



## Shop Order

Fredericton Regional Centre  
Suite 2300  
300 St.Mary's Street  
Fredericton, NB E3A 2S4

Fundy Bay Fire Department

**Sales Rep:**  
Gordon Green  
Metalfab Ltd

**Terms:**  
Chassis, body and equipment - Net 30 days

**Drawing #:** FT-11539  
**Est. Delivery Date:** / /  
**Customer PO #:** P100201022  
**Customer #:** 1187  
**QPF #:**

**Penalty:**  
None

**Exp. Date:** 02/19/2022  
**Quote No:** G-PNB Top Mount-0012  
**Job/Order No:** 22512  
**BODY:** 00-10-15 Metalfab Pumper - ULC 05/13

01/17/2024

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PART NO	S	DESCRIPTION	QTY	ID
	S	<b>== Metalfab Pumper - ULC 05/13 - 0.000 ==</b> <b>Change Order D</b> Customer Contact is Justin Johnson, Eastern Charlotte Fire Department		<b>MTL</b> <b>MTL</b>
00-05-0010		Dealer - Metalfab	1	MTL
00-10-1500		Metalfab Pumper	1	MTL
00-20-1000		Company Profile	1	MTL
00-20-1501	S	<b>One year base warranty</b> If the vehicle requires repairs at the Manufacturers facility or their Authorized Repair Facility, all costs including transportation costs to and from their facility shall be the responsibility of the Manufacturer (for the Warranty Period).	1	<b>MTL</b>
00-20-1550		Metalfab Limited Ten (10) Year Paint and Corrosion Warranty	1	MTL
00-20-1700		Hale Pump Warranty - 5 years	1	MTL
00-20-1800		Polypropylene Tank Lifetime Warranty	1	MTL
00-20-2000		Plant Visits - unlimited at customer expense	1	MTL
00-20-3500		Certification for Fusion Welding of Steel and Aluminum	1	MTL
00-20-4000		Quality System registered to ISO 9001:2015	1	MTL
00-20-4500		Fire Apparatus Manufacturers' Association Membership	1	MTL
		<b>GENERAL INFORMATION</b>		<b>MTL</b>
10-11-0000		Intent	1	MTL
<b>10-11-0110</b>		<b>Vehicle data recorder included with chassis</b>	<b>1</b>	<b>MTL</b>
<b>10-11-1101</b>		<b>ULC S515-13 and NFPA 1901-2016 Compliance</b>	<b>1</b>	<b>MTL</b>

PART NO	S	DESCRIPTION	QTY	ID
10-11-1500	S	<p><b>&gt; ULC Testing - Pumper - Imperial units of measure</b></p> <p>Separate flow test shall be taken for the rear suction flow rate.</p> <p>Written test results shall be presented to the Department of Environment and Local Government personnel during final inspection.</p>	1	MTL
10-11-2100		<p><b>Maximum length not specified</b></p> <p>Discuss at pre-construction meeting:</p> <p>Department to advise the fire hall bay length:</p> <hr/>	1	MTL
10-11-2200		<p><b>Maximum height not specified</b></p> <p>Discuss at pre-construction meeting:</p> <p>Department to advise the fire hall door opening height:</p> <hr/>	1	MTL
10-11-2400		<b>Overall length is 30' or more</b>	1	MTL
10-11-2500		General Construction	1	MTL
10-11-2600	S	<b>Virtual Pre-construction Meeting</b>	1	MTL
10-11-3000	S	<p><b>Manuals - three copies - two (2) hard and one (1) digital</b></p> <p>At the time of delivery, two (2) hard copies and one (1) digital copy of complete operation and service manuals will be provided covering the completed apparatus (body and equipment) as delivered and accepted, including the pump, wiring diagrams, lubrication charts, and fire fighting equipment delivered with the apparatus. Chassis manuals are those supplied by the chassis manufacturer.</p> <p>Body manuals are to include a parts list and a recommended service and maintenance schedule.</p> <p>Body manuals shall also contain the following drawings:</p> <p>All electrical drawings</p> <p>Accessory mounting</p> <p>All drawings shall be ledger size - 11" x 17"</p>	1	MTL
10-11-3600	S	<p><b>&gt; Delivery - FOB Fire Department - minimum 8 hours of orientation</b></p> <p>There will be a full day (8hrs) of orientation included when the unit is delivered to the fire department</p>	1	MTL
10-11-36AA	U	<p><b>Orientation Video</b></p> <p>There will be an orientation video included so the department will be able to use it to train other firefighters after the truck is put in service</p>	1	
10-11-4300	S	<b>Payment Terms - Chassis and Body NET 30</b>	1	MTL
10-20-1000	S	<p><b>Hose bed capacity - standard ULC Pumper</b></p> <p>Hose bed designed to carry 1200' of 2.5" hose and 400' of 1.75" hose. Extra hose may cut water capacity or require body change.</p> <p>Department to supply expected hose load in order to ensure proper amount of hose bed capacity is supplied and proper weight is calculated:</p> <hr/> <hr/>	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
10-20-2000	S	<b>Equipment carrying capacity - standard ULC Pumper - 2000lb of equipment</b>	1	MTL
		<b>CHASSIS INFORMATION</b>		MTL
20-11-1010	U	<b>Chassis supplied by Freightliner M2 112 4-door</b> Freightliner M2 112, 4-door cab, Single rear axle 14,600lb Front Axle, 31,000lb Rear Axle, 45,600lbs GVWR 267" wheelbase, 155" cab to axle, 70" rear frame overhang Cummins L9 450EV HP @2100 RPM, 2200 gov RPM, 1250lb-ft @1200RPM Allison 3000EVS Automatic transmission, 5-speed, Package 198 Driveline series 1710 Cummins Engine integral brake with brake light activation to meet NFPA 68 MPH top speed 275 amp alternator 189 liter fuel tank, LH under cab with 6 gallon DEF - clean back of cab required. 12-volt power supply and dual USB on dash Polished aluminum wheels Hood mounted air horns with dual lanyards ESC Leaf suspension Single tone paint - L5994EY Harvester Red Elite	1	
		Changes required to chassis Add Engine compartment light Add wheel trim Seats will be black vinyl rather than gray due to supply issues at Freightliner		
20-11-10AA	U	<b>Chassis Dealer - Valley Equipment - Hartland, NB</b>	1	
20-11-1500		2013 Emission chassis modifications	1	MTL
20-11-1700		<b>Chassis Motor Vehicle Inspection required - NB</b> Completed unit is provided with a New Brunswick Motor Vehicle Inspection dated the month of delivery.	1	MTL
20-21-0500		<b>Fluid capacity plate</b>	1	MTL
20-21-0600		<b>Pumping test plate</b>	1	MTL
20-21-1030		<b>Maximum riders sign - 5 persons</b>	1	MTL
20-21-1510		<b>Seat belt warning labels - 4 door chassis</b>	1	MTL
20-21-1520		<b>Helmet warning label - do not wear helmet</b>	1	MTL
20-21-1560	S	<b>LED Tire Pressure Indicators - Single Axle - installed prior to delivery</b>	1	MTL
20-21-1600		<b>Apparatus Information Label</b> An information label is provided in the chassis cab, visible to the driver, stating: "When manufactured, this vehicle was: ** m high ** m long	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		** kg GVW Changes in height since the apparatus was manufactured shall be noted on this plate by the Fire Department"		
20-21-2000		Non removable key	1	MTL
20-21-2500		Shifter lock not required	1	MTL
20-21-3500		Rear step warning label	1	MTL
<b>20-21-3810</b>		<b>Front mudflaps provided with chassis</b>	<b>1</b>	<b>MTL</b>
20-21-4000		Rear mudflaps - Metalfab Logo	1	MTL
20-31-0200		Fuel fill label -Ultra Low Sulfur Diesel only	1	MTL
<b>20-31-1000</b>		<b>Alum tread fuel tank trim, Conv - 4 door</b>	<b>1</b>	<b>MTL</b>
		Vertical trim only, OEM cab steps remain		
<b>20-31-1900</b>	<b>S</b>	<b>Chassis cab painted single tone by chassis OEM</b>	<b>1</b>	<b>MTL</b>
<b>20-31-70AA</b>	<b>U</b>	<b>Install wheel trim provided by chassis dealer</b>	<b>1</b>	
<b>20-31-7500</b>	<b>S</b>	<b>Standard Metalfab Console in Freightliner chassis</b> Room required to Install the following: 20-41-5500 - On Spot switch 30-51-0500 - Pump shift 50-11-0900 - Rocker switch panel 50-11-1470 - Siren 50-11-7600 - Signal Master controller 50-35-0510 - blank plates for radio provisions Gray zolatone finish with flat black powder coated plates Storage area with hinged cover and lift and turn latch provided at rear of console.	<b>1</b>	<b>MTL</b>
<b>20-41-0600</b>	<b>S</b>	<b>Intake air shutoff for engine not requested</b>	<b>1</b>	<b>MTL</b>
<b>20-41-0900</b>		<b>Auxiliary braking system disabled when pumping</b>	<b>1</b>	<b>MTL</b>
20-41-1100		Transmission programming - Allison WT	1	MTL
<b>20-41-1500</b>		<b>Extend exhaust pipe - RS front of rear wheels</b> 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. No special provision for fire hall ventilation system	<b>1</b>	<b>MTL</b>
20-41-1900		Battery boost terminals with chassis	1	MTL
20-41-2000		Chassis batteries remain in OEM location	1	MTL
20-41-2510		Fuel fill at step fuel tank under cab	1	MTL
20-41-2600		Chassis fuel tank remains in OEM location	1	MTL
<b>20-41-5100</b>	<b>S</b>	<b>Rear Tow Hook - pintle hook</b> Through the back wall of the back compartment connected directly to frame, provided with a rubber gasket and trim plate	<b>1</b>	<b>MTL</b>
<b>20-41-5500</b>		<b>ON SPOT Automatic traction chains</b> Switch to be mounted on console (20-31-7500) with protective guard unless otherwise specified	<b>1</b>	<b>MTL</b>
<b>20-51-0710</b>		<b>Master Battery Disconnect included with Freightliner chassis</b>	<b>1</b>	<b>MTL</b>
<b>20-51-2500</b>		<b>Back up alarm included with chassis</b>	<b>1</b>	<b>MTL</b>

PART NO	S	DESCRIPTION	QTY	ID
20-51-3400		Protection valve installed for air operated accessories	1	MTL
20-51-3500		<b>Air outlet</b> A female air outlet fitting will be installed to allow use of chassis air. The air line is plumbed through the air system protection valve to prevent loss of braking air pressure. Located on left side pump panel.	1	MTL
20-51-4000	S	<b>Auto eject for air inlet - LS Pump panel</b>	1	MTL
20-51-5610	U	<b>Flashing headlights provided with chassis, switched in cab</b>	1	
20-51-6200	U	<b>Price Adjustment</b>	1	
20-51-6200	S	<b>&gt; 120 volt 20 A shore line connection in chassis cab</b> Standard 5-20R duplex receptacle in chassis cab, not fused Locations: 1 - on back wall of chassis cab for Kussmaul Conditioner 2 - on back of console 3 - high in L1 compartment 4 - high in L2 compartment 5 - high in R1 compartment	5	MTL
20-51-6502	U	<b>Kussmaul Autocharge 1200 battery conditioner with auto eject and readout</b> Battery conditioner mounted behind the rear left side SCBA seat Auto Eject and readout located in the left side pump panel area.	1	
20-51-7102	S	<b>Electric System Manager - VMUX</b>	1	MTL
20-51-8505	S	<b>Engine compartment light included with chassis and controlled by OEM switch</b>	1	MTL
20-51-9001	S	<b>Air horns included with chassis and controlled by chassis OEM lanyards</b>	1	MTL
20-52-3500		<b>&gt; Chassis steering wheel lined up by Metalfab</b>	1	MTL
20-52-4009	S	<b>Pro-Vision camera system - 4 cameras - front, right, left and rear - with DVR</b> Monitor to be mounted on chassis dash with a rigid mount with forward camera mounted on the same bracket P/N1530928 To be programmed so rear camera view is shown on monitor when transmission is placed in reverse; LS camera view is shown on monitor when the LS turn signal is active; and RS camera view is shown on monitor when the RS turn signal is active.	1	MTL
20-60-0400		Chassis wheelbase does not change	1	MTL
20-90-16AA	U	<b>Dual USB charging socket supplied by chassis OEM</b> <b>PUMP AND PLUMBING</b>	1	MTL
30-11-5600		Hale QFLO Single stage 1050 IGPM	1	MTL
30-12-3300		Mechanical seal for Hale QFLO pump	1	MTL
30-15-0102		<b>Plumbing - Hale manifold pump TM SS</b>	1	MTL
30-20-1000		<b>Valves and controls - top mount panel</b>	1	MTL
30-20-1003		<b>Elkhart valves specified</b>	1	MTL
30-20-1600		<b>Piping stainless steel - general</b>	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
30-20-1700	S	1-1/2" thread specifications - NPSH to match M08-12801 Confirmed at pre-construction meeting	1	MTL
30-20-1800	S	2-1/2" thread specifications - 2.841x8 to match M08-12801 Customer confirmed these threads are correct	1	MTL
30-20-18AA	U	<b>Red Head Storz adapters</b> Red Head adapters from customer thread to Storz shall be supplied for all 2-1/2" discharges, 2-1/2" suction inlets, including the SSRV discharges complete with caps where necessary. Department shall supply thread specification of their existing hoses. Will not be required if the Fire Department thread is Storz	1	
30-20-2000		<b>Piping hydrostatic test</b>	1	MTL
30-20-2500		<b>Anodes in suction and discharge piping</b> Install one anode on discharge side of pump, one anode on suction side of pump - do not use teflon tape or thread sealant. Paint flange silver and mask brass anode before painting for visibility. *** Order with pump	1	MTL
30-21-9530		> <b>Tank to Pump 4" Elkhart ball valve SS, electric Apex-S control on pump panel</b>	1	MTL
30-22-1530		<b>Tank Fill valve 2-1/2" TM SS</b>	1	MTL
30-31-4010	S	<b>Suction - 6" each side manifold pump - gated</b>	1	MTL
30-31-6028	U	<b>Suction - 5" SS piping to rear - electric control - 6" connection, bleeder</b> Suction shall be located on the left-hand side of the rear, below the 10" rear dump inside the rear compartment extended to the area near the rollup door to facilitate making the connection. Bleeder for the suction shall be on the back wall of the back compartment and left side pump panel. Control for the electric valve (ref 30-31-7200) shall be on the top mount pump operators panel. There shall be a minimum of 625 IGPM flow capacity delivered at draft. A flow test shall be taken and written test results shall be presented to the Department of Environment and Local Government personnel during final inspection.	1	
30-31-7200		> <b>Hale master intake suction valve - electric control</b> Suctions to be gated are 6" LS, 6" RS and 6" rear inlets. All three electric controls will be located on the top mount pump operators panel. The manual over ride controls will be adjacent to the corresponding valve.	3	MTL
30-32-7530	S	<b>Suction - 2-1/2" left side SS, bleeder, Hale manifold pump, control at valve</b>	1	MTL
30-32-8030	S	<b>Suction - 2-1/2" right side SS, bleeder, Hale manifold pump, control at valve</b>	1	MTL
30-40-2030	S	<b>4" right discharge TM SS, plumbed 3", Hale manifold pump, 4" Storz cap, bleeder</b>	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
30-41-2030		2-1/2" RS discharge TM SS, bleeder, Hale manifold pump	1	MTL
30-41-2530		2-1/2" LS discharge TM SS, bleeder, Hale manifold pump	2	MTL
30-43-1530		2-1/2" rear discharge TM SS, plumbed 2-1/2", bleeder Each side as shown on proposal drawing	2	MTL
30-44-0530	S	1-1/2" crosslay (each) TM SS, 2" valve, bleeder Capacity to be 200' x 1-3/4" hose plus pistol grip nozzle in each hose bed	2	MTL
30-44-6530		Piping for monitor TM SS, plumbed 3", bleeder The plumbing will be capped for future installation of a customer supplied monitor. There will be a bleeder on the left side pump panel The plumbing will be centered from left to right and will be between the pump panel and the crosslays. Thread will terminate 2" above the pump house.	1	MTL
30-51-0500		Pump shift-Midship air ***Includes "Pump Engaged" and "OK to Pump" indicator lights in cab ***Includes "Throttle Ready" indicator light on Pump operating panel	1	MTL
30-51-0700	S	Pump Gearbox mounted manual over ride for pump shift Provide an information label on the pump panel to tell how to accomplish an Emergency Pump Shift using this over ride. See page 2-8 of Muscle Pump manual for the details.	1	MTL
30-51-6640		Class One "TPG Plus" Governor/Throttle	1	MTL
30-51-7005	U	Suction side relief V/V, manifold pump For the 6" LS gated inlet, 6" RS gated inlet and 6" rear gated inlet. Red Head adapters required on all three. Include Red Head Storz adapters to Customer's threads (ref 30-20-18AA)	3	
30-51-7719		Trident Automatic Air Primer 3 barrel 4 location with gauge Locations. 1. Pump 2. Left pre-prime 3. Right pre-prime 4. Rear pre-prime	1	MTL
30-51-7720	S	Additional air tank for air primer system with chassis An additional air tank is provided to improve air primer capacity	1	MTL
30-51-8100		Heat exchanger included with chassis	1	MTL
30-52-1000		Master drain V/V, 12 port	1	MTL
30-52-2000		Drain valve for foam system header	1	MTL
30-52-5515	U	Foam system-Hypro 2001 Single Tank Foam system is plumbed to two (2) 1-1/2" crosslays, one (1) 2-1/2" RS discharges and one (1) 2-1/2" rear discharge (on right of body).	1	

PART NO	S	DESCRIPTION	QTY	ID
30-52-8100		<i>Electric foam fill pump with panel pickup</i> There shall be one (1) pump panel foam pick up connection for the foam tank, located on the right-side pump panel. Control for the foam fill pump shall be located on the right-side pump panel. Included will be a hose with the mating connection to the panel connection to allow filling from a ground level foam pail. The hose shall be stored inside the right-side pump access door on a bracket.	1	MTL
30-52-9100		<i>Foam concentrate label at foam tank fill</i>	1	MTL
30-52-9200		<i>Foam System Instruction Plates</i>	1	MTL
30-52-9400		<i>NFPA Foam System certification test</i>	1	MTL
		<b>WATER AND FOAM TANKS</b>		MTL
40-11-2100		Polypropylene water tank (Imperial gallons)	1	MTL
40-11-2200		Water tank capacity certification (tank manufacturer)	1	MTL
40-11-5000		Tank capacity 1000 Imperial Gallons	1	MTL
40-12-5000		<i>Foam cell - 30 Imperial gallon</i>	1	MTL
40-13-0100		> <i>Through the tank tunnel - up to 20 cu ft</i> Requires Porta Tank tube storage 60-40-9500	1	MTL
40-21-1000		<i>4" tank to pump connection</i>	1	MTL
40-22-1000	S	<i>2-1/2" tank fill connection</i>	1	MTL
40-23-0500	S	<i>3/4" water level gauge connection</i>	1	MTL
40-23-1000	S	<i>3/4" foam level gauge connection</i>	1	MTL
40-23-1050		<i>4" Fireman's Friend connection</i>	1	MTL
40-23-1060		<i>10" Newton dump connection</i>	1	MTL
40-30-0500		<i>Sump drain valve (3" gate valve) with linkage</i>	1	MTL
40-30-1000		Water Fill Box front left corner	1	MTL
40-31-3500		<i>10" rear Newton dump, stainless steel</i>	1	MTL
40-31-3600		<i>Newton dump - stainless steel 36" telechute</i>	1	MTL
40-31-5510		<i>Electric operator for Newton dump, side mount</i> Switch is located on the left rear above the tail lights and flashing warning light. Provisions are made to allow manual operation of the dump line in the event of an emergency. Manual handle to be included	1	MTL
40-31-9010	U	<i>4" Storz rear fill, Fireman Friend</i> There will be a 4" Fireman Friend with a 30-degree droop supplied and installed in the rear compartment of the unit. The connection will be extended to the area near the rollup door to facilitate making the connection. Bleeder required	1	
		<b>ELECTRICAL</b>		MTL
50-11-0300		<i>Base electrical system - multiplex</i>	1	MTL
50-11-0600		<i>Warning Light Certification</i>	1	MTL
50-11-0700		<i>Low Voltage Electrical system test</i>	1	MTL
50-11-0800		<i>Low Voltage Electrical System Documents</i> As required by ULC and NFPA standards	1	MTL
50-11-0900	S	<i>Rocker switch panel with master warning switch on console 20-31-7500</i> ***Rocker switch assignments:	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		MASTER -LIGHT BAR RED -REAR BEACONS -FLASHING WARNING -REAR FLOODS		
50-11-1470		<i>Whelen 295SLSC1 100 Watt / 200 Watt siren - with removable microphone</i>	1	MTL
50-11-1630		> <i>Siren speaker, 200 watt, in front bumper</i>	1	MTL
50-11-2600		<i>Siren to be accessible to driver and officer</i>	1	MTL
50-11-5812		<i>Federal LPX53DS - NFPA LED light bar</i> Red only - all lights are enabled in both Response and Scene modes - flash pattern to change when park brake is set. Metalfab part # 1571015	1	MTL
50-11-7600		> <i>Rear LED Federal Signal Master warning lights SL8S</i> To be installed under the rear intermediate step (60-31-5800) Includes economy controller to be installed in the console (20-31-7500)	1	MTL
50-11-9010	S	<i>Rear beacons - Federal NVG10 LED (pr) - both red - even with top of body</i>	1	MTL
50-12-5028	U	<i>Front LED flashers (pr)-red Federal QL43-RR</i>	1	
50-12-5118	U	<i>Rear LED flashers (pr)-red Federal QL43-RR</i>	1	
50-12-5218	U	<i>Front side inter Its (pr)-red LED Federal QL43-RR - side of hood</i>	1	
50-12-5318	U	<i>Body side inter Its (pr)-red LED Federal QL43-RR</i>	2	
50-21-1505		<i>Rear floods (pr) Unity LED</i> Switched in cab and with reverse of transmission Note that these lights are also used as rear step lights and cannot be managed PN# 1030375	1	MTL
50-21-2547	U	<i>FRC Telescoping Spectra LED 12V flood (ea)</i> Mounted on back of chassis cab and switched at pump panel Includes No Scratch option Can be managed to be shed Hazard switch wired to equipment not stowed warning light in chassis cab Part # 1032144	2	
50-21-5100		> <i>Compartment lighting - LED tube lights in each compartment (rollup doors)</i> 4" recessed light in the R2 compartment due to the compartment height	1	MTL
50-21-5500		<i>Door Ajar warning light</i> Bilingual Warning label in cab to read: "Do Not Move Apparatus when Light is on" Located above the driver seat position	1	MTL
50-21-5550		<i>Equipment rack not stowed warning light</i> Bilingual Warning label in cab to read: "Do Not Move Apparatus when Light is on"	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		Located above the driver seat position The ladder rack (60-41-9001) and Extenda lights will be wired to this warning light		
50-21-8001		<b>Step lights for body steps - 4" LED</b> Lights to be activated with the park brake application	1	MTL
50-21-8110		<b>Step lights for walkway - 4" LED</b> Lights to be activated with the park brake application	1	MTL
50-21-8201	S	<b>Step lights for chassis steps - LED</b> Lights to be activated with the park brake application	1	MTL
50-21-83AA	U	<b>LED bullet lights for step over rear compartment</b> Lights will be activated with the application of the park brake Metalfab part # 1032008	1	
50-21-8600		LED clearance lts and reflectors	1	MTL
50-21-8800		<b>LED intermediate turn signal/clearance/reflector length &gt;30'</b>	1	MTL
50-22-0700	S	<b>Whelen 64 LED tail/brake-turn-backup module (pr)</b>	1	MTL
50-31-6560		<b>Ground lighting (LED Lumabar) - 4 door chassis</b> Lights to be activated with the park brake application	1	MTL
50-31-6580		<b>Ground lighting (LED Lumabar) - top mount body</b> Lights to be activated with the park brake application	1	MTL
50-31-65AA	U	<b>Hose bed cover lights</b> There will be lights mounted under the hose bed cover (60-33-5000). They will be switched with the park brake	1	
50-35-0510	U	<b>Provision for installation of customer supplied mobile radio</b> Provision for two (2) customer radios is provided in the chassis console 20-31-7500. 12-Volt power and ground is provided for these radios, powered from the master kill switch and fused for 30A. There will be a signal from the ignition required. Blank plates will be supplied to allow the future installation of radios by the fire department	2	
50-35-0560		<b>VHF antenna with base - commercial chassis</b> To be installed minimum 18" behind the lightbar unless otherwise specified	1	MTL
50-35-0590	S	<b>Cellular/TMR antenna with base - commercial chassis</b> To be installed minimum 18" behind the lightbar unless otherwise specified	1	MTL
		<b>BODY</b>		MTL
60-10-1400		Single axle extruded aluminum body	1	MTL
60-10-4100		No "beavertail" rear step supports	1	MTL
60-10-4600		Painted fender surround	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
60-10-4700		Integral aluminum fender trim	1	MTL
60-10-5400		> Diamondback pumphouse steps	1	MTL
60-10-5430		> Diamondback 19" rear step	1	MTL
60-10-6000		Extruded rub rail	1	MTL
<b>60-11-0300</b>		<b>&gt; Front left side compartments full height</b>	<b>1</b>	<b>MTL</b>
<b>60-11-0600</b>		<b>&gt; Front right side compartments intermediate height</b>	<b>1</b>	<b>MTL</b>
<b>60-11-1000</b>		<b>&gt; Rear left side compartments full height</b>	<b>1</b>	<b>MTL</b>
<b>60-11-1300</b>		<b>&gt; Rear right side compartments intermediate height</b>	<b>1</b>	<b>MTL</b>
<b>60-11-1900</b>	<b>S</b>	<b>&gt; Low side compartment (up to 18") each - R2</b>	<b>1</b>	<b>MTL</b>
<b>60-11-2000</b>	<b>S</b>	<b>&gt; High side compartment (over 18") each - L2</b>	<b>1</b>	<b>MTL</b>
<b>60-11-3200</b>		<b>&gt; Full Height Rear compartment</b> Includes the following: Porta tank tube (60-40-9500) Dump valve (40-31-3500) Rear suction (30-31-6028) Direct fill (40-31-9010)	<b>1</b>	<b>MTL</b>
<b>60-11-4535</b>	<b>U</b>	<b>Flush Mount aluminum door - single with "D" handle -</b> <b>Flip up - R2</b>	<b>1</b>	
<b>60-11-5500</b>	<b>S</b>	<b>Rollup door - standard height - L2</b> Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point	<b>1</b>	<b>MTL</b>
<b>60-11-5510</b>	<b>S</b>	<b>Rollup door - intermediate height - R1, R3</b> Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point	<b>2</b>	<b>MTL</b>
<b>60-11-5520</b>	<b>S</b>	<b>Rollup door - full height - L1, L3, B1</b> Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point	<b>3</b>	<b>MTL</b>
<b>60-11-5655</b>	<b>S</b>	<b>Amdor pull straps - Flex - HD (for door opening 20"-37") -</b> <b>L2</b>	<b>1</b>	<b>MTL</b>
<b>60-11-5660</b>	<b>S</b>	<b>Amdor pull straps - Flex - HD (for door opening 49"-70") -</b> <b>L1, L3, B1</b>	<b>3</b>	<b>MTL</b>
60-31-4100		Extruded aluminum handrails Minimum 2" clearance from handrail to any surface	1	MTL
<b>60-31-5500</b>	<b>S</b>	<b>Steps at rear of body (folding) with LED lights</b> Maximum height between steps is 18" Lights will be activated with the application of the park brake	<b>1</b>	<b>MTL</b>
<b>60-31-5600</b>		<b>Steps and grab handles at front of body next to pump panel</b> Maximum height between steps is 18" Lights will be activated with the application of the park brake	<b>1</b>	<b>MTL</b>
<b>60-31-5800</b>	<b>S</b>	<b>Intermediate step over rear compartment</b> There will be LED bullet lights to illuminate the step surface (50-21-83AA) There will be reflective Delineation markings to meet NFPA	<b>1</b>	<b>MTL</b>

PART NO	S	DESCRIPTION	QTY	ID
60-31-6500		Compartment matting - black plastic interlocking tile	1	MTL
<b>60-31-7900</b>	<b>S</b>	<b>Vertical unistrut tracking in compartments L1, L2, L3, R1 and R3</b>	<b>1</b>	<b>MTL</b>
		There won't be any unistrut in the B1 and R2 compartments due to the minimal useable space available		
<b>60-31-8006</b>	<b>U</b>	<b>BA bottle compt (ea) - fender well</b> Retaining loops included There will be door ajar switches on the right side tubes to be interlocked with the ladder rack (60-41-9001) Customer to specify make and model of cylinder to be stored Make - _____ Model - _____ Diameter of cylinder - _____ Overall length of cylinder - _____ Photo of valve/cap (to ensure retaining loop will fit) _____	<b>4</b>	
<b>60-31-8650</b>		<b>Sliding tray (ea) - 500 pound capacity with lock-in, lock-out sliding hardware</b> White reflective stripe on exposed edges for visibility when compartment is open Locations: 1. L1 compartment 2. L3 compartment 3. R1 compartment 4. R3 compartment	<b>4</b>	<b>MTL</b>
<b>60-31-9600</b>	<b>S</b>	<b>&gt; Adjustable shelf (ea)</b> White Reflective stripe is applied on the exposed edge for visibility when the compartment door is open Locations and depth (shallow or deep): 1. L1 shallow depth 2. L1 shallow depth 3. L3 shallow depth 4. L3 shallow depth 5. R1 full depth 6. R3 full depth	<b>6</b>	<b>MTL</b>
<b>60-32-3560</b>	<b>S</b>	<b>Three hose divider (each) Two (2) adjustable and one (1) fixed</b> Hand hold required in end	<b>1</b>	<b>MTL</b>
60-32-7500		Hose bed - aluminum	1	MTL
<b>60-33-0000</b>		<b>Paint exterior - Imron Elite</b> *** Paint code and colour to match chassis cab	<b>1</b>	<b>MTL</b>
60-33-0200		Undercoat vehicle with KROWN rust protection	1	MTL
<b>60-33-0600</b>	<b>S</b>	<b>Chassis wheels not painted - Aluminum wheels</b>	<b>1</b>	<b>MTL</b>
60-33-1000		Paint pump and plumbing job colour	1	MTL
<b>60-33-1600</b>		<b>Special paint compartment interior - gray zolatone</b> The compartment interiors are finished with a gray textured paint for chip resistance. Shelves, trays, unistruts and hardware are left natural aluminum.	<b>1</b>	<b>MTL</b>

PART NO	S	DESCRIPTION	QTY	ID
60-33-2200		<b>Lettering - 80 letters up to 3" tall - 3 colour</b> *** Vinyl letters, Fire Department to provide details on location and text.	1	MTL
60-33-3000		<b>Reflective stripe - 4" white</b> 50% of perimeter each side and 25% of perimeter front 3M Scotchlite	1	MTL
60-33-3310		<b>Reflective stripe - red and yellow chevron at rear</b> 50% of rear to meet ULC - the outer body edge behind the extinguisher boxes will be painted only and extrusions will not be covered 3M Scotchlite material	1	MTL
60-33-3600	S	<b>White Reflective stripe - inside entry doors</b> 96 square inches minimum inside each cab and crew cab entry door	1	MTL
60-33-4600		Aluminum cover over crosslays - with end tarps (black)	1	MTL
60-33-5000		<b>Aluminum cover over hose bed with end tarps - black</b>	1	MTL
60-40-5500		<b>Suction hose tube (each) with door</b> Suction hose tubes will be completely enclosed, will have a door ajar switch and have stainless steel trim around the opening. Will store the suction hoses (80-11-5000)	2	MTL
60-40-8500		> <b>Tail light box Fire Extinguisher tubes (pr)</b> For storage of the ABC fire extinguisher 80-17-0500 and the C02 fire extinguisher 80-17-1000. PAC 1006-B Adjusta-mount straps will be installed to secure extinguishers in the tubes Has 4" LED lights installed on the inside portion to illuminate the rear step. Lights activated with the application of the park brake	1	MTL
60-40-9500	S	> <b>Tube for portable tank storage, through tank</b> For Portable Tank 80-15-0500	1	MTL
60-41-1000	S	<b>Pike Pole tube under right side fender top - includes stainless steel door</b> For pike poles 80-13-2500 and 80-13-5210. There will be labels on the door to show the lengths of the pike poles. Includes secondary Velcro restraint strap.	2	MTL
60-41-9001	S	> <b>Zico hydraulic Ladder Access system</b> To be wired so only operable when park brake is engaged, SCBA bottle doors are closed and the Right side compartment doors are closed. Flashing lights and reflective tape required at front and rear to indicate any areas that protrude beyond the body. For ladders 24' 2-section (80-14-0500), 14' roof (80-14-5500), and 10' attic (80-14-8500)	1	MTL
60-41-9010		<b>ZICO LAS switched at rear above tail light</b> Switch is located on same side as electric rack	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		<b>INSTRUMENTATION</b>		
70-11-0000		<b>Warning Label on Pump Operator's Panel</b>	1	MTL
70-11-1200	U	<b>Side SS panel for TM panel</b>	1	
70-11-1510	U	<b>Stainless steel instrument panels</b>	1	
		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		
70-11-2000		<b>Top mount instrument panel</b>	1	MTL
		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		
70-11-20AA	U	<b>Tarp over top mount pump panel</b>	1	
		Install a black tarp secured with velcro straps and footman loops around the perimeter over the top mount pump panel		
70-11-2500		<b>Transverse walkway</b>	1	MTL
70-11-2600		<b>Tread plate overlay on back of chassis cab</b>	1	MTL
70-11-3000		<b>Mansaver bars - 22"</b>	1	MTL
		Engineering to determine correct length to function with the extenda lights (50-21-2547):		
70-11-3200		<b>Colour coded tags</b>	1	MTL
70-11-3501	S	<b>Compartments in ends of walkway not requested</b>	1	MTL
70-11-4506	U	<b>Diamondback grip type panel hood step right side</b>	1	
		There will be reflective Delineation markings to meet NFPA		
70-11-4606	U	<b>Diamondback grip type panel hood step left side</b>	1	
		There will be reflective Delineation markings to meet NFPA		
70-11-5500		<b>Right side tread plate pump access door</b>	1	MTL
		No opening dimension less than 18"		
70-11-5600		<b>Left side tread plate pump access door</b>	1	MTL
		No opening dimension less than 18"		
70-11-5700		<b>Transverse tread plate pump access door</b>	1	MTL
		No opening dimension less than 18"		
70-11-7500		<b>Heat pan-aluminum</b>	1	MTL
70-11-8000		<b>Heater in pump compartment</b>	1	MTL
70-20-2170	U	<b>2-1/2" pressure gauge - dual face 0-400 - Thuemling brand</b>	9	
70-20-2500	S	<b>Trident Auto Primer control</b>	1	MTL
70-20-2501	S	<b>Additional Trident Pre-Primer controls</b>	3	MTL
70-20-3100		<b>Class One Governor Control</b>	1	MTL
		Throttle can be no lower than 42" and no higher than 72" from operator's standing position.		

PART NO	S	DESCRIPTION	QTY	ID
70-20-3500		Electric water level gauge on pump panel, Class One	1	MTL
70-20-3612	U	<b>Remote PSTANK water level indicators each side, rear with driver</b>	1	
		Interlock with park brake so powered when the park brake is set. Includes chrome bezel		
70-20-6500		Test gauge panel	1	MTL
70-20-7500		<b>Heat exchanger control valve</b>	1	MTL
70-21-1500	S	<b>Electric Foam Level gauge on pump panel, Class One</b> <b>ACCESSORIES</b>	1	MTL
80-11-5000		<b>6" x 10' lightweight suction hose (ea)</b> To be stored in tubes 60-40-5500	2	MTL
80-12-2500		<b>6" barrel strainer</b> Mounted with bracket (80-12-2510)	1	MTL
80-12-2510	S	<b>6" barrel strainer mount - Kochek MM601</b> Locate in rear compartment P/N1501175, Kochek model#MM601 SOPT#51	1	MTL
80-12-4502	S	<b>6" low level strainer with 1-1/2" venturi connection - TFT A03HNXJET</b> Strainer P/N1500702, model#A03HNX-Jet SOPT#394 Confirmed at pre-construction meeting Red Head Storz fitting is not required on Venturi (30-20-18AA) - to be NPSH Mount strainer on floor of back compartment	1	MTL
80-13-0500		<b>Rubber mallet</b> To be mounted with bracket (80-13-0510)	1	MTL
80-13-0510	S	<b>PAC Toolok bracket 1003-HD-Y for mounting rubber mallet</b> Mounting location will be front left compartment side wall closest to pump panel P/N1562258, model#1003-HD-Y SOPT#319	1	MTL
80-13-1200	S	<b>Clare hose wrenches (double) with holder</b> Mounting locations - LS pump panel, RS pump panel, rear compartment	3	MTL
80-13-1500		<b>Bar with bracket</b> To be mounted between the B1 compartment and the back bumper	1	MTL
80-13-2500		<b>Pike pole, fibreglass handle - 10' long</b> To be stored in tube 60-41-1000	1	MTL
80-13-2510		<b>Pike pole, fibreglass handle - 6' long</b> To be stored in tube 60-41-1000	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
80-13-4000	S	<i>Axe, pick head, fibreglass handle and bracket</i> Mounting location rear compartment LH side wall	1	MTL
80-13-4500	S	<i>Axe, flat head, fibreglass handle and bracket</i> Mounting location rear compartment RH side wall	1	MTL
80-14-0500		<i>24' 2 section extension ladder PEL 24</i> To be stored on ladder rack 60-41-9001	1	MTL
80-14-5500		<i>14' aluminum roof ladder PRL-14</i> To be stored on ladder rack 60-41-9001	1	MTL
80-14-8500		<i>10' aluminum folding attic ladder FL-10</i> To be stored on ladder rack 60-41-9001 with bracket 80-14-9000	1	MTL
80-14-9000		<i>Attic ladder bracket (Zico)</i>	1	MTL
80-14-9100		<i>Air chuck with 25' of 3/8" hose - shipped loose with apparatus</i>	1	MTL
80-15-0500		<i>1500 l gallon portable tank - Husky</i> Porta Tank to be yellow, have two (2) drains and be stored in tube 60-40-9500	1	MTL
80-16-1500		<i>Akron 2581 gated wye</i> Requires Red Head Storz fitting (30-20-18AA) Ship loose Part # 1551246	1	MTL
80-17-0500	S	<i>20# dry chemical fire extinguisher</i> Mounted in extinguisher box (60-40-8500)	1	MTL
80-17-1000	S	<i>15# CO2 fire extinguisher</i> Mounted in extinguisher box (60-40-8500)	1	MTL
80-17-1500	S	<i>2 gallon water extinguisher with mount</i> Mounting location - R3 in sliding tray	1	MTL
80-18-0600		<i>SCBA brkt w/strap - ZICO ULLH - crew cab mount</i>	4	MTL
80-19-0500	U	<i>Price Adjustment</i>	1	
80-19-0500	S	<i>Large folding wheel chock - aluminum (ea) not mounted</i>	2	MTL
80-99-60AA	U	<i>Ground ladder tests to meet NFPA 1932 (2015 edition)</i>	1	