



Shop Order

Carrier Truck Center
 O/A Carrier Centers
 645 Athlone Place
 Woodstock, ON N4S 7V8

Wasauksing First Nation

Exp. Date: 04/20/2018
Quote No: Wasauksing FN, ON-0014
Job/Order No: 20292
BODY: 00-10-15 Metalfab Pumper - ULC 05/13

06/19/2019

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PART NO	S	DESCRIPTION	QTY	ID
		== Metalfab Pumper - ULC 05/13 - 0.000 ==	1	MTL
	S	CHANGE ORDER D	1	MTL
00-10-1500		Metalfab Pumper E	1	MTL
00-20-1000		Company Profile E	1	MTL
00-20-1500		Standard Body Warranty	1	MTL
00-20-1550		Metalfab Limited Ten (10) Year Paint and Corrosion Warranty	1	MTL
00-20-1600		Waterous Pump Warranty - 5 years	1	MTL
00-20-1800	S	Polypropylene Tank Lifetime Warranty	1	MTL
00-20-2000		Plant Visits - unlimited at customer expense	1	MTL
00-20-3000	S	No Bonding Requested	1	MTL
00-20-3500		Certification for Fusion Welding of Aluminum	1	MTL
00-20-4000	S	Quality System registered to ISO 9001:2015	1	MTL
00-20-4500		Fire Apparatus Manufacturers' Association Membership	1	MTL
		GENERAL INFORMATION	1	MTL
10-11-0000		Intent E	1	MTL
10-11-0110		Vehicle data recorder included with chassis	1	MTL
10-11-1101	S	ULC S515-13 and NFPA 1901-2016 Compliance E	1	MTL
		Include the following to comply with NFPA 1901-2016		
		Any verbiage to be bilingual (English/French)		
		**Safety signs with text to meet Section 4.9.4		
		**Brake lights to operate with the engine auxiliary brake (Section 12.3.1.4.3).		
		**Safety delineation for standing and walking surfaces to meet Section 15.7.1.6		
		**Hose restraint safety signs at each hose storage area to meet Section 15.10.6		
		**Have VDR print out sample (taken during pump test) included with manuals		
10-11-1500		> ULC Testing - Pumper	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 CCEV	1	MTL
		ENG. NOTE:		
		Note in the shop note if more than 4 hours of training is required		
10-11-4300	S	Payment Terms - Chassis Net 15 days & Body NET 30	1	MTL
		The chassis will be net 15 days when it arrives at Metalfab.		
10-11-43AA	U	Cost savings of paying for chassis Net 15 days	1	
		The chassis will be paid Net 15 days from it's arrival at Metalfab.		

PART NO	S	DESCRIPTION	QTY	ID
10-20-1000		Hose bed capacity - standard ULC Pumper	1	MTL
10-20-2000		Equipment carrying capacity - standard ULC Pumper	1	MTL
CHASSIS INFORMATION				
20-11-1000	U	Price Adjustment	1	
20-11-1000	S	Chassis supplied by Metalfab - Freightliner M2 106 - 4-door	1	MTL
		Freightliner M2 106, 4-door, 14,600lbs front GAWR, 31,000lbs rear GAWR for 45,600lbs GVWR. Motor to be Cummins L9 350hp and Allison 3000 EVS transmission. 247" wheelbase with 131.21" cab to axle measurement. 189 Liter fuel tank and frame extension from Freightliner. Aluminum wheels, air horns on the hood with foot switch controls and A/C. The seats will be as follows: air suspension driver, non-SCBA officer and three (3) rear SCBA (all with NFPA compliant sensors). Paint sample approved 08.29.2018.		
20-11-1500		2013 Emission chassis modifications	1	MTL
20-11-1700	S	Chassis Motor Vehicle Inspection required - by CCEV	1	MTL
20-21-0500		Fluid capacity plate	1	MTL
20-21-0600		Pumping test plate	1	MTL
20-21-1030		Maximum riders sign - 5 persons	1	MTL
20-21-1510		Seat belt warning labels - 4 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 plate by the Fire Department"		
20-21-2000		Non removable key	1	MTL
20-21-2500		Shifter lock not required E	1	MTL
20-21-3500		Rear step warning label	1	MTL
20-21-3810		Front mudflaps provided with chassis E	1	MTL
20-21-4000		Rear mudflaps - Metalfab Logo	1	MTL
20-31-0200		Fuel fill label -Ultra Low Sulfur Diesel only	1	MTL
20-31-1100	S	Alum tread fuel tank covers, diamond grip steps, Conv - 4 dr	1	MTL
		The Freightliner stock steps will be removed and custom grip strut steps will be installed. The vertical portion of the step area will be covered with diamond plate to hide the under carriage.		
20-31-1500	S	> Special compartments in chassis steps	2	MTL
		ENG. NOTE: Specify any required dimensions, latch type in the shop note		
		There will be custom compartments built in the chassis step area as room permits. The compartment doors will be as big as possible and hinged towards the front of the compartment. The compartment will be as big as possible (usually bigger than the door opening), have interlocking plastic tile at the bottom, 4" LED lights on the side wall and a door ajar switch. Final dimensions to be determined after the chassis arrives at Metalfab.		
20-31-1900	S	Chassis cab painted single color by chassis OEM	1	MTL
20-31-4700	S	> Extend front bumper, gravel shield with preconnected hosewell	1	MTL
		ENG. NOTE: Note location of preconnect elbow Note special capacity requirements _____		
		***Bumper to be extended approximately 18" ahead of cab by Freightliner and Metalfab will complete the gravel shield. Note: Do not sand front of hose well that is directly behind cutout in bumper as reflective stripe will be applied in this area.		
20-31-7500	S	Console in cab	1	MTL
		Install switch panel (50-11-0900), siren (50-11-1400), radio (50-35-1000), and Traffic Advisor control (50-11-6615), in console. There will be a Carrier supplied DIN mount for a Motorola CM300 customer		

PART NO	S	DESCRIPTION	QTY	ID
		installed radio. The DIN mount arrived at Metalfab 03.07.2019		
		Storage area with hinged cover and lift and turn latch provided at rear of console for storage for Customer's portable radios (2), maps, and small supplies. Gray Zolatone finish		
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 ***Includes "Pump Engaged" light next to pump shift on chassis instrument panel.	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 manufacturer's emission specifications.	1	MTL
20-41-1900		Battery boost terminals with chassis E	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
20-41-5000	U	Price Adjustment	1	
20-41-5010	S	Rear Tow Hooks - through rear of body *** Flat bar tow hooks through the rear of the body. The tow hooks will be trimmed with rubber behind and a stainless steel trim on the face of the body.	1	MTL
20-51-0700		Master Battery Disconnect included with chassis	1	MTL
20-51-2700		Back up alarm - self adjusting E	1	MTL
20-51-3100	S	Air inlet not requested	1	MTL
20-51-3400		Protection valve installed for air operated accessories	1	MTL
20-51-6200	S	> 120 volt 20 A shore line connection in chassis cab 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 One for battery conditioner to plug into One will be installed on the back of the console (20-31-7500)	2	MTL
20-51-6600		Kussmaul Pump Plus conditioner/compressor Battery conditioner will be mounted under/behind rear seats. Compressor will be located in the left front compartment over the pump operators panel.	1	MTL
20-51-7101	S	Electric System Management - VMUX	1	MTL
20-51-7500		Super Auto eject for 120 v - 20 A with sealed enclosure Located in the left side cab step area.	1	MTL
20-51-8500	S	Engine compartment lighting - LED Switched with park brake.	1	MTL
20-51-9001		Air horns not requested E	1	MTL
20-52-3500		> Chassis steering wheel lined up by Metalfab E ENG. NOTE: Freightliner, Sterling, and Spartan only	1	MTL
20-52-4000		Rear View Camera system Rearview Systems STM5600 with 5.6" colour monitor in cab mounted on the dash.	1	MTL
20-60-0400		Chassis wheelbase does not change	1	MTL
20-90-1810	U	Extend air tank moisture ejectors to rub rail and tag The air tank moisture ejectors will be extended to the rub rail and will have a tag as requested in the tender document.	1	
		PUMP AND PLUMBING	1	MTL
30-11-3002		Waterous CXVPA 1250 PTO driven pump - 1050 IGPM	1	MTL
30-15-0304		Plumbing - non manifold pump SM SS E	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
30-20-0500	S	Valves and controls - side mount panel - front left side compartment HEAT style	1	MTL
30-20-1002		Akron valves specified	1	MTL
30-20-1620	S	Piping stainless steel - non manifold pump	1	MTL
30-20-1700	S	1-1/2" thread specifications - NPSH Confirmed at the Pre-construction meeting 11.19.2018	1	MTL
30-20-1800	S	2-1/2" thread specifications - CSA Confirmed at the Pre-construction meeting 11.19.2018	1	MTL
30-20-2000		Piping hydrostatic test	1	MTL
30-20-2510	S	Anodes in suction and discharge piping - non manifold pump Install one anode on discharge side of pump, one anode on suction side of pump - do not use teflon tape or thread sealant. Paint flange silver and mask brass anode before painting for visibility.	1	MTL
30-21-5520		Tank to Pump SS 3" w/ check valve non manifold pump 4" piping	1	MTL
30-22-0520		Tank Fill valve 2" SS	1	MTL
30-31-4020	S	Suction - 6" not gated each side SS non manifold pump 6" header The suctions will be minimum 36" from the ground to clear the portable water tank.	1	MTL
30-32-7550		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 There will be a 2-1/2" inlet installed on the right side of the pump panel.	1	MTL
30-41-2040		2-1/2" RS discharge SS, bleeder, non manifold pump	2	MTL
30-41-2540		2-1/2" LS discharge SS, bleeder, non manifold pump	2	MTL
30-43-1520	S	2-1/2" rear discharge SS, plumbed 2-1/2", bleeder There will be two (2) 2-1/2" discharges on the rear of the body. The department confirmed the mounting location 11.01.2018: Discharge 1: Left side in panel above the porta tank tunnel / below camera Discharge 2: Right side in panel above the porta tank tunnel / below camera	2	MTL
30-44-0720	S	1-1/2" speedlay (each) front of pumphouse SS, plumbed 2" Bleeders at lowest point required Speedlay hose lays are equipped with removable, dual direction aluminum trays sliding on UHMW. Speedlays are equipped with stainless steel rollers on the bottom and front end for protection. The body will be protected by Stainless Steel trim on the front corners. Each speedlay shall have minimum capacity for 200' x 1-3/4" DJ hose. Locking pins will be installed to secure speedlay in place. Speedlay swivels located out board each end - 8" in from end. Both speedlays will be foam solution capable.	2	MTL
30-44-1020	S	> 1-1/2" front trash line SS, plumbed 2", hosewell ENG. NOTE: Requires extended front bumper, gravelshield Bleeders at lowest point required. Capacity for 150' of hose and nozzle. A hinged cover with gas strut will be provided The cover shall have a slot to allow the hose to stay preconnected when cover is closed The front trash line will be foam solution capable.	1	MTL
30-51-0400		Pump shift - PTO Pump and Roll ***Includes "Pump Engaged" indicator lights on chassis instrument panel and on the pump panel ***Includes "Throttle Ready" indicator light on Pump operating panel Includes indicator light showing "OK TO PUMP" when transmission is in neutral,	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		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.		
		***Indicator lights in cab will be installed in overhead console over drivers seat.		
30-51-1500		Power shift PTO - Automatic transmission	1	MTL
30-51-1501		PTO driveshaft E	1	MTL
30-51-6640		Class One "TPG Plus" Governor/Throttle	1	MTL
30-51-7000	S	Suction side relief V/V, manifold pump There will be a suction side relief valve installed to meet ULC	1	MTL
30-51-7500		Primer electric vane type 12V with oil tank Waterous Indicator light on panel to show when primer is operating. Locate primer tank inside pump access door in the right side front compartment positioned so it is easily refillable.	1	MTL
30-51-8100		Heat exchanger included with chassis	1	MTL
30-52-1000		Master drain V/V, 12 port	1	MTL
30-52-2000	S	Drain valve for foam system header There will be a drain valve control installed on the left side panel to drain the foam system header.	1	MTL
30-52-4010	S	Foam System - Hypro FoamPro 1600 There will be a FoamPro 1600 system installed capable of injecting 1.7 GPM in increments of 0.1% to 1.0%. The following outlets are to be foam solution capable: Front bumper discharge - 30-44-1020 Both speedlays - 30-44-0720	1	MTL
30-52-9100	S	Foam concentrate label at foam tank fill There will be a foam concentrate label installed at the foam tank fill.	1	MTL
30-52-9200	S	Foam System Instruction Plates There will be foam instruction plates installed on the pump panel as supplied from FoamPro.	1	MTL
30-52-9400	S	NFPA Foam System certification test There will be an NFPA foam system certification test performed.	1	MTL
		WATER AND FOAM TANKS		
40-11-2100	S	Polypropylene water tank (Imperial gallons)	1	MTL
40-11-2200		Water tank capacity certification (tank manufacturer)	1	MTL
40-11-5000	S	Tank capacity 1000 Imperial Gallons	1	MTL
40-12-5000	S	Foam cell - 30 Imperial gallon The foam cell will be integral to the water tank and will have a capacity of 30 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		1" water level gauge connection	1	MTL
40-23-1000	S	1" foam level gauge connection There will be a 1" foam level gauge connection on the water tank.	1	MTL
40-23-1040		4" direct fill connection	1	MTL
40-23-1060		10" Newton dump connection	1	MTL
40-30-0400		3" plug in sump box	1	MTL
40-30-1000		Water Fill Box front left corner	1	MTL
40-31-4500		10" rear Newton dump, painted steel	1	MTL
40-31-5000		Newton dump - 36" telechute painted steel	1	MTL
40-31-5500		Electric operator for Newton dump Switch is located on rear above the lower level flashing lights left side.	1	MTL
40-31-5600		> Rotating dump chute for Newton dump painted steel	1	MTL
		ENG. NOTE:		

PART NO	S	DESCRIPTION	QTY	ID
		Requires top mount control on dump valve		
40-31-5800		Support for rotating dump chute if necessary Engineering to determine if this support is required	1	MTL
40-31-8000		4" Storz rear gtd fill Located right of dump as shown on the proposal drawing	1	MTL
		ELECTRICAL		
50-11-0300		Base electrical system - multiplex E	1	MTL
50-11-0600		Warning Light Certification	1	MTL
50-11-0700		Low Voltage Electrical system test	1	MTL
50-11-0800		Low Voltage Electrical System Documents As required by ULC and NFPA standards	1	MTL
50-11-0900	S	Rocker switch panel with master warning switch ***Rocker switch assignments: MASTER -LIGHT BAR RED -LIGHT BAR CLEAR -FLASHING WARNING -LEFT SIDE SCENE -RIGHT SIDE SCENE -REAR SCENE -REAR FLOODS - Right tele light - Left tele light	1	MTL
50-11-1400		Federal PA300 100 watt siren	1	MTL
50-11-1620		Siren speaker, 100 watt, in front bumper	1	MTL
50-11-2600		Siren to be accessible to driver and officer	1	MTL
50-11-6100	S	Whelen F4N0QLED LED light bar NFPA	1	MTL
50-11-6615	U	Whelen TAM83 Traffic advisor - surface mount with treadplate shield Control head mounted in Console 20-31-7500	1	
50-11-8001	S	> Rear beacons not required ENG. NOTE: Confirm that necessary lighting for ULC/NFPA is present There will be flashers installed instead of rear beacons.	1	MTL
50-12-8000	S	Additional body side intersection light not required Distance between front and rear side intersection light does not exceed 25' so the extra light is not installed.	1	MTL
50-12-8520	S	Front LED flashers (pr)-Whelen red LED 600 with integral flasher Flashers will be Whelen 600 instead of 400 series.	1	MTL
50-12-8610	S	Rear LED flashers (pr)-Whelen red LED 600 with integral flasher Flashers will be Whelen 600 instead of 400 series.	1	MTL
50-12-8620	S	Rear LED flashers (pr)-Whelen red LED 900 with integral flasher There will be a pair of Whelen 900 LED flashers installed on the upper rear corners of the body.	1	MTL
50-12-8710	S	Front side inter lts (pr) - Whelen red LED 600 with integral flasher Flashers will be Whelen 600 instead of 400 series.	1	MTL
50-12-8810	S	Body side inter lts (pr)-Whelen red LED 600 with integral flasher Flashers will be Whelen 600 instead of 400 series.	1	MTL
50-12-8820	S	Body side inter lts (pr)-Whelen red LED 900 with integral flasher There will be a pair of Whelen 900 LED flashers installed on each upper side corners of the body.	2	MTL

PART NO	S	DESCRIPTION	QTY	ID
50-21-1505	U	Unity LED Rear Floods (pr) Switched in cab - these lights cannot be managed as they are required for UL	1	
50-21-25AA	U	Whelen Pioneer Telescoping LED flood lights - PCH1P1 - 12 Volt Mounted on front of body as shown on the proposal drawing Light head - PCH1P1 - switch is on light head Telescoping pole - 86930QB1 - includes 3" offset, cradle and sensor Have Engineering check the above numbers before ordering - see SOPT in file The lights can be managed to shed. The lights will be controlled from the chassis cab.	2	
50-21-5100		> Compartment lighting - LED tube lights in each compartment (rollup doors) ENG. NOTE: Rollup doors only	1	MTL
50-21-5500		Door Ajar warning light Located in over head console above drivers seating position 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 - LED Switched with park brake	1	MTL
50-21-8201	S	Step lights for chassis steps - LED	1	MTL
50-21-8600		LED clearance lts and reflectors	1	MTL
50-21-8800		LED intermediate turn signal/clearance/reflector length >30'	1	MTL
50-22-0710	U	Whelen C6 LED tail/brake-turn-backup module (pr)	1	
50-31-6010		Scene light boxes (pr) - tread plate E Two each side as shown on the proposal drawing	2	MTL
50-31-6021	U	Whelen C9SL LED Scene lights (pr) - Left side Located upper left corners of side as shown on the proposal drawing Switched in cab These lights are managed to shed	1	
50-31-6022	U	Whelen C9SL LED Scene lights (pr) - Rear facing Located upper rear corners of the back of the body as shown on the proposal drawing Switched in cab and when the transmission is place in reverse. These lights are managed to shed	1	
50-31-6023	U	Whelen C9SL LED Scene lights (pr) - Right side Located upper right corners of side as shown on the proposal drawing Switched in cab These lights are managed to shed	1	
50-31-6560		Ground lighting (LED Lumabar) - 4 door chassis	1	MTL
50-31-6570		Ground lighting (LED Lumabar) - side mount body Switched with park brake	1	MTL
50-31-65AA	U	Hose bed lighting - LED on front partition Switched with park brake SOPT #958	1	
50-35-0560	S	VHF antenna with base - commercial chassis The antenna base shall be installed behind the lightbar with the cable run to the chassis console 20-31-7500. There will be a carrier supplied power cable for a Motorola CM300 installed beside the antenna cable and it will be delivered at Metafab 03.19.2019.	1	MTL
		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

PART NO	S	DESCRIPTION	QTY	ID
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
60-10-6500		Bolt on extruded aluminum rub rail E	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	S	> Rear left side compartments full height ENG. NOTE: Specify critical dimensions in shop note The compartment will have a pull out tray 60-31-8800 to house a customer supplied pump that measures 22" high x 22" deep x 27" high	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		> 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	2	MTL
60-11-3100		No rear compartment E	1	MTL
60-11-5500		Rollup door - standard height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point	2	MTL
60-11-5520		Rollup door - full height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point	4	MTL
60-11-5655	U	Amdor Pull straps - standard height There will be Amdor FLEX HD pull straps on the doors of the compartments over the rear wheels.	2	
60-11-5660	U	Amdor Pull straps - full height There will be Amdor FLEX HD pull straps on the doors of the compartments ahead and behind the rear wheels.	5	
60-31-4100		Extruded aluminum handrails Minimum 2" clearance from handrail to any surface	1	MTL
60-31-5000		Zico access Ladder at rear of unit Minimum 7" clearance between rung and any obstruction	1	MTL
60-31-5600	S	Steps and grab handles at front of body as required Maximum height between steps is 18"	1	MTL
60-31-6500	S	Compartment matting - Plastic interlocking tile	1	MTL
60-31-8003	U	Cast Product Double SCBA bottle holder (ea) Mounted in rear body fenders as shown on the proposal drawing.	4	

PART NO	S	DESCRIPTION	QTY	ID
		Door ajar switch required SOPT #1023		
60-31-83AA	U	PAC board in L1 compartment There will be PAC board installed in the upper portion of the L1 compartment. The board will be as wide as possible and be approximately 30" high.	1	
60-31-8400		Fixed vertical partition Full height partition to separate the pump panel and the tool chest and adjustable shelves in the front left side compartment.	1	MTL
60-31-8800	S	> Sliding tray (ea) - 600 pound capacity ENG. NOTE: Specify location Located at floor level in the left side rear compartment (L3). It will house a customer supplied portable pump that measures 22" high x 22" deep x 27" wide. ***Hardware requires 3-1/2" of compartment height Reflective stripe is applied on the exposed edge for visibility when the compartment door is open	1	MTL
60-31-9600	S	> Adjustable shelf (ea) ENG. NOTE: Specify location All shallow depth shelves will be located in the following compartments: Shelf #1 - Left side front (back of fixed partition) Shelf #2 - Left side compartment over rear wheels Shelf #3 - Left side back compartment Shelf #4 - Left side back compartment Shelf #5 - Right side front compartment Shelf #6 - Right side front compartment Shelf #7 - Right side compartment over rear wheels Shelf #8 - Right side back compartment Shelf #9 - Right side back compartment Reflective stripe is applied on the exposed edge for visibility when the compartment door is open Customer confirmed location and depth of all shelves at pre-construction meeting of 11.19.2018.	9	MTL
60-32-3550		Two adjustable hose divider (each) Hand hold required in end	1	MTL
60-32-7500	S	Hose bed - aluminum The aluminum slats will cover the entire hose bed. There will be an aluminum partition to separate the hose bed from the water and foam fill area.	1	MTL
60-33-0000		Paint exterior - Imron Elite *** Paint code and colour red to match cab.	1	MTL
60-33-0200		Undercoat vehicle with KROWN rust protection	1	MTL
60-33-0600		Chassis wheels not painted	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. Rear right and left compartment to have a "911" decal to match current unit.	1	MTL
60-33-3000	S	Reflective stripe - 4" white on painted surface and red on rollup doors 50% of perimeter each side and 25% of perimeter front. The color will be white on painted surfaces and red on rollup doors. There will be a height change on the L1/R1 compartment door in the form of an elongated hockey stick.	1	MTL
60-33-3310		Reflective stripe - red and yellow chevron at rear Minimum 50% of rear vertical surface Printed on Scotchlite material	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
60-33-3500	S	Tarp over hose bed - black A hose bed tarp cover will be provided and secured to the top front body flanges by a stainless steel strip and shock cords on each side edge of the cover. Shock cords will be provided on the rear of the cover to tie around J-hooks. Color to be black. The tarp will cover the entire hose bed (minus the open top storage above the pump house) and have a hole left for the water fill tower.	1	MTL
60-33-3600		Reflective stripe - inside entry doors 96 square inches minimum inside each cab entry door	1	MTL
60-33-4000	S	End tarp for speedlays - black End tarps will be provided and secured at each end of the speedlay hose bed with 1/4 turn snaps at the top and shock cord with J-hooks at the bottom. Color to be black.	1	MTL
60-40-4500		6" Hose tray - side mount (ea) To house one 6" x 10' suction hose 80-11-500 Located above compartments on left side as shown on the proposal drawing. Stainless steel scuff plate each end.	1	MTL
60-40-5500		Suction hose tube (each) with door To house the 6" x 10' suction hoses 80-11-5000 Door ajar switch required	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 Door ajar switch required Tube to house Metalfab supplied 24' 2-section ladder, 14' roof ladder, a 10' attic ladder (80-14-0500, 80-14-5500 and 80-14-8500) and will have 2" ID tubes for pike poles storage.	1	MTL
60-40-9500	S	> Tube for portable tank storage, with rear door ENG. NOTE: Note location of tube, portable tank to be installed, dimensions of portable tank if customer supplied The tube will carry a Metalfab supplied 1500 Imperial Porta tank ((80-15-0500). Door ajar switch required.	1	MTL
60-41-1500	S	Attic ladder tube with rear door There will be an attic ladder tube installed at the rear of the unit in the same area as the 60-40-9000 ladder tube.	1	MTL
60-99-05AA	U	Modular drawer set at pump operator's compartment Located in front left side compartment at floor level rearward of the fixed vertical partition. Module will be similar to Huntsville M17-19091 - ref pic 7204 Use the same latching layout as Huntsville M17-19091.	1	
60-99-45AA	U	Stainless Steel corner on front of body There will be stainless steel corners installed on the front of the body in place of rollers for the speedlays 30-44-0720 in order to protect the painted corners from hose damage.	1	
		INSTRUMENTATION	1	MTL
70-11-0000		Warning Label on Pump Operator's Panel	1	MTL
70-11-0500		Side mount instrument panel No gauge or visual display can be higher than 84" above the operator's standing position Midpoint of any control cannot be higher than 72" above the operator's standing position	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
70-11-0600	U	Linkage controls in front left side compartment - HEAT style design	1	
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	1	MTL
70-11-4000	S	Stainless steel side panel hood right side - LED lights	1	MTL
70-11-4100	S	Stainless steel side panel hood left side - LED lights	1	MTL
70-11-5100	S	Open storage top of pump house	1	MTL
70-11-5500	S	Right side pump access door Located in right side front compartment as shown on the proposal drawing No opening dimension less than 18". The door will be split in two (2) pieces to allow them to be removed without having to remove the adjustable shelves. Note: The shelves in the R1 compartment may have to notched a little to get the necessary clearances to make this possible.	1	MTL
70-11-75AA	U	Heat pan - extreme weather type SOPT #575	1	
70-11-8000	S	Heater in pump compartment There will be one (1) Pump house heater supplied and installed on the completed unit.	1	MTL
70-11-8200	U	Rubber seal around suction and discharge opening on panel	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
70-20-1500	S	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. They shall be 0-400 PSI.	9	MTL
70-20-2500		Primer control	1	MTL
70-20-3100		Class One Governor Control Throttle can be no lower than 42" and no higher than 72" from operator's standing position.	1	MTL
70-20-3500		Electric water level gauge on pump panel, Class One	1	MTL
70-20-6500		Test gauge panel Mount below the compound gauges for proper draining	1	MTL
70-20-7500		Heat exchanger control valve	1	MTL
70-21-1500	S	Electric Foam Level gauge There will be a foam level gauge supplied and installed on the left side pump panel. This will include access to and room for sender in front of body and back of pump house.	1	MTL
70-21-2100		> PTO Hourmeter ENG. NOTE: Specify location in shop note Located on pump operators panel	1	MTL
70-21-5500		Panel readout for Battery Conditioner Located in left cab step area adjacent to the Auto eject	1	MTL
ACCESSORIES				
80-11-5000	S	6" x 10' lightweight suction hose (ea) There will be two (2) length of 6" suction x 10' long supplied with the completed unit.	2	MTL
80-12-2500		6" barrel strainer Shipped loose, not mounted. Customer will mount.	1	MTL
80-13-1100	S	Hose wrenches (triple) with holder The hose wrenches will be shipped loose as discussed at pre-construction meeting of 11.19.2018.	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
80-14-0500	S	24' 2 section extension ladder PEL 24 There will be a 24' 2-section ladder supplied with the unit and stored in the tube 60-40-9000.	1	MTL
80-14-5500	S	14' aluminum roof ladder PRL-14 There will be a 14' roof ladder supplied with the unit and stored in the tube 60-40-9000.	1	MTL
80-14-8500	S	10' aluminum folding attic ladder FL-10 There will be a 10' attic ladder supplied with the unit and stored in the tubes 60-41-1500 and 60-40-9000.	1	MTL
80-15-0500	S	1500 l gallon portable tank - Husky The porta tank will be a 1500 Imperial gallons capacity with an aluminum frame and yellow bladder. It will be stored in the tube 60-40-9500.	1	MTL
80-18-0600	S	SCBA brkt w/strap - ZICO ULLH - crew cab mount There will be three (3) SCBA brackets installed in the rear seats of the chassis (the front officer seat is non-SCBA).	3	MTL
80-99-05AA	U	200 feet of hose with connections to the hydrants, truck Customer specified size of hose will be 1-1/2" double jacket and section lengths to be 50' and type and size of couplings will be NPSH at the pre-construction meeting of 11.19.2018.	1	