocessor which shall be mounted to the base of the pump. It shall receive signals from the control module and power the 1/2 horsepower 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 minimum 11 PSI opening pressure check valve shall be provided in concentrate line.

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

1. Operator control module
2. Paddlewheel flow meter
3. Pump and electric motor/motor driver
4. Wiring harnesses
5. Low level tank switch
6. Foam injection check valve

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7. Main waterway check valve
8. Flow meter with paddle wheel

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 meet 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 FoamPro 2001 Series foam system shall be provided with a FoamPro control cable from the controller to the foam pump assembly. The FoamPro 2001 Series foam system shall be provided with a standard pump panel mounted FoamPro control head.

The flow meter shall be installed in the "foam capable" discharge piping.

The foam system shall have a pump operator's panel-mounted digital control module that shall provide a constant readout of GPM of water, foam solution, concentrate rate and totals of quantities being discharged at any time during operation. The total readable figure shall be 99,999 gallons. The foam system shall be capable of being calibrated from the pump operator's panel. Diagnostic testing shall be provided in the readout from the instruments on the pump operator's panel.

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 2001 foam system layout and shall meet applicable sections of the NFPA standards.

Foam concentrate shall be provided from the onboard foam concentrate storage tank. The system shall be compatible with nozzle aspirating systems, where nozzle flow volumes must be adjustable on demand, while maintaining a constant quality foam solution.

## **FOAM SYSTEM OUTLETS**

The following discharges shall have foam distributed to them.

Front bumper discharges  
Front bumper monitor (If applicable)

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Booster hose reel  
1-1/2" Cross lays  
Rear 2-1/2" discharge  
Right side 2-1/2" discharge  
Foam Upload System, Hale, EZ Foam

One (1)  
13-11-1110

Y\_\_N\_\_

## **FOAM UPLOAD SYSTEM**

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

One (1)  
14-02-1139

Y\_\_N\_\_

## **PUMP ENCLOSURE**

The mid-ship 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 independent flexing of the pump enclosure from the body, chassis, tank, and shall permit quick removal. The module shall have plastic or rubber mounting pads and shall be attached to the frame rails with spring mountings. The support structure shall be constructed of #6061 aluminum channel, tubing and angle.

The "module" enclosure shall allow for removal of valves, piping, and fire pump in a single unit, with a minimum number of components to be disassembled. The right and left side panels, front panel, and floor above the plumbing system shall be bolted and easily removable.

The pump enclosure shall be approximately 39" front to rear, 72" right to left, and 70" high with a left side mounted pump panel.

One (1)  
14-15-1225

Running Boards, Pump Panel, Non-slip, Driver/Psngr

Y\_\_N\_\_

## **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.

One (1)  
14-16-1412

Pump Enc Door, Upper LH, S/S, Pwdrcoat, Satin Blk, Medium

Y\_\_N\_\_

## **PUMP ACCESS SERVICE DOOR -- UPPER LEFT SIDE**

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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 and will be powder coated satin black.

One (1)  
14-16-2411 Pump Enc Door, Upper RH, S/S, Pwdrcoat, Satin Blk, Medium

Y\_\_N\_\_

## **PUMP ACCESS SERVICE DOOR -- UPPER RIGHT SIDE**

The upper right 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 and will be powder coated satin black.

One (1)  
14-25-4607 Pump Panel, SS, Medium, Left Side, Pwdcoated, Satin Black

Y\_\_N\_\_

## **PUMP PANEL-LEFT SIDE**

The pump panel shall be constructed of stainless steel, and bolted to the pump enclosure with stainless steel fasteners. Discharges and intakes shall feature a bezel to aid in removal of panel for maintenance and repairs. The panel shall be powdercoated satin black.

One (1)  
14-25-4707 Pump Panel, SS, Medium, Right Side, Pwdcoated, Satin Black

Y\_\_N\_\_

## **PUMP PANEL-RIGHT SIDE**

The pump panel shall be constructed of stainless steel, and bolted to the pump enclosure with stainless steel fasteners. Discharges and intakes shall feature a bezel to aid in removal of panel for maintenance and repairs. The panel shall be powdercoated satin black.

Two (2)  
14-30-1400 Pressure Gauge, Drains

Y\_\_N\_\_

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.

One (1)  
14-30-1400 Pressure Gauge, Drains

Y\_\_N\_\_

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.

Two (2)  
14-30-1400 Pressure Gauge, Drains

Y\_\_N\_\_

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.

One (1)  
14-30-1400 Pressure Gauge, Drains

Y\_\_N\_\_

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.

One (1)  
14-30-1400 Pressure Gauge, Drains

Y\_\_N\_\_

The specified gauge shall feature a drain located at the gauge inlet to help prevent

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<p>One (1) 14-30-1400</p>	<p>freezing. The drain shall be a twist open and close type. Pressure Gauge, Drains</p>	<p>Y__N__</p>
<p>One (1) 14-30-2600</p>	<p>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. 4" Master Pressure Gauge Set - IC, Intake/Discharge 3003691-64</p>	<p>Y__N__</p>
<p><b><u>MASTER PRESSURE CENTER - GAUGE SET</u></b></p>		
<p>Two (2) 14-30-4100</p>	<p>One (1) master pressure gauge set (discharge pressure and intake gauge), with labels shall be provided on the pump instrument panel. The set shall be an Innovative Controls Master Pressure Center and shall incorporate one (1) 4" master intake pressure gauge, one (1) 4" master discharge pressure gauge, an audible alarm, and one (1) set of vacuum/pressure test taps into an integrated, bezeled platform. Gauge Backlighting, LED, White</p>	<p>Y__N__</p>
<p>One (1) 14-30-4100</p>	<p>Gauge(s) shall include internal, back-lit 12 volt lighting. Replaceable, White, LED bulb in a water-resistant holder. Gauge Backlighting, LED, White</p>	<p>Y__N__</p>
<p>Two (2) 14-30-4100</p>	<p>Gauge(s) shall include internal, back-lit 12 volt lighting. Replaceable, White, LED bulb in a water-resistant holder. Gauge Backlighting, LED, White</p>	<p>Y__N__</p>
<p>One (1) 14-30-4100</p>	<p>Gauge(s) shall include internal, back-lit 12 volt lighting. Replaceable, White, LED bulb in a water-resistant holder. Gauge Backlighting, LED, White</p>	<p>Y__N__</p>
<p>One (1) 14-30-4100</p>	<p>Gauge(s) shall include internal, back-lit 12 volt lighting. Replaceable, White, LED bulb in a water-resistant holder. Gauge Backlighting, LED, White</p>	<p>Y__N__</p>
<p>One (1) 14-30-4100</p>	<p>Gauge(s) shall include internal, back-lit 12 volt lighting. Replaceable, White, LED bulb in a water-resistant holder. Gauge Backlighting, LED, White</p>	<p>Y__N__</p>
<p>Two (2) 14-30-4600</p>	<p>Gauge(s) shall include internal, back-lit 12 volt lighting. Replaceable, White, LED bulb in a water-resistant holder. Standard Dial Face, Black on White</p>	<p>Y__N__</p>
<p>One (1) 14-30-4600</p>	<p>Gauge(s) shall be supplied with a white dial face with black lettering and black gauge marks. Standard Dial Face, Black on White</p>	<p>Y__N__</p>

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Two (2) 14-30-4600	Gauge(s) shall be supplied with a white dial face with black lettering and black gauge marks. Standard Dial Face, Black on White	Y__N__
One (1) 14-30-4600	Gauge(s) shall be supplied with a white dial face with black lettering and black gauge marks. Standard Dial Face, Black on White	Y__N__
One (1) 14-30-4600	Gauge(s) shall be supplied with a white dial face with black lettering and black gauge marks. Standard Dial Face, Black on White	Y__N__
One (1) 14-30-4600	Gauge(s) shall be supplied with a white dial face with black lettering and black gauge marks. Standard Dial Face, Black on White	Y__N__
Two (2) 14-31-0010	Gauge(s) shall be supplied with a white dial face with black lettering and black gauge marks. Gauge, Line Pres, IC, 63mm, Backlit, 0-600, 2"	Y__N__
One (1) 14-31-0010	The line discharge water pressure gauge(s) shall be Innovative Controls model# 3010353-40003. The gauges shall have a 2" diameter face with a graduated output scale of 0-600 PSI. The gauge shall be mounted within 6" of the control device with a name plate label. Gauge, Line Pres, IC, 63mm, Backlit, 0-600, 2"	Y__N__
One (1) 14-35-2010	The line discharge water pressure gauge(s) shall be Innovative Controls model# 3010353-40003. The gauges shall have a 2" diameter face with a graduated output scale of 0-600 PSI. The gauge shall be mounted within 6" of the control device with a name plate label. Pressure Governor, FRC, PBA501-D00, Pump Boss Max, Dual Sensor (Cummins)	Y__N__

**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

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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

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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:**

One (1)  
14-40-3010

Water Tank Gauge, IC, Soft-Glo, LED, Pump Panel

Y\_\_N\_\_

**WATER TANK GAUGE**

IC Soft-Glo Tank Level Monitor System Innovative Controls Soft-Glo Series Tank Level Monitors shall be installed. The system shall be CAN Bus capable and include a variety of electronic display modules and CAN extension cables. The display modules are divided into 4 distinct sections that show the volume of (Water or Class A Foam or Class B Foam) in the tank using multi-color and programmable superbright LEDs. Tank level indication is enhanced by the use 180° wide-angle diffusion lenses in front of the LEDs. The LEDs are diffused by a proprietary method that creates an illumination effect that remains bright but eliminates the typical irritation to an operator’s eyes traditionally caused by bright LEDs.

One (1)  
14-40-3025

Innovative Controls, Soft-Glo, Bezel, Blue

Y\_\_N\_\_

The specified tank level gauge shall feature a blue bezel.

One (1)  
14-40-3030

Innovative Controls, Soft-Glo, Bezel, Green

Y\_\_N\_\_

The specified tank level gauge shall feature a green bezel.

One (1)  
14-40-4215

Level Gauge, Activation, Battery Switched

Y\_\_N\_\_

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

One (1)  
14-40-4215

Level Gauge, Activation, Battery Switched

Y\_\_N\_\_

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

One (1)  
14-40-6200

Foam Tank Gauge, IC, Soft-Glo, LED, Pump Panel

Y\_\_N\_\_

**FOAM TANK GAUGE**

IC Soft-Glo Tank Level Monitor System Innovative Controls Soft-Glo Series Tank Level Monitors shall be installed. The system shall be CAN Bus capable and include a variety of electronic display modules and CAN extension cables. The

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display modules are divided into 4 distinct sections that show the volume of (Water or Class A Foam or Class B Foam) in the tank using multi-color and programmable superbright LEDs. Tank level indication is enhanced by the use 180° wide-angle diffusion lenses in front of the LEDs. The LEDs are diffused by a proprietary method that creates an illumination effect that remains bright but eliminates the typical irritation to an operator’s eyes traditionally caused by bright LEDs.

One (1)  
14-45-1210

Nomenclature Plates, Color Coded, English, Lexan w/Bezel

Y\_\_N\_\_

**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.

One (1)  
14-45-2155

Pump Panel Light, Midship, Driver, LED, Tecniq, 3 Lights

Y\_\_N\_\_

**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.

One (1)  
14-45-2260

Pump Panel Light, Midship Psngr, LED, Tecniq, 3 Lights

Y\_\_N\_\_

**MIDSHIP PUMP PANEL LIGHTS -- PASSENGER 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.

One (1)  
14-45-3000

Pump Panel Light, Actuated Pump Engagement

Y\_\_N\_\_

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

One (1)  
14-45-3000

Pump Panel Light, Actuated Pump Engagement

Y\_\_N\_\_

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

One (1)  
20-01-0010

Body Construction, Aluminum, Big Horn

Y\_\_N\_\_

**DESIGN AND SCOPE OF PUMPER BODY-ALUMINUM**

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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 aluminum 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 aluminum, welded for strength and be sealed from the elements. The compartments shall be attached to the aluminum superstructure only, in order to maintain a truly modular design. Each

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compartment shall feature smooth edges and surfaces from the walls to each weld without burrs or sharp edges in the material.

One (1)  
23-00-0010

Cmpt Dims, Drivers, 17.5" W x 67" H, D1

Y\_\_N\_\_

## **DRIVER SIDE COMPARTMENT D1**

The driver's side forward full compartment shall be ahead of the rear axle. The compartments approximate "clear door opening" is 17.5" wide by 67" high with a depth of 14".

One (1)  
23-00-0015

Cmpt Dims, Driver, 51.5" W x 35" H, D2

Y\_\_N\_\_

## **DRIVER SIDE COMPARTMENT D2**

The drivers side upper compartment shall be above the rear wheel well. The compartments approximate "clear door opening" is 51.5" wide by 35" high with a depth of 14".

One (1)  
23-00-0020

Cmpt Dims, Driver, 30"W x 55"H, D3

Y\_\_N\_\_

## **DRIVER SIDE COMPARTMENT D3**

The driver's side rear full compartment shall be aft of the rear wheel well. The compartments approximate "clear door opening" is 30" wide by 55" high with a variable depth of 14"/24" with the shallow portion at the top of the compartment.

One (1)  
23-00-0055

Cmpt Dims, Psngr, 17.5"W x 67"H, P1

Y\_\_N\_\_

## **PASSENGER SIDE COMPARTMENT P1**

The passenger side forward full compartment shall be ahead of the rear axle. The compartments approximate "clear door opening" is 17.5" wide by 67" high with a depth of 14".

One (1)  
23-00-0060

Cmpt Dims, Psngr, 28"W x 35"H, P2

Y\_\_N\_\_

## **PASSENGER SIDE COMPARTMENT P2**

The passenger side upper compartment shall be above the rear wheel well. The compartments approximate "clear door opening" is 28" wide by 35" high with a depth of 14".

One (1)  
23-00-0065

Cmpt Dims, Psngr, 30"W x 55"H, P3

Y\_\_N\_\_

## **PASSENGER SIDE COMPARTMENT P3**

The passenger side rear full compartment shall be aft of the rear wheel well. The compartments approximate "clear door opening" is 30" wide by 55" high with a depth of 14".

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One (1) Upper Cmpt, Driver, 14"W x 9.25"H x 98"D, TD1 Y\_\_N\_\_  
23-00-0075

## DRIVERS SIDE UPPER COMPARTMENT TD1

The driver's side upper compartment shall be located at the top outer edge of the body; above the driver's side compartments. The compartment shall be accessed from the rear of the apparatus. The compartment shall measure approximately 14" wide by 9.25" high and 98" deep.

One (1) Upper Cmpt, Psngr, 14"W x 9"H x 33"D, TP1 Y\_\_N\_\_  
23-00-0085

## PASSENGER SIDE TOP COMPARTMENT TP1

The passenger side upper compartment shall be located at the top outer edge of the body; above the passenger side compartments. The compartment shall be accessed from the rear of the apparatus. The compartment shall measure approximately 14" wide, by 9" high, and 33" deep.

One (1) Rear Cmpt, 30"W x 30"H, B1 Y\_\_N\_\_  
23-00-0105

## BACK COMPARTMENT B1

The apparatus shall feature a back compartment which shall be located centered at the back of the apparatus. The compartments approximate "clear door opening" is 30" wide by 30" high with a depth of 23".

One (1) Lower Storage Compartment, Driver Y\_\_N\_\_  
23-00-0115

## DRIVERS SIDE -- LOWER STORAGE

There shall be a small storage compartment located at the rear of the apparatus below the D3 compartment. The compartment shall be split into two separate sections with the forward section measuring approximately 10.5" high by 16" wide by 25" deep. The aft portion shall be triangle in shape, and measure approximately 13" wide by 11.5" high.

One (1) Lower Storage Compartment, Passenger Y\_\_N\_\_  
23-00-0120

## PASSENGERS SIDE -- LOWER STORAGE

The shall be a small hose storage compartment located at the rear of the apparatus below the P3 compartment. The compartment shall be split into two separate sections with the forward section measuring approximately 10.5" high by 16" wide by 25" deep. The aft portion shall be triangle in shape, and measure approximately 13" wide by 11.5" high.

One (1) Wheel Well Panel Constr, Alum Body, Pntd Y\_\_N\_\_  
24-01-1300

## WHEEL WELL PANEL CONSTRUCTION

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The outer wheel well panel shall be an integral part of the overall body design and constructed of aluminum (same thickness as compartment construction). The exterior wheel well area shall be painted to match the body.

One (1)  
24-03-2400

Wheel Well Inner Liners, Body, Plastic, 22.5" rims, S/A

Y\_\_N\_\_

## 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.

One (1)  
24-03-4200

Fenderettes, Body, Rear, Rubber, 22.5" rims (2) Single Axle

Y\_\_N\_\_

## 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.

One (1)  
24-05-1705

SCBA Stge, Drivers, Fwd Wheelwell, 8" Round, S/S Door

Y\_\_N\_\_

## 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.

One (1)  
24-05-2305

SCBA Compt, Drivers, Rwd Whlwell, Full Pack Storage

Y\_\_N\_\_

## 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.

One (1)  
24-05-2460

SCBA Door, Painted Stainless Steel, Package

Y\_\_N\_\_

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

One (1)  
24-05-2460

SCBA Door, Painted Stainless Steel, Package

Y\_\_N\_\_

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

One (1)  
24-05-2465

SCBA Door, Painted Stainless Steel

Y\_\_N\_\_

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

One (1)  
24-05-2465

SCBA Door, Painted Stainless Steel

Y\_\_N\_\_

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

One (1)

Non Locking Lever Latch

Y\_\_N\_\_

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24-05-2470

The SCBA door shall have a non-locking lever latch.

One (1)

Non Locking Lever Latch

Y\_\_N\_\_

24-05-2470

The SCBA door shall have a non-locking lever latch.

One (1)

SCBA Tube, Aluminum, w/ Mat

Y\_\_N\_\_

24-05-2510

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

One (1)

SCBA Tube, Aluminum, w/ Mat

Y\_\_N\_\_

24-05-2510

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

One (1)

SCBA Stge, Psngr, Fwd Wheelwell, 8" Round, S/S Door

Y\_\_N\_\_

24-05-5705

## **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.

One (1)

SCBA Compt, Psngr, Rwd Whlwell, Full Pack Storage

Y\_\_N\_\_

24-05-6305

## **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.

One (1)

SCBA Cylinder Tether, 1" Nylon

Y\_\_N\_\_

24-05-7000

## **SCBA CYLINDER STRAPS**

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

One (1)

SCBA Cylinder Tether, 1" Nylon

Y\_\_N\_\_

24-05-7000

## **SCBA CYLINDER STRAPS**

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

One (1)

Protective Surface, Alum T/P, Front of Body Outboard of Cab

Y\_\_N\_\_

24-08-1200

## **FRONT OF BODY -- PROTECTIVE SURFACE**

The front of the apparatus body shall include a protective surface, constructed of aluminum tread plate material, which shall cover the outboard portion of each side of the body.

One (1)

Protective Front Corner Trim, S/S

Y\_\_N\_\_

24-08-2100

## **FRONT CORNERS OF BODY -- PROTECTIVE SURFACES**

10052-0001

01/09/25

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One (1)  
24-08-3300

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, Prepped for Chevron Striping, Unpainted

Y\_\_N\_\_

## **REAR BODY PANELS**

One (1)  
24-08-4200

The rear tail panels of the apparatus body shall be unpainted, to accommodate chevron striping.  
Protective Rear Corner Trim, S/S

Y\_\_N\_\_

## **OUTER REAR BODY PANELS -- PROTECTIVE COVERING**

One (1)  
24-08-8100

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.  
Drip Rails

Y\_\_N\_\_

## **ANODIZED ALUMINUM DRIP RAIL**

One (1)  
24-09-1200

All enclosed compartment doors on the body shall be provided with an aluminum drip rail above the doors.  
Ventilation and Filter, Weber Style, Compartment

Y\_\_N\_\_

## **COMPARTMENT VENTILATION**

One (1)  
24-09-1200

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.  
Ventilation and Filter, Weber Style, Compartment

Y\_\_N\_\_

## **COMPARTMENT VENTILATION**

One (1)  
24-09-1200

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.  
Ventilation and Filter, Weber Style, Compartment

Y\_\_N\_\_

## **COMPARTMENT VENTILATION**

# BME Fire Trucks LLC

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.

One (1)  
24-09-1200

Ventilation and Filter, Weber Style, Compartment

Y\_\_N\_\_

## **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.

One (1)  
24-09-1200

Ventilation and Filter, Weber Style, Compartment

Y\_\_N\_\_

## **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.

One (1)  
24-09-1200

Ventilation and Filter, Weber Style, Compartment

Y\_\_N\_\_

## **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.

One (1)  
24-09-1200

Ventilation and Filter, Weber Style, Compartment

Y\_\_N\_\_

## **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.

One (1)  
24-09-3100

Cmpt Floor Drains, Corners

Y\_\_N\_\_

## **COMPARTMENT FLOOR DRAIN**

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One (1)  
24-09-3100

The compartment shall be provided with rear corner floor drains to the underside of the body.  
Cmpt Floor Drains, Corners

Y\_\_N\_\_

**COMPARTMENT FLOOR DRAIN**

One (1)  
24-09-3100

The compartment shall be provided with rear corner floor drains to the underside of the body.  
Cmpt Floor Drains, Corners

Y\_\_N\_\_

**COMPARTMENT FLOOR DRAIN**

One (1)  
24-09-3100

The compartment shall be provided with rear corner floor drains to the underside of the body.  
Cmpt Floor Drains, Corners

Y\_\_N\_\_

**COMPARTMENT FLOOR DRAIN**

One (1)  
24-09-3100

The compartment shall be provided with rear corner floor drains to the underside of the body.  
Cmpt Floor Drains, Corners

Y\_\_N\_\_

**COMPARTMENT FLOOR DRAIN**

One (1)  
24-09-3100

The compartment shall be provided with rear corner floor drains to the underside of the body.  
Cmpt Floor Drains, Corners

Y\_\_N\_\_

**COMPARTMENT FLOOR DRAIN**

One (1)  
24-09-3100

The compartment shall be provided with rear corner floor drains to the underside of the body.  
Cmpt Floor Drains, Corners

Y\_\_N\_\_

**COMPARTMENT FLOOR DRAIN**

Two (2)  
24-12-1100

The compartment shall be provided with rear corner floor drains to the underside of the body.  
Doors, Hinged, Alum Painted, Single, Base Specs

Y\_\_N\_\_

**ALUMINUM – COMPARTMENT DOOR, HINGED OVERLAP**

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Two (2) 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.

Five (5)  
24-12-1200

Doors, Hinged, Alum Painted, Double-Door

Y\_\_N\_\_

## **ALUMINUM – 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

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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.

One (1)  
24-13-1100

Doors, Hinged, S/S, Painted, Drop Down, Job Color, Small

Y\_\_N\_\_

## **STAINLESS STEEL DOOR**

The specified compartment shall have a drop down stainless steel door painted job color.

One (1)  
24-13-1100

Doors, Hinged, S/S, Painted, Drop Down, Job Color, Small

Y\_\_N\_\_

## **STAINLESS STEEL DOOR**

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The specified compartment shall have a drop down stainless steel door painted job color.

One (1)  
24-13-1200  
Doors, Hinged, S/S, Painted, Vert. Hinged, Small

Y\_\_N\_\_

**STAINLESS STEEL DOOR**

The specified compartment shall have a drop down stainless steel door painted job color.

One (1)  
24-13-1200  
Doors, Hinged, S/S, Painted, Vert. Hinged, Small

Y\_\_N\_\_

**STAINLESS STEEL DOOR**

The specified compartment shall have a drop down stainless steel door painted job color.

One (1)  
24-17-5100  
Compt, Sill Plate, Polished Stainless Steel, Each

Y\_\_N\_\_

**COMPARTMENT SILL PLATE**

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

One (1)  
24-17-5100  
Compt, Sill Plate, Polished Stainless Steel, Each

Y\_\_N\_\_

**COMPARTMENT SILL PLATE**

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

One (1)  
24-17-5100  
Compt, Sill Plate, Polished Stainless Steel, Each

Y\_\_N\_\_

**COMPARTMENT SILL PLATE**

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

One (1)  
24-17-5100  
Compt, Sill Plate, Polished Stainless Steel, Each

Y\_\_N\_\_

**COMPARTMENT SILL PLATE**

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

One (1)  
24-17-5100  
Compt, Sill Plate, Polished Stainless Steel, Each

Y\_\_N\_\_

**COMPARTMENT SILL PLATE**

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

One (1)  
Compt, Sill Plate, Polished Stainless Steel, Each

Y\_\_N\_\_

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24-17-5100

## COMPARTMENT SILL PLATE

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

One (1)  
24-17-5100

Compt, Sill Plate, Polished Stainless Steel, Each

Y\_\_N\_\_

## COMPARTMENT SILL PLATE

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

One (1)  
24-18-2310

D-ring, Polished

Y\_\_N\_\_

The specified door(s) shall have a Polished stainless-steel D-ring door handle.

Two (2)  
24-18-2310

D-ring, Polished

Y\_\_N\_\_

The specified door(s) shall have a Polished stainless-steel D-ring door handle.

Two (2)  
24-18-2310

D-ring, Polished

Y\_\_N\_\_

The specified door(s) shall have a Polished stainless-steel D-ring door handle.

Five (5)  
24-18-2310

D-ring, Polished

Y\_\_N\_\_

The specified door(s) shall have a Polished stainless-steel D-ring door handle.

Two (2)  
24-18-2420

Door Locks, D-Ring, Hinged, 1250 Key Type, Each

Y\_\_N\_\_

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

Five (5)  
24-18-2420

Door Locks, D-Ring, Hinged, 1250 Key Type, Each

Y\_\_N\_\_

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

One (1)  
24-19-0100

Lever Latch, Black, Non-Locking, Round Button, Each

Y\_\_N\_\_

## DOOR LATCH

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

One (1)  
24-19-0100

Lever Latch, Black, Non-Locking, Round Button, Each

Y\_\_N\_\_

## DOOR LATCH

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

One (1)  
24-19-0100

Lever Latch, Black, Non-Locking, Round Button, Each

Y\_\_N\_\_

## DOOR LATCH

10052-0001

01/09/25

# BME Fire Trucks LLC

One (1)  
24-19-0100 The specified hinged door(s) shall be equipped with a sealed, black lever latch(es). Latch(es) shall be non-locking style.  
Lever Latch, Black, Non-Locking, Round Button, Each Y\_\_N\_\_

**DOOR LATCH**

Two (2)  
24-19-0410 The specified hinged door(s) shall be equipped with a sealed, black lever latch(es). Latch(es) shall be non-locking style.  
Lever Latch, Black, Non-Locking, Round Button, Each Y\_\_N\_\_

Two (2)  
24-19-0410 The specified hinged door(s) shall be equipped with (2), black lever latch(es). Latch(es) shall be non-locking style.  
Lever Latch, Black, Non-Locking, Round Button, Each Y\_\_N\_\_

One (1)  
24-19-0410 The specified hinged door(s) shall be equipped with (2), black lever latch(es). Latch(es) shall be non-locking style.  
Lever Latch, Black, Non-Locking, Round Button, Each Y\_\_N\_\_

One (1)  
24-19-0410 The specified hinged door(s) shall be equipped with (1), black lever latch(es). Latch(es) shall be non-locking style.  
Lever Latch, Black, Non-Locking, Round Button, Each Y\_\_N\_\_

One (1)  
24-20-3200 The specified hinged door(s) shall be equipped with (1), black lever latch(es). Latch(es) shall be non-locking style.  
Rear Step, Extruded Alum, Diamond Back, 12"x8' Y\_\_N\_\_

**REAR STEP**

There shall be a stepping surface provided and installed at the rear of the apparatus. The rear step shall have a frame work constructed of structural aluminum angles. There shall be channels on the exterior perimeter with center supports forming an independent assembly, and shall be bolted to the rear body structural framing to provide body protection and a solid rear stepping platform.

One (1)  
24-20-5305 The walking surface of the rear step shall be aggressive DIAMOND BACK aluminum extrusions that complies to applicable NFPA standards.  
Pull Out/Drop Down Step, Zico, PS-8-5, Quic-Step Y\_\_N\_\_

**PULL-OUT/DROP DOWN STEP**

Four (4)  
10052-0001 A Zico "Quic-Step" model #PS-8-5, pull out, drop down style step shall be provided. It shall be constructed of corrosion resistant steel and a cast aluminum stepping surface. The step is fully NFPA 1901 compliant.  
Step, Folding, Drivers, Front, Innovative, W/ Light, Chrome VP-00-005274 Y\_\_N\_\_

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24-21-2120

## FOLDING STEP -- DRIVERS SIDE FRONT

There shall be four (4) Innovative Controls chrome plated zinc steps installed. The steps shall be a spring loaded design with an approx 8" by 6" stepping surface and feature a BME logo and an LED light to light up the stepping surface. The step shall be installed on the front drivers side of the body.

One (1)  
24-26-0010

Grab Handle Package, Big Horn

Y\_\_N\_\_

## GRAB HANDLES

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

- One (1) 54" horizontal grab handle installed just below the hosebed.
- Two (2) 30" vertical grab handles installed on either side of the rear compartment
- Two (2) 28" horizontal grab handles installed one on each hosebed door facing rear

One (1)  
24-27-1200

Roof Access Ladder, Zico, Driver, Rear

Y\_\_N\_\_

## ROOF ACCESS LADDER

A Ziamatic swing out and down ladder shall be installed on the drivers side of the rear body panel for access to the roof. The ladder shall be designed to store parallel to the body when not in use. A handle shall be provided to unlock the ladder from the travel position to allow the ladder to be pulled out to a comfortable climbing angle.

Release of the handle allows the ladder to latch automatically and it will not retract until the scissor lock is raised. The ladder shall have a two-rung fold-down section and a six-rung main ladder section and be equipped with cast aluminum rungs having flat, non-skid surfaces to provide traction and safety.

One (1)  
24-30-2300

Hose Bed, Aluminum, Spec, Pumper, Single Axle

Y\_\_N\_\_

## HOSE BODY CONSTRUCTION SPECIFICATIONS

The hose bed side sheets and floor shall be constructed from aluminum material. The hose bed floor shall not directly rest on the top of the polypropylene booster tank and be removable for tank access. The hose body shall be free of sharp corners, bolts, or other obstructions that may catch hose and other equipment.

One (1)  
24-32-1350

Hose Bed Divider, Adjustable, .250" Aluminum, Center Divider

Y\_\_N\_\_

## HOSE BED CENTER DIVIDER

10052-0001

01/09/25

# BME Fire Trucks LLC

An adjustable width hose bed divider constructed from no less than .250 (1/4") aluminum material shall be installed. The divider shall be the center support for the hosebed doors and feature a top C channel with rubber material attached.

One (1)  
24-32-4100

Hosebed, Grating, Alum, Single Axle, Pumper

Y\_\_N\_\_

## 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.

One (1)  
24-32-7300

Hosebed Rear Flap and Straps, Seat Belt Buckle

Y\_\_N\_\_

## HOSEBED REAR ENCLOSURE

The hose bed shall include flaps and straps at the rear of the apparatus. The straps shall utilize a seat belt style latch fore securement.

One (1)  
24-32-7410

Hosebed Cover, Alum T/P, Double Door, S/Axle

Y\_\_N\_\_

## ALUMINUM HOSEBED COVER

The hose bed shall be equipped with reinforced hinged aluminum diamond plate double doors with a rear enclosure for positive security. The walking surface on the cover shall provide a non-slip, secure surface. Positive hold-open devices shall be provided to hold the door in the open position.

One (1)  
24-32-7505

Hosebed Center Front Dunnage, Alum T/P Door w/ Fill Tower Access

Y\_\_N\_\_

## HOSEBED COVER- FILL TOWER ACCESS

The front fill tower section of the hosebed shall be walled off and feature a lift up aluminum diamond plate door. The door shall feature a small access door to access the fill towers.

One (1)  
24-33-5120

Hosebed Flaps, Color, Red

Y\_\_N\_\_

The flaps shall be red in color.

One (1)  
28-01-1605

Water Tank Capacity, 750 Gallons, Poly, WUI

Y\_\_N\_\_

## WATER TANK SPECIFICATIONS

The water tank shall have a capacity of 750 gallons.

One (1)  
28-02-8000

Water Tank, NFPA Compliance

Y\_\_N\_\_

## NFPA COMPLIANCE

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One (1)  
28-06-1200

The water tank construction shall conform to applicable NFPA standards.  
Fill Tower, Overflow, Water Tank, 4" PVC Pipe, <900G

Y\_\_N\_\_

## **VENT AND OVERFLOW**

The fill tower shall incorporate a vent and overflow system shall be designed into the water tank. The system shall include a 4" diameter PVC pipe that functions both as an air vent while emptying the tank and as an overflow when filling the tank. The overflow shall discharge excess water below the frame rails of the vehicle.

One (1)  
28-32-3150

Back Pack Fill, GHT x 1/2"NPT, w/vlv, Pump Panel

Y\_\_N\_\_

## **BACK PACK FILL SYSTEM**

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

One (1)  
29-05-1210

Foam Tank Capacity, 25 Gallons, Class A, Poly

Y\_\_N\_\_

## **CLASS A FOAM TANK SPECIFICATIONS**

A 25 gallon capacity Class A foam concentrate tank shall be provided. The foam tank shall be polypropylene with a lifetime warranty

One (1)  
29-40-1100

Foam Tank, Fill and Vent, Class A

Y\_\_N\_\_

## **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

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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.

One (1)  
29-50-1050  
Foam Tank Drain and Valve, 3/4" Y\_\_N\_\_

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

One (1)  
35-01-1110  
Adj tracks, Uni-Strut Y\_\_N\_\_

### **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.

One (1)  
35-01-1110  
Adj tracks, Uni-Strut Y\_\_N\_\_

### **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.

One (1)  
35-01-1110  
Adj tracks, Uni-Strut Y\_\_N\_\_

### **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.

One (1)  
35-01-1110  
Adj tracks, Uni-Strut Y\_\_N\_\_

### **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

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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.

One (1)  
35-01-1110

Adj tracks, Uni-Strut

Y\_\_N\_\_

## 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.

One (1)  
35-01-1110

Adj tracks, Uni-Strut

Y\_\_N\_\_

## 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.

One (1)  
35-01-1110

Adj tracks, Uni-Strut

Y\_\_N\_\_

## 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.

One (1)  
35-85-0050

NO-- Compt Grating

Y\_\_N\_\_

## COMPARTMENT GRATING

No compartment floor grating shall be provided in specified compartment.

One (1)  
35-85-0050

NO-- Compt Grating

Y\_\_N\_\_

## COMPARTMENT GRATING

No compartment floor grating shall be provided in specified compartment.

One (1)  
35-85-0050

NO-- Compt Grating

Y\_\_N\_\_

## COMPARTMENT GRATING

# BME Fire Trucks LLC

One (1)  
35-85-0050  
No compartment floor grating shall be provided in specified compartment.  
NO-- Compt Grating  
Y\_\_N\_\_

**COMPARTMENT GRATING**

One (1)  
35-85-0050  
No compartment floor grating shall be provided in specified compartment.  
NO-- Compt Grating  
Y\_\_N\_\_

**COMPARTMENT GRATING**

One (1)  
35-85-0050  
No compartment floor grating shall be provided in specified compartment.  
NO-- Compt Grating  
Y\_\_N\_\_

**COMPARTMENT GRATING**

One (1)  
35-85-0050  
No compartment floor grating shall be provided in specified compartment.  
NO-- Compt Grating  
Y\_\_N\_\_

**COMPARTMENT GRATING**

One (1)  
35-85-2118  
No compartment floor grating shall be provided in specified compartment.  
Dri-Dek, Grating, Per Bumper Cmpt  
Y\_\_N\_\_

**BUMPER COMPARTMENT GRATING**

One (1)  
35-85-2118  
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.  
Dri-Dek, Grating, Per Bumper Cmpt  
Y\_\_N\_\_

**BUMPER COMPARTMENT GRATING**

One (1)  
35-85-2118  
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.  
Dri-Dek, Grating, Per Bumper Cmpt  
Y\_\_N\_\_

**BUMPER COMPARTMENT GRATING**

One (1)  
35-85-5001  
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.  
Dri-Dek, Black  
Y\_\_N\_\_

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

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One (1) 35-85-5001	Dri-Dek, Black  The specified Dri-Dek grating shall be black in color.	Y__N__
One (1) 35-85-5001	Dri-Dek, Black  The specified Dri-Dek grating shall be black in color.	Y__N__
One (1) 35-86-1100	Black Straps  The straps shall be black in color.	Y__N__
One (1) 35-86-1100	Black Straps  The straps shall be black in color.	Y__N__
One (1) 40-05-1150	Electrical, 12V, Base Wiring Specs, Wildland	Y__N__

## 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.

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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.

One (1)

Electrical Harness, Wildland

Y\_\_N\_\_

# BME Fire Trucks LLC

40-05-4600

## 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.

One (1)  
40-10-1205

Electrical Console, Cab, BME, Freightliner, AP-00-023005

Y\_\_N\_\_

## 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 console lid that will be populated with two rows of havis style plates. There shall be map box mounted on the rear of the console.

One (1)  
40-15-1155

Battery Switch, Master Disconnect, Chassis Supplied, Solenoid

Y\_\_N\_\_

## BATTERY SWITCH - MASTER DISCONNECT

A battery cutoff switch shall be provided in the cab within easy reach of the driver; by the chassis manufacturer. There shall be a 200amp continuous rated solenoid installed and switched by the OEM battery master switch.

One (1)  
40-15-3075

Battery Charger, Polarized 12V Plug

Y\_\_N\_\_

## BATTERY CHARGER INLET

There shall be a polarized plug wired directly to the chassis starting batteries to be connected to a customer supplied charging source.

One (1)  
40-25-1350

Clearance Lgts, LED, DOT, Wildland

Y\_\_N\_\_

## IDENTIFICATION LIGHTS

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

One (1)  
40-30-1310

License Plate Mounting, Tecniq LED, L110, Rear

Y\_\_N\_\_

## LICENSE PLATE MOUNTING AND LIGHT

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

One (1)  
40-32-5150

Stop/Tail Lgts, Whelen #M62BTT, LED, 4" x 6",(2)

Y\_\_N\_\_

## STOP AND TAIL LIGHTS

# BME Fire Trucks LLC

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.

One (1)  
40-33-5160

Turn Signals, Whelen M62T, LED, LED, (2)

Y\_\_N\_\_

## 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.

One (1)  
40-35-5150

Back up Lights, Whelen M62BU, LED, 4" x 6", (2)

Y\_\_N\_\_

## BACK-UP LIGHTS

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

One (1)  
40-55-2300

Tail Light Bezels, Whelen #M6FCV4, (4) lts, 4" x 6" (2)

Y\_\_N\_\_

## 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

One (1)  
41-05-0005

NO--Maplight

Y\_\_N\_\_

One (1)  
41-15-0005

NO--Maplight

Y\_\_N\_\_

Two (2)  
41-25-1305

Ground Lights, Front Bumper, Tecniq E10, LED

Y\_\_N\_\_

## FRONT BUMPER -- GROUND LIGHTS

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

Four (4)  
41-25-2510

Ground Lights, Cab, 4 Door, Tecniq E10, LED

Y\_\_N\_\_

## CAB GROUND LIGHTS

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

Two (2)  
41-25-3210

Ground Lights, Pump Panel, Tecniq E10, LED

Y\_\_N\_\_

## GROUND LIGHTS - PUMP PANEL

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

Two (2)  
41-25-3455

Ground Lights, Mid Body, Tecniq E10, LED

Y\_\_N\_\_

## **GROUND LIGHTS - MID BODY**

There shall be two (2) Tecniq E10, LED ground lights installed under the mid-body compartment(s).

Two (2)  
41-25-3855

Ground Lights, Behind Rear Wheels, Tecniq E10, LED

Y\_\_N\_\_

## **GROUND LIGHTS - UNDER REAR SIDE COMPARTMENT**

There shall be two (2) Tecniq E10, LED ground lights installed under the rear side body compartment(s).

Two (2)  
41-25-5255

Ground Lights, Under Rear Step, Tecniq E10, LED

Y\_\_N\_\_

## **GROUND LIGHTS - UNDER REAR STEP**

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

Two (2)  
41-25-5360

Ground Lights, Activation, Park Brake/Park Signal

Y\_\_N\_\_

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

Four (4)  
41-25-5360

Ground Lights, Activation, Park Brake/Park Signal

Y\_\_N\_\_

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

Two (2)  
41-25-5360

Ground Lights, Activation, Park Brake/Park Signal

Y\_\_N\_\_

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

Two (2)  
41-25-5360

Ground Lights, Activation, Park Brake/Park Signal

Y\_\_N\_\_

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

Two (2)  
41-25-5360

Ground Lights, Activation, Park Brake/Park Signal

Y\_\_N\_\_

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

Two (2)  
41-25-5360

Ground Lights, Activation, Park Brake/Park Signal

Y\_\_N\_\_

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

Two (2)

Ladder Lighting, Whelen, 0S series, 0AC0EDCR

Y\_\_N\_\_

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41-30-3505

## LADDER LIGHTING

There shall be two (2) Whelen 0S series part# 0AC0EDCR 45 degree angled light(s) installed to adequately illuminate the rear ladder.

Four (4)  
41-35-1835

Hosebed Lights, Tecniq E10, LED

Y\_\_N\_\_

## HOSEBED -- AREA LIGHTS

(4) Tecniq E10 lights shall be provided and installed on hosebed door(s).  
Scene Light, Whelen, M62SLC, Chrome Flange

Four (4)  
41-36-4105

Y\_\_N\_\_

## SCENE LIGHT

There shall be four (4) Whelen M62SLC lights shall be installed. The light shall feature updated optics and three low power levels in addition to full brightness. The light shall feature a chrome flange.

One (1)  
41-39-4050

Big Horn Scene Light Package

Y\_\_N\_\_

## 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 as high as practical.  
Scene Light Switching, Cab Console, Individual (Left Right Rear)

Four (4)  
41-40-6401

Y\_\_N\_\_

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

Two (2)  
41-40-7530

Bezels, Whelen, M6, Chrome Plastic

Y\_\_N\_\_

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

Two (2)  
41-40-7530

Bezels, Whelen, M6, Chrome Plastic

Y\_\_N\_\_

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

Two (2)  
41-40-7530

Bezels, Whelen, M6, Chrome Plastic

Y\_\_N\_\_

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

Two (2)

Bezels, Whelen, M6, Chrome Plastic

Y\_\_N\_\_

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# BME Fire Trucks LLC

41-40-7530

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

Two (2)  
41-40-7530

Bezels, Whelen, M6, Chrome Plastic

Y\_\_N\_\_

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

Two (2)  
41-44-4020

Cmpt Lights, 800 Series LED 21"

Y\_\_N\_\_

## **COMPARTMENT LIGHTING**

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

One (1)  
41-45-0005

NO--Compartment Lighting

Y\_\_N\_\_

## **LIGHTING**

The specified compartment shall have no compartment lighting.

One (1)  
41-45-0010

Compartment Lighting, Vertical, Code 3 800 series, (Large) (2)

Y\_\_N\_\_

## **COMPARTMENT LIGHTING**

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

One (1)  
41-45-0010

Compartment Lighting, Vertical, Code 3 800 series, (Large) (2)

Y\_\_N\_\_

## **COMPARTMENT LIGHTING**

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

One (1)  
41-45-0011

Compartment Lighting, Two, Vertical, Code 3 800 series, (Small)

Y\_\_N\_\_

## **COMPARTMENT LIGHTING**

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

One (1)  
41-45-0015

Compartment Lighting, Code 3 800 series, (3)

Y\_\_N\_\_

## **COMPARTMENT LIGHTING**

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

One (1)  
41-45-0015

Compartment Lighting, Code 3 800 series, (3)

Y\_\_N\_\_

## **COMPARTMENT LIGHTING**

10052-0001

01/09/25

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One (1)  
41-45-0015

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

Y\_\_N\_\_

**COMPARTMENT LIGHTING**

One (1)  
41-45-0015

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

Y\_\_N\_\_

**COMPARTMENT LIGHTING**

One (1)  
41-46-2005

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

Y\_\_N\_\_

**DOOR AJAR SENSOR**

One (1)  
41-46-2005

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

Y\_\_N\_\_

**DOOR AJAR SENSOR**

One (1)  
41-46-2005

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

Y\_\_N\_\_

**DOOR AJAR SENSOR**

One (1)  
41-46-2005

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

Y\_\_N\_\_

**DOOR AJAR SENSOR**

One (1)  
41-46-2005

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

Y\_\_N\_\_

**DOOR AJAR SENSOR**

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One (1)  
41-46-2005

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

Y\_\_N\_\_

**DOOR AJAR SENSOR**

One (1)  
41-46-2005

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

Y\_\_N\_\_

**DOOR AJAR SENSOR**

One (1)  
41-46-2005

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

Y\_\_N\_\_

**DOOR AJAR SENSOR**

One (1)  
41-46-2005

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

Y\_\_N\_\_

**DOOR AJAR SENSOR**

One (1)  
41-46-2005

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

Y\_\_N\_\_

**DOOR AJAR SENSOR**

One (1)  
41-46-2005

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

Y\_\_N\_\_

**DOOR AJAR SENSOR**

One (1)  
41-46-2005

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

Y\_\_N\_\_

**DOOR AJAR SENSOR**

One (1)

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

Y\_\_N\_\_

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41-46-2005

## **DOOR AJAR SENSOR**

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

Two (2)  
41-46-2005  
Door Open Sensor, Compt Door

Y\_\_N\_\_

## **DOOR AJAR SENSOR**

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

One (1)  
41-46-2005  
Door Open Sensor, Compt Door

Y\_\_N\_\_

## **DOOR AJAR SENSOR**

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

One (1)  
41-46-2120  
Door Open Light, Flashing, Small LED, Red Lens

Y\_\_N\_\_

## **DOOR OPEN WARNING LIGHT**

A door open warning light shall be installed on cab dash. The light shall be a flashing LED light with a red lens. The light shall include a label, "Do Not Move Apparatus When Light is ON".

One (1)  
41-46-2400  
Door Open Alarm, Buzzer

Y\_\_N\_\_

## **"DOOR OPEN" AND EQUIPMENT OPERATION ALARM**

A buzzer or alarm shall be installed in cab to indicate "doors open" or equipment operation on the apparatus. The buzzer shall operate when parking brake is released.

One (1)  
42-10-2015  
Radio Antenna, Installation

Y\_\_N\_\_

## **RADIO ANTENNA INSTALLATION**

There shall be one (1) radio antenna installed on the apparatus and routed to the cab center console.

One (1)  
43-10-1110  
Back Up Alarm, Self Adjusting

Y\_\_N\_\_

## **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

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One (1) selected. The alarm shall have a volume of 87 to 112 db while in operation.  
 43-10-2230 Back Up Camera, RVS-770619 Y\_\_N\_\_

## BACK UP CAMERA

There shall be a Rear View Safety back up camera system supplied and installed on the apparatus.

One (1)  
 43-10-2699 Y\_\_N\_\_

One (1) Headlight, Flasher, Wig-Wag Y\_\_N\_\_  
 43-15-1760

## HEADLIGHT FLASHER

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

One (1) Wig Wag, Activation, Siren Controller, Slide Switch Pos #3 Y\_\_N\_\_  
 43-15-2030

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

One (1) Siren, Electronic, Whelen, CenCom Core C399, T/A Y\_\_N\_\_  
 44-05-1288

## ELECTRONIC SIREN

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

One (1) Whelen, Core, Control Head, CCTL6 Y\_\_N\_\_  
 44-05-1302

## 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.

One (1) Whelen, Core, WeCanX, Traffic Advisor Module, CTA Y\_\_N\_\_  
 44-05-1322

## WHELEN CORE WECANX TRAFFIC ADVISOR MODULE

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

One (1) Speaker, Whelen, #SA315P, 100 Watt, nylon housing Y\_\_N\_\_  
 44-09-1500

## 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.

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One (1)  
45-05-0035

Lightbar, Whelen Cenator, WeCanX, Solo, 60"

Y\_\_N\_\_

## 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

One (1)  
45-40-1510

Warning Lights, Whelen, M6R, Lwr Front, (2),LED

Y\_\_N\_\_

## 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.

One (1)  
45-45-1510

Warning Lights, Whelen M6R, Intersection, (2),LED

Y\_\_N\_\_

## 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.

One (1)  
45-55-1510

Warning Lights, Whelen, M6R, Lwr Mid Body, (2), LED

Y\_\_N\_\_

## 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

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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.

One (1)  
45-70-1510

Warning Lights, Whelen, M6R, Upper Side Rear, (2), LED

Y\_\_N\_\_

## **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.

One (1)  
45-75-1510

Warning Lights, Whelen, M6R, Upper Rear, (2), LED

Y\_\_N\_\_

## **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.

One (1)  
45-80-1810

Warning Lights, Whelen, M6R, Lower Rear, (2), (No Bezel)

Y\_\_N\_\_

## **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.

One (1)  
46-05-1620

Traffic Advisor, Whelen, TAM83, 30.36" Long, LED

Y\_\_N\_\_

## **TRAFFIC ADVISOR**

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A Whelen Traffic Advisor™ model # TAM83 shall be provided. The traffic advisor shall incorporate a rectangular extruded black powder coated aluminum chassis with eight amber TIR3™ Super-LED® lights with waterproof connectors. The TIR3 lights shall be installed in a clear optic hard coated polycarbonate lens. The TIR3 lights shall incorporate three amber Super-LEDs, a clear horizontal optic hard coated polycarbonate lens, and utilize a TIR reflector for maximum output. The hard coated lens housing shall provide extended life/luster protection against UV and chemical stresses. The TIR3 lens/reflector assembly and conformal coated PC board shall provide additional protection against environmental elements. The TIR3 lights are installed with waterproof connectors.

One (1)  
80-10-1000

Paint, Wildland, 60-84" CA Body, Single Axle, 1 Color

Y\_\_N\_\_

## **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.

One (1)

Cmpt Pntg, Multispec, (7) Compts.

Y\_\_N\_\_

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80-21-2306

## INTERIOR COMPARTMENT FINISH

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

One (1)  
80-21-2320

Multi-Spec, Color, Black/Black

Y\_\_N\_\_

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

One (1)  
80-21-2326

Multi-Spec, Color, Gray Stone

Y\_\_N\_\_

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

One (1)  
80-60-1000

Body Paint, Touch Up, Pint One Color

Y\_\_N\_\_

## TOUCH-UP PAINT

Touch-up paint shall be furnished with the completed truck at final delivery. Painting, Valves, To Match Truck

One (1)  
80-65-1200

Y\_\_N\_\_

## VALVE PAINTING

All exposed valves shall be painted to match the color of the exterior body. Bumper Platform, Surface Finish, Bare Embossed Diamond Plate

One (1)  
80-70-3105

Y\_\_N\_\_

The front bumper platform shall be bare embossed aluminum diamond plate. Reflective Color, Red/Wht DOT

One (1)  
81-15-1521

Y\_\_N\_\_

Specified part shall include Red and White DOT approved reflective striping. Reflective Color, Red/Wht DOT

Two (2)  
81-15-1521

Y\_\_N\_\_

Specified part shall include Red and White DOT approved reflective striping. Reflective Color, Red/Wht DOT

Ten (10)  
81-15-1521

Y\_\_N\_\_

Specified part shall include Red and White DOT approved reflective striping. BME Plaque, Reflective Background, White Back, Red Front

One (1)  
81-15-1605

Y\_\_N\_\_

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

Two (2)  
81-20-2505

Stripe, Cmpt Door, Reflective, Each, Color Options

Y\_\_N\_\_

## 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.

Ten (10)

Stripe, Cmpt Door, Reflective, Each, Color Options

Y\_\_N\_\_

10052-0001

# BME Fire Trucks LLC

81-20-2505

## 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.

One (1)  
81-20-7075

Striping Package, Gold

Y\_\_N\_\_

## 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.

One (1)  
90-05-0500

- Chose this package if any real gold is to be purchased  
Ladder Mounting, Hydraulic Power Lift, Center Mount, HLAS-HS-2KIT

Y\_\_N\_\_

## LADDER MOUNTING SYSTEM

A hydraulic powered center mount ladder bracket system shall be provided on the apparatus. The installation shall comply with all applicable NFPA #1900 provisions.

One (1)  
90-07-0005

NO-Suction Hose Supplied

Y\_\_N\_\_

## SUCTION HOSE

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

One (1)  
90-07-4350

Suction Hose Tray, Ladder Rack Mounted

Y\_\_N\_\_

## HARD SUCTION MOUNTING TRAY

There shall one (1) hard suction hose trays mounted to the hydraulic ladder rack lift. The suction trays shall feature two (2) Velcro straps to keep them in place.

One (1)  
90-09-1710

Wheel Chocks, Worden, Alum, w/Handle, Large, HWC-7WH (2)

Y\_\_N\_\_

## WHEEL CHOCKS

Two (2) Worden brand, Model #HWC-7WH wheel chocks shall be provided. Extinguisher, Dry Chem, 5#, 2A:10B:C, w/mntg

One (1)  
90-10-1110

Y\_\_N\_\_

## 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

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One (1)  
90-40-4100

be filled with a dry chemical extinguishing agent.  
Jack, 12T, Hyd bottle

Y\_\_N\_\_

## **HYDRAULIC JACK**

One (1)  
90-40-4500

One (1) hydraulic jack shall be provided. The jack shall be designed for lifting capacity of twelve (12) tons.  
Lug Wrench and Breaker Bar

Y\_\_N\_\_

## **LUG WRENCH**

One (1)  
90-42-1200

There shall be one (1) lug wrench provided and shipped loose with the completed apparatus.  
Reflector Set, Triangular D.O.T.

Y\_\_N\_\_

## **REFLECTOR**

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