



Shop Order

City of St. John's
 Accounts payable division
 P.O. Box 908
 St. John's, NL A1C 5M2

Exp. Date: 08/14/2020
Quote No: St. John's, NL-0026
Job/Order No: 21696, 21697
BODY: 00-10-15 Metalfab Pumper - ULC 05/13

01/17/2022

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PART NO	S	DESCRIPTION	QTY	ID
		== Metalfab Pumper - ULC 05/13 - 0.000 ==	1	MTL
	S	CHANGE ORDER H	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	S	Metalfab Ten (10) Year Paint and Corrosion Warranty	1	MTL
		100% paint warranty for 10 years		
00-20-1600		Waterous Pump Warranty - 5 years	1	MTL
00-20-1800		Polypropylene Tank Lifetime Warranty	1	MTL
00-20-2000	S	Plant Visits - unlimited at customer expense	1	MTL
		Plant visits may be deleted due to COVID - as discussed at the pre-construction meeting of 10.22.2020		
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
10-11-1100		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 - by ERL	1	MTL
		ENG. NOTE:		
		Note in the shop note if more than 4 hours of training is required		
		To be picked up by ERL at Metalfab unless otherwise specified		
		The lettering will be covered for transit so that the unit are not identifiable		
		The driver will be instructed that no pictures of the units are to be posted on social media until the customer accepts the units.		
		As requested by Keith MacDonald on 11.02.2021		
10-11-4000	S	Payment Terms - Chassis Net 10 days, Balance NET 60 days	1	MTL
10-20-1400	S	> Hose capacity exceeding ULC/NFPA requirements	1	MTL
		ENG. NOTE:		
		Specify the type of hose and quantity of hose to be carried on the vehicle		

PART NO	S	DESCRIPTION	QTY	ID
		The main hose bed shall have the capacity for the following hose load; • 200ft of 45mm • 800ft of 100mm LDH • 800ft of 65mm • 600ft of 45mm Additional weight allowance of 888 pounds.		
10-20-2000		Equipment carrying capacity - standard ULC Pumper	1	MTL
		CHASSIS INFORMATION	1	MTL
20-11-1000	S	Chassis supplied by Metalfab - Spartan MetroStar MFD with 10" raised roof 42,000 lb GVWR 24,000 lb rear axle 18,000 lb front axle (4 leaf) 190" wheelbase 136" cab to axle Cab colors are DuPont L0006 EB white over DuPont L3240 EB red. Paint spray outs will be supplied by Spartan for Customer sign off Standard Spartan "Classic" paint break line with 1/2" gold reflective stripe Cummins L9 450 hp @ 2100 rpm 2200 governed rpm 1250 ft-lb torque at 1200 rpm 3000 EVS automatic transmission, 270 amp alternator 50 US gallon fuel tank Location for the proper placement of the jack shaft prior to chassis order - 104.5" as advised by engineering 10.13.2020 65 MPH top vehicle speed - confirmed at the Pre-construction meeting of 10.22.2020 Q2B Pedestal mounted siren on front bumper RH OB. Confirmed at the Pre-construction meeting that activation will be dash mounted push switches at both driver and officer position, kill switch is required and the siren be interlocked with E-Master. UHH-1 helmet holders (4) mounted in cab - locations to be two (2) on the rear upper left and right side wall (total of 4) and two (2) shipped loose. Changed with Spartan on 03.02.2021 as per Keith's request on 02.25.2021. Confirmed with Customer that the location of the PA4000 siren in cab will be mounted in lower right side of center dash to match M16-18411. Go-Lights on cab provided with chassis will be at each end of the 60" light bar to match M16-18411, be halogen and have wireless controls. Keith Maconald approved the wireless controls by e-mail on 05.19.2021 Confirmed with Customer that configuration for the Wi-Fi hot spot (5721-018) in relation to the provider (Bell Canada as per addendum) Ground lights changed as per Ryan's note on chassis printout (from Tecniq to Trucklite) Change location of electrical inlet to ship loose part #5210-018 Added air intake shut off 1716-019 with dash switch - see 20-41-0500 Both antennas were deleted as requested at pre-construction meeting of 10.22.2020 Added air inlet 3309-033 Added front bumper guide poles 2228-003 Added manual pump for cab lift 2302-005 Deleted the WIFI module where service in Canada is not available as advised by Spartan	1	MTL
20-11-1500		2013 Emission chassis modifications	1	MTL
20-11-1700	S	Chassis Motor Vehicle Inspection required To be done at ERL before delivery if NB MVI is not regognized in NL	1	MTL
20-21-0500		Fluid capacity plate	1	MTL
20-21-0600		Pumping test plate	1	MTL
20-21-1040	S	Maximum riders sign - 6 persons w/chassis	1	MTL
20-21-1510	S	Seat belt warning labels - 4 door chassis w/chassis	1	MTL
20-21-1520	S	Helmet warning label - do not wear helmet - with chassis	1	MTL
20-21-1560	S	LED Tire Pressure Indicators - Single Axle w/chassis Pressure indicators to be shipped loosed for installation by end user	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	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		** kg GVW		
		Changes in height since the apparatus was manufactured shall be noted on this plate by the Fire Department"		
20-21-2500		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
20-31-0100		Fuel tank or step covers not required	1	MTL
20-31-0200		Fuel fill label -Ultra Low Sulfur Diesel only	1	MTL
20-31-1900	S	Chassis cab painted white over red by Spartan chassis	1	MTL
20-41-0500	S	Intake air shutoff for engine w/chassis	1	MTL
		The control for this shall be located on the dash and be easily accessible to the operator.		
		In order to start the engine after the shutoff has been actuated, the air shutoff valve will have to be reset in the engine compartment.		
		Ordered with Spartan chassis - part # 1716-017		
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	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.		
		Ordered inboard of chassis frame		
20-41-1900		Battery boost terminals with chassis E	1	MTL
20-41-2000		Chassis batteries remain in OEM location	1	MTL
20-41-2550		Fuel fill at LS rear fender well	1	MTL
20-41-2600		Chassis fuel tank remains in OEM location	1	MTL
20-41-5000		Rear Tow Hooks - under body	1	MTL
		*** Flat bar tow hooks under rear step (2)		
20-51-0700		Master Battery Disconnect included with chassis	1	MTL
20-51-2500		Back up alarm included with chassis	1	MTL
		Auto adjusting		
20-51-3100	S	Air inlet not requested	1	MTL
20-51-3400		Protection valve installed for air operated accessories	1	MTL
20-51-62AA	U	Installation of 20 Amp Auto Eject on upper left rear of body	1	
		The electrical inlet (shipped loose with Spartan chassis) shall be installed on the upper left rear of the apparatus body approximately 6ft from the ground.		
		Ensure proper isolation method is used between the plate and the body as requested by Keith McDonald by e-mail on 08.18.2021 - isolation tape between the stainless panel and the painted surface, ECK in the mounting holes for the stainless fasteners.		
20-51-6501	S	Kussmaul battery conditioner and air compressor by Spartan	1	MTL
20-51-7102	S	Electric System Management included with chassis	1	MTL
20-51-8505	S	Engine compartment lights included with chassis	1	MTL
20-51-9001	S	Air horns supplied with Spartan chassis	1	MTL
20-52-0010	U	Air horn control on left pump operators panel	1	
		The label will indicate "Air Horn" as discussed at the pre-construction meeting of 10.22.2020		
20-52-0500		Rear step to cab buzzer	1	MTL
		Activation button located on rear below the auto eject receptacle as shown on the proposal drawing.		
20-52-3500		> Chassis steering wheel lined up by Metalfab E	1	MTL
		ENG. NOTE: Freightliner, Sterling, and Spartan only		
20-60-0400		Chassis wheelbase does not change	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
20-90-1810	U	Extend air tank drain/moisture ejectors to rubrail and tag/label PUMP AND PLUMBING	1	
30-12-3900		Packing for Waterous pumps	1	MTL
30-12-6500		Waterous CSU single stage 1500 IGPM	1	MTL
30-15-0204		Plumbing - Waterous manifold pump SM SS E	1	MTL
30-20-0500		Valves and controls - side mount panel	1	MTL
30-20-1002		Akron valves specified	1	MTL
30-20-1600		Piping stainless steel - general	1	MTL
30-20-1700	S	1-1/2" thread specifications - NPSH	1	MTL
30-20-1800	S	2-1/2" thread specifications - 3.25 5V	1	MTL
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. Ordered with pump	1	MTL
30-21-5560		Tank to Pump SS 3" w/ check valve manifold pump	1	MTL
30-22-0520		Tank Fill valve 2" SS	1	MTL
30-31-4010		Suction - 6" not gated each side manifold pump Ensure there is ample room for 80-15-7005 Piston intake valve on left side. The inside of the suction cap will be approximately 1" from the stainless steel panel to allow the most room for external accessories to be connected.	1	MTL
30-32-7535		Suction - 2-1/2" left side SS, bleeder, Waterous manifold pump	2	MTL
30-32-8035	S	Suction - 2-1/2" right side SS, bleeder, Waterous manifold pump Controls will be located on the right side panel beside the respective valve. The requirement for remote operation was deleted at the pre-construction meeting of 10.22.2020	2	MTL
30-40-2025	S	4" right discharge SS, plumbed 3", Waterous manifold pump, bleeder, slo-close	1	MTL
30-41-2025		2-1/2" RS discharge SS, bleeder, Waterous manifold pump	2	MTL
30-41-2525		2-1/2" LS discharge SS, bleeder, Waterous manifold pump	2	MTL
30-43-1520		2-1/2" rear discharge SS, plumbed 2-1/2", bleeder *** One each side as per the proposal drawing and photo's in RFQ document (Annex A) Reducing caps 80-99-20AA to be installed on these discharges.	2	MTL
30-44-0520		1-1/2" crosslay (each) SS, 2" valve, bleeder Minimum capacity for 200' x 1-3/4" hose and nozzle in each hose lay.	2	MTL
30-44-1020	S	> 1-1/2" front trash line SS, plumbed 2", bleeder, hosewell ENG. NOTE: Requires extended front bumper, gravelshield Minimum hose well capacity for 2 x 50' x 1-3/4" hose and nozzle. Swivel to be in bottom of hose well to match previous units.	1	MTL
30-44-6520	S	Piping for monitor SS, plumbed 3", bleeder, slo-close Piping to be centered left to right and front to back in the area behind the crosslays. Plumb so height of monitor 80-16-0500 on riser 80-99-25AA is no higher than the top of the cab when it is in the stowed position. The riser will have 12" of travel	1	MTL
30-51-0500		Pump shift-Midship air ***Includes "Pump Engaged" and "OK to Pump" indicator lights in cab ***Includes "Throttle Ready" indicator light on Pump operating panel Will be installed by Metalfab on the right side of the steering column to match M16-18411	1	MTL
30-51-0700		Pump Gearbox mounted manual over ride for pump shift E	1	MTL
30-51-66AA	U	FRC Total Control TCA100 The governor will be a FRC Total Control TCA100 as approved by Keith McDonald by e-mail on 09.01.2021	1	

PART NO	S	DESCRIPTION	QTY	ID
30-51-7000		Suction side relief V/V, manifold pump	1	MTL
30-51-7718		Trident Automatic Air Primer 3 barrel 1 location with gauge	1	MTL
30-51-7720	S	Additional air tank for air primer system	1	MTL
		An additional air tank is provided to improve air primer capacity and is included with the Spartan chassis part # 3305-002		
30-51-8100		Heat exchanger included with chassis	1	MTL
30-51-8500		Pump cooler with control valve, check valve	1	MTL
30-52-1000		Master drain V/V, 12 port	1	MTL
30-52-2000		Drain valve for foam system header	1	MTL
30-52-4210	S		1	MTL
30-52-4215	U	Foam System - Hypro FoamPro 2002 Single tank	1	
		The foam system is plumbed to both 1-1/2" crosslays, the two 2-1/2" rear discharges and front trashline as discussed at the pre-construction meeting of 10.22.2020		
30-52-8100	S	Electric foam fill pump with panel pickup	1	MTL
		Pick up and on/off controls to be installed on the right side pump panel to allow foam concentrate refilling from the ground and shall be located towards the right side of the pump panel so accessible when intake and discharge lines are attached to the vehicle.		
		***The system shall have a "y" strainer immediately before and after the pump to prevent contamination of the foam concentrate in case of pump failure and to prevent contaminants from entering the pump.		
		As discussed at the pre-construction meeting of 10.22.2020		
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
40-11-4000		Tank capacity 500 Imperial Gallons	1	MTL
40-12-5000		Foam cell - 30 Imperial gallon	1	MTL
40-21-0500		3" 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
40-23-1000	S	3/4" foam level gauge connection	1	MTL
40-30-0500		Sump drain valve (3" gate valve) with linkage E	1	MTL
40-30-1000		Water Fill Box front left corner	1	MTL
40-31-0400		Rear dump valve not requested E	1	MTL
40-31-6050		Rear fill not requested E	1	MTL
		ELECTRICAL	1	MTL
50-11-0400		Base electrical system - Spartan multiplex	1	MTL
		Vista displays in cab by Spartan (1 LH, 1 RH)		
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		
50-11-2500	S	Federal PA4000 siren and 100 Watt speaker in bumper by Spartan	1	MTL
50-11-6110	S	Whelen light bar included with chassis	1	MTL
		F4N60 with 2 red forward facing, 2 white forward facing, 1 red each front corner, 1 red each end.		
		Customer approved 60" lightbar layout by e-mail on 11.06.2021		
50-11-86AA	U	Rear LED Beacons-Whelen MCFLED2* (pr) DS red, PS Amber	1	
50-12-8000		Additional body side intersection light not required	1	MTL
		Distance between front and rear side intersection light does not exceed 25'		
50-12-8521		Front flashers, intersection lights included with chassis, Whelen 600	1	MTL
50-12-8603	U	Rear LED flashers (pr)-Whelen red LED 700 with integral flasher	1	
		Lower level - locate above the tail light modules		

PART NO	S	DESCRIPTION	QTY	ID
50-12-8810	S	Body side inter lts (pr)-Whelen red LED 600 with integral flasher	1	MTL
50-21-5110		Compartment lighting - LED tube lights in each compartment (flush doors) E	1	MTL
50-21-5500	S	Door Ajar warning light w/audible alarm Included with chassis Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on"	1	MTL
50-21-8001	S	Step lights for body steps - 4" LED Switched with park brake. The lights shall be from TruckLite to match the chassis ground lights. As discussed at the pre-construction meeting of 10.22.2020	1	MTL
50-21-8201	S	Step lights for chassis steps - LED by Spartan	1	MTL
50-21-83AA	U	LED lighting on rear step/platform Switched with park brake.	1	
50-21-8600		LED clearance lts and reflectors	1	MTL
50-21-8800		LED intermediate turn signal/clearance/reflector length >30'	1	MTL
50-22-0700	S	Whelen 64 LED tail/brake-turn-backup module (pr) All the lights shall be LED and the orientation will be the turn signal on top, the brake in the middle and the B/U light on the bottom. As discussed at the pre-construction meeting of 10.22.2020	1	MTL
50-31-6505	S	LED ground lighting included with chassis	1	MTL
50-31-65AA	U	Hose bed lighting - LED on front partition Switched with park brake.	1	
50-31-6620		Ground lighting (4" LED) - side mount body Switched with park brake.	1	MTL
50-99-10AA	U	FRC rear floods - FCA580-V11-ON 12V LED 11k Lumens - switched in cab Located one (1) on each side at the top rear of the apparatus body. *** The rear flood lights shall be switched on light head as well as function through a virtual button on the vista display screen and also activate when the vehicle is placed in reverse. *** The switch on the light head will be the main control so the control in the cab and reverse interlock would be defeated if the switch is off on the light head. Department approved that this is acceptable at the pre-construction meeting of 10.22.2020 These lights cannot be managed to shed as they are required for ULC *** Model is FCA580 to be side mount to match M16-18411 (model 570 is for top mount). Department approved that this is the preferred model at pre-construction meeting of 10.22.2020	2	
		BODY	1	MTL
60-10-1400	S	Single axle extruded aluminum body *****Subframe tubing to be 3/8" wall thickness***** Metalfab part # 3040213 Aluminum 1/2" x 1/2" x 1/8" protective chip guard shall be installed on the lower edge of both rear compartments, L2 and R2 only. L1, R1, L3 and R3 will not have them where protection is provided by the rub rails and to match M16-18411. Body corner extrusions are to be rounded type to match previous units M16-18411 As discussed at the pre-construction meeting of 10.22.2020	1	MTL
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

PART NO	S	DESCRIPTION	QTY	ID
60-10-6500	S	Bolt on extruded aluminum rub rail White reflective to be installed in rubrail. The rub rail will have standard anti-slip surface on the top surface - standard install. As discussed at the pre-construction meeting of 10.22.2020	1	MTL
60-11-0300		> Front left side compartments full height E ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-0700		> Front right side compartments full height E 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
60-11-1400		> Rear right side compartments full height E ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-2000	S	> 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 Tender request 28" high and drawing shows 19". This layout is approved where it matches the drawing attached to the tender and matches the previous unit M16-18411	2	MTL
60-11-2500		> Rear compartment at step level ENG. NOTE: Specify critical dimensions in shop note Rear compartment to be 26" deep as per tender	1	MTL
60-11-3000		> Rear compartment above intermediate step ENG. NOTE: Specify critical dimensions in shop note Rear compartment to be 26" deep as per tender	1	MTL
60-11-4520	U	Flush mount aluminum door - double with "D" handle For L1, L3, R1, R3 and B1 (lower) compartments Two point latching required	5	
60-11-4540	U	Flush mount aluminum door - single with "D" handle Flip up for the compartment above the rear intermediate step One (1) point latching required to match M16-18411 as confirmed with Keith MacDonald by phone on 10.04.2021	1	
60-11-5500		Rollup door - standard height For L2 and R2 compartments. Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point.	2	MTL
60-11-5655	U	Amdor Pull straps - FLEX - HD There will be an Amdor pull strap supplied and installed in the L2 and R2 compartments to assist in closing	2	
60-31-4100	S	Extruded aluminum handrails & special rear square tubing type handrails on rear Minimum 2" clearance from handrail to any surface.	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		The vertical handrails will be Two (2) vertically mounted on the rear of the vehicle which measure 54" long made of 1 1/2 square aluminum and are mounted 9" from the back of the apparatus body. The rail will be approximately 48" in length. These handrails shall be painted red - see reference picture in the RFQ document - Annex A and the proposal drawing.		
60-31-5500	S	<i>Steps at rear of body (folding) with LED lights</i> Maximum height between steps is 18" LS only to match M16-18411 and approved at the pre-construction meeting of 10.22.2020	1	MTL
60-31-5600		Steps and grab handles at front of body next to pump panel Maximum height between steps is 18"	1	MTL
60-31-5800	S	<i>Intermediate step/platform on rear between lower and upper compartments</i> To be as wide as possible	1	MTL
60-31-6500	S	<i>Compartment matting - plastic interlocking tile</i>	1	MTL
60-31-8006	U	<i>BA bottle compt (ea) - fender well</i> Retaining loops included Door ajar switch not required Customer to specify make and model of cylinder to be stored Make - MSA Model - G1 Diameter of cylinder - 7" Overall length of cylinder - 24" - tubes to be 26" long to match the Rescues Photo of valve/cap (to ensure retaining loop will fit) <u>As discussed at the pre-construction meeting of 10.22.2020</u>	4	
60-31-8700	S	> <i>Sliding tray (ea) - 400 pound capacity with gas strut</i> ENG. NOTE: Specify location Trays are located at floor level in the following compartments; Tray #1 - Left front side compartment Tray #2 - Left rear side compartment Tray #3 - Right front side compartment Tray #4 - Right rear side compartment White reflective stripe is applied on the exposed edge for visibility when the compartment door is open Department does not require latches on the front of the tray with the use of over centre gas struts. As discussed at the pre-construction meeting of 10.22.2020	4	MTL
60-31-9600	S	> <i>Adjustable shelf (ea)</i> ENG. NOTE: Specify location Shelves are located in the following compartments; Shelf #1 - Left front side compartment - full depth Shelf #2 - Left rear side compartment - full depth Shelf #3 - Right front side compartment - full depth Shelf #4 - Right rear side compartment - full depth White reflective stripe is applied on the exposed edge for visibility when the compartment door is open Customer to confirm the shelves on right side are full depth (upper part of compartment is shallow depth) - this was approved at the pre-construction meeting of 10.22.2020	4	MTL
60-32-3570		<i>Four adjustable hose divider (each)</i> Hand hold required in end	1	MTL
60-32-7500		<i>Hose bed - aluminum</i> The main hose bed shall have the capacity for the following hose load; • 200ft of 45mm	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		<ul style="list-style-type: none"> • 800ft of 100mm LDH • 800ft of 65mm • 600ft of 45mm Includes a divider between the hose bed and the water / foam fills		
60-33-0000		Paint exterior - Imron Elite *** Paint code and colour red to match red on cab	1	MTL
60-33-0200		Undercoat vehicle with KROWN rust protection	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	Lettering - 80 letters up to 3" tall - 3 colour *** Vinyl letters, Fire Department to provide details on location and text. Includes: Door Decal, Truck number on bottom of door (4 and 6) and roof decal (E4 and E6) As shown on drawing that was approved by Keith McDonald by e-mail on 08.27.2021	1	MTL
60-33-3300	S	Reflective stripe - 1" - 5" - 1" white reflective to match existing units 50% of perimeter each side and 25% of perimeter front 3M Scotchlite material	1	MTL
60-33-3320	U	Reflective stripe - Red and Yellow Diamond Grade Chevron There will be Red and Yellow Diamond grade Chevron supplied and installed on minimum 50% of rear of the body as requested at the pre-construction meeting of 10.22.2020	1	
60-33-3500		Tarp over hose bed - black Standard tarp over hose bed - rear flaps to include bungee cord and hooks.	1	MTL
60-33-4600	S	Aluminum cover over crosslays - with end tarps (black) The end tarps will be restrained by velcro straps as discussed at the pre-construction meeting of 10.22.2020	1	MTL
60-40-4500		6" Hose tray - side mount (ea) Stainless steel scuff plate each end. One tray left side over compartments and one right side over compartments. For storage of the 6" x 10' suction hoses 80-11-5000.	2	MTL
60-40-9000	S	> Tube mount for ladders, with rear door ENG. NOTE: Specify location, ladders to be installed in this tube, complete dimensions of ladders if user supplied This storage compartment to be weather tight and must be removable, for working in the pump module. Door ajar switch required For storage of the following components; Duo Safety 24' two section extension ladder 80-14-0505 (seperate from 14' roof) Duo Safety 14' roof ladder 80-14-5510 (seperate from 24') Duo Safety 10' folding attic ladder 80-14-8510 10' pike pole 80-13-2500 8' pike pole 80-13-2200 Interior of tube is sanded finish as per addendum The door can swing to the side that will offer the widest angle to make deploying the ladders the easiest. 100-degree opening would be preferable so the ladders do not get caught in the latch during deployment / storage. As discussed at the pre-construction meeting of 10.22.2020	1	MTL
60-41-1000	S	Pike Pole tube - rear access - integral with 60-40-9000	2	MTL
60-41-1500	S	Attic ladder tube - rear access - integral with 60-40-9000	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	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		Midpoint of any control cannot be higher than 72" above the operator's standing position The access panel on the left side will have thum latches instead of screws. See photo in F:/Data/Jacques/Current Projects/St. John's NI Pumpers/Pictures. As discussed at the pre-construction meeting of 10.22.2020		
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 Imperial units unless otherwise specified.	1	MTL
70-11-4102	U	Stainless steel side panel hood left side Above pump operator's panel - to be full width	1	
70-11-4506	U	Diamondback grip type panel hood step right side	1	
70-11-5110	U	Open storage at rear top of pump house Floor to have interlocking tile installed Floor to have drains installed and plumbed to below frame Area to be illuminated to meet ULC	1	
70-11-5500		Right side tread plate pump access door No opening dimension less than 18" Horizontally hinged with D latch and gas strut(s)	1	MTL
70-11-7550	U	Heat pan - aluminum extreme weather type	1	
70-11-8000	S	Heater in pump compartment Switch for heater located on left side pump operators panel.	1	MTL
70-11-8200	U	Rubber seal around suction and discharge openings on side panels	1	
70-20-1120	U	4-1/2" compound gauge - dual face 0-400 To be within 8" of each other - edge to edge	2	
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.	11	
70-20-2500	S	Trident Primer control	1	MTL
70-20-31AA	U	FRC governor control The governor will be a FRC Total Control TCA100 as approved by Keith McDonald by e-mail on 09.01.2021	1	
70-20-3500		Electric water level gauge on pump panel, Class One One located on left side pump operators panel.	1	MTL
70-20-6500		Test gauge panel Mount below the compound gauges for proper draining	1	MTL
70-20-7500		Heat exchanger control valve	1	MTL
70-20-7600		Pump cooler control valve	1	MTL
70-21-1500	S	Electric Foam Level gauge Include access to and room for sender in front of body and back of pump house One located on right side pump panel to allow operators to monitor the foam level when using the electric foam fill system.	2	MTL
70-21-2000	S	> Hourmeter - pump hours ENG. NOTE: Specify location in shop note Located on LS pump panel to match M16-18411	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		ACCESSORIES		
80-11-5000		6" x 10' lightweight suction hose (ea) Stored on the suction hose trays	1 2	MTL MTL
80-13-0500		Rubber mallet Shipped loose, not mounted. Customer will mount with Customer's brackets.	1	MTL
80-13-1000		Hose wrenches (double) with holder Mounted as directed by SJRFD, otherwise shipped loose with mounting fasteners.	2	MTL
80-13-1500		Bar with bracket Mounted as directed by SJRFD, otherwise shipped loose with mounting fasteners.	1	MTL
80-13-2200	U	Pike pole, fibreglass handle - 8' long Tube mounted	1	
80-13-2500		Pike pole, fibreglass handle - 10' long Tube mounted	1	MTL
80-13-4000	S	Axe, pick head, fibreglass handle and bracket Mounted as directed by SJRFD - on rear of body beside the Whelen 64 module as shown on the proposal drawing. As discussed at the pre-construction meeting of 10.22.2020	2	MTL
80-14-0505	U	Duo Safety 24' two section extension ladder Tube mounted	1	
80-14-5510	U	Duo Safety 14' roof ladder Tube mounted	1	
80-14-8510	U	Duo Safety 10' folding attic ladder Tube mounted	1	
80-15-7005	U	Dixon Northline Piston intake relief valve FSGR460 - 6" FNH x 4" storz with cap Installed on left side 6" suction inlet and not extend beyond rub rail when blind cap is installed. SOPT #574 Part number 1550515 for the valve Part number 1500650 for the 4" Storz blind cap Ship the valve loose as discussed at the pre-construction meeting of 10.22.2020	1	
80-16-0500		Akron 3423 Portable/deck monitor with stacked tips Direct mount and lift off monitor installed on riser 80-99-20AA. Portable base and stacked tips shipped loose. Order portable base 2-1/2" inlet swivels with Customer thread. Order monitor discharge, Stream straightener and stacked tips with Customer thread	1	MTL
80-18-0840	S	Pistol grip nozzle holder - ZICO NBM-2 To be shipped loose with mounting fasteners as discussed at the pre-construction meeting of 10.22.2020.	2	MTL
80-99-10AA	U	Harrington 6" barrel strainer with Lugs Shipped loose, not mounted. Customer will mount with Customer's brackets. Part / HTBS-60NH from Harrington as approved by Keith McDonald by e-mail on 07.14.2021	1	
80-99-15AA	U	Akron Turbomaster 1755 master stream fog nozzle Order with Customer thread - part number 1501367 (SOPT #567 - Truck specific) Install on 80-16-0500 Akron 3423 monitor	1	

