

## **Shop Order**

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

**Exp. Date:** 11/16/2018

Quote No: PNB - Greenwich-0612

**Job/Order No:** WO # 20665

**BODY:** 00-10-15 Metalfab Pumper - ULC 05/13

12/05/2019 Page 1 **PART NO** DESCRIPTION ID == Metalfab Pumper - ULC 05/13 - 0.000 == MTL S Change Order F MTL 00-10-1500 Metalfab Pumper E MTL 1 00-20-1000 Company Profile E MTL 00-20-1501 S One year base warranty 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 MTL 00-20-1700 Hale Pump Warranty - 5 years MTL 00-20-1800 Polypropylene Tank Lifetime Warranty MTL 00-20-2100 Plant Inspection Visits - five inspection visits for three representatives MTL 1 Up to five visits for three representatives - times and dates to be determined. 00-20-3000 No Bonding Required MTL Certification for Fusion Welding of Aluminum 00-20-3500 MTL Quality System registered to ISO 9001:2015 1 00-20-4000 MTL 00-20-4500 Fire Apparatus Manufacturers' Association Membership MTL 1 **GENERAL INFORMATION** MTL 10-11-0000 Intent E 1 MTL Vehicle data recorder included with chassis 1 10-11-0110 MTL 10-11-1101 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 Maximum length - 360" MTL 1 10-11-2200 Maximum height - 120" MTL 1 10-11-2300 Overall length is less than 30' 1 MTL 10-11-2500 General Construction 1 MTL 10-11-2600 S 1 Preconstruction Meeting MTL Held January 12.2019 in Fredericton, NB 10-11-3000 S Manuals - three copies - (2 hard copies, 1 electronic) 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. Body manuals shall also contain the following drawings: All electrical drawings;

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PART NO	S	DESCRIPTION	QTY	ID
		Accessory mounting;		
		All drawings shall be ledger size - 11" x 17".		
	_			
10-11-3600	S	> Delivery - FOB Fire Department - minimum eight hours training	1	MTL
		ENG. NOTE:		
		Note in the shop note if more than 4 hours of training is required		
40 44 4000	_	B (T Ob I B. J. NET 00		4471
10-11-4300	S	Payment Terms - Chassis and Body NET 30	1	
10-20-1000		Hose bed capacity - standard ULC Pumper	1	
10-20-2000		Equipment carrying capacity - standard ULC Pumper	_	WIL
		This vehicle is designed to carry the standard ULC miscellaneous equipm load of 2000 pounds.	ent	
		ioau oi 2000 poulius.		
		CHASSIS INFORMATION	1	MTL
20-11-1000	S	Chassis supplied by Metalfab - International HV607 450 HP	1	MTL
20-11-1000	3	International HV607 2 door	,	WIL
		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 I	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 l		
		packs for Diamond Logic can be relocated to the center console 20-31-7500.*	**	
00 14 1500		0040 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		N 4-T-1
20-11-1500		2013 Emission chassis modifications	1	MTL
20-11-1700		Chassis Motor Vehicle Inspection required - NB E	1	MTL
		Chassis is provided with a New Brunswick Motor Vehicle Inspection dated	tne	
		month of delivery.		
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		Apparatus Information Label	1	MTL
		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 pl	ate	
		by the Fire Department"		
20-21-2000		Non removable key	1	
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		Alum tread fuel tank trim, Conv - 2 door	1	MTL
		Vertical trim only, OEM cab steps remain		
20-31-1900	S	Chassis sab single color by chassis OEM	4	MTL
20-31-7500	3	Chassis cab single color by chassis OEM Console in cab	1	
20-31-7300		Install switch panel (50-11-0900), siren (50-11-14AA), door ajar light (Diame		WIL
		metan ewitch paner (50-11-0500), Shen (50-11-14AA), Goor ajar ngnt (Diam	ли	

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PART NO	S	DESCRIPTION	QTY	ID
		Logic with chassis), Equipment rack not stowed warning light (Diamond L		
		with chassis), switch for On Spot chains (20-41-5500), Signal Master cont	rol	
		(50-11-7600), radio provisions (50-35-0500), Velcro strip for the wirele	SS	
		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	_	No intelle single-staff for anything		A/T/
	S	No intake air shutoff for engine		MTL
<b>20-41-0900</b>		Auxiliary braking system disabled when pumping Transmission programming - Allison WT	<b>1</b>	<i>MTL</i> MTL
20-41-1100			ı	IVIIL
		***Includes "Pump Engaged" light next to pump shift on chassis instrument panel.		
20-41-1500		Extend exhaust nine DC front of rear wheels E	1	MTL
20-41-1500		Extend exhaust pipe - RS front of rear wheels E Engineering to specify exhaust pipe material as required by the chas		IVIIL
		manufacturer.	515	
		Engineering to sign off on the exhaust configuration to make sure it meets	tho	
		chassis manufacturer's emission specifications.	uie	
		Department has an AirMation fume extractor AMB-302ND in their hall		
		Department has an Anniation fulfile extractor Amb-302ND in their half		
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
20-41-3100		The pintle hook shall be located in the center of the rear compartment - surf	-	WIL
		mount on back wall.	ace	
		mount on back wan.		
20-41-5500		ON SPOT Automatic traction chains	1	MTL
20 47 0000		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 chassis step due to rollup door		
		·		
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 chassis step		
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 50 2000	_	Changin of a wing wheat line of the Bishault		1471
20-52-3000	S	> Chassis steering wheel lined up Richwil	1	MTL
		ENG. NOTE:		
		Required for all chassis except Freightliner, Sterling, Spartan		
		The change steering wheel will be straightened after the bade and be	i e	
		The chassis steering wheel will be straightened after the body and load	ıs	
		applied - prior to delivery to the customer.		
20-52-4009	U	Dro Vicion Vidoo Systems Front right left and rear view comers and	4	
20-32-4009	U	Pro Vision Video Systems - Front, right, left and rear view camera system -	1	
		DVR		

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PART NO	S	DESCRIPTION	QTY	ID
		Monitor to be mounted on dash inside cab		
		Cameras mounted similar to Bath, NB M18-20025		
		Metalfab p/n 1530928 (ref PO #64470)		
		SOPT #1247 - truck specific		
20-60-0400		Chassis wheelbase does not change		MTL
20-90-1500		> 12 volt power point E	1	MTL
		ENG. NOTE:		
		Specify location in shop note		
		Install on dash next to the two supplied with the chassis.		
		PUMP AND PLUMBING		MTL
30-11-5600		Hale QFLO Single stage 1050 IGPM	1	
30-12-3300		Mechanical seal for Hale QFLO pump	1	MTL
30-15-0104		Plumbing - Hale manifold pump SM SS E	1	
30-20-0500		Valves and controls - side mount panel	1	MTL
30-20-1003	S	Elkhart valves	1	MTL
		Suction and discharge valves are Elkhart brand.		
30-20-1600		Piping stainless steel - general	1	MTL
		Schedule 10 stainless pipe is acceptable.		
30-20-1700	S	1-1/2" thread specifications - NPSH	1	MTL
		All 1½" threads shall be NPSH with Red Head Storz adapter		
	_		_	
30-20-1800	S	2-1/2" thread specifications - 3x8		MTL
		Both 2-1/2" suction and discharge threads shall be customer thread with	₹ed	
		Head Storz adapters shipped loose.		
		The thread is to be 3x8		
30-20-18AA	U	Red Head Storz adapters to Customer's threads	1	
		Adapters shall be supplied for all 21/2" discharges and 21/2" suction in	ets	
		including the SSRV discharges to adapt Red Head Storz fitting to fit		
		Department 3.0x8 hoses complete with matching caps. (ref SOPT #46 - tru	ck	
		specific)		
		Department shall supply thread specification of their existing hoses.		
		1.5" is NPSH and 2.5" is 3.0x8		
			_	
30-20-2000		Piping hydrostatic test		MTL
30-20-2500		Anodes in suction and discharge piping	. 1	MTL
		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.		
00.04.0545				
30-21-9515		Tank to Pump 4" Ball valve SS, electric control with check valve manifold	1	MTL
		pump		
		Electric control shall be on the left side pump operators panel.		
20 22 4520		Tank Fill valva 2 1/2" SS	4	MTI
30-22-1520		Tank Fill valve 2-1/2" SS Suction 6" each side manifold numn		MTL MTL
30-31-4010	S	Suction - 6" each side manifold pump	1	
30-31-6027	U	Suction - 5" to rear, SS, electric control, bleeder, 6" connection	1	
		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 pu	шþ	
		operators panel.  There shall be a minimum of 625 IGPM flow capacity delivered at draft. A f	low	
		test shall be taken and written test results shall be presented to the Department and Level Covernment personnel during fineling position	ent	
		of Environment and Local Government personnel during final inspection.		
		SOPT #509 - Truck specific		
20 24 7200		Liple manter intoka avotion valva - alectric accretical	_	NAT!
30-31-7200		> Hale master intake suction valve - electric control	3	MTL
		ENG. NOTE:		
		Required for top mount panels		
		Show location in Shop Note		

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PART NO	S	DESCRIPTION	QT'	Υ	ID
		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 par	eı		
		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		1	MTL
00 10 2020		The valve willbe a 3" with a 4" Storz connection at the pump panel. The control wi	ll be	-	
		a pull control with slo-close.			
30-41-2020		2-1/2" RS discharge SS, bleeder, Hale manifold pump		1	MTL
		***Foam capable			
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		2	MTL
		***One each side - right side will be foam capable.			
30-44-0720		1 1/2" speedlay (each) front of numbers SS nlumber 2"		2	MTL
30-44-0/20		1-1/2" speedlay (each) front of pumphouse SS, plumbed 2" The speedlay area shall be a minimum of 8" wide with two (2) pull out alumi	num	2	IVI I L
		trays and shall be no greater than 68" from the ground level to the bottom of	tho		
		speedlay bed. The bottom of the trays will be line with black interlocking t			
		The transverse hose bed is equipped with stainless steel rollers for eas			
		deployment and protection.			
		*** Both speedlays are foam capable			
30-44-6520		Piping for monitor SS, plumbed 3", bleeder		1	MTL
		Piping is plumbed to open storage area over pump house - cente	red		
		transversely near the rear of the open storage area.			
		This outlet is capped for future installation of Customer supplied and installation	alled		
		deck gun.			
		Bleeder valve will be on the left side pump panel.			
30-51-0500		Pump shift-Midship air		1	MTL
00 01 0000		***Includes "Pump Engaged" and "OK to Pump" indicator lights on chassis instrum	ent	•	IVIIL
		panel	0		
		***Includes "Throttle Ready" indicator light on Pump operating panel			
		, , , , , , , , , , , , , , , , , , , ,			
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		3	
		For the 6" left side gated inlet, the 6" right side gated inlet and the 6" rear g	ated		
		inlet.			
		Red Head Storz adapters required on all three. Include Red Head Storz adapters to Customer's threads (ref 30-20-18AA)			
		include Red Head Storz adapters to Customer's threads (ref 30-20-16AA)			
30-51-7714		Trident Air Primer 3 barrel 4 location		1	MTL
00-01-77714		Location #1 - main pump		•	
		Location #2 - Left side MIV Pre-prime			
		Location #3 - Right side MIV Pre-prime			
		Location #4 - Rear MIV Pre-prime			
30-51-7720		Additional air tank for air primer system		1	MTL
		An additional air tank is provided to improve air primer capacity			
20 54 9400		Hoot evolunger included with change		_	MTI
<b>30-51-8100</b> 30-52-1000		Heat exchanger included with chassis Master drain V/V, 12 port		<b>1</b>	<i>MTL</i> MTL
<b>30-52-1000</b>		Drain valve for foam system header		1	MTL
30-52-5510		Foam system-Hypro FoamPro 2001 Single Tank		1	MTL
30-02-0010		The 1-1/2" speedlays (2), the 2-1/2" right side discharge and one 2-1/2" r	ar		/ L
		(right side only) are to be foam solution capable.			
		( )			

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PART NO	S	DESCRIPTION	QTY	ID
30-52-8100		Electric foam fill pump with panel pickup		MTL
		There shall be one (1) pump panel foam pick up connection for the foam t	ank,	
		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	n to	
		allow filling from a ground level foam pail. The hose shall be stored inside	the	
		right-side pump access door on a bracket.		
		g oldo pamp doctor doc. oli a zi dollo.		
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
30-32-3400		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		Tank Capacity 1200 imperial Gallons	1	MTL
	_	Foam cell - 30 Imperial gallon	=	
40-13-0100	S	> Through the tank tunnel for portable tank storage	1	MTL
		ENG. NOTE:		
		Charge 60 per cubic foot of tunnel volume		
		Requires Ladder tube storage 60-40-90 or any other tube mounts necessary		
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	1	MTL
		Located left side of tank so no interference with drive line or exhaust.		
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	1	MTL
40 01 0010		Switch is locate on the left rear above the tail lights and flashing warning ligh		
		Provisions are made to allow manual operation of the dump line in the ever	nt of	
		an emergency.	. 0.	
		an emergency.		
40-31-9010	U	4" Red Head Storz rear fill, Fireman's Friend	1	
40-31-3010		Right of dump line in rear compartment, bleeder required.	,	
		Right of dump line in real compartment, bleeder required.		
		ELECTRICAL	1	MTL
50-11-0450		Base electrical system - International Diamond Logic multiplex	1	MTL
30-11-0430		The instrument panel lights, engine compartment lights, rear step lights, gro		IVIIL
			una	
		lights and work lights will be activated with the park brake.		
E0 44 0000		Mouning Light Contification		1471
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	1	MTL
		As required by ULC and NFPA standards		
//				
50-11-0900		Rocker switch panel with master warning switch	1	MTL
		***Rocker switch assignments:		
		MASTER		
		-LIGHT BAR RED		
		-REAR BEACONS		
		-FLASHING WARNING		
		-REAR FLOODS		
50-11-1470	U	Whelen 200 Watt Siren - Model 295SLSC1	1	
		P/N 1570997		
		SOPT #954a		
50-11-1630	U	Siren speaker, 200 Watt, in front bumper	1	

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PART NO	S	DESCRIPTION	QTY	ID
50-11-2600		Siren to be accessible to driver and officer	1	MTL
50-11-5812	U	Federal LPX53DS-NFPA lightbar	1	
00 11 0012		Red only - all lights are enabled in both Response and Scene modes - f	_	
		pattern to change when park brake is set.	asii	
		SOPT #798		
			_	
50-11-58AA	U	Federal Lighting package	1	
50-11-7600		Rear LED Signal Master warning lights	1	MTL
		Model SL8.		
		Control will be located in the 20-31-7500 console.		
50-11-9015	U	Rear Beacons, Federal NVG10 (pr), both red	1	
00-11-3010	•	SOPT #1063 - truck specific	•	
		30F1 #1003 - truck specific		
50 40 5000		5 x 44 50 9 x 4 x x 4 x 3 x 4 5 x 4 x 4 04 40 50		
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 Its (pr)-red LED Federal QL43-RR	1	
50-12-5318	U	Body side inter Its (pr)-red LED Federal QL43-RR	1	
50-21-1505	U	Unity LED rear Floods (pr)	1	
		These lights cannot be managed as they are required for ULC.	-	
		SOPT #255a		
		30F1 #233a		
			_	
50-21-2535	U	FRC telescoping Spectra LED 12-Volt flood (ea)	2	
		SPA530-Q15-SW-NS-H		
		One each side on front of 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.		
50-21-3088	U	Federal Signal Wireless Visibeam	1	
30-21-3000		P/N 1031564		
		The rear portion of the light shall be shielded to avoid potential of light shin	ing 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.		
50-21-5100		> Compartment lighting - LED tube lights in each compartment (rollup doors)	1	MTL
		ENG. NOTE:		
		Rollup doors only		
		Toliap abole only		
E0 24 EE00		Door Ains warning light	- 1	MTL
50-21-5500		Door Ajar warning light	7	IVIIL
		Included with the Diamond Logic indicator lights.		
		Bilingual warning label in cab to read:		
		"Do Not Move Apparatus when Light is on"		
50-21-5550		Equipment rack not stowed warning light	1	MTL
		For the LTS and the two Telelights		
		Included with the Diamond Logic indicator lights.		
		Bilingual warning label in cab to read:		
		"Do Not Move Apparatus when Light is on"		
		Do Not move Apparatus when Light is on		
50.04.0004		Other Parket Control of the PR		
50-21-8001		Step lights for body steps - 4" LED	1	MTL
		Switched with the park brake		
50-21-8200	S	Step lights for chassis steps - LED	1	MTL
		Switched when the adjacent cab door is opened and by the park brake		
		The second secon		
50-21-83AA	U	LED lighting for rear step/platform	1	
30-21-03AA		Switched with the park brake		
		Owitoned with the park brake		
E0 04 0000		LED alconomics the and reflectors		NAT'
50-21-8600	_	LED clearance Its and reflectors	1	l e
50-22-0700	S	Whelen 64 LED tail/brake-turn-backup module (pr)	1	MTL
50-31-6550		Ground lighting (LED Lumabar) - 2 door chassis	1	MTL
50-31-6570	S	Ground lighting (LED Lumabar) - side mount body	1	MTL
		Switched with the park brake.		
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PART NO	S	DESCRIPTION	QTY	ID
50-31-65AA	U	Hose bed lighting - LED on front partition	1	
50-35-0510	U	Provisions for Customer's mobile radio	. 2	
		Provision for two (2) customer radios is provided in the chassis cons	ole	
		20317500.	41.	
		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 pro	per	
		cutouts can be made.		
		Radio #1 - Motorola CM300 that measures 1.7" x 6.7" x 5.3"  Radio #2 - Motorola APX 4500 Provincial TMR		
		There will be a signal from the ignition required.		
		There will be a signal from the ignition required.		
50-35-0600	U	Antenna base only for commercial chassis complete with chrome raincap	2	
30-33-0000	U	Cable will be routed to the 20-31-7500 console and properly labeled.		
		Customer to specify any special mounting location or spacing requireme	nte	
		otherwise antenna base will be installed behind the lightbar one left and one	riaht	
		side.	ilgiit	
		Old		
		BODY	1	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 E	1	MTL
60-10-4700		Integral aluminum fender trim	1	MTL
60-10-5400		> Diamondback pumphouse steps	1	MTL
		ENG. NOTE:		
		Maximum height of step is 24" from ground		
60-10-5430		> Diamondback 19" rear step	1	MTL
		ENG. NOTE:		
		Maximum height of rear step is 24" from ground		
00 40 0000				
60-10-6000		Extruded rub rail	1	MTL
60-11-0300		> Front left side compartments full height E	1	MTL
		ENG. NOTE:		
		Specify critical dimensions in shop note		
60-11-0600		> Event right eide comportments intermediate height	1	MTL
00-11-0000		> Front right side compartments intermediate height ENG. NOTE:	,	IVI I L
		Specify critical dimensions in shop note		
		opedity citical differsions in shop hote		
60-11-1000		> Rear left side compartments full height E	1	MTL
00 11 1000		ENG. NOTE:	•	
		Specify critical dimensions in shop note		
		oposity states annother the states		
60-11-1300		> Rear right side compartments intermediate height	1	MTL
		ENG. NOTE:		
		Specify critical dimensions in shop note		
60-11-1900		> Low side compartment (up to 18") each	1	MTL
		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		
60 44 0000		Night side comparisons (every 4011) and b	_	AAT!
60-11-2000		> High side compartment (over 18") each	1	MTL
		ENG. NOTE:		
		Specify critical dimensions in shop note		
		Specify type of door		
		Specify flip up or drop down Specify which side of body		
		opeony willon side of body		
		Over left side rear wheel wheel		
-		Over lott side fedi wheel wheel		

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PART NO	S	DESCRIPTION	QTY	ID
60-11-3200		> Full Height Rear compartment	1	MTL
		ENG. NOTE:		
		Specify critical dimensions in shop note		
60-11-4535	U	Flush mount aluminum door - single with "D" handle - flip up w/gas struts	1	
		For the compartment over right side rear wheel wheel		
60-11-5500		Rollup door - standard height	1	MTL
		For the compartment over left side rear wheel wheel		
		Natural aluminum finish		
		Includes magnetic door switch, LED tube lights, rubber bumpers to pre-	vent	
		pinch point		
60-11-5510		Rollup door - intermediate height	2	MTL
		For the right side front and rear compartments		
		Natural aluminum finish		
		Includes magnetic door switch, LED tube lights, rubber bumpers to pre-	vent	
		pinch point		
60-11-5520		Rollup door - full height	3	MTL
		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 pre-	vent	
		pinch point		
60-11-5530		Rollup door - to enclose pump panel	1	MTL
		Natural aluminum finish		
		Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pir	ich	
		point		
CO 44 FOFF	.,	Anadan mullatinana Eleva IID Fant O aanunantusant		
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  Extruded aluminum handrails	3	MTL
60-31-4100			'	IVIIL
		Minimum 2" clearance from handrail to any surface		
60-31-5500	S	Steps at rear of body (folding) with LED lights	1	MTL
00-37-3300	3	Maximum height between steps is 18"	,	WIL
		Waximum height between steps is 10		
60-31-5600	S	Steps and grab handles at front of body next to pump panel	1	MTL
00 07 0000		Maximum height between steps is 18"		
		There shall be one (1) hand rail on the upper right side of the pump house (	none	
		on the left side due to the rollup door) and one (1) vertical at the right side		
		edge of the body. This will match the locations shown on the FT-11160 drawi		
		Discuss exact locations at the Pre-construction meeting;	9.	
		Suggested locations were approved by e-mail 03.20.2019		
		55 FF		
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	4	
		There shall be a cushion installed at the base of each compartment tube	a to	
		protect the bottles.		
		Include loop to hold cylinder in place.		
		Customer to specify diameter of cylinders to be stored and OA length		
		Diameter - 7"		
		OA length - 24.5"		
00.04.05==		OPPER AND AND FOOTH AND THE PARTY OF		
60-31-8650	U	Sliding tray (ea) - 500 lb capacity - lock in - lock out type	4	
		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;		
		Tray #1 - Left side front compartment		
		Tray #2 - Left side rear compartment		
		Tray #3 - Right side front compartment		
		Tray #4 - Right side rear compartment	tho	
		Reflective stripe is applied on the exposed edge for visibility when compartment door is open	riie	
		The largest item that will be carried will be a CET pump that measures: 27"	W×	
		The largest item that will be carried will be a CET pullip that measures. 27	, , ,	

12/05/2019				Page 10
PART NO		DESCRIPTION	QTY	ID
	25" H x 23" D			
60-31-9600	U Price Adjustment		10	
60-31-9600	S > Adjustable shelf (ea)		9	MTL
	ENG. NOTE:			
	Specify location			
	Shelves are located in the following			
	Shelf #1 - Left Side front compartn			
	Shelf #2 - Left Side front compartn Shelf #3 - Left Side rear compartm			
	Shelf #4 - Left Side rear compartm			
	Shelf #5 - Right Side front compart	tment - Shallow depth		
	Shelf #6 - Right Side rear compart	ment - Shallow depth		
	Shelf #7 - Left Side front compartn	nent - Full depth		
	Shelf #8 - Left Side front compartn			
	Shelf #9 - Left Side rear compartm			
		exposed edge for visibility when the compartme	ent	
	door is open			
60-32-3560	Three adjustable hose divider (e	each)	1	MTL
00 02 0000		e will be three (3) adjustable dividers.	•	
	•	` ' '		
60-32-7500	Hose bed - aluminum			MTL
		e included in the area around the water and fo	oam	
	till towers and the front storage	area ahead of the front partition.		
60-33-0000	Paint exterior - Imron Elite		1	MTL
00 00 0000	*** Paint code and colour to mat	ch red on cab (2303)	•	
	Total paint and primer thickness			
60-33-0200	Undercoat vehicle with KROWN ru	st protection		MTL
60-33-0600	Chassis wheels not painted Polished Aluminum wheels		1	MTL
	Polistied Aluminum wheels			
60-33-1000	Paint pump and plumbing job colo	ur	1	MTL
60-33-1600	Special paint compartment inter	ior - gray zolatone E	1	MTL
		e finished with a gray textured paint for ch	nip	
	resistance. Shelves, trays, unist	ruts and hardware are left natural aluminum.		
60-33-2200	Lettering - 80 letters up to 3" tall	I - 3 colour	1	MTL
00-33-2200	*** Vinvl letters. Fire Department	t to provide details on location and text.	,	1V1 1 L
		igh red reflective on each rear side compartme	ent	
	doors.	·		
		ided around the rear fender area of the body	and	
	the front fender area of the chas	sis.		
60-33-3000	Reflective stripe - 4" white		1	MTL
00-33-3000	50% of perimeter each side and	25% of perimeter front.	•	171 T L
	3M Scotchlite material			
60-33-3310	Reflective stripe - red and yellow		1	MTL
	Minimum 50% of rear vertical su Printed on 3m Scotchlite materia			
	Finited on an acotonite materia	ai.		
60-33-3500	Tarp over hose bed - black		1	MTL
60-33-4700	No crosslay preconnects on veh	nicle E	1	MTL
60-40-5500	Suction hose tube (each) with d	oor	2	MTL
	To store the 6" x 13' suction hos			
	Located under the tee of the wa latches.	ter tank with rear access doors with lift and tu	urn	
	Door ajar switch required.			
	_ oo. aja. oton roquirour			
60-40-8500	> Tail light box Fire Extinguisher t	tubes (pr)	2	MTL
	ENG. NOTE:			
	Specify size/dimensions of Fire ex	tinguishers to be stored		

12/05/2019	•	DECORIDATION	OT	7	Page 11
PART NO	S	DESCRIPTION For storage of the ABC fire extinguisher 80-17-0500 and the C02 fi	QT'	Y	ID
		extinguisher 80-17-1000.	16		
		PAC 1006-B Adjustamount straps will be installed to secure extinguishers in	the		
		tubes			
60-40-9001	S >	Tube mount for portable tank, through tank		1	MTL
00-40-9001		ENG. NOTE:		•	WIL
		Specify location, ladders to be installed in this tube, complete dimensions of ladder	ers 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.			
60-41-1000		Pike Pole tube with door			MTL
60-41-1000		To store the 10' pike pole 80-13-2500 and the 6' pike pole 80-13-2510.		7	IVI I L
		Located under the right side fender top with a rear access stainless steel d	oor		
		with lift and turn latch.			
60-41-9001	s >	Zico electic Ladder Access system LAS-BHM-1200		1	MTL
00-41-9001		ENG. NOTE:		,	WIL
		Specify mounting location desired.			
		If ladder(s) are customer supplied, specify overall length and width, width between	en		
		side rails, rung spacing; also specify ladder brand and model			
		Right side - for the storage of the 35' 3 section extension ladder 80-14-2500,	the		
		16' roof ladder 80-14-6000 and the 10' attic ladder 80-14-8500 on the 80-14-90			
		brackets.			
		To be wired so only operable when park brake is engaged.  Flashing lights and reflective tape required at front and rear to indicate	anv		
		areas that protrude beyond the body.	arry		
		The model has changed to a LAS-BHM-1200 to keep the two (2) ladders wi	hin		
		the allowed overall width of the unit.			
60-41-9010		ZICO LAS switched at rear above tail light E		1	MTL
		Switch is located on same side as electric rack - right side			
		INOTOLINENTATION		4	BAT!
70-11-0000		INSTRUMENTATION Warning Label on Pump Operator's Panel		1	MTL MTL
70-11-0501		Side mount instrument panel with rollup door LS only		1	
		No gauge or visual display can be higher than 84" above the operator's standi	ng		
		position Midpoint of any control cannot be higher than 72" above the operator's standi	na		
		position	ilg		
70-11-1500		Stainless steel instrument panels  No gauge or visual display can be higher than 94" above the energter's standi	2.6	1	MTL
		No gauge or visual display can be higher than 84" above the operator's standi position	ıg		
		Midpoint of any control cannot be higher than 72" above the operator's standi	ng		
		position	_		
70-11-3200		Colour coded tags		1	MTL
70-11-0200		Language to be English		•	
,, ,					
70-11-4500 70-11-5110		Diamondback grip type panel hood step right side		1	MTL
70-11-5110		Open storage at rear top of pump house Lighting required.		1	
		Floor to be plastic interlocking tile			
70 44 5500					
70-11-5500		Right side tread plate pump access door No opening dimension less than 18"		7	MTL
		no opening annension less than 10			
70-11-7500 70-11-8000		Heat pan-aluminum Heater in pump compartment		1	MTL MTL
10-11-0000		Heater switch will be located on the left side pump operator's panel.		1	WIIL

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PART NO	S	DESCRIPTION	QT	Y	ID
70-20-2130	U	2-1/2" pressure gauge - dual face 0-400 - Thuemling		9	
		Thuemling control rod assembly with 2-1/2" 0-400 dual scale pressu	ıre		
		gauge/bezel assembly (chrome bezel and color code in handle)			
70-20-2500		Primer control	l		MTL
70-20-2501		Additional Primer control		3	MTL
		For the three pre-primers - ref 30-51-7714	ĺ		
			l		
70-20-3100		Class One Governor Control	ĺ	1	MTL
		Throttle can be no lower than 42" and no higher than 72" from operator's stand	ng		
		position.	ľ		
70-20-3500		Electric water level gauge on pump panel, Class One	l	1	MTL
70-20-3610		Remote PSTANK water level indicators each side, rear with driver E	1	1	MTL
10 20 0010		One each side at the front corner of body, and one on the rear left side up	pper		
		corner			
		Interlock with park brake so powered only when the park brake is set.	l		
		microck with park stake so powered only when the park stake is con			
70-20-6500		Test gauge panel		1	MTL
70-20-7500		Heat exchanger control valve			MTL
70-21-1500	S	Electric Foam Level gauge on pump panel, Class One		1	MTL
70-21-7000		ACCESSORIES		1	MTL
80-11-5020	U	6 inch x 13 ft suction hoses	l	2	₩ 1 ⊑
00-11-3020	U	Tube mounted		_	
		Tube mounted			
80-12-2500	S	6" barrel strainer		1	MTL
00-12-2300	3	Mounted on the mounting plate 80-12-2510 in a location as determined at	tho	,	IVIIL
			uie		
		pre-construction meeting The department advised Metalfab by e-mail on 03.20.2019 that they want	:4		
		mounted in the L3 compartment, on the back wall, under the depth change,	ugni		
		to a sidewall to minimize the amount of room that it will require.			
00 42 2540		Cumply and install maying fay 6" have a strainer	1		
80-12-2510	U	Supply and install mount for 6" barrel strainer		1	
		P/N 1501175 - SOPT #51	41		
		Mounted on the mounting plate 80-12-2510 in a location as determined at	tne		
		pre-construction meeting.			
		The department advised Metalfab by e-mail that they want it mounted in the			
		compartment, on the back wall, under the depth change, tight to a sidewa	II to		
		minimize the amount of room that it will require.			
			1		
00 40 4500		TET ACCURACY (ET L		_	
80-12-4502	U	TFT A03HNX-JET Low Level strainer - 6" with Storz on jet (Red Head)	1	1	
		To achieve pump capacity through the low level strainer	1		
		P/N 1500702 SOPT #394	1		
		Red Head Storz fittings will be installed on the venturi	T I		
		Mounted in a location as determined at the Pre-Construction meeting.			
		department advised Metalfab by e-mail 03.20.2019 to mount the strainer on	tne		
		pull out tray in the L3 compartment.			
00 40 0500		Dubban mallat with fibuaria - handle			8471
80-13-0500	S	Rubber mallet - with fibreglass handle	4.	7	MTL
		Mounted with the Toolok 80-13-0513 in a location as determined at			
		Pre-construction meeting. The department advised Metalfab by e-mail	on		
		03.20.2019 to install it on the side wall of the pump panel compartment.			
00 40 0740		DAO T I. I. 4000 C			
80-13-0510	U	PAC Toolok 1003 for mounting rubber mallet		1	
		P/N 1562258 - SOPT #319	L		
		The department advised Metalfab by e-mail on 03.20.2019 to install it on the	side		
		wall of the pump panel compartment.			
00 10 1000					
80-13-1200		Clare hose wrenches (double) with holder		3	MTL
		Mounted on left side pump panel, right side pump panel and on rear of l	oody		
		where room permits.			
80-13-1500		Bar with bracket		1	MTL
		Mounted horizontally under the rear compartment roll up door bottom facia.			

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PART NO	S	DESCRIPTION	QTY	ID
80-13-2500		Pike pole, fibreglass handle - 10' long Tube mounted.	1	MTL
80-13-2510		Pike pole, fibreglass handle - 6' long	1	MTL
80-13-2510		Tube mounted.	7	IVIIL
80-13-4000	S	Axe, pick head, yellow fibreglass handle and bracket ***Non slip hand hold*** P/N 1520133	2	MTL
		Mounting location was determined at the Pre-construction meeting. department advised Metalfab by e-mail on 03.20.2019 that they would like axes mounted on the back wall of the R2 compartment if room permits.	The the	
80-14-2500		35' 3 section extension ladder PEL3-35	1	MTL
80-14-6000		16' aluminum roof ladder PRL-16	1	MTL
80-14-7510	S	Padded ladder boot - 3 section and roof ladder  The ladder boot will handle a 35' 3-section and a 16' roof ladder.	1	MTL
80-14-8500		10' aluminum folding attic ladder FL-10	1	MTL
80-14-8300		Stored in the 80-14-9000 attic ladder bracket mounted on LAS Provide test documents as per 80-99-60AA	,	WIIL
00.44.0000		Attic Indian bushes (Tica)		8471
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	1	
		Shipped loose		
80-15-0500		1500 I 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 NP with Red Head Storz adapters, pyrolite construction shall be supplied. Shipped loose, not mounted. Customer will mount.	SH	MTL
00 47 0500	•	OOH day about al fire action viale		8471
80-17-0500	S	20# dry chemical fire extinguisher Tube mounted.	1	MTL
80-17-1000	S	15# CO2 fire extinguisher	1	MTL
		Tube mounted.		
80-17-1500	S	2.5 gallon water extinguisher with mount	1	MTL
		Mounting location was determined at the Pre-construction meeting. department advised Metalfab by e-mail on 03.20.2019 that they would like water extinguisher mounted in the R1 compartment.	The the	
00 40 0500	_	CCDA brooket with atron compt mount		NAT!
80-18-0500	S	SCBA bracket with strap - compt mount SCBA mounting bracket with retaining strap - compartment mount only Bolted to the back wall of the L2 compartment	4	MTL
		Customer to provide dimensions of SCBA to be stored		
		Height: 24.5"		
		Width: 12"		
		Depth: 10.5"		
		Diameter of cylinder: 7"		
80-18-0840	S	Pistol arin nozzlo holdor - ZICO NPM 2	2	MTL
00-10-0040	J	Pistol grip nozzle holder - ZICO NBM-2  Mounting location was determined at the Pre-construction meeting. department advised Metalfab by e-mail on 03.20.2019 that they would like	The	IVI I L
		nozzle holders mounted in the upper part of the L1 compartment to hold s nozzles.		

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PART NO	S	DESCRIPTION	QTY	ID
80-19-0500		Large folding wheel chock - aluminum (ea) not mounted Shipped loose, not mounted. Customer will mount.	2	MTL
		Shipped loose, not mounted. Customer will mount.		
80-99-60AA	U	Ground ladder tests to meet NFPA 1932 (2015 Edition)	1	
		Ground ladder tests to meet NFPA 1932 (2015 Edition) All ladders shall be manufactured in current year and shall, prior to delivery tested as per NFPA-1932 (2015 or latest edition) within six months of date delivery. A copy of the tests shall be provided at final inspection.	, 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.		