



Shop Order

West Bay Road Fire Department
 Paul Shears
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Exp. Date: 12/29/2019
Quote No: JWBNS-0023
Job/Order No: 21833
BODY: 00-10-15 Metalfab Pumper - ULC 05/13

05/24/2022

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PART NO	S	DESCRIPTION	QTY	ID
		== Metalfab Pumper - ULC 05/13 - 0.000 ==	1	MTL
	S	Change Order E	1	MTL
00-05-0010		Dealer - Metalfab	1	MTL
00-10-1500		Metalfab Pumper	1	MTL
00-20-1000		Company Profile	1	MTL
00-20-1500		Standard Body Warranty	1	MTL
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 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
10-11-0105		Vehicle Data Recorder not requested E	1	MTL
10-11-1100		ULC S515-13 Compliance	1	MTL
10-11-1500		> ULC Testing - Pumper - Imperial units of measure	1	MTL
		ENG. NOTE:		
		Note in the shop note if the Fire Department wishes to witness the test		
10-11-2100		Maximum length not specified E	1	MTL
10-11-2200		Maximum height not specified E	1	MTL
10-11-2400		Overall length is 30' or more	1	MTL
10-11-2500		General Construction	1	MTL
10-11-3000		Manuals - two copies	1	MTL
		***Two copies of chassis manuals are required.		
10-11-3600	S	> Delivery - FOB Fire Department	1	MTL
		ENG. NOTE:		
		Note in the shop note if more than 4 hours of training is required		
10-11-4000		Payment Terms - Chassis Net 10 days, Balance COD	1	MTL
10-20-1400	S	> Hose capacity exceeding ULC/NFPA requirements - Add 122 lbs	1	MTL
		ENG. NOTE:		
		Specify the type of hose and quantity of hose to be carried on the vehicle		
		400' of 4" hose, 650' of 1.75" hose and 400' of 2.5" hose as discussed at the pre-construction meeting of 01.07.2021		
		There will be an additional 112lbs added to the standard 600lbs based on the hose carried.		
10-20-2000	S	Equipment carrying capacity - standard ULC Pumper - 2000 lbs	1	MTL
		CHASSIS INFORMATION	1	MTL
20-11-1000	S	Chassis supplied by Metalfab - Freightliner M2 106	1	MTL
		Freightliner M2 106 - 2022 model year		

PART NO	S	DESCRIPTION	QTY	ID
		45,600 lb GVWR 14,600 lb front axle 31,000 lb rear axle To be 231" wheelbase 166" cab to axle Cummins L9 360 hp @ 2000 rpm 2200 governed rpm 1150 lb/ft torque @ 1200 rpm Cummins exhaust brake, activates stop lamps 3000 EVS automatic transmission, PTO opening LH side and top RH 69 MPH top road speed 275 Amp alternator 189 litre fuel tank, LH Power windows, manual door locks No back window A/C added by Paul Shears on 12.03.2020 Air horn controls are lanyards as requested by Paul Shears on 12.03.2020 ESC Single color yellow - 00836403 EB Elite BC - paint sample approved by Paul Shears on 12.17.2020 and signed form is in the binder Aluminum wheels Add Engine compartment light - code 469-014 Add air tank - code 46A-002		
20-11-1500		2013 Emission chassis modifications	1	MTL
20-11-1700	S	Chassis Motor Vehicle Inspection required prior to delivery There will be a chassis MVI done a few weeks prior to delivery	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
20-21-1560		LED Tire Pressure Indicators - Single Axle	1	MTL
20-21-1600		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"	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	S	Front mudflaps provided with chassis	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 Vertical trim only, OEM cab steps remain	1	MTL
20-31-1900	S	Chassis cab painted single color by chassis OEM	1	MTL
20-31-7500	S	Console in cab Install siren (50-11-1400), pump and roll indicator lights (30-51-0400), Traffic Advisor (50-11-6615), PTO engagement (30-51-1500) in console, PTO hourmeter (70-21-2100) and radio provisions (50-35-0500) - TMR in Center and VHF on side towards officer. Storage area with hinged cover and lift and turn latch provided at rear of console - includes a divider to hold a binder. Shelf on the back side to hold a VHF and two (2) TMR portable. Customer supplied chargers were picked up 07.09.2021. VHF base measures 4" x 5" and TMR bases measure 4" x 8" Gray Zolatone finish	1	MTL
20-41-0600	S	Intake air shutoff for engine not requested	1	MTL
20-41-0900		Auxiliary braking system disabled when pumping	1	MTL
20-41-1100		Transmission programming - Allison WT	1	MTL
20-41-1500		Extend exhaust pipe - RS front of rear wheels E Engineering to specify exhaust pipe material as required by the chassis manufacturer. Engineering to sign off on the exhaust configuration to make sure it meets the chassis	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		manufacturer's emission specifications.		
20-41-1900	S	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
20-41-5010	S	Rear Tow Hooks - through rear of body	1	MTL
		*** Flat bar tow hooks through rear of body in back wall of back compartment with rubber seals and stainless steel slotted cover plates		
20-51-0710		Master Battery Disconnect included with Freightliner chassis	1	MTL
20-51-2500		Back up alarm included with chassis	1	MTL
20-51-3000		Air inlet with matching fitting - LS	1	MTL
		Left side cab step area		
20-51-3400		Protection valve installed for air operated accessories	1	MTL
20-51-6200		> 120 volt 20 A shore line connection in chassis cab	2	MTL
		ENG. NOTE: Requires 20-51-75 120 volt auto eject or 20-51-80 120 volt inlet		
		Standard 5-20R duplex receptacle in chassis cab, not fused Both in cab - 1 for battery conditioner and 1 for TMR & VHF portable radio charger To be 12" minimum from chassis floor to meet ULC		
20-51-6500		Kussmaul Autocharge 1000 battery conditioner w/battery saver	1	MTL
		Located back side of console/floor area.		
20-51-7101	S	Electric System Management - VMUX	1	MTL
20-51-8010		120 volt - 20 A volt inlet	1	MTL
		Left side cab step area - Minimum 24" from grade.		
20-51-8510	S	Engine compartment lights LED - with chassis	1	MTL
		One required to light up complete engine compartment and will be supplied with chassis		
20-51-9001	S	Air horns and controls as supplied by chassis OEM	1	MTL
		There will be lanyards to activate the air horn as requested by Paul Shears on 12.03.2020.		
20-52-0010	S <	Air horn control/actuation on pump operators panel	1	MTL
		SOPT #1056		
		There will be an air horn button mounted on the pump panel as requested at the pre-construction meeting of 01.07.2021		
20-52-3500	S >	Chassis steering wheel lined up by Metalfab	1	MTL
		ENG. NOTE: Freightliner, Sterling, and Spartan only		
20-52-4001		Rear View Camera system 7"	1	MTL
		Rearview Systems STM7000 with 7" colour monitor in cab rigidly mounted on center dash area.		
20-60-0400		Chassis wheelbase does not change	1	MTL
		PUMP AND PLUMBING	1	MTL
30-11-3011	U	Hale PTO driven pump	1	
30-11-3012	U	Hale RSD 1050 IGPM PTO Pump	1	
		The pump will be a Hale RSD 1050 IGPM PTO pump. SOPT 1105		
30-15-0304		Plumbing - non manifold pump SM SS	1	MTL
30-20-0500		Valves and controls - side mount panel	1	MTL
30-20-1002		Akron valves specified	1	MTL
30-20-1620	S	Piping stainless steel - non manifold Pumper	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
30-20-1700	S	1-1/2" thread specifications NPSH	1	MTL
30-20-1800	S	2-1/2" thread specifications NSZ1	1	MTL
		Department to supply male and female sample thread for testing purposes. Thread is 3.234x5 and was picked up 07.09.2021		
30-20-2000		Piping hydrostatic test	1	MTL
30-20-2510		Anodes in suction and discharge piping - non manifold pump	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.		
30-21-9510		Tank to Pump 4" Ball valve SS, handwheel control with check valve manifold pump	1	MTL
30-22-0520	S	Tank Fill valve 2" SS	1	MTL
30-31-4020	S	Suction - 6" gated each side SS non manifold pump 6" header	1	MTL
30-31-7100		> Hale master intake suction valve - handwheel control	2	MTL
		ENG. NOTE: Not available for top mount panels Hale pumps only Note location in Shop Note		
		Suction to be gated is left and right. Hand wheel control and indicator lights will both be located on left side pump panel.		
30-32-7550	S	Suction - 2-1/2" left side SS, bleeder, non manifold pump	1	MTL
30-32-8050	S	Suction - 2-1/2" right side SS, bleeder, non manifold pump	1	MTL
30-40-2006	S	4" right discharge, plumbed 3", non manifold pump 4" Storz connection	1	MTL
30-41-2040	S	2-1/2" RS discharge SS, bleeder, non manifold pump 2.5" end cap not required with 80-99-20AA adapter	1	MTL
30-41-2540	S	2-1/2" LS discharge SS, bleeder, non manifold pump 2.5" end cap not required with 80-99-20AA There will only be one (1) 2.5" discharge on the left side pump panel as requested by Chief Paul Shears on 06.01.2021	1	MTL
30-41-25AA	U	2-1/2" LS hosebed discharge SS, bleeder, non manifold pump There will be a 2-1/2" discharge in the left side of the hose bed at the front to allow another pre-connected hose. As requested by Chief Paul Shears on 06.01.2021	1	
30-42-8520	S	1-1/2" rear discharge SS, plumbed 2" Installed on each side of the walkway at the front of the hose bed - leave ample room so hose wrenches can be used to tighten / loosen hose couplings the pre-connected hose lines. Department to supply hose load capacity: Single stack of 1.75" x 150' on left side of walkway - Color of tag to be orange Single stack of 1.75" x 200' on right side of walkway - Color to be purple As discussed at the pre-construction meeting of 01.07.2021 and colors confirmed on 10.14.2021	2	MTL
30-43-1520	S	2-1/2" rear discharge SS, plumbed 2-1/2", bleeder *** Right Side 2.5" end cap not required with 80-99-20AA adapter Color of tag to be yellow as advised by Chief Paul Shears on 10.14.2021	1	MTL
30-44-6520	S	Piping for monitor SS, plumbed 3", bleeder Piping will be center side to side and front to rear in dunnage area over pump house. Make and model of Monitor - Akron 3423 (ref 80-16-0500) and the top of the monitor piping will be mounted flush with the top of the pump house to allow 360-degree rotation of the monitor. As discussed at the pre-construction meeting of 01.07.2021	1	MTL
30-51-0400	S	Pump shift - PTO Pump and Roll ***Includes "Pump Engaged" indicator lights on chassis instrument panel and on the	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		pump panel ***Includes "Throttle Ready" indicator light on Pump operating panel Includes indicator light showing "OK TO PUMP" when transmission is in neutral, park brake is set, and PTO control energized. The remote electronic throttle will be energized in this mode. Includes indicator light showing "OK TO PUMP AND ROLL" when the transmission is not in neutral, the park brake is not set, and the PTO control is energized. The remote electronic throttle will not be energized in this mode.		
30-51-1500	S	Power shift PTO - Automatic transmission Left side PTO opening for RSD-J gearbox	1	MTL
30-51-1501	S	> PTO driveshaft ENG. NOTE: Quantity of 2 for pumps mounted on 4 door cabs due to length	1	MTL
30-51-6800	S	FRC InControl Governor/Throttle engine display with throttle knob	1	MTL
30-51-7005	U	Suction Side Relief V/V. non manifold pump One for the left MIV and one for the Right MIV	2	
30-51-7716		Trident Automatic Air Primer 3 barrel 3 location Location #1 - Main pump Location #2 - Left side MIV Location #3 - Right side MIV	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
30-51-9000		Thermal Relief Valve Discharge plumbed to below frame level to atmosphere.	1	MTL
30-52-1000		Master drain V/V, 12 port	1	MTL
30-52-3001		Foam system not requested E	1	MTL
		WATER AND FOAM TANKS		
40-11-2100		Polypropylene water tank (Imperial gallons)	1	MTL
40-11-2200		Water tank capacity certification (tank manufacturer)	1	MTL
40-11-6000		Tank capacity 1400 Imperial Gallons	1	MTL
40-21-1000		4" tank to pump connection	1	MTL
40-22-0500		2" tank fill connection	1	MTL
40-23-0500	S	3/4" water level gauge connection	1	MTL
40-23-1050	S	4" Fireman's Friend connection - offset to right	1	MTL
40-23-1060	S	10" Newton dump connection - offset to left	1	MTL
40-30-0500	S	Sump drain valve (3" gate valve) with linkage	1	MTL
40-30-1000		Water Fill Box front left corner	1	MTL
40-31-3500		10" rear Newton dump, stainless steel Offset left of center in back compartment	1	MTL
40-31-3600		Newton dump - stainless steel 36" telechute	1	MTL
40-31-5500		Electric operator for Newton dump, top mount Switch located on back of body over the left side tail light module.	1	MTL
40-31-9000	S	4" Storz rear fill, Fireman's Friend, bleeder Offset right of center in back compartment - leave ample room between Storz connection and wall of compartment for the use of hose wrenches when connecting and disconnecting LDH. End of fitting to be as close to the inside of the rollup door to make for an easier connection	1	MTL
		ELECTRICAL		
50-11-0300	S	Base electrical system - multiplex Panel to be installed in the right side front compartment to make for easier access - standard location in the L1 compartment has slide out tray with rolled hose storage in front	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
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	S	Rocker switch panel with master warning switch at chassis ceiling ***Rocker switch assignments on chassis ceiling: MASTER -LIGHT BAR RED -LIGHT BAR CLEAR -REAR BEACONS -FLASHING WARNING -REAR FLOODS -LS SCENE -REAR SCENE -RS SCENE -DITCH LIGHTS -LS TELE -RS TELE	1	MTL
50-11-1400		Federal PA300 100 watt siren	1	MTL
50-11-1620	>	Siren speaker,100 watt, in front bumper ENG. NOTE: AS124 speaker 1570860 Standard Metalfab protective grill to be supplied and installed	1	MTL
50-11-2600		Siren to be accessible to driver and officer	1	MTL
50-11-5812	U	Federal LPX53DS-NFPA SOPT 798 White light pods will be used as flashers, controlled by switch 50-11-0900 and interlocked with park brake as approved by Chief Paul Shears.	1	
50-11-6615	S <	Rear LED Traffic Advisor warning lights - TAM83 - recess mount - 30.45" long SOPT #823 TIR3 super LED lights - 30.45" long The TAM83 traffic bar and TACTL5 controller were added at the pre-construction meeting of 01.07.2021. The controller will be installed on the console 20-31-7500. The traffic bar will be recessed mount in the intermediate step area under the hose bed due to space.	1	MTL
50-11-9010	S <	Rear beacons - Federal NVG10 LED (pr) - both red - no height restriction SOPT #1063 - truck specific	1	MTL
50-12-5028	U	Front LED flashers (pr)-red Federal QL43	1	
50-12-5110		Rear LED flashers (pr)-red Federal QL64XF-R Integrated in 50-22-0800 bezel	1	MTL
50-12-5218	U	Front side inter lts (pr)-red LED Federal QL43	1	
50-12-5318	U	Body side inter lts (pr)-red LED Federal QL43	1	
50-21-1505	U	Unity LED rear floods (pr) Switched in cab and on light head and when transmission is placed in reverse gear. These lights are not managed to shed SOPT 255a	1	
50-21-1610	U	Parking ditch lights in rear fenders - LED w/ SS housing (pr) Switched in cab and when transmission is placed in reverse gear. These lights can be managed to shed SOPT 160A	1	
50-21-2547	U	FRC telescoping SPECTRA LED 12V flood (ea) Switched in the cab Located on the front of pump house, one each side	2	

PART NO	S	DESCRIPTION	QTY	ID
		These lights can be managed to shed and will be wired to the Equipment not Stored light (50-21-5550)		
50-21-5100		> <i>Compartment lighting - LED tube lights in each compartment (rollup doors)</i> ENG. NOTE: Rollup doors only	1	MTL
		Compartments over rear wheels to have a 4" round recessed LED light		
50-21-5500		<i>Door Ajar warning light</i> Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on" Over driver seating position Zico Access Ladder (60-31-5000) is wired to this light	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" Over driver seating position One (1) for Zico Porta Tank rack (60-41-6001) and LS Extenda light (50-21-2547) One (1) for Zico Ladder rack (60-41-9001) and RS Extenda light (50-21-2547)	2	MTL
50-21-8001		<i>Step lights for body steps - 4" LED</i> Switched when park brake is set.	1	MTL
50-21-8200	U	<i>LED Lumabar for chassis steps - 2-door chassis</i> Switched when park brake is set. SOPT 194a	1	
50-21-83AA	U	<i>LED Lumabar for Zico access ladder and rear step surfaces</i> Switched when park brake is set. SOPT 307b	1	
50-21-8600		LED clearance lts and reflectors	1	MTL
50-21-8800		<i>LED intermediate turn signal/clearance/reflector length >30'</i>	1	MTL
50-22-0800	S	<i>Federal 4 QuadraFlare LED tail/brake-turn-backup-warning module (pr)</i> Brake, turn, backup, warning module will be mounted on the extinguisher boxes (60-40-8500) so additional TecNiq warning lights will not be required.	1	MTL
50-31-6010	S	<i>Scene light boxes (pr) - painted job color</i> Note any special requirements	2	MTL
50-31-6021	U	<i>Whelen C9SL scene lights - left side (pr)</i> Located in upper front and rear corner of body sides. Switched in cab These lights can be managed to shed.	1	
50-31-6022	U	<i>Whelen C9SL scene lights - rear (pr)</i> Located in upper corners on rear of body as shown on proposal drawing. Switched in cab and when transmission is placed in reverse gear. These lights can be managed to shed	1	
50-31-6023	U	<i>Whelen C9SL scene lights - right (pr)</i> Located in upper front and rear corner of body sides. Switched in cab These lights can be managed to shed.	1	
50-31-6550		<i>Ground lighting (LED Lumabar) - 2 door chassis</i> Switched when park brake is set.	1	MTL
50-31-6570		<i>Ground lighting (LED Lumabar) - side mount body</i> Switched when park brake is set.	1	MTL
50-35-0500	S	<i>Installation of customer supplied mobile radio</i> Radio information list required Radios were picked up 07.09.2021 and first radio is a Motorola XTL1500 TMR	2	MTL

PART NO	S	DESCRIPTION	QTY	ID
		with mic and mounting bracket. 2nd radio is a Motorola Radius SM120 with mounting bracket and mic. Power cables were shipped with radios. Frequencies for Radius SM120 are: RX freq - 151.925, TX freq 154.100 and TX-PL/DPL - 94.8 as per pic supplied 06.22.2021. See pic at F:/Data/Jacques/Current project/West Bay Rd/Picture		
50-35-0560	S	VHF antenna with base - commercial chassis No special mounting or spacing requirements. To be installed behind the light bar spaced out from the other antenna. As discussed at the pre-construction meeting of 01.07.2021	1	MTL
50-35-0590	S	Cellular/TMR antenna with base - commercial chassis No special mounting or spacing requirements. To be installed behind the light bar spaced out from the other antenna. As discussed at the pre-construction meeting of 01.07.2021	1	MTL
50-35-06AA	U	Magnetic Mic Mount SOPT in file. Location TBD at the Pre-construction meeting	2	
50-99-10AA	U	Hose bed lights - LED Lumabars Switched when park brake is set.	1	
50-99-25AA	U	LED lighting for walkway in center of hose bed 3 x 20" Lumabars Switched when park brake is set.	1	
		BODY	1	MTL
60-10-1400		Single axle extruded aluminum body	1	MTL
60-10-15AA	U	1" drop on lower edge of compartment floor - sweep out type SOPT1236	1	
60-10-4100		No "beavertail" rear step supports	1	MTL
60-10-4500		Aluminum tread plate fender surround - single axle	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
60-10-5452	U	Recessed platform step in hose bed Stepping surface in diamondback material - step will be 12" deep SOPT in file	1	
60-10-6000		Extruded rub rail	1	MTL
60-11-0200		> Front left side compartments intermediate height 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
60-11-0900		> Rear left side compartments intermediate height 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

PART NO	S	DESCRIPTION	QTY	ID
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 Flip up doors	2	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 Doors to be flip up	2	
60-11-5510		Rollup door - intermediate height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point	4	MTL
60-11-5520		Rollup door - full height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point	1	MTL
60-11-5530	S	Rollup door - to enclose pump panel Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point	1	MTL
60-11-5660	U	Amdor Pull Strap - Flex HD There will be an Amdor FLEX HD strap supplied and installed on the pump panel rollup door (60-11-5530).	1	
60-31-4100		Extruded aluminum handrails Minimum 2" clearance from handrail to any surface	1	MTL
60-31-5000	S	Zico access Ladder at rear of unit Minimum 7" clearance between rung and any obstruction Additional TecNiq turn signal / brake light in rear step rub rail will not be required due to the addition of the extinguisher tail light box tube. Switch for warning light in cab in indicate when ladder is not in stowed position.	1	MTL
60-31-5600	S	Steps and grab handles at front of body next to pump panel Maximum height between steps is 18" RS only due to roll up door on LS ***Two only required***	1	MTL
60-31-6500	S	Compartment matting-Interlocking Tile	1	MTL
60-31-82AA	U	Adjustable vertical dividers on pull out tray The pull out tray in the L1 compartment will be partitioned to hold the following: 4 rolls of 50' x 1.75" 2 rolls of 50' x 2.5" 1 roll of 25' x 4" Seven (7) slots total - rest of space will be open storage. There will be a fixed shelf (60-31-9600) installed above the rear portion of the dividers that will be 12" deep to hold loose fittings. It will pull out with the tray and hoses. As discussed at the pre-construction meeting of 01.07.2021	1	
60-31-8800	S	> Sliding tray (ea) - 600 pound capacity - 70% extension ENG. NOTE: Specify location ***Hardware requires 3-1/2" of compartment height White reflective stripe is applied on the exposed edge for visibility when the	4	MTL

PART NO	S	DESCRIPTION	QTY	ID
		compartment door is open Locations are at floor level in the following compartments: Left side front compartment Left side rear compartment Right side front compartment Right side rear compartment		
60-31-9600	S	> <i>Adjustable shelf (ea)</i> ENG. NOTE: Specify location	8	MTL
		Reflective stripe is applied on the exposed edge for visibility when the compartment door is open White reflective stripe is applied on the exposed edge for visibility when the compartment door is open 1. L1 full depth 2. L3 full depth 3. Back - full depth (under dump line and above tow eyes) 4. R1 full depth 5. R1 shallow depth 6. R3 full depth 7. R3 full depth 8. L1 shallow depth Change Order E - The shelves in L1 and R1 will be one (1) each shallow and one (1) each full depth due to the available space.		
60-32-3560	S	<i>Three adjustable, 2 fixed hose divider (each)</i> Hand hold required in end Section for dual 2.5" / 1.75" / 4" / suction hoses and a walkway	1	MTL
60-32-7500	S	<i>Hose bed - aluminum</i> Layout from left to right - dual lays of 2.5", 1.75" attack line, 18" wide walkway, 1.75" attack line, 400' of hi-vol Department to specify hose load to be carried: 2.5" hose: 400' 1.75" Attack line: 650' 4" hose: 400' As discussed at the pre-construction meeting of 01.07.2021	1	MTL
60-33-0000		<i>Paint exterior - Imron Elite</i> *** Paint code and colour yellow to match cab	1	MTL
60-33-0200	S	<i>Undercoat vehicle with KROWN rust protection</i> Metalfab will not use alternate product(s) like Rust Check or electronic rust control modules which would deviate from the Metalfab standard warranty.	1	MTL
60-33-0600		<i>Chassis wheels not painted</i> Aluminum wheels from chassis OEM	1	MTL
60-33-1000		Paint pump and plumbing job colour	1	MTL
60-33-1500		Buffed finish compartment interior	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. Door decals as per sample picture provided Keep back 150 Metre on rear door in white reflective and black outline Emergency 911 on rear side doors in white reflective and black outline Truck # 3 on each side of the hood Refer to approval drawing that was approved by Chief Paul Shears by e-mail on 02.22.2022	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		<i>Reflective stripe - red and yellow chevron at rear</i> Minimum 50% of rear vertical surface.	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		Printed 3M Scotchlite material		
60-33-3500		Tarp over hose bed - black The tarp will be in two (2) sections and the walkway (60-33-3580) will be left uncovered	1	MTL
60-33-3580	U	Non slip overlay on top walkway in hose bed - 18" wide There will be an 18" wide non-slip surface (embossed aluminum treadplate) installed in the walkway to meet ULC.	1	
60-33-4700		No crosslay preconnects on vehicle E	1	MTL
60-40-1000	S	3" Hose tray - top mount (ea) There will be two (2) 3" suction hose trays mounted to the ladder rack (60-41-9001) as requested at the pre-construction meeting of 01.07.2021	2	MTL
60-40-5000	S	6" Hose tray - top mount (ea) Attached to the PTS (60-41-6001) to carry the 6" x 10' suction hose 80-11-5000. As discussed at the pre-construction meeting of 01.07.2021	1	MTL
60-40-5500		Suction hose tube (each) with door To be completely enclosed and carry 13' suction hoses (ref 80-11-5020) Door ajar switch required.	2	MTL
60-40-8500	S	> Tail light box Fire Extinguisher tubes (pr) ENG. NOTE: Specify size/dimensions of Fire extinguishers to be stored There will be a pair of extinguisher boxes supplied and installed on the rear bumper for the customer supplied ABC and CO2 extinguishers. As requested by Chief Paul Shears by phone on 08.17.2021	1	MTL
60-41-1015		Pike Pole tube in suction hose tube Tubes are 2" ID and the length of the suction hose tube.	2	MTL
60-41-1500	S	Attic ladder tube with rear door Right side, rear access, to include a door ajar switch (50-21-5500) For a customer supplied 10' attic ladder. Dimensions: 11' 6" x 6" tall x 4" wide See pic: F:/Data/Jacques/Current Project/West Bay Rd/Picture There will be a 2" tube on the side for a customer supplied pry bar to slide in. The bar is a standard pry bar - as discussed at the pre-construction meeting of 01.07.2021	1	MTL
60-41-6001	S	> Zico hydraulic portable tank rack ENG. NOTE: Specify mounting location desired. If Portable tank is customer supplied, specify overall dimensions when the tank is in stored position Left side. To be wired so only operable when park brake is engaged and compartment door over rear wheels is closed. Flashing lights and reflective tape required at front and rear to indicate any areas that protrude beyond the body. Will carry a 2000 Imperial Gallon Porta tank (80-15-1000) and a 6" suction hose tray (60-40-5000) as added at the pre-construction meeting of 01.07.2021	1	MTL
60-41-6010	S	ZICO PTS switched on left side pump operators panel	1	MTL
60-41-6110		Painted plate on exterior of Zico PTS	1	MTL
60-41-7100		Tread plate on body behind porta tank rack	1	MTL
60-41-9001	S	> 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	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		Right side. To be wired so only operable when park brake is engaged and compartment door over rear wheels is closed. Flashing lights and reflective tape required at front and rear to indicate any areas that protrude beyond the body. For storage of the 24' two section extension ladder 80-14-0500 and the 14' roof ladder 80-14-5500 and two (2) 3" suction hoses and tray as added at the pre-construction meeting of 01.07.2021.		
60-41-9010	S	ZICO LAS switched on the right side pump panel	1	MTL
		INSTRUMENTATION	1	MTL
70-11-0000		Warning Label on Pump Operator's Panel	1	MTL
70-11-0500	S	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	S	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	S	Colour coded tags The following discharges will have special colors: 30-42-8520 - 1.5" rear discharges. 150' lay will be orange and 200' lay will be purple 30-43-1520 - 2.5" rear discharge will be yellow As requested by Chief Paul Shears on 10.14.2021	1	MTL
70-11-4500	S	Diamondback grip type panel hood step right side	1	MTL
70-11-5100	S	Open storage at top of pump house Drain holes required (plumbed down to below frame level) Plastic interlocking tile required on floor. Lighting as it is a storage compartment	1	MTL
70-11-5500	S	Right side tread plate pump access door No opening dimension less than 18"	1	MTL
70-11-7500	S	Heat pan-aluminum	1	MTL
70-11-8000	S	Heater in pump compartment Switch located on left side pump operator's panel	1	MTL
70-11-8200	U	Rubber seal around suction and discharge openings on panel SOPT 483	1	
70-20-0500	S	4-1/2" compound gauge - dual face 0-400 To be within 8" of each other - edge to edge	2	MTL
70-20-2130	U	2-1/2" pressure gauge - dual face 0-400 Gauge to be no more than 6" from edge of the gauge to the center of the control.	8	
70-20-2500	S	Primer control - Trident for main pump	1	MTL
70-20-2501	S	Additional Primer control - Trident for LS and RS MIV pre-prime	2	MTL
70-20-3300	S	FRC InControl 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
70-20-3611	U	Remote PSTANK2 water level indicators each side, rear with driver Interlock with park brake so powered only when the park brake is set.	1	
70-20-6500		Test gauge panel Mount below the compound gauges for proper draining	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
70-20-7500		Heat exchanger control valve	1	MTL
70-21-2100	S	> PTO Hourmeter ENG. NOTE: Specify location in shop note	1	MTL
		To be mounted on chassis console 20-31-7500		
70-21-5500		Panel readout for Battery Conditioner Left side cab step area	1	MTL
		ACCESSORIES	1	MTL
80-11-1000	S	3" x 10' lightweight suction hose (ea) There will be two (2) 3" suction hoses mounted to the ladder rack (60-41-9001) as requested at the pre-construction meeting of 01.07.2021 Department to supply hose thread: 3.234x5 as advised by Chief Paul Shears by text on 08.24.2021	2	MTL
80-11-5000	S	6" x 10' lightweight suction hose (ea) Tray mounted on PTS 60-41-6001 as discussed at the pre-construction meeting of 01.07.2021	1	MTL
80-11-5020	U	6" x 13' suction hose Tube mounted SOPT 149-13'	2	
80-13-1000	S	Hose wrenches (double) with holder Customer specified mounting location to be on the right side pump panel and back of body - as discussed at the pre-construction meeting of 01.07.2021	2	MTL
80-13-1100	S	Hose wrenches (triple) with holder Customer specified mounting location to be on the left side pump panel - as discussed at the pre-construction meeting of 01.07.2021	1	MTL
80-14-0500		24' 2 section extension ladder PEL 24 Stored on LAS	1	MTL
80-14-5500		14' aluminum roof ladder PRL-14 Stored on LAS	1	MTL
80-15-1000	S	2000 l gallon portable tank - Husky There will be a 2000 Imperial Gallon Husky porta tank with yellow liner stored in the PTS (60-41-6001) as requested at the pre-construction meeting of 01.07.2021	1	MTL
80-16-0500		Akron 3423 Portable/deck monitor with stacked tips Order portable base 2-1/2" swivels with Customer thread. Order 2-1/2" male and female threads on the deck gun and accessories with Customer thread. Deck monitor direct mount will be installed on monitor piping 30-44-6520. Ground base will be shipped loose (not mounted)	1	MTL
80-19-0500		Large folding wheel chock - aluminum (ea) not mounted	2	MTL
80-19-0600	S	> Horizontal bracket for folding wheel chock (ea) ENG. NOTE: Specify location, otherwise ship loose	2	MTL
		Locate and mount under shelf in the L3 compartment as requested by Chief Paul Shears		
80-99-06AA	U	TFT AJ8NX-NX 6" FNH x 6" MNH elbow There will be an elbow installed on the left and right 6" suction as discussed at the pre-construction meeting of 01.07.2021 Leave adequate room so these can be left installed and not be over width - drawing and dimensions of the elbow are in SOPT 1162 file (8.83" OA) The fitting must not hit the door edges on the pump panel door or the right side front of the body P/N 1501168	2	

