



Shop Order

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

Penobsquis FD

Exp. Date: 11/16/2018
Quote No: PNB - Penobsquis-0609
Job/Order No: WO # 20667
BODY: 00-10-15 Metalfab Pumper - ULC 05/13

12/05/2019

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PART NO	S	DESCRIPTION	QTY	ID
		== Metalfab Pumper - ULC 05/13 - 0.000 ==	1	MTL
	S	CHANGE ORDER D	1	MTL
00-10-1500		Metalfab Pumper E	1	MTL
00-20-1000		Company Profile E	1	MTL
00-20-1501	S	One year base warranty	1	MTL
		If the vehicle requires repairs at the Manufacturers facility or their Authorized Repair Facility, all costs including transportation costs to and from that facility, shall be the responsibility of the Manufacturer (for the warranty period).		
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
00-20-2100	S	Plant Inspection Visits - five inspection visits for three representatives	1	MTL
		Up to five visits for three representatives - times and dates to be determined.		
00-20-3000		No Bonding Required	1	MTL
00-20-3500		Certification for Fusion Welding of Aluminum	1	MTL
00-20-4000	S	Quality System registered to ISO 9001:2015	1	MTL
00-20-4500		Fire Apparatus Manufacturers' Association Membership	1	MTL
		GENERAL INFORMATION	1	MTL
10-11-0000		Intent E	1	MTL
10-11-0110		Vehicle data recorder included with chassis	1	MTL
10-11-1101	S	ULC S515-13 and NFPA 1901-2016 Compliance E	1	MTL
10-11-1500		> ULC Testing - Pumper	1	MTL
		ENG. NOTE:		
		Note in the shop note if the Fire Department wishes to witness the test		
		Separate flow tests shall be taken for the front (if applicable) and rear suction flow rates. Written test results shall be presented to the Department of Environment and Local Government personnel during final inspection.		
10-11-2100	S	Maximum length - 360"	1	MTL
		The ladder will stick 24" past the rear bumper		
10-11-2200	S	Maximum height - 120"	1	MTL
10-11-2300		Overall length is less than 30'	1	MTL
10-11-2500		General Construction	1	MTL
10-11-2600	S	Preconstruction Meeting	1	MTL
		Held January 12.2019 in Fredericton, NB		
10-11-3000	S	Manuals - three copies - (2 hard copies, 1 electronic)	1	MTL
		Two (2) copies and one (1) electronic 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. Body manuals are to include a parts list and a recommended service and maintenance schedule.		

PART NO	S	DESCRIPTION	QTY	ID
		<p>Body manuals shall also contain the following drawings:</p> <ul style="list-style-type: none"> • All electrical drawings; • Accessory mounting; • All drawings shall be ledger size - 11" x 17". 		
10-11-3600	S	<p>> Delivery - FOB Fire Department - minimum eight hours training ENG. NOTE: Note in the shop note if more than 4 hours of training is required</p>	1	MTL
10-11-4300	S	<p>Payment Terms - Chassis and Body NET 30</p>	1	MTL
10-20-1000		Hose bed capacity - standard ULC Pumper	1	MTL
10-20-2000		<p>Equipment carrying capacity - standard ULC Pumper This vehicle is designed to carry the standard ULC miscellaneous equipment load of 2000 pounds.</p>	1	MTL
		CHASSIS INFORMATION	1	MTL
20-11-1000	S	<p>Chassis supplied by Metalfab - International HV607 450 HP International HV607 2 door 44,000 lb GVW 14,000 lb front axle 30,000 lb rear axle 210" wheelbase 142.9" cab to axle Cummins L9 450 HP @ 2100 rpm 2200 governed rpm 1250 lb-ft torque @ 1400 rpm Maximum speed 110 km/hr Allison 3000 EVS automatic transmission, 5 speed, LH side opening for PTO installation 325 Amp alternator 189 litre fuel tank, 24" diameter, left side under cab Electronic stability program Tires to be dated within six (6) months preceding chassis manufacture date. Two 12 volt power points and one USB power point Flashing headlights Polished aluminum wheels c/w stainless nut covers, hub caps, high hats Single color - 2303 Red ***May require extension cables/harness' so the switch packs and indicator light packs for Diamond Logic can be relocated to the center console 20-31-7500.***</p>	1	MTL
20-11-1500		2013 Emission chassis modifications	1	MTL
20-11-1700		<p>Chassis Motor Vehicle Inspection required - NB E Chassis is provided with a New Brunswick Motor Vehicle Inspection dated the month of delivery.</p>	1	MTL
20-21-0500		Fluid capacity plate	1	MTL
20-21-0600		Pumping test plate	1	MTL
20-21-1000		Maximum riders sign - 2 persons	1	MTL
20-21-1500		Seat belt warning labels - 2 door chassis	1	MTL
20-21-1520		Helmet warning label - do not wear helmet	1	MTL
20-21-1530		Tire Pressure Indicators - Single Axle	1	MTL
20-21-1600		<p>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"</p>	1	MTL
20-21-2000		Non removable key	1	MTL
20-21-2500		Shifter lock not required E	1	MTL
20-21-3500		Rear step warning label	1	MTL
20-21-3810		Front mudflaps provided with chassis E	1	MTL
20-21-4000		Rear mudflaps - Metalfab Logo	1	MTL
20-31-0200		Fuel fill label -Ultra Low Sulfur Diesel only	1	MTL
20-31-0500		<p>Alum tread fuel tank trim, Conv - 2 door Vertical trim only, OEM cab steps remain</p>	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
20-31-1900	S	Chassis cab single color by chassis OEM	1	MTL
20-31-7500		Console in cab	1	MTL
		Install switch panel (50-11-0900), siren (50-11-14AA), door ajar light (Diamond Logic with chassis), Equipment rack not stowed warning light (Diamond Logic with chassis), switch for On Spot chains (20-41-5500), Signal Master control (50-11-7600), radio provisions (50-35-0500), Velcro strip for the wireless Visibeam control (50-21-3088), and pump shift (30-51-0500) in console.		
		Storage area with hinged cover and lift and turn latch provided at rear of console.		
		Gray Zolatone finish		
		Layout to be confirmed at the Pre-construction meeting		
20-41-0600	S	No intake air shutoff for engine	1	MTL
20-41-0900		Auxiliary braking system disabled when pumping	1	MTL
20-41-1100		Transmission programming - Allison WT	1	MTL
		***Includes "Pump Engaged" light next to pump shift on chassis instrument panel.		
20-41-1500		Extend exhaust pipe - RS front of rear wheels E	1	MTL
		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.		
20-41-1801		Battery boost terminals not required - batteries accessible	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
20-41-5100		Rear Tow Hook - pintle hook E	1	MTL
		The pintle hook shall be located in the center of the rear compartment - surface mount on back wall.		
20-41-5500		ON SPOT Automatic traction chains	1	MTL
		Control to be on the 20-31-7500 console within easy reach of the driver.		
20-51-0700		Master Battery Disconnect included with chassis	1	MTL
20-51-2500		Back up alarm included with chassis	1	MTL
20-51-3400		Protection valve installed for air operated accessories	1	MTL
20-51-3500		Air outlet	1	MTL
		Located on left side pump panel		
20-51-4000		Auto eject for air inlet - LS	1	MTL
		Located on left side pump panel		
20-51-6502	U	Kussmaul Battery Conditioner 1200 with Auto Eject and readout	1	
		Battery conditioner mounted behind console/drivers seat.		
		Auto Eject and readout located on left side pump panel		
20-51-7101	S	Electric System Management - Diamond Logic	1	MTL
20-51-7300	S	> Low Voltage Alarm in cab - Diamond Logic	1	MTL
		ENG. NOTE:		
		Requires 20-51-7100 Electric System Manager		
20-51-8510	S	Engine compartment light LED	1	MTL
		Switched with the park brake.		
20-51-9000	S	Air horns on hood, lanyard control at driver and momentary switch on dash	1	MTL
		A lanyard for driver and a momentary dash mounted switch for the Officer.		
20-52-3000	S	> Chassis steering wheel lined up Richwil	1	MTL
		ENG. NOTE:		
		Required for all chassis except Freightliner, Sterling, Spartan		
		The chassis steering wheel will be straightened after the body and load is applied - prior to delivery to the customer.		

PART NO	S	DESCRIPTION	QTY	ID
20-52-4009	U	Pro Vision Video Systems - Front, right, left and rear view camera system - DVR Monitor to be mounted on dash inside cab Cameras mounted similar to Bath, NB M18-20025 Metafab p/n 1530928 (ref PO #64470) SOPT #1247 - truck specific	1	
20-60-0400		Chassis wheelbase does not change	1	MTL
20-90-1500		> 12 volt power point E ENG. NOTE: Specify location in shop note Install on dash next to the two supplied with the chassis.	1	MTL
PUMP AND PLUMBING			1	MTL
30-11-5600		Hale QFLO Single stage 1050 IGPM	1	MTL
30-12-3300		Mechanical seal for Hale QFLO pump	1	MTL
30-15-0104		Plumbing - Hale manifold pump SM SS E	1	MTL
30-20-0500		Valves and controls - side mount panel	1	MTL
30-20-1003	S	Elkhart valves Suction and discharge valves are Elkhart brand.	1	MTL
30-20-1600		Piping stainless steel - general Schedule 10 stainless pipe is acceptable.	1	MTL
30-20-1700	S	1-1/2" thread specifications - NPSH All 1½" threads shall be NPSH with Red Head Storz adapter	1	MTL
30-20-1800	S	2-1/2" thread specifications - 3x8 BCT St-John thread Both 2-1/2" suction and discharge threads shall be customer thread with Red Head Storz adapters shipped loose. The thread is to be 3x8 BCT St-John thread	1	MTL
30-20-18AA	U	Red Head Storz adapters to Customer's threads Adapters shall be supplied for all 2½" discharges and 2½" suction inlets including the SSRV discharges to adapt Red Head Storz fitting to fit Fire Department 3x8 hoses complete with matching caps. (ref SOPT #46 - truck specific) Department shall supply thread specification of their existing hoses. 1.5" is NPSH and 2.5" is 3x8 as per their last unit M07-9471	1	
30-20-2000		Piping hydrostatic test	1	MTL
30-20-2500		Anodes in suction and discharge piping 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.	1	MTL
30-21-9515		Tank to Pump 4" Ball valve SS, electric control with check valve manifold pump Electric control shall be on the left side pump operators panel.	1	MTL
30-22-1520		Tank Fill valve 2-1/2" SS	1	MTL
30-31-4010	S	Suction - 6" each side manifold pump	1	MTL
30-31-6027	U	Suction - 5" to rear, SS, electric control, bleeder, 6" connection Suction shall be located on the left-hand side of the rear, below the 10" rear dump inside the rear compartment. Bleeder for the suction shall be on the back wall of the back compartment. Control for the electric valve (ref 30-31-7200) shall be on the left side 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. SOPT #509 - Truck specific	1	
30-31-7200		> Hale master intake suction valve - electric control ENG. NOTE:	3	MTL

PART NO	S	DESCRIPTION	QTY	ID
		Required for top mount panels Show location in Shop Note		
		Electric MIV valves for the 6" left side inlet, the 6" right side inlet and the 6" rear inlet. The manual override for the left side MIV will be on the left side pump panel The manual over ride for the right side MIV will be on the right side pump panel The manual override for the rear MIV will be on the left side pump panel. All electric controls shall be located on the left side pump operators panel.		
30-32-7530		Suction - 2-1/2" left side SS, bleeder, Hale manifold pump	1	MTL
30-32-8030		Suction - 2-1/2" right side SS, bleeder, Hale manifold pump	1	MTL
30-40-2020	S	4" right discharge SS, plumbed 3", Hale manifold pump The valve will be 3" with a 4" Storz connection at the pump panel. The control will be a slo-close pull valve.	1	MTL
30-41-2020		2-1/2" RS discharge SS, bleeder, Hale manifold pump ***Foam capable	1	MTL
30-41-2520		2-1/2" LS discharge SS, bleeder, Hale manifold pump	2	MTL
30-43-1520		2-1/2" rear discharge SS, plumbed 2-1/2", bleeder ***One each side - right side will be foam capable.	2	MTL
30-44-0520	S	1-1/2" crosslay (each) SS, 2" valve, bleeder The crosslay area shall be a minimum 8" wide with one (1) divider and shall be no greater than 68" from ground level to the bottom of the crosslay bed. The bottom plate of the crosslay area is lined with black interlocking tile. The transverse hose bed is equipped with stainless steel rollers on each end for easier hose removal, the hose rollers shall be vertical and horizontal around the hose opening. ***Both crosslays are foam capable	2	MTL
30-44-6520		Piping for monitor SS, plumbed 3", bleeder Piping is plumbed to open storage area over pump house - centered transversely near the rear of the open storage area. This outlet is capped for future installation of Customer supplied and installed deck gun. Bleeder valve will be on the left side pump panel.	1	MTL
30-51-0500		Pump shift-Midship air ***Includes "Pump Engaged" and "OK to Pump" indicator lights on chassis instrument panel ***Includes "Throttle Ready" indicator light on Pump operating panel	1	MTL
30-51-0700		Pump Gearbox mounted manual over ride for pump shift E	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" left side gated inlet, the 6" right side gated inlet and the 6" rear gated inlet. Red Head Storz adapters required on all three. Include Red Head Storz adapters to Customer's threads (ref 30-20-18AA)	3	
30-51-7714		Trident Air Primer 3 barrel 4 location Location #1 - main pump Location #2 - Left side MIV Pre-prime Location #3 - Right side MIV Pre-prime Location #4 - Rear MIV Pre-prime	1	MTL
30-51-7720		Additional air tank for air primer system 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
30-52-5510		Foam system-Hypro FoamPro 2001 Single Tank The 1-1/2" Crosslays (2), the 2-1/2" right side discharge and one 2-1/2" rear	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		(right side only) are to be foam solution capable.		
30-52-8100		Electric foam fill pump with panel pickup 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		Foam concentrate label at foam tank fill	1	MTL
30-52-9200		Foam System Instruction Plates	1	MTL
30-52-9400		NFPA Foam System certification test	1	MTL
		WATER AND FOAM TANKS	1	MTL
40-11-2100		Polypropylene water tank (Imperial gallons)	1	MTL
40-11-2200		Water tank capacity certification (tank manufacturer)	1	MTL
40-11-5500		Tank capacity 1200 Imperial Gallons	1	MTL
40-12-5000		Foam cell - 30 Imperial gallon	1	MTL
40-13-0100	S	> Through the tank tunnel for portable tank storage ENG. NOTE: Charge 60 per cubic foot of tunnel volume Requires Ladder tube storage 60-40-90 or any other tube mounts necessary	1	MTL
40-21-1000		4" tank to pump connection	1	MTL
40-22-1000	S	2-1/2" tank fill connection	1	MTL
40-23-0500		1" water level gauge connection	1	MTL
40-23-1000		1" foam level gauge connection	1	MTL
40-23-1060		10" Newton dump connection	1	MTL
40-30-0500		Sump drain valve (3" gate valve) with linkage E Located left side of tank so no interference with drive line or exhaust.	1	MTL
40-30-1000		Water Fill Box front left corner	1	MTL
40-31-3500		10" rear Newton dump, stainless steel	1	MTL
40-31-3600		Newton dump - stainless steel 36" telechute	1	MTL
40-31-5510		Electric operator for Newton dump, side mount Switch is locate 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.	1	MTL
40-31-9010	U	4" Red Head Storz rear fill, Fireman's Friend Right of dump line in rear compartment, bleeder required.	1	
		ELECTRICAL	1	MTL
50-11-0450		Base electrical system - International Diamond Logic multiplex The instrument panel lights, engine compartment lights, rear step lights, ground lights, hose bed cover lights and work lights will be activated with the park brake.	1	MTL
50-11-0600		Warning Light Certification	1	MTL
50-11-0700		Low Voltage Electrical system test	1	MTL
50-11-0800		Low Voltage Electrical System Documents As required by ULC and NFPA standards	1	MTL
50-11-0900		Rocker switch panel with master warning switch ***Rocker switch assignments: MASTER -LIGHT BAR RED -REAR BEACONS -FLASHING WARNING -REAR FLOODS	1	MTL
50-11-1470	U	Whelen 200 Watt Siren - Model 295SLSC1 P/N 1570997	1	

PART NO	S	DESCRIPTION	QTY	ID
		SOPT #954a		
50-11-1630	U	Siren speaker, 200 Watt, in front bumper	1	
50-11-2600		Siren to be accessible to driver and officer	1	MTL
50-11-5812	U	Federal LPX53DS-NFPA lightbar	1	
		Red only - all lights are enabled in both Response and Scene modes - flash pattern to change when park brake is set.		
		SOPT #798		
50-11-58AA	U	Federal Lighting package	1	
50-11-7600		Rear LED Signal Master warning lights Model SL8. Control will be located in the 20-31-7500 console.	1	MTL
50-11-9015	U	Rear Beacons, Federal NVG10 (pr), both red SOPT #1063 - truck specific	1	
50-12-5028	U	Front LED flashers (pr)-red Federal QL43-RR	1	
50-12-5118	U	Rear LED flashers (pr)-red Federal QL43-RR	1	
50-12-5218	U	Front side inter lts (pr)-red LED Federal QL43-RR	1	
50-12-5318	U	Body side inter lts (pr)-red LED Federal QL43-RR	1	
50-21-1505	U	Unity LED rear Floods (pr) These lights cannot be managed as they are required for ULC. SOPT #255a	1	
50-21-2535	U	FRC telescoping Spectra LED 12-Volt flood (ea) SPA530-Q15-SW-NS-H One each side on the rear of the cab ahead of the front end. Lights are switched on the pump panel. These lights can be managed to shed. Hazard switch wired to the equipment not stowed warning light in cab.	2	
50-21-3088	U	Federal Signal Wireless Visibeam P/N 1031564 The rear portion of the light shall be shielded to avoid potential of light shining in driver's eyes. Shield is to be painted to match cab. The wireless control will be located on the console with a Velcro strip.	1	
50-21-5100		> Compartment lighting - LED tube lights in each compartment (rollup doors) ENG. NOTE: Rollup doors only	1	MTL
50-21-5500		Door Ajar warning light Included with the Diamond Logic indicator lights. Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on"	1	MTL
50-21-5550		Equipment rack not stowed warning light For the LTS, hose bed cover and the two Telights Included with the Diamond Logic indicator lights. Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on"	1	MTL
50-21-8001		Step lights for body steps - 4" LED Switched with the park brake	1	MTL
50-21-8200	S	Step lights for chassis steps - LED Switched when the adjacent cab door is opened and by the park brake	1	MTL
50-21-83AA	U	LED lighting for rear step/platform Switched with the park brake	1	
50-21-8600		LED clearance lts and reflectors	1	MTL
50-22-0700	S	Whelen 64 LED tail/brake-turn-backup module (pr)	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
50-31-6550	S	Ground lighting (LED Lumabar) - 2 door chassis	1	MTL
50-31-6570	S	Ground lighting (LED Lumabar) - side mount body Switched with the park brake.	1	MTL
50-35-0510	U	Provisions for Customer's mobile radio Provision for two (2) customer radios is provided in the chassis console 20317500. 12-Volt power and ground is provided for these radios, powered directly from the battery, not through the master switch and fused for 30A. Customer to provide make, model and dimensions of the radio's so proper cutouts can be made. Radio #1 - Motorola that measures 7" wide x 2" thick Radio #2 - Provincial TMR There will be a signal from the ignition required.	2	
50-35-0600	U	Antenna base only for commercial chassis complete with chrome raincap Cable will be routed to the 20-31-7500 console and properly labeled. Customer to specify any special mounting location or spacing requirements, otherwise antenna base will be installed behind the lightbar one left and one right side. This will be installed as per the Metalfab suggested location.	2	
50-99-10AA	U	Hose bed cover lights - 40 inch Lumabar There will be 40" Lumabar installed under the hose bed cover to meet ULC. They will be activated with the park brake	1	
		BODY		
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 E	1	MTL
60-10-4700		Integral aluminum fender trim	1	MTL
60-10-5400		> Diamondback pumphouse steps ENG. NOTE: Maximum height of step is 24" from ground	1	MTL
60-10-5430		> Diamondback 19" rear step ENG. NOTE: Maximum height of rear step is 24" from ground	1	MTL
60-10-6000		Extruded rub rail	1	MTL
60-11-0300		> Front left side compartments full height E ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-0600		> Front right side compartments intermediate height ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-1000		> Rear left side compartments full height E ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-1300		> Rear right side compartments intermediate height ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-1900		> Low side compartment (up to 18") each ENG. NOTE: Specify critical dimensions in shop note Specify type of door Specify flip up or drop down Specify which side of body Over right side rear wheel wheel	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
60-11-2000		> High side compartment (over 18") each ENG. NOTE: Specify critical dimensions in shop note Specify type of door Specify flip up or drop down Specify which side of body Over left side rear wheel wheel	1	MTL
60-11-3200		> Full Height Rear compartment ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-4535	U	Flush mount aluminum door - single with "D" handle - flip up w/gas struts For the compartment over right side rear wheel wheel	1	
60-11-5500		Rollup door - standard height For the compartment over left side rear wheel wheel Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point	1	MTL
60-11-5510		Rollup door - intermediate height For the right side front and rear compartments Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point	2	MTL
60-11-5520		Rollup door - full height For the left side front and rear compartments and the back compartment. Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point	3	MTL
60-11-5655	U	Amdor pull straps - Flex - HD For L2 compartment	1	
60-11-5660	U	Amdor pull straps - Flex - HD For L1, L3 and B1 compartments	3	
60-31-4100		Extruded aluminum handrails Minimum 2" clearance from handrail to any surface	1	MTL
60-31-5500	S	Steps at rear of body (folding) with LED lights Maximum height between steps is 18"	1	MTL
60-31-5600	S	Steps and grab handles at front of body next to pump panel Maximum height between steps is 18" There shall be two (2) hand rails each side, one (1) on the side of the pump house aft of the crosslays and one (1) vertical at the front edge of the body. There will be handles installed at the standard Metalfab suggested locations.	1	MTL
60-31-5700		Pull out step under body (each) The step will be installed under the LS pump house as deep as 19" and full width of the pump house.	1	MTL
60-31-6500		Compartment matting-Turtle tile	1	MTL
60-31-7900	U	Vertical unistrut tracking in all compartments	1	
60-31-8006	U	SCBA cylinder storage compartment (ea) -fender well There shall be a cushion installed at the base of each compartment tube to protect the bottles. Include loop to hold cylinder in place. Customer to specify diameter of cylinders to be stored and OA length Diameter - 8" OA length - 24" The measurements were supplied by the Fire Department on March 1st, 2019	4	
60-31-8650	U	Sliding tray (ea) - 500 lb capacity - lock in - lock out type A latch to hold in the tray in the closed position to be included. Slide out trays are installed in the following compartments at floor level;	4	

PART NO	S	DESCRIPTION	QTY	ID
		Tray #1 - Left side front compartment		
		Tray #2 - Left side rear compartment		
		Tray #3 - Right side front compartment		
		Tray #4 - Right side rear compartment		
		Reflective stripe is applied on the exposed edge for visibility when the compartment door is open		
		No special dimensions were supplied by the fire department		
60-31-9600	S	> <i>Adjustable shelf (ea)</i> ENG. NOTE: Specify location	7	MTL
		Shelves are installed in the following compartments; Shelf #1 - Left side front compartment - Shallow depth Shelf #2 - Left side front compartment - Shallow depth Shelf #3 - Left side rear compartment - Shallow depth Shelf #4 - Left side rear compartment - Shallow depth Shelf #5 - Right side front compartment - Shallow depth Shelf #6 - Right side rear compartment - Shallow depth Shelf #7 - Left side compartment over the rear wheels - full depth Reflective stripe is applied on the exposed edge for visibility when the compartment door is open		
		150		
60-32-3560		<i>Three adjustable hose divider (each)</i> Hand hold required in end. There will be one (1) fixed to support the hose bed covers and two (2) adjustable.	1	MTL
60-32-7500		<i>Hose bed - aluminum</i> The aluminum slats shall also be included in the area around the water and foam fill towers and the front storage area ahead of the front partition.	1	MTL
60-33-0000		<i>Paint exterior - Imron Elite</i> *** Paint code and colour to match red on cab (2303) Total paint and primer thickness shall be a minimum of 5.0 mi	1	MTL
60-33-0200		Undercoat vehicle with KROWN rust protection	1	MTL
60-33-0600		<i>Chassis wheels not painted</i> Polished Aluminum wheels	1	MTL
60-33-1000		Paint pump and plumbing job colour	1	MTL
60-33-1600		<i>Special paint compartment interior - gray zolatone E</i> The compartment interiors are finished with a gray textured paint for chip resistance. Shelves, trays, unistruts and hardware are left natural aluminum.	1	MTL
60-33-2200	S	<i>Lettering - 80 letters up to 3" tall - 3 colour</i> *** Vinyl letters, Fire Department to provide details on location and text. "911" shall be installed in 12" high red reflective on each rear side compartment doors. Lettering sign off sheet received. Metalfab will supply crest; no striping around wheel wells necessary.	1	MTL
60-33-3000		<i>Reflective stripe - 4" white</i> 50% of perimeter each side and 25% of perimeter front. 3M Scotchlite material	1	MTL
60-33-3310	S	<i>Reflective stripe - red and yellow chevron at rear</i> Minimum 50% of rear vertical surface. Printed on 3m Scotchlite material.	1	MTL
60-33-4600	S	<i>Aluminum cover over crosslays - with end tarps (black)</i> The crosslay cover will open towards the body and will have magnets as keep open device while reloading the crosslays.	1	MTL
60-33-5000		<i>Aluminum cover over hose bed with end tarps - black E</i>	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
60-40-5500		Suction hose tube (each) with door To store the 6" x 10' suction hoses 80-11-5000. Located under the tee of the water tank with rear access doors with lift and turn latches. Door ajar switch required.	2	MTL
60-40-8500		> Tail light box Fire Extinguisher tubes (pr) ENG. NOTE: Specify size/dimensions of Fire extinguishers to be stored For storage of the ABC fire extinguisher 80-17-0500 and the C02 fire extinguisher 80-17-1000. PAC 1006-B Adjustamount straps will be installed to secure extinguishers in the tubes	2	MTL
60-40-9001	S	> Tube mount for portable tank, through tank ENG. NOTE: Specify location, ladders to be installed in this tube, complete dimensions of ladders if user supplied To store the 1500 Imperial gallon portable tank 80-15-0500 Include a fastening system to hold the portable tank in place. There shall be rollers installed to facilitate the loading and unloading of the tank.	1	MTL
60-41-1000		Pike Pole tube with door To store the 10' pike pole 80-13-2500 and the 6' pike pole 80-13-2510. Located under the right side fender top with a rear access stainless steel door with lift and turn latch.	1	MTL
60-41-9001		> Zico hydraulic Ladder Access system ENG. NOTE: Specify mounting location desired. If ladder(s) are customer supplied, specify overall length and width, width between side rails, rung spacing; also specify ladder brand and model Right side - for the storage of the 35' 2 section extension ladder 80-14-2000, the 16' roof ladder 80-14-6000 and the 10' attic ladder 80-14-8500 on the 80-14-9000 brackets. To be wired so only operable when park brake is engaged. Flashing lights and reflective tape required at front and rear to indicate any areas that protrude beyond the body.	1	MTL
60-41-9010		ZICO LAS switched at rear above tail light E Switch is located on same side as electric rack - right side	1	MTL
INSTRUMENTATION			1	MTL
70-11-0000		Warning Label on Pump Operator's Panel	1	MTL
70-11-0500		Side mount instrument panel 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	1	MTL
70-11-1500		Stainless steel instrument panels 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	1	MTL
70-11-3200		Colour coded tags Language to be: English	1	MTL
70-11-4100		Stainless steel side panel hood left side	1	MTL
70-11-4500		Diamondback grip type panel hood step right side	1	MTL
70-11-5110	U	Open storage at rear top of pump house Lighting required.	1	

PART NO	S	DESCRIPTION	QTY	ID
		Floor to be covered with plastic interlocking tile		
70-11-5500		Right side tread plate pump access door No opening dimension less than 18"	1	MTL
70-11-7500		Heat pan-aluminum	1	MTL
70-11-8000		Heater in pump compartment Heater switch will be located on the left side pump operators panel.	1	MTL
70-20-2130	U	2-1/2" pressure gauge - dual face 0-400 - Thuemling Thuemling control rod assembly with 2-1/2" 0-400 dual scale pressure gauge/bezel assembly (chrome bezel and color code in handle)	9	
70-20-2500		Primer control	1	MTL
70-20-2501		Additional Primer control For the three pre-primers - ref 30-51-7714	3	MTL
70-20-3100		Class One Governor Control Throttle can be no lower than 42" and no higher than 72" from operator's standing position.	1	MTL
70-20-3500		Electric water level gauge on pump panel, Class One	1	MTL
70-20-3610		Remote PSTANK water level indicators each side, rear with driver E One each side at the front corner of body, and one on the rear left side upper corner Interlock with park brake so powered only when the park brake is set.	1	MTL
70-20-6500		Test gauge panel	1	MTL
70-20-7500		Heat exchanger control valve	1	MTL
70-21-1500	S	Electric Foam Level gauge on pump panel, Class One	1	MTL
		ACCESSORIES	1	MTL
80-11-5000		6" x 10' lightweight suction hose (ea) Tube mounted	2	MTL
80-12-2500	S	6" barrel strainer Mounted on the mounting plate 80-12-2510 in a location to be determined at the Pre-construction meeting. The barrel strainer will be installed in the rear compartment on the right side of the dump valve.	1	MTL
80-12-2510	U	Supply and install mount for 6" barrel strainer P/N 1501175 - SOPT #51 Location to be in the back compartment on the right side of the dump valve.	1	
80-12-4502	U	TFT A03HNX-JET Low Level strainer - 6" with Storz on jet (Red Head) To achieve pump capacity through the low level strainer P/N 1500702 SOPT #394 Red Head Storz fittings will be installed on the venturi Mounted in the back compartment.	1	
80-13-0500	S	Rubber mallet - with fibreglass handle Mounted with the Toolok 80-13-0513 on the sidewall of the L1 compartment.	1	MTL
80-13-0510	U	PAC Toolok 1003 for mounting rubber mallet P/N 1562258 - SOPT #319 Location to be the sidewall of the L1 compartment.	1	
80-13-1200		Clare hose wrenches (double) with holder Mounted on left side pump panel, right side pump panel and on rear of body where room permits.	3	MTL
80-13-1500		Bar with bracket Mounted horizontally under the rear compartment roll up door bottom facia.	1	MTL
80-13-2500		Pike pole, fibreglass handle - 10' long Tube mounted.	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
80-13-2510		Pike pole, fiberglass handle - 6' long Tube mounted.	1	MTL
80-13-4000	S	Axe, pick head, yellow fiberglass handle and bracket ***Non slip hand hold*** P/N 1520133 Mounting location to be the sidewalls of the back compartment.	2	MTL
80-14-2000		35' 2 section extension ladder PEL-35 Mounted on LAS Provide test documents as per 80-99-60AA	1	MTL
80-14-6000		16' aluminum roof ladder PRL-16 Mounted on LAS Provide test documents as per 80-99-60AA	1	MTL
80-14-7500		Padded ladder boot - 2 section and roof ladder Sized to fit nested 24' two section extension ladder and 14' roof ladder.	1	MTL
80-14-8500		10' aluminum folding attic ladder FL-10 Stored in the 80-14-9000 attic ladder bracket mounted on LAS Provide test documents as per 80-99-60AA	1	MTL
80-14-9000		Attic ladder bracket (Zico) Mounted on LAS	1	MTL
80-14-9100	U	Air chuck with 25' of 3/8" air hose Shipped loose	1	
80-15-0500		1500 l gallon portable tank - Husky Two (2) drain sleeves required. Tube mounted.	1	MTL
80-16-1500		Akron 2581 gated wye A 2½" gated wye, 2½" Red Head Storz swivel to two (2) gated 1½" male NPSH with Red Head Storz adapters, pyrolite construction shall be supplied. Shipped loose, not mounted. Customer will mount.	1	MTL
80-17-0500	S	20# dry chemical fire extinguisher Tube mounted.	1	MTL
80-17-1000	S	15# CO2 fire extinguisher Tube mounted.	1	MTL
80-17-1500	S	2.5 gallon water extinguisher with mount Mounting location to be in the back compartment.	1	MTL
80-18-0500	U	Price Adjustment	1	
80-18-0500	S	SCBA bracket with strap - compt mount Bolted to the Zico SCBA carousel 80-18-0700 Customer to provide dimensions of SCBA to be stored Height: 25" Width: 16" Depth: 10" Diameter of cylinder: 8" The SCBA is Scott 2.2	4	MTL
80-18-0700	S	> ZICO Quic Index SCBA carousel ENG. NOTE: SCBA brackets to be added separately Width and depth requirement - double the depth of the SCBA or cylinder to be mounted plus 6". Height requirement - add 1-1/2" to the length of the SCBA or cylinder to be mounted. Mounting location to be on the tray 60-31-8650 in the rear right side	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		compartment.		
80-19-0500		<i>Large folding wheel chock - aluminum (ea) not mounted</i> Shipped loose, not mounted. Customer will mount.	2	MTL
80-19-0600	S	> <i>Horizontal bracket for folding wheel chock (ea)</i> ENG. NOTE: Specify location, otherwise ship loose	2	MTL
		Mounting location to be under the shelf 60-31-9600 in the L1 compartment at the depth change.		
80-99-60AA	U	<i>Ground ladder tests to meet NFPA 1932 (2015 Edition)</i> All ladders shall be manufactured in current year and shall, prior to delivery, be tested as per NFPA-1932 (2015 or latest edition) within six months of date of delivery. A copy of the tests shall be provided at final inspection. SOPT in file.	1	