



Shop Order

Carrier Truck Centers Inc.
 O/A Carrier Centers Emergency Vehicles
 6 Edmondson Street
 Brantford, ON N3T 5N3

Muskoka Lakes Fire Department
 1 Bailey Street, Box 129
 Port Carling, ON P0B 1J0

Sales Rep: Ryan Stacey, Metalfab Ltd.	Terms: Chassis, Body and Equipment COD
Drawing #: FT-10928-A Est. Delivery Date: / / Customer PO #: 116 Customer #: 1560 QPF #:	Penalty: None

Quote No: RMUON-0034
Job/Order No: 19725
 11/20/2017

PART NO	QTY	DESCRIPTION
	1	== <i>Metalfab Pumper - ULC 05/13 - 0.000</i> ==
	1	CHANGE ORDER D
00-10-1500	1	Metalfab Pumper E
00-20-1000	1	Company Profile E
00-20-1500	1	Standard Body Warranty
00-20-1550	1	Metalfab Limited Ten (10) Year Paint and Corrosion Warranty
00-20-1600	1	Waterous Pump Warranty - 5 years
00-20-1800	1	Brayneck Canoplast Lifetime Warranty
00-20-20AA	1	PreConstruction Meeting - By Carrier
		There shall be a pre-construction meeting held at the customer's location. By Carrier
00-20-2100	1	Plant Inspection Visits - By Carrier
00-20-3000	1	No Bonding Requested
00-20-3500	1	Certification for Fusion Welding of Aluminum
00-20-4000	1	Quality System registered to ISO 9001:2008
00-20-4500	1	Fire Apparatus Manufacturers' Association Membership
	1	GENERAL INFORMATION
10-11-0000	1	Intent E
10-11-0110	1	Vehicle data recorder included with chassis
10-11-1101	1	ULC S515-13 and NFPA 1901-2009 Compliance
10-11-1500	1	ULC Testing - Pumper
10-11-2100	1	Maximum length not specified E
10-11-2200	1	Maximum height- 9'-06" (114")
10-11-2400	1	Overall length is 30' or more
10-11-2500	1	General Construction
10-11-3000	1	Manuals - two copies ***Two copies of chassis manuals are required.
10-11-3600	1	Delivery - FOB Fire Department - By Carrier
10-11-4200	1	Payment Terms - Chassis and Body COD
10-20-1400	1	Hose capacity exceeding ULC/NFPA requirements
		The hosebed capacity shall exceed ULC Requirements. The main hosebed shall carry colour coordinated hose :
		Preconnected

PART NO	QTY	DESCRIPTION
		- 8 - 50' length - 400' of 1-3/4" (45mm)
		- 4 - 50' length - 200' of 2-1/2" (65mm)
		Main Hosebed
		- 5 - 100' length - 500' 4" (100mm)
		- 2 - 50' length - 100' 4" (100 mm)
		- 12 - 50' length - 600' of 2-1/2" (65 mm)
		Approximately 25 cubic feet required for this hose, so hose bed volume of 49 cubic feet will be adequate
10-20-2000	1	Equipment carrying capacity - standard ULC Pumper
	1	CHASSIS INFORMATION
20-11-1000	1	Chassis supplied by Metalfab - Freightliner M2 106 Four door 45,600 lb GVWR, 14,600 lb Front axle, 31,000 lb Rear axle 242" Wheelbase, Approx 129.2" Cab to axle Cummins ISL 350 hp @ 2000 rpm, 2200 Governed rpm, 1000 torque @ 1400 rpm Allison 3000 EVS Automatic transmission, 275 Amp Alternator 189 Liter fuel tank, LH Polished aluminum wheels with Stainless steel high hats and nut covers ESC (Enhanced Stability Control) White over red - Paint line is FTL - Emergency 4. Paint codes are L0006 EB White over L2225 EB Red. 18" Front frame extension by Nova. Ref - 80-18-0600 - The four SCBA seats to be retrofitted with Bostrom SecureAll cushions. To be equipped with Power Windows, no power locks
20-11-1500	1	2013 Emission chassis modifications
20-11-1700	1	Chassis Motor Vehicle Inspection required - ON By Carrier
20-21-0500	1	Fluid capacity plate
20-21-0600	1	Pumping test plate
20-21-1030	1	Maximum riders sign - 5 persons
20-21-1510	1	Seat belt warning labels - 4 door chassis
20-21-1520	3	Helmet warning label - do not wear helmet
20-21-1530	1	Tire Pressure Indicators - Single Axle
20-21-1600	1	Apparatus Information Label An information label is provided in the chassis cab, visible to the driver, stating: "When manufactured, this vehicle was: ** m high ** m long ** kg GVW Changes in height since the apparatus was manufactured shall be noted on this plate by the Fire Department"
20-21-2000	1	Non removable key
20-21-2500	1	Shifter lock not required E
20-21-3500	1	Rear step warning label
20-21-3810	1	Front mudflaps provided with chassis E
20-21-4000	1	Rear mudflaps - Metalfab Logo
20-31-0200	1	Fuel fill label -Ultra Low Sulfur Diesel only
20-31-1100	1	Alum tread fuel tank covers, diamond grip steps, Conv - 4 dr Steps to be continuous to match M16-18868 except where the fuel fill and DEF fill are located. See photos DSC_9596 to DSC_9618 under Metalfabphotos 2016 Stock HEAT Pumper M16-18868 for reference.
20-31-1500	2	Special compartments in chassis steps as room permits Compartments as large as possible. Surface mount aluminum tread plate door(s) with "D" handle latch. 4" LED light installed and wire into the door ajar system. Compartments on right and left sides to match last Muskoka trucks M16-18977 and M16-18978. Provide a vertical partition RS step compartment wide enough for one helmet to be stored -

PART NO	QTY	DESCRIPTION
		no ventilation in this compartment, matting in this forward storage area to be foam rather than turtle tile. See photo in job folder Matting in driver's side step compartment to be foam rather than turtle tile
20-31-1900	1	Chassis cab painted white over red by Freightliner
20-31-4600	1	Extend front bumper, gravel shield, 12000 winch, compartments E The front bumper is extended approx 18" for installation of a fixed Warn Winch M12000 P/N 17801 with 125' of 3/8" wire rope and 12' tethered remote. A storage box shall be fabricated and installed between the frame rails of the front bumper and be of sufficient size to house the winch and control. The box shall have a hinged deck plate cover equipped with a lift and turn latch and gas strut to act as a door stay. The winch shall deploy through an opening in the front of the bumper and be equipped with captive rollers (ordered with Winch) on all four side of the bumper opening. The wiring for the winch shall include a disconnect switch in the cab (next to the Master disconnect switch) and a 300 Amp Bussman fuse located near the batteries. The front tow hooks are to be mounted below the front bumper (our current standard on extended bumpers)
20-31-7500	1	Console in cab Install switch panel, siren, door ajar light, and pump shift in console. Storage area with hinged cover and lift and turn latch provided at rear of console. Gray Zolatone finish Console shall match M16-18977 Include a cutout for customer radio - Motorola XPR5000 - 2.1" x 6.9" minimum
20-31-7505	1	Glove dispenser on console Polished stainless steel, mounted on officer's side of console See M16-18977 - pic 0972
20-41-0600	1	Intake air shutoff for engine not requested
20-41-0900	1	Auxiliary braking system disabled when pumping
20-41-1100	1	Transmission programming - Allison WT ***Includes "Pump Engaged" light next to pump shift on chassis instrument panel.
20-41-1500	1	Extend exhaust pipe - RS front of rear wheels E Engineering to specify exhaust pipe material as required by the chassis manufacturer. Engineering to sign off on the exhaust configuration to make sure it meets the chassis manufacturer's emission specifications.
20-41-1900	1	Battery boost terminals with chassis E
20-41-2000	1	Chassis batteries remain in OEM location
20-41-2510	1	Fuel fill at step fuel tank under cab
20-41-2600	1	Chassis fuel tank remains in OEM location
20-41-5010	1	Rear Tow Hooks - through rear of body E *** Flat bar tow hooks through rear of body (2) by inset step. To match last Muskoka trucks M19-18977
20-51-0710	1	Master Battery Disconnect included with Freightliner chassis
20-51-2500	1	Back up alarm included with chassis
20-51-3400	1	Protection valve installed for air operated accessories
20-51-4000	1	Auto eject for air inlet - LS Located in drivers step area as shown on the proposal drawing
20-51-6200	4	120 volt 20 A shore line connection Standard 5-20R duplex receptacle provided, not fused One installed on back exterior wall of console flush mount as previous units, receptacle must be minimum 12" from floor to meet ULC requirements. One located in L1 in upper front portion for the Pump Plus 20-51-6600 to plug into One located in L3 on back wall towards the front of the unit below the full depth shelf One located in R3, on back wall towards the rear of the unit high in the full depth section

PART NO	QTY	DESCRIPTION	
20-51-6600	1	Kusmaul Pump Plus conditioner/compressor Mount both the compressor and the charger in the upper section of L1 (front LS compartment) above the pump operator's panel. See M16-18977 - pic 1061	
20-51-7100	1	Electric System Manager	
20-51-7500	1	Super Auto eject for 120 v - 20 A with sealed enclosure Located in drivers step area as shown on the proposal drawing. Minimum 24" off the ground to meet ULC requirements.	
20-51-8500	1	Engine compartment lighting to meet ULC One 4" LED light to be installed	
20-51-9001	1	Air horns supplied with Freightliner chassis	
20-52-0010	1	Air Horn Button/Evacuation Alarm on Pump Panel Label as AIR HORN	
20-52-3500	1	Chassis steering wheel lined up by Metalfab	E
20-52-4000	1	Rear View Camera system Rearview Systems STM5600 with 5.6" colour monitor in cab Mount monitor centre overhead in cab	
20-60-0400	1	Chassis wheelbase does not change	
20-90-1810	1	Extend air tank moisture ejector cables to rubrail and tag As required	
20-99-0010	1	Helmet holder mounting plates One plate between officer side outboard and center rear seat over rear window One "L" shaped plate mounted to floor extending up behind driver's seat wide enough to mount 2 holders Customer to specify make and model of helmet holder _____ See photo in job folder	
20-99-0015	1	Stud block in console - 4 terminal, 20A Wired through master switch unless otherwise specified See M16-18977 - pic 5061	
20-99-0020	1	Supply and install driving lights in front bumper (pr) SOPT 548 1001109 lights similar to South River Machar M16-18400 Mount in bumper opening one each side of winch rollers rather than below the front bumper	
20-99-0025	1	Power bar for inverter Provide a 4 outlet power bar plugged into the inverter. The power bar should have six (6) receptacles and be installed vertically on the side of the console on the driver's side about 3" from the rear (see photo in customer photos section of photos folder)	
20-99-15AA	1	Price Adjustment	
	1	PUMP AND PLUMBING	
30-11-3002	1	Waterous CXVPA PTO driven pump - 1050 IGPM	
30-15-0304	1	Plumbing - non manifold pump SM SS	E
30-20-0500	1	Valves and controls - side mount panel	
30-20-1002	1	Akron valves specified	
30-20-1620	1	Piping stainless steel - non manifold pumps	
30-20-1700	1	1-1/2" thread specifications NPSH	E
30-20-1800	1	2-1/2" thread specifications CSA	
30-20-19AA	1	6" suction thread specifications - NH	
30-20-2000	1	Piping hydrostatic test	
30-20-2510	1	Anodes in suction and discharge piping - non manifold pump Install one anode on discharge side of pump, one anode on suction side of pump - do not use Teflon tape or thread sealant.	

PART NO	QTY	DESCRIPTION
		Paint flange silver and mask brass anode before painting for visibility.
30-21-95AA	1	<p>Tank to Pump 4" Akron Air Valve One air actuated 4" Akron valve (1551305) shall be installed between the pump suction and the booster tank. Includes flex hose with stainless steel hose clamps for connection to the 4" tank sump outlet. The valve control (1141175) shall be located at the pump operator's panel and shall visually indicate the position of the valve at all times. (Indicator lights to match last units) A check valve shall be provided in the tank to pump supply line to prevent the possibility of "back filling" the water tank.</p>
30-22-0520	1	<p>Tank Fill valve 2" SS</p>
30-31-4020	1	<p>Suction - 6" not gated each side SS non manifold pump 6" header Recess the steamer port on both sides by 3-4" so when the TFT external piston intake valve is installed, there is minimal protrusion past body (i.e. when the 6" cap is installed it is close to panel cover plate).</p>
30-31-51AA	1	<p>Suction - 4" SS piping to rear - electric b/f - 6" connection, bleeder 4 inch piping to rear to terminate with 4 inch NPT thread. A 4inch NPT female x 6 inch NH Male CP adapter with screen will be installed along with a 6 inch LH cap. Bleeder shall be located at rear.</p>
30-31-7210	1	<p>Waterous master intake suction valve - electric control For the rear inlet 30-31-5100</p>
30-32-7550	1	<p>Suction - 2-1/2" left side SS, bleeder, non manifold pump</p>
30-32-8050	1	<p>Suction - 2-1/2" right side SS, bleeder, non manifold pump</p>
30-40-2006	1	<p>4" right discharge, plumbed 3", non manifold pump, bleeder</p>
30-41-2040	1	<p>2-1/2" RS discharge SS, bleeder, non manifold pump</p>
30-41-2540	2	<p>2-1/2" LS discharge SS, bleeder, non manifold pump</p>
30-43-1520	1	<p>2-1/2" rear discharge SS, plumbed 2-1/2", bleeder Right side</p>
30-44-0720	2	<p>1-1/2" speedlay preconnect in pumphouse SS, plumbed 2", bleeder Each speedlay to have capacity of minimum of 200 ft of 1-3/4" hose and nozzle. Speedlay trays are oriented side by side, rear of the 2-1/2" speedlay as shown on the proposal drawing . Each speedlay tray will slide on UHMW and is removable. Trays are fabricated from aluminum plate. Hose rollers are installed around the speedlay openings at the front next to the cab (one vertical) and at the bottom (one horizontal). There is no vertical roller next to the body. The bottom horizontal hose roller will be located in such a way to help hold the speed lay tray in place (similar to M16-18401, Quadra Island).</p>
30-44-6520	1	<p>Piping for monitor SS, plumbed 3", bleeder For the TFT monitor package 80-99-15AA. When the riser is in the stowed position the monitor/nozzle assembly will be below the roof line to avoid catching hazards Add rubber around opening to pump module to seal the opening off. Bleeder shall be the Autodrain type</p>
30-51-0400	1	<p>Pump shift - PTO ***Includes "Pump Engaged" indicator lights on chassis instrument panel and on the pump panel ***Includes "Throttle Ready" indicator light on Pump operating panel Includes indicator light showing "OK TO PUMP" when transmission is in neutral, park brake is set, and PTO control energized. The remote electronic throttle will be energized in this mode. Pump and Roll will not be used on this unit - disable prior to delivery if present</p>

PART NO	QTY	DESCRIPTION
30-51-1500	1	Power shift PTO - Automatic transmission
30-51-1501	1	PTO driveshaft E
30-51-67AA	1	FRC Pump Boss Governor/Throttle engine display Pump Boss 400 To comply with SAE J1939-14 Standard To be programmed in metric units. Pressure preset to be 700 kPa RPM preset to be 1100 RPM
30-51-7000	1	Suction side relief V/V, for electric MIV for rear suction
30-51-7002	1	Suction side relief V/V, non manifold pump
30-51-7712	1	Trident air primer - two locations Plumbed to main pump and to rear suction with two primer controls Three barrel two location primer
30-51-7720	1	Auxiliary air tank for use with Trident Air Primer An additional air tank shall be installed
30-51-8100	1	Heat exchanger included with chassis
30-51-8500	1	Pump cooler with control valve, check valve Plumbed to tank fill tower
30-52-1002	1	Air Operated Master Drain Class 1 (Hale) #103005 Master drain valve with #104031 panel mounted air switch. ***Drain is normally open - closed by air pressure.
30-52-3001	1	Foam system not requested E
30-99-10AA	1	2-1/2" Speedlay Preconnect in pumphouse, SS, bleeder Speedlay to have capacity of minimum of 200 ft of 2-1/2" hose and nozzle. Speedlay tray is oriented in front of the 1-1/2" speedlays as shown on the proposal drawing . The speedlay tray will slide on UHMW and is removable. Tray is fabricated from aluminum plate. Hose rollers are installed around the speedlay openings at the front next to the cab (one vertical) and at the bottom (one horizontal). There is no vertical roller next to the body. The bottom horizontal hose roller will be located in such a way to help hold the speed lay tray in place (same as M16-18977).
	1	WATER AND FOAM TANKS
40-11-2100	1	Brayneck Canoplast water tank (Imperial gallons)
40-11-2200	1	Water tank capacity certification (tank manufacturer)
40-11-4500	1	Tank capacity 800 Imperial Gallons
40-13-0100	1	Through the tank tunnel - up to 1200 gallon tank For the two (2) 6" x 10' suction hoses (80-11-500)
40-21-1000	1	4" tank to pump connection
40-22-0500	1	2" tank fill connection
40-23-0500	1	1" water level gauge connection
40-23-1050	1	4" Fireman's Friend connection
40-30-0400	1	3" plug in sump box
40-30-1000	1	Water Fill Box front left corner
40-31-0400	1	Rear dump valve not requested E
40-31-9000	1	4" Storz rear fill, Fireman's Friend
	1	ELECTRICAL
50-11-0500	1	Base electrical system ***Includes green "Battery On" indicator light on chassis instrument panel. ***Electrical box is located in right side front compartment on back wall.
50-11-0600	1	Warning Light Certification
50-11-0700	1	Low Voltage Electrical system test

PART NO	QTY	DESCRIPTION
50-11-0800	1	Low Voltage Electrical System Documents As required by ULC and NFPA standards
50-11-0900	1	Rocker switch panel with master warning switch Rocker switches location on cab console 20-31-7500 ***Rocker switch assignments: MASTER -LIGHT BAR RED -FLASHING WARNING -FLASHING GREEN -LEFT SCENE -REAR SCENE -RIGHT SCENE -FRONT LEFT TELELIGHT -REAR LEFT TELELIGHT -FRONT RIGHT TELELIGHT -REAR RIGHT TELELIGHT -GROUND LIGHTS (to match last trucks, see note below) -SIREN/HORN (Ref 50-11-3500) ***Note that GROUND LIGHTS switch also powers the Hose Bed lights 60-99-10AA and the storage compartment lights 60-99-15AA
50-11-1460	1	Federal EQ2B 200 watt siren Located in cab console 20-31-7500 See also 50-99-05AA for foot switch activation for Officer.
50-11-1631	1	Siren speaker, 200 watt for EQ2B, in front bumper
50-11-2600	1	Siren to be accessible to driver and officer
50-11-3500	1	Horn ring transfer switch To switch between chassis horn and siren
50-11-6100	1	Light Bar Whelen Legacy 54" all red GB2RRRR or equivalent including Control Point Module for WeCan Lightbar to integrate with our wiring.
50-11-66AA	1	Rear LED Traffic Advisor warning lights - flush mount - TAM83
50-12-8520	1	Front LED flashers (pr)-Whelen one red, one green LED 600 with integral flasher One red (left side), one green (right side)
50-12-8610	1	Rear LED flashers (pr)-Whelen red LED 600 with integral flasher Installed in CAST 4V tail light module
50-12-8620	1	Rear LED flashers (pr)-Whelen red LED 900 with integral flasher
50-12-8710	1	Front side inter lts (pr) - Whelen red LED 600 with integral flasher Installed in bumper tails
50-12-8810	1	Body side inter lts (pr)-Whelen red LED 600 with integral flasher
50-12-8820	2	Body side inter lts (pr)-Whelen red LED 900 with integral flasher
50-21-2540	4	FRC telescoping SPECTRA LED 12V flood with hazard option (ea) Two mounted on front of pump house and two on rear of body as shown on the proposal drawing Switched in cab only, wired through the load manager. Hazard switch will be wired to the door ajar warning light in cab to warn if the lights remain extended if the park brake is released. FRC model - SPA530-Q15-SR-SW-A ***The Telights to be mounted so when in stowed position they are below the roof line to avoid catch hazards.(to match previous two trucks)***
50-21-2599	1	Hazard Light Circuit for Telescopic Floods (4) Wired to door ajar as described in 50-21-2540

PART NO	QTY	DESCRIPTION
50-21-5100	1	Compartment lighting - LED tube lights in each compartment (rollup doors)
50-21-5500	1	Door Ajar/Telescoping light warning light Located in overhead console over drivers seating position Bilingual Warning label in cab to read: "Do Not Move Apparatus when Light is on" To match M16-18977 - see pic 1098
50-21-8001	1	Step lights for body steps - 4" LED
50-21-8201	1	Step lights for chassis steps - LED 4 x 12" LED luma bars each side to illuminate cab step to meet ULC (8 total required).
50-21-8600	1	LED clearance lts and reflectors
50-21-8800	1	LED intermediate turn signal/clearance/reflector length >30'
50-22-0750	1	Whelen 64 LED CAST 4V tail/brake-turn-backup-warning module (pr)
50-31-6015	1	Whelen 900 LED scene lights (pr) - Left side - 9SC0ENZR Two left side as shown on the proposal drawing (switched in cab) wired through the load manager
50-31-6016	1	Whelen 900 LED scene lights (pr) - Rear - 9SC0ENZR Two rear as shown on the proposal drawing (switched in cab) - these lights cannot be managed - required for ULC
50-31-6017	1	Whelen 900 LED scene lights (pr) - Right side - 9SC0ENZR Two right side as shown on the proposal drawing (switched in cab) wired through load manager
50-31-6610	1	Ground lighting (4" LED) - 4 door chassis
50-31-6620	1	Ground lighting (4" LED) - side mount body Two under rear step and one under operators location on left side
50-35-0560	1	Antenna base only - commercial chassis - after prewire
50-35-0600	1	Price Adjustment
50-35-0600	2	Antenna base on chassis cab Locate on chassis roof behind light bar, one each side. Include weather cap
50-99-05AA	1	Foot Switch for Right Side EQ2B Siren Activation There shall be a foot switch installed on the right side for officer siren activation.
50-99-06AA	4	Stainless Steel Scuff Plates for Telelight Heads There shall be a stainless steel scuff plate behind the head of each telescopic flood light to prevent chipping of the paint. To match M16-18977 - see pic 1067 for the front and pic 1021 for the rear.
50-99-10AA	1	Inverter with Outlet A 1500 W inverter (1031847) shall be provided in the chassis cab (on back of console to match previous units - See pic 1328 under M16-18978). The inverter shall operate from 12 V DC and provide 120 VAC. ****Installation of the inverter shall be after the ULC test****
50-99-15AA	1	Whelen 900 Super LED - Green - Pair At rear below scene lights - separate switch in cab Light - 1570903 Flange - 1570497
50-99-20AA	1	LED Amdor H20 Tube Lights for Rear Step Lighting 2 x 20" LED Lumabars mounted as required to meet ULC for illumination of lower and upper rear inset steps. to match M16-18977, see pic 1027

PART NO	QTY	DESCRIPTION
51-31-4500	1	Dielectric strength test for line voltage system
	1	BODY
60-10-1400	1	Single axle extruded aluminum body
60-10-40AA	1	Flat back design with inset rear step/platform
60-10-4500	1	Aluminum tread plate fender surround - single axle
60-10-4770	1	Removable stainless steel fender trim - single axle E
		Required with 315 rear tires and bolt on rub rail
60-10-5440	1	Diamondback 12" rear step The rear step will be offset from the body to allow for ease of draining and cleaning. The rear step to match previous units.
60-10-6500	1	Bolt on extruded aluminum rub rail E
		White reflective to be installed in rubrails
60-11-0300	1	Front left side compartments full height E
60-11-0700	1	Front right side compartments full height E
60-11-1000	1	Rear left side compartments full height E
60-11-1400	1	Rear right side compartments full height E
60-11-2000	2	High side compartment (over 18") each
60-11-3100	1	No rear compartment E
60-11-5500	2	Rollup door - standard height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point
60-11-5520	4	Rollup door - full height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point
60-31-4100	1	Extruded aluminum handrails Two (2) Vertical rails will be mounted on the rear of the body (as close to the top of the body as possible), 1 each side and one handrail will be installed below the level of the hose bed. Minimum 2" clearance from handrail to any surface
60-31-5500	1	LED lighted Folding Steps with Gasket Lighted, recessed into the inset part on each side of the apparatus body - three (3) per side. Additionally there shall be two (2) folding steps (non LED type) at front base of body to access the sped lays - one each side to match previous units. These steps shall be illuminated by the 4" LED lights in front of body.
60-31-6500	1	Compartment matting-Turtle tile
60-31-8003	4	Double SCBA Cylinder Storage Compartments Two in each rear fenders CPI #AD2002-21P-A These come complete with bottle restraining straps Note that these doors are to be wired into the door ajar warning light due to size Label forward tube on LS "O2/RIT"
60-31-8400	1	Fixed vertical partition Rearward of pump operator's panel in left front compartment as shown on the proposal drawing.
60-31-8800	3	Sliding tray (ea) - 600 pound capacity 100% extension ***100% extension hardware requires 4" of compartment height All install at floor level in the following locations; Tray #1 - Left side rear compartment Tray #2 - Right side front compartment Tray #3 - Right side rear compartment Reflective stripe is applied on the exposed edge for visibility when the compartment door is open

PART NO	QTY	DESCRIPTION
60-31-9600	5	Adjustable shelf (ea) 1 - L3 full depth 1 - R1 full depth - additional unistrut required to prevent bending as current truck - see photo in job folder 1 - R2 shallow depth 2 - R3 shallow depth Reflective stripe is applied on the exposed edge for visibility when the compartment door is open
60-32-3550	1	Two adjustable hose divider (each) To match previous units Hand hold required in end
60-32-7500	1	Hose bed - aluminum
60-33-0000	1	Paint exterior - Imron Elite *** Paint code and colour red to match cab
60-33-0200	1	Undercoat vehicle with KROWN rust protection
60-33-0600	1	Chassis wheels not painted Chassis is ordered with Aluminum wheels with trim
60-33-1000	1	Paint pump and plumbing job colour
60-33-1500	1	Buffed finish compartment interior
60-33-2200	1	Lettering - 80 letters up to 3" tall - 3 colour *** Vinyl letters, Fire Department to provide details on location and text. Include 2" red reflective "O2/RIT" on officer side forward SCBA storage tube door
60-33-3200	1	Reflective stripe - 4" -1" white 50% of perimeter each side and 25% of perimeter front The stripe will consist of a 4" wide stripe with 1" separation below the stripe followed by a 1" stripe. The stripe shall be installed horizontally through the cab doors and angle up through the L1/R1 door in a "hockey stick" fashion and continue through the rear doors at the new height.
60-33-3310	1	Reflective stripe - red and yellow chevron at rear Minimum 50% of rear vertical surface
60-33-3600	1	Reflective stripe - inside entry doors 96 square inches minimum inside each cab entry door
60-33-4000	1	End tarps for speedlays - black End tarps shall have quarter turn fasteners at top and Velcro straps around footman loops - not the hose roller. See photo in job folder for concerns. Suggest footman loop be installed on panel hood..
60-33-5000	1	Aluminum cover over hose bed with end tarps - black E End tarps shall have Velcro straps around footman's loops located for easy use - see photo in job folder for concerns. May want to install footman loop on flat step surface.
60-40-2000	2	4" Hose tube - top mount (ea) At right side of hose bed behind the water fill box and extending to the back of the hose bed as shown on the updated proposal drawing Aluminum tread plate door required, vertically hinged and wired to the door ajar warning light in cab. For Customer's suction hoses - Customer to specify dimensions; OA length - _120"_ OA distance across long handles on female coupling - _10-7/8" _
60-40-5500	2	Suction hose tube (each) with door Through the tank with a common smooth plate painted door (with Chevron applied) with "D" ring type latch. Door will flip up with a mechanical door stay (1560186 - Plunger and socket type).

PART NO	QTY	DESCRIPTION
		For the 6" x 10' Suction hoses 80-11-5000 Door ajar switch required
60-40-9000	1	<p>Tube mount for ladders, with rear door Ladder storage tunnel shall be integral to the body and be accessible from the rear of the apparatus as low as possible. Include a horizontal divider between the extension ladder and the roof ladder to allow either ladder to be removed independently - will increase height of tube approximately 2" and reduce the hose bed depth by the same amount resulting in a hose bed capacity of approximately 49 cubic feet. Ladder tunnel shall provide storage for one 24' 2 section ladder (80-14-0500), one 14' roof ladder (80-14-5500), one 10' attic ladder (80-14-8500), and two pike poles (80-13-2510 & 80-13-25AA). The tunnel shall be fitted with a drop down smooth plate painted door (with Chevron applied) with "D" ring type latch. Door ajar switch required.</p>
60-41-1000	2	<p>Pike Pole tube Incorporated with 60-40-9000</p>
60-41-1500	1	<p>Attic ladder tube Incorporated with 60-40-9000</p>
60-91-0900	2	<p>Price Adjustment</p>
60-91-0901	4	<p>Coffin compartment (ea) There shall be two small coffin compartments in the fender top area on each side of the truck for a total of four. The coffin compartments shall be forward of the hose bed covers and behind the hose bed covers each side as shown on the updated proposal drawing. Each coffin compartment shall have a deck pate door, wired to a switch to operate an LED Lumabar and to activate the Door Ajar warning light when the door is open and the park brake released. Coffin compartments to be constructed as stand alone units, not just holes in the top of the body.</p>
60-91-1000	1	<p>Aluminum corner guards on front outside corners of body To match previous units</p>
60-99-0050	1	<p>P9 placards each side Install "P9" placards on front bumper, rear wall of body, each side of pump house</p>
60-99-05AA	1	<p>Full width Intermediate rear step Part of compartment design as shown on proposal drawing.</p>
60-99-10AA	1	<p>LED Hosebed Lighting 40" LED Lumabars mounted on under side of Hose Bed covers. The lights shall activate when when the covers are raised. The lights shall also be activated from the ground light switch Doors to be wired to the door ajar light (so wired the same as a cab door)</p>
60-99-20AA	1	<p>Mesh Swingout Toolboard Located in left side compartment over rear wheels. Single swing out, hinged at front, mounted midway in compartment depth. Requires flashing lights and reflective stripe. 1/3 of panel (towards rear of truck) to be smooth plate as shown in photo in job folder.</p>
60-99-25AA	2	<p>PAC TRAC in Compartments There shall be PAC Trac on the compartment walls in the following compartments and locations: - L1 upper above the shelf - R1 left of the pump panel door from the body break to the same height as the access door 3 - 1562631</p>

PART NO	QTY	DESCRIPTION
	1	INSTRUMENTATION
70-11-0000	1	Warning Label on Pump Operator's Panel
70-11-0500	1	Side mount instrument panel In left side front compartment No gauge or visual display can be higher than 84" above the operator's standing position. Midpoint of any control cannot be higher than 72" above the operator's standing position.
70-11-10AA	1	Linkage controls in LS front compartment
70-11-3200	1	Colour coded tags To match previous units
70-11-40AA	1	Lumabar lighting for left side pump panel - under stainless steel panel hood
70-11-41AA	1	Lumabar lighting for right side pump panel - under stainless steel panel hood
70-11-5200	1	Storage over pumphouse The area above the pump house shall be equipped with a dunnage area with an aluminum cover accessible from the top of the unit. The cover shall be fabricated of aluminum deck plate and shall incorporate hold open devices and D ring latch. There shall be interior LED lumabar lights, activated when doors are opened and from ground light switch in cab, and wired to the door ajar warning light in cab.
70-11-55AA	1	Right side pump access panel in back wall of front right compartment No opening dimension less than 18" Four lift and turn latches required
70-11-7500	1	Heat pan-aluminum
70-11-8020	1	25,000 BTU Pumphouse Heater (pair) Two 25,000 BTU heaters shall be installed in the lower pump compartment area. The heaters shall be connected to the chassis engine coolant system and shall include 12V blowers. The heaters shall be controlled at the pump operator's panel.
70-11-81AA	1	Pump Panel Suction/Discharge Gaskets Rubber gaskets around all openings to retain heat in pump compartment Also fully gasket around monitor opening in hose bed
70-20-0500	2	4-1/2" compound gauge - dual face 0-600 To be within 8" of each other - edge to edge
70-20-1500	9	2-1/2" pressure gauge - dual face 0-600 Gauge to be no more than 6" from edge of the gauge to the center of the control.
70-20-3200	1	FRC Pump Boss Governor Control Throttle can be no lower than 42" and no higher than 72" from operator's standing position.
70-20-3510	1	Electric water level gauge on pump panel and at rear, Class One
70-20-6500	1	Test gauge panel Mount below the compound gauges for proper draining
70-20-7500	1	Heat exchanger control valve
70-20-7600	1	Pump cooler control valve Plumbed to tank fill tower
70-21-2100	1	PTO Hourmeter Mounted on pump operators panel
70-21-5500	1	Panel readout for Battery Conditioner Mounted adjacent to Auto Ejects in drivers step area.
	1	ACCESSORIES
80-11-5000	2	6" x 10' lightweight suction hose (ea) Threaded NH fittings Tube mounted

PART NO	QTY	DESCRIPTION
80-12-2500	1	6" barrel strainer Threaded NH fittings Not mounted - shipped loose
80-13-0500	1	Rubber mallet - dead blow type Not mounted - shipped loose
80-13-2200	1	Pike Pole, Fibreglass Handle - 8' Long Tube mounted - label which tube houses which pike pole.
80-13-2510	1	Pike pole, fibreglass handle - 6' long Tube mounted - label which tube houses which pike pole.
80-14-0500	1	24' 2 section extension ladder PEL 24 Tube mounted
80-14-5500	1	14' aluminum roof ladder PRL-14 Tube mounted
80-14-8500	1	10' aluminum folding attic ladder FL-10 Tube mounted
80-15-6500	1	6" external suction butterfly valve Not mounted - shipped loose Assemble and confirm it will fit before shipping.
80-18-0600	4	SCBA bracket - Bostrom Secureall Supply and install Bostrom retrofit kits in Freightliner SCBA seats. Will involve removing present bottom seat cushions, install new bottom cushions and install the SecureAll type SCBA bracket in seat back
80-19-0500	2	Large folding wheel chock - aluminum (ea) Stored in Poly Box supplied by Carrier
80-20-3000	4	Portable hand light with charger Streamlight Survivor Mounted on back of console, wired to 12 VDC
80-99-0010	1	20' Duo Safety Roof Ladder
80-99-10AA	1	TFT AB8NX-NX Steamer Port Ball Valve A TFT AB8NX-NX steamer port ball valve (1551307) shall be included with the apparatus.
80-99-15AA	1	TFT Hurrigan Remote Controlled Monitor One (1) monitor and nozzle shall be supplied and installed on the completed apparatus; One (1) TFT Hurricane remote controlled monitor (XFIH-E11A). 1521669 One (1) TFT 30' Tethered Mount Monitor Operation Station (Y4E-CT-30). One (1) TFT Master Stream 1250 ER Nozzle (M-ERP1250SNJ). 1521672 Ordered with CSA threads. One (1) TFT 3" Remote controlled telescoping waterway (XGA38VL-RL). 1521670 Nozzle swivel and monitor outlet to be 2-1/2" CSA thread.
80-99-20AA	1	TFT Pro PAK Foam System The apparatus shall be equipped with a TFT Pro-Pak Foam System (1521677). Not mounted - shipped loose
80-99-25AA	5	Collapsible Traffic Cones - PACK A CONE brand Not mounted - shipped loose Model PAC-012-30 with interior LED lights
80-99-40AA	2	MaxxFORCE TFT 2-1/2" Nozzles Not mounted - shipped loose HD-2VPGI DUAL FORCE with grip 2-1/2" CSA, one with yellow handle and one with blue

