



Shop Order

Safetek Emergency Vehicles Ltd.
 Sean Montague
 30686-A Matsqui Place
 Abbotsford, BC V2T 6L4

District of Elkhart
 PO Box 340
 744 Fording Drive
 Elkford, BC V0B 1H0

Exp. Date: 10/30/2019
Quote No: Elkford, BC-0023
Job/Order No: 21226
BODY: 00-10-15 Metalfab Pumper - ULC 05/13

03/04/2021

PART NO	S	DESCRIPTION	QTY	ID
		== Metalfab Pumper - ULC 05/13 - 0.000 ==	1	MTL
	S	Change Order H	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	S	Waterous 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
00-20-3000	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
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	S	Maximum length - 34' (408")	1	MTL
10-11-2200	S	Maximum height 12' (144")	1	MTL
10-11-2400		Overall length is 30' or more	1	MTL
10-11-2500		General Construction	1	MTL
10-11-2600	S	Preconstruction Meeting at Metalfab - Dec 4 - 5, 2019	1	MTL
10-11-3000	S	Manuals - two copies	1	MTL
		Two (2) copies of complete operation and service manuals will be provided covering the completed apparatus (body and equipment) as delivered and accepted, including the pump, wiring diagrams, lubrication charts, and fire fighting equipment delivered with the apparatus. Chassis manuals are those supplied by the chassis manufacturer. ***Include one (1) pine air freshener***		
10-11-3600	S	> Delivery - FOB Fire Department - by Safetek	1	MTL
		ENG. NOTE: Note in the shop note if more than 4 hours of training is required		
10-11-4200	S	Payment Terms - Chassis and Body COD	1	MTL
10-20-1000		Hose bed capacity - standard ULC Pumper	1	MTL
		Capacity in main hose bed for 800' of 4" Storz supply line in 50' lengths and 800' of 2-1/2" fire hose. Additional weight allowance of 900 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 Metro Star EMFD with 20" raised roof	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		Bustle back type cab 47,000 lb GVWR 20,000 lb front axle 27,000 lb rear axle Cummins L9 450 HP @ 2100 rpm 2200 governed PRM 1250 ft-lb torque @ 1400 rpm Engine compression brake included - will activate stop/brake lights when activated. 202" wheelbase 142" cab to axle Allison 3000 EVS automatic transmission, 6 speed, 6th gear start up as discussed at pre-construction meeting 65 MPH top road speed as discussed at pre-construction meeting 50 US fuel tank Jackshaft for Waterous pump Engineering to determine center line of suction to centerline of rear axle - 105" Two (2) Vista touchscreens in cab - one at drivers location, one shipped loose to be installed at pump panel as discussed at pre-construction meeting Tilt/telescoping steering column - "Smart steering wheel" was deleted at pre-construction Cab will be painted white over red - Dupont L0225EB white elite and L2685EB red elite White - PPG FBCH 911000 as advised by Spartan Red - PPG FBCH 952692 as advised by Spartan Spray outs required for Customer sign off Manual cab tilt ***Changes and additions to be made to chassis before ordering are as follows; 1701-157 - upgrade to engine from 400 to 450 HP as above Change wheelbase to 202" as above 8101-106 - Occupant Protection Front Occupant APS - rear air bags not available with three (3) rear seats in MetroStar 5317-217 - SPA100-Q28 brow light 5726-002 - LH camera - tear drop shaped - located drivers side of cab below the windshield, ahead of front door at approximately the same level as the door handles. 5727-002 - RH camera - tear drop shaped - located passengers side of cab below the windshield, ahead of front door at approximately the same level as the door handles. 5728-009 - Rear camera - shipped loose, Metalfab will install on back of body and wire (ref 20-52-4003) 5731-005 - Cameras wired to Vista displays 3801-002 - On Spot chains Change code 2901-067 to 2901-068 for the exhaust aftertreatment module to be inboard. Additional Changes from pre-construction meeting apart from items listed above: Interior changed to Easy Clean finish Tracks and shelf in EMS compartment Fuel filter with heater Front tire changed to 425/65R 22.5 Michelin XZY3 A/C plenum changed to Short for additional head room A/C controlled by VMUX Deleted auxillary heater in rear of cab and added storage Insulation under engine tunnel and chassis floor Floor color to be black Wide front mud flap Electrical inlet changed to 20-amps Headlight activation changed to 5350-073 Deleted fog lamps B/U alarm includes override option Deleted auxillary antenna Ground lights under front bumper		
20-11-1500		2013 Emission chassis modifications	1	MTL
20-11-1700	S	Chassis Motor Vehicle Inspection required - by Safetek	1	MTL
20-21-0500		Fluid capacity plate	1	MTL
20-21-0600		Pumping test plate	1	MTL
20-21-1030	S	Maximum riders sign - 5 persons - with chassis	1	MTL
20-21-1510	S	Seat belt warning labels - 4 door chassis - with 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 - with chassis	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
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		Front mudflaps provided with chassis E	1	MTL
20-21-4001	S	Rear mudflaps - Black with no logo The rear mud flaps will be black without logos as requested at the pre-construction meeting.	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 two tone by Spartan	1	MTL
20-41-0900		Auxiliary braking system disabled when pumping	1	MTL
20-41-1130	U	Transmission programming - Allison WT	1	
20-41-1500	S	Extend exhaust pipe - RS front of rear wheels w/Nederman provision See chassis specs for aftertreatment module location 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. Customer provided necessary clearance dimensions to allow attachment of their Nederman extraction system - Center of exhaust to magnet to be 24.5" as requested at pre-construction meeting. Metalfab is not supplying any wiring or controls for the Nederman extraction system	1	MTL
20-41-1900		Battery boost terminals with chassis E	1	MTL
20-41-2000		Chassis batteries remain in OEM location	1	MTL
20-41-2560	S	Fuel fill at LS rear fender well with SCBA style door The fuel fill will have an SCBA door cover with a YELLOW tag to identify Ultra Low Sulfure Diesel Only (yellow tag to match color of diesel nozzles at BC service stations). As requested at pre-construction meeting.	1	MTL
20-41-2600		Chassis fuel tank remains in OEM location	1	MTL
20-41-5000		Rear Tow Hooks - under body *** Flat bar tow hooks under rear step (2)	1	MTL
20-41-5200	S	Rear trailer receiver and trailer wiring - Class III/IV, 7 pin connector No special trailer wiring required as discussed at the pre-construction meeting - wired to industry standard.	1	MTL
20-41-5210	S	Front receiver There will be a front receiver installed under the front bumper as per the purchase order. The spartan model 3905-009 may not allow the preferred tow hooks as requested at the pre-construction meeting.	1	MTL
20-41-5215	S	Side receiver (ea), Discussed at Pre-con that these are to be located behind the rear wheels under the rub rail to allow the exhaust to be as close to the fender as much as possible for the Nederman puck.	2	MTL
20-51-0700		Master Battery Disconnect included with chassis	1	MTL
20-51-2500		Back up alarm included with chassis	1	MTL
20-51-3100	S	Air inlet not requested	1	MTL
20-51-3400		Protection valve installed for air operated accessories	1	MTL
20-51-3500	S	Air outlet Removed air outlet from Spartan (3310-001) and Metalfab to supply and install an air outlet on each side pump panel, The air outlet is to be 1/4" FNPT ARO style - type B as	2	MTL

PART NO	S	DESCRIPTION	QTY	ID
		requested by fire department after the pre-construction meeting.		
20-51-6200	S	> 120 volt 20 A shore line connection in R4 compartment ENG. NOTE: Requires 20-51-75 120 volt auto eject or 20-51-80 120 volt inlet	1	MTL
		Standard 5-20R duplex receptacle in R4 compartment - Metalfab will run the Spartan 5208-006 cable to the R4 compartment and terminate with a household plug as requested at the pre-construction meeting.		
20-51-7102		Electric System Manager included with chassis E	1	MTL
20-51-9001	S	Air horns as supplied with Spartan chassis	1	MTL
20-52-0010	U	Air horn control on pump panel The control will be labelled "AIR HORN", it will be a momentary red toggle switch that will be active when the park brake is applied and the emergency lights are on - as discussed at the pre-construction meeting.	1	
20-52-3500		> Chassis steering wheel lined up by Metalfab E ENG. NOTE: Freightliner, Sterling, and Spartan only	1	MTL
20-52-4003	U	Installation of rearview camera supplied by Spartan Installed on the rear center upper portion of the apparatus below the transverse step	1	
20-60-0400		Chassis wheelbase does not change	1	MTL
20-90-1810	U	Extend air tank drain/moisture ejector cables to rubrail and tag/label	1	
20-99-05AA	U	Electrical wiring inside cab for Customers Knox Box Customer to specify preferred location of Knox Box wiring - location TBD when chassis arrives but preferred location will be the EMS cabinet in the chassis Customer specified that 12 VDC is required Customer specified approximate dimensions of their Knox Box Secure 5 model to ensure adequate space is provided Width - 4" Height - 6" Depth - 4"	1	
		PUMP AND PLUMBING		
30-12-4000	S	Mechanical seals for Waterous pumps	1	MTL
30-12-6500	S	Waterous CSU single stage 1500 IGPM Plumbing to include provisions for flanges for flow minder digital readouts (ref 70-99-05AA) Order the MIV's and the anodes with the pump Advise Waterous that the pump will operate at 1500 m or 4300' as advised at pre-construction meeting	1	MTL
30-15-0202		Plumbing - Waterous manifold pump TM SS E	1	MTL
30-20-1000		Valves and controls - top mount panel	1	MTL
30-20-1001		Valve brand not specified E	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 - BAT	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. ***Order with pump***	1	MTL
30-21-5590		Tank to Pump TM SS 3" w/ check valve manifold pump	1	MTL
30-22-0530		Tank Fill valve 2" TM SS	1	MTL
30-31-4010	S	Suction - 6" each side manifold pump	1	MTL
30-31-7210		> Waterous master intake suction valve - electric control ENG. NOTE: Required for top mount panels Show location in Shop Note	2	MTL

PART NO	S	DESCRIPTION	QTY	ID
		For the left and right 6" side suction inlets. ***Order with pump***		
30-32-8535	S	Suction - 2-1/2" left side SS, TM control, Waterous manifold pump, bleeder	1	MTL
30-32-9035	S	Suction - 2-1/2" right side SS, TM control, Waterous manifold pump, bleeder	1	MTL
30-40-2035	S	4" right discharge TM SS, plumbed 3", Waterous manifold pump There will be a hi-vol discharge on the right side panel that will include a 3" valve, 4" Storz fitting with 30-degree droop and drain. As requested at the pre-construction meeting.	1	MTL
30-41-2035	U	Price Adjustment	2	
30-41-2035	S	2-1/2" RS discharge TM SS, bleeder, Waterous manifold pump There will be 2.5" discharge on RS as discussed at the pre-construction meeting	1	MTL
30-41-2535	U	Price Adjustment	2	
30-41-2535	S	2-1/2" LS discharge TM SS, bleeder, Waterous manifold pump There will be a 2.5" discharge on the LS as discussed at the pre-construction meeting	1	MTL
30-43-1530	S	2-1/2" rear discharge TM SS, plumbed 2-1/2", bleeder The discharge shall be located at the officer's side of the main hosebed at the back of the body as discussed at the pre-construction meeting	1	MTL
30-44-0730	S	1-1/2" speedlay (each) front of pumphouse TM SS, plumbed 2" Capacity for 200 feet of 1-3/4" DJ hose and nozzle for each lay. The hose connections shall be located at each end above the tray - standard Metalfab location as approved at the pre-construction meeting Removable trays with hand hold cut-outs shall be provided for each speedlay. LED lights shall illuminate each speedlay area to aid loading hose at night	2	MTL
30-44-0799	U	Extra speedlay tray There will be two (2) additional speedlay trays supplied and shipped loose with the completed unit as requested at the pre-construction meeting	2	
30-44-1030	S	> 2-1/2" front trash line TM SS, hosewell for 100' of 1-3/4" hose ENG. NOTE: Requires extended front bumper, gravelshield One (1) 2 1/2" front bumper discharge shall be provided with valve and controller located at the pump operators panel. The discharge shall terminate with a chrome plated brass 90 degree swivel elbow with BAT male threads above the gravel shield. Capacity of hose well for 100 feet of 1 3/4" hose and nozzle shall be provided in the front bumper. Portion of the piping to the front bumper is provided by Spartan. A hinged aluminum treadplate cover with notch for hose and gas strut shall be provided (by Spartan) complete with LED lighting (by Metalfab). The department will supply and install a 2.5" to 1.5" reducer on the connection after the delivery. As discussed at the pre-construction meeting	1	MTL
30-44-3530	U	Price Adjustment	1	
30-44-6530	S	Piping for monitor TM SS, plumbed 3", bleeder Mounted at the rear left side of the body for the 80-99-30AA TFT Crossfire monitor and riser. As discussed at the pre-construction meeting	1	MTL
30-51-0510	U	Pump shift-Midship air - Waterous ***Includes "Pump Engaged" and "OK to Pump" indicator lights in cab ***Includes "Throttle Ready" indicator light on Pump operating panel Installed in cab by Metalfab. Discussed at the Pre-construction meeting that the preferred location will be on the center dash panel above the transmission shift.	1	
30-51-0600	S	Manual over ride for pump shift on left pump panel by Metalfab Located on left side pump panel	1	MTL
30-51-6800		FRC InControl Governor/Throttle engine display with throttle knob	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
30-51-7000		Suction side relief V/V, manifold pump One for the left side MIV One for the right side MIV ****SSRV's to be pre-set at 150 psi (in place of 125 psi factory preset)****	2	MTL
30-51-7711	S	Trident Air Primer 3 barrel 1 location There will be a Trident Air primer supplied and installed at the unit as discussed at the pre-construction meeting.	1	MTL
30-51-7720	S	Additional air tank for air primer system An additional air tank is provided to improve air primer capacity	1	MTL
30-51-8100		Heat exchanger included with chassis	1	MTL
30-51-8500		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	Foam System - Hypro FoamPro 2002 Single Tank ***Stainless steel header*** ***4" manifold unless otherwise specified*** Foam system is plumbed to both 1-1/2" speedlays, 2-1/2" rear preconnect, and the 2-1/2" to front bumper. Customer confirmed locations at the Pre-construction meeting	1	MTL
30-52-9100		Foam concentrate label at foam tank fill	1	MTL
30-52-9200		Foam System Instruction Plates	1	MTL
30-52-9400		NFPA Foam System certification test	1	MTL
WATER AND FOAM TANKS				
40-11-2100		Polypropylene water tank (Imperial gallons)	1	MTL
40-11-2200		Water tank capacity certification (tank manufacturer)	1	MTL
40-11-5000	S	Tank capacity 835 Imperial Gallons The water fill tower will have a blue cover or writing based on what is available from the tank supplier. As requested by the customer at the pre-construction meeting.	1	MTL
40-12-4500	S	Foam cell - 20 Imperial gallon The foam fill tower will have a green cover or writing based on what is available from the tank supplier. As requested by the customer at the pre-construction meeting.	1	MTL
40-21-0500		3" 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		1" foam level gauge connection	1	MTL
40-30-0400		3" plug in sump box	1	MTL
40-30-1000		Water Fill Box front left corner	1	MTL
40-31-0400		Rear dump valve not requested E	1	MTL
40-31-6050		Rear fill not requested E	1	MTL
ELECTRICAL				
50-11-0400	S	Base electrical system - Spartan multiplex The second V-Mux screen shipped loose from Spartan will be installed at the pump panel as requested by the department at the pre-construction meeting	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
50-11-2500	S	Siren and speakers supplied with Spartan chassis PA 4000 siren with two 100 watt speakers	1	MTL
50-11-5810	S	> Federal LED light bar included with Spartan chassis ENG. NOTE: Adds 6.5" to overall height (measuring from roof of chassis) 73" Navigator - 8 Red, 4 white flashers.	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
50-11-7600	U	Rear LED Federal Signal Master warning light - SL8 Control will be located in chassis cab in center panel where room permits unless otherwise specified.	1	
50-12-5021		Front flashers, intersection lights included with chassis - Federal QL64XF-R	1	MTL
50-12-5120	S	Rear LED flashers (pr)-red Federal QL97XF-R - upper level	1	MTL
50-12-5310	S	Body side inter lts (pr)-red LED Federal QL64XF-R - lower level in rear fenders	1	MTL
50-12-5320	S	Body side warning lights (pr)-red LED Federal QL97XF-R - upper level	2	MTL
50-12-8000		Additional body side intersection light not required Distance between front and rear side intersection light does not exceed 25'	1	MTL
50-21-5100		> Compartment lighting - LED tube lights in each compartment (rollup doors) ENG. NOTE: Rollup doors only	1	MTL
50-21-5500	S	Door Ajar warning light - with chassis Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on"	1	MTL
50-21-5560	U	Equipment rack not stowed warning light - with chassis Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on"	1	
50-21-8001		Step lights for body steps - 4" LED Switched when park brake is set.	1	MTL
50-21-8201	S	Step lights for chassis steps - LED With chassis	1	MTL
50-21-83AA	U	LED lighting for rear step/platform, rear access ladder as required Switched when park brake is set.	1	
50-21-8600		LED clearance lts and reflectors	1	MTL
50-21-8800		LED intermediate turn signal/clearance/reflector length >30'	1	MTL
50-22-0800	S	Federal 4 QuadraFlare LED tail/brake-turn-backup-warning module (pr) Includes Tecniq T10 tail/stop/turn lights in rub rail (when 60-31-5000 access ladder is chosen) The orientation of the lights will be The break light at the top, turn signal below, back up light below and the flasher at the bottom as requested by the department at the pre-construction meeting.	1	MTL
50-31-6042	U	FRC Spectra SPA900-Q70 LED Scene lights (pr) - Rear facing Located on upper corners at rear, below the flashing lights. Switched in cab on Vista display and when transmission is placed in reverse. These lights cannot be managed to shed as they are required for rear area lighting to meet ULC.	1	
50-31-60AA	U	FRC SPA260-Q15 LED surface mount 12-volt (pr) There will be a pair of FRC SPA260-Q15 LED scene lights mounted on each side corner. They will be controlled by a switch for the right side and a switch for the left side. As requested by the customer at the pre-construction meeting.	2	
50-31-6505	S	Ground lighting included with chassis Switched with park brake and when vehicle is placed in reverse. There will be lights added under the front bumper as discussed at the pre-construction meeting.	1	MTL
50-31-6580		Ground lighting (LED Lumabar) - top mount body Switched when park brake is set and when vehicle is placed in reverse.	1	MTL
50-31-6595	U	LED lumabar ground lights under compartments Switched when park brake is set and when vehicle is placed in reverse.	4	
50-31-65AA	U	Hose bed lighting - LED under hose bed cover Switched when park brake is set.	1	

PART NO	S	DESCRIPTION	QTY	ID
		Additional lighting will be installed in storage area over pump house 70-11-5100 as required. The lights should have been updated to under the hose bed cover when Change Order A was prepared.	1	
50-35-0500	S	Installation of customer supplied mobile radio Radio information list required A customer supplied Kenwood TK7360H will be installed in the chassis dash. Radio arrived at Metalfab 12.01.2020	1	MTL
50-35-0510	U	Power and ground provision for customer supplied and installed mobile radio Power source provided in the center dash area (included with chassis - Spartan code 5006-002)	1	
50-41-5260	U	Main 12-volt power to 1 receiver There will be 12-volt power to one (1) receiver which will include a rubber cover as requested at the pre-construction meeting	1	
50-41-5265	U	12-volt power to remaining receivers There will be 12-volt power to three (3) receiver which will include a rubber cover as requested at the pre-construction meeting	3	
50-99-11AA	U	Command Light SL-442D-FS, 80,000 Lumens There will be a Command Light KL442D-FS 80,000 Lumens with four (4) fixed light heads (no back light option) supplied and installed on the chassis cab. The remote control will be installed on the pump panel unless otherwise specified. As requested by the customer on 02.14.2020. SOPT # 1002	1	
		BODY		
60-10-1400		Single axle extruded aluminum body	1	MTL
60-10-3088	U	5" drawer in R1 compartment There will be a 5" high drawer in the R1 compartment to hold jaws hose as requested by the customer at the pre-construction meeting	1	
60-10-4100		No "beavertail" rear step supports	1	MTL
60-10-4600		Painted fender surround E	1	MTL
60-10-4700		Integral aluminum fender trim	1	MTL
60-10-5400		> Diamondback pumphouse steps ENG. NOTE: Maximum height of step is 24" from ground	1	MTL
60-10-5440		> Diamondback 14" rear step ENG. NOTE: Maximum height of rear step is 24" from ground	1	MTL
60-10-6500	S	Bolt on extruded aluminum rub rail There will be reflective stripping in rub rail as discussed at the pre-construction meeting.	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

PART NO	S	DESCRIPTION	QTY	ID
60-11-2000		> High side compartment (over 18") each ENG. NOTE: Specify critical dimensions in shop note Specify type of door Specify flip up or drop down Specify which side of body	3	MTL
60-11-3200		> Full Height Rear compartment ENG. NOTE: Specify critical dimensions in shop note	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	3	MTL
60-11-5520		Rollup door - full height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point	5	MTL
60-11-5655	U	Amdor pull straps - Flex - HD for L2, R2, and R3 doors Ordered with doors	3	
60-11-5660	U	Amdor pull straps - Flex - HD for L1, L3, R1, R4 and B1 doors Ordered with doors	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. Switch required wired to indicator in cab when ladder is not stowed and park brake is released.	1	MTL
60-31-5500	S	Steps at rear of body (folding) with LED lights - RS only Maximum height between steps is 18". Switched when park brake is set.	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	Intermediate step over back compartment to access hose bed	1	MTL
60-31-6500	S	Compartment matting - black plastic interlocking tile	1	MTL
60-31-7900	U	Vertical unistrut tracking in all compartments	1	
60-31-8003	U	Double SCBA bottle holder (ea) rear fender mounted Door ajar switch required. Retaining loops included. Customer to specify make and model of Cylinder to be stored and type of valve. Make - Scott Model - AP75 Overall length - 22" x 5.5" wide Dimensions provided by customer after pre-construction and see picture in F:\Data\Jacques\Current Project\Elkford\Pictures	3	
60-31-8210	S	> Sliding vertical tool board - open / close latch ENG. NOTE: Specify location The tool boards will be adjustable from side to side and will all be installed in the R4 compartment as requested by the fire department at the pre-construction meeting.	4	MTL
60-31-8700	S	> Sliding tray (ea) - 400 pound capacity lock in/out - adjustable on height ENG. NOTE: Specify location	4	MTL

PART NO	S	DESCRIPTION	QTY	ID
		Reflective stripe is applied on the exposed edge for visibility when the compartment door is open 1. L1 - adjustable on height 2. L3 - adjustable on height 3. R1 - adjustable on height 4. B1 - adjustable on height As discussed at the pre-construction meeting		
60-31-8800	S	> Sliding tray (ea) - 600 pound capacity ENG. NOTE: Specify location ***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. L1 - on floor 2. L3 - on floor 3. R1 - on floor 4. B1 - on floor As discussed at the pre-construction meeting	4	MTL
60-31-9000	S	> Tip down tray - 30 degree, 250 pound capacity ENG. NOTE: Specify location	4	MTL
		Reflective stripe is applied on the exposed edge for visibility when the compartment door is open 1. L1 - top of compartment 2. L2 3. L3 - top of compartment 4. R1 - top of compartment As discussed at the pre-construction meeting		
60-32-3560		Three adjustable hose divider (each) Hand hold required in end	1	MTL
60-32-7500	S	Hose bed - aluminum There will be storage for Stokes basket in front right side corner of the hose bed. Details listed in 60-99-05AA as provided by customer after the pre-construction meeting.	1	MTL
60-33-0000		Paint exterior - Imron Elite *** Paint code and colour - single color red to match red on 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
60-33-1600	S	Special paint compartment interior - gray zolatone The chassis compartments will be Zolatone as per pre-construction meeting discussion and the trays, shelves and pull out tool boards will remain natural The trim around the pump panel inside the chassis cab will be Zolatoned the same color as the compartment. As confirmed by Chief Corey Kortmeyer by e-mail on 12.17.2020	1	MTL
60-33-2300	S	Lettering - special graphics *** Vinyl letters, Fire Department to provide details on location and text. The lettering will include: - #1341 on roof in big red reflective letters sized to fill the area - Door decal to be "Elkford" in arc with "Fire Dept" and "Engine 1" in straight rows below. See pictures in F:/Data/Jacques/Current Project/Elkford/Pictures Canadian Flags As requested by customer at the pre-construction meeting	1	MTL
60-33-3000		Reflective stripe - 4" white 50% of perimeter each side. 3M Scotchlite material	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
60-33-31AA	U	Upper 4" white reflective stripe There will be an upper 4" white reflective stripe that will run above and parallel to the standard reflective stripe 60-33-3000. As requested by the department and shown on the approval print.	1	
60-33-3320	U	Reflective stripe - red and fluo lime chevron at rear The rear of the body shall be covered with chevron material; Securitrim Reflexite 18704 V-92 Daybright Red and 18835 V-97 Daybright Fluo Lime grade reflective. Minimum 50% of rear vertical surface shall be covered Metalfab to send sample so department can approve. They want to match their last Fort Gary unit - see picture in F:/Data/Jacques/Current Project/Elkford/Picture	1	
60-33-33AA	U	Reflective strip - red and fluo lime chevron on front bumper - The front bumper (the entire flat portion of the bumper including the sides) shall be covered with chevron material; Securitrim Reflexite 18704 V-92 Daybright Red and 18835 V-97 Daybright Fluo Lime grade reflective. As discussed at the pre-construction meeting	1	
60-33-4600	S	End tarps for speedlays (black) Small tarps with Velcro straps to enclose each end are provided, black in color. The top connection will be a sturdy clip - 1/4 turn snaps will not be acceptable as discussed at the pre-construction meeting	1	MTL
60-33-5000	S	Aluminum cover over hose bed with end tarps - black There will be deck plate hose bed covers with gas strut supplied and installed	1	MTL
60-40-5500	S	Suction hose tube (each) with door ***Enclosed type*** Upper outer corners at rear of body. Smooth plate doors with lift and turn latch, painted, then covered with Chevron material. Door ajar switch required. To house Customers 4" x 10' suction hoses. Customer to provide; OA length of hoses - end of coupling to end of coupling - 122" Dimension of widest part of coupling (i.e. distance across long handles on swivel end of coupling) - 6"-1/8" Dimensions supplied by customer after the pre-construction meeting	2	MTL
60-41-1015		Pike Pole tube in suction hose tube For storage of Customer 10' and 6' pike poles. Tubes are 2" inside diameter. Customer to advise if their pike poles will not fit in this size tube.	2	MTL
60-41-9500	S	> Zico Horizontal Ladder Access system ENG. NOTE: Specify mounting location desired. If ladder(s) are customer supplied, specify overall length and width, width between side rails, rung spacing; also specify ladder brand and model Right side Include HLAS-OS optional stop To be wired so only operable when park brake is engaged. Flashing lights and reflective tape required at front and rear to indicate any areas that protrude beyond the body. For Metalfab supplied 35' 3-section ladder (80-14-2500), 14' roof ladder (80-14-5500) and 10' Attic ladder (80-14-8500). As requested by the customer at the pre-construction meeting.	1	MTL
60-41-9510		ZICO HLAS switched at rear above tail light Switch is located on same side as electric rack - right side	1	MTL
60-99-05AA	U	Storage for basket stretcher and spine board Preferred location to be the front right side of the hose bed as discussed at the	1	

PART NO	S	DESCRIPTION	QTY	ID
		Pre-construction meeting; Customer to specify dimensions; Basket stretcher; Length - 86" Width - 24" Height - 8" Spine board to be stored in stokes basket. As approved by the fire department at the pre-construction meeting.		
		INSTRUMENTATION		
70-11-0000		Warning Label on Pump Operator's Panel	1	MTL
70-11-1500		Stainless steel instrument panels No gauge or visual display can be higher than 84" above the operator's standing position Midpoint of any control cannot be higher than 72" above the operator's standing position	1	MTL
70-11-2000		Top 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
70-11-2050	U	Enclosed top mount design The trim around the pump panel inside the chassis cab will be Zolatoned the same color as the compartment. As confirmed by Chief Corey Kortmeyer by e-mail on 12.17.2020	1	
70-11-3200	S	Colour coded tags - imperial units	1	MTL
70-11-3500	S	> Compartments in ends of walkway ENG. NOTE: Flush mount doors with quarter turn "D" handle latches and tread plate overlays Final dimensions will depend on space available when chassis is received and design is complete. Department would like to store wheel chocks 80-19-0500 in this area	2	MTL
70-11-4500		Diamondback grip type panel hood step right side	1	MTL
70-11-4600		Diamondback grip type panel hood step left side	1	MTL
70-11-5100	S	Open storage at rear top of pump house As room permits and to be as large as possible as requested by the customer at the pre-construction meeting LED lighting required - switched with park brake	1	MTL
70-11-5500	S	Right side tread plate pump access door No opening dimension less than 18"	1	MTL
70-11-5600		Left side tread plate pump access door No opening dimension less than 18"	1	MTL
70-11-5700		Transverse tread plate pump access door ***On front of front end - accessible when cab is tilted forward---	1	MTL
70-11-7500		Heat pan-aluminum	1	MTL
70-11-8000		Heater in pump compartment Switch located on transverse pump operators panel	1	MTL
70-20-1120	U	4-1/2" compound gauge - dual face 0-400 To be within 8" of each other - edge to edge	2	
70-20-2171	U	2-1/2" pressure gauge - dual face 0-400 See also 70-99-05AA	11	
70-20-2500	S	Primer control There will be a Trident Air primer supplied and installed at the unit as discussed at the pre-construction meeting.	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
70-20-3300		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
70-20-6500		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		Electric Foam Level gauge Include access to and room for sender in front of body and back of pump house	1	MTL
70-99-05AA	U	Digital flowminders for all discharges Total of 11 flow-minders required. SOPT in file - reference only - Engineering to determine quantity and sizes of paddle wheel saddles, harnesses, bezel and tag colors, etc.	1	
ACCESSORIES				
80-14-2500	S	35' 3 section extension ladder PEL3-35 Ladder to be stored on rack 60-41-9500	1	MTL
80-14-5500	S	14' aluminum roof ladder PRL-14 Ladder to be stored on rack 60-41-9500	1	MTL
80-14-8500	S	10' aluminum folding attic ladder FL-10 Ladder to be stored on rack 60-41-9500 with other ladders	1	MTL
80-14-9000		Attic ladder bracket (Zico) Mounted on the HLAS for Customers folding attic ladder	1	MTL
80-19-0500	S	Large folding wheel chock - aluminum (ea) Mounted in 80-19-0600 brackets under L1 compartment	2	MTL
80-99-05AA	U	30 degree drop elbow to 4" Storz for the 6" side inlets (ea) Kocheck number SKE4T6L (Metalfab part number 1501827) 4" Storz blind cap - p/n 1500650 Install adapters and caps on the left and right 6" side suction intakes.	2	
80-99-15AA	U	Construction allowance for trays, shelves, toolboard, mounting brackets, etc Details to be discussed at the Pre-construction meeting	1	
80-99-25AA	U	Zico model CYBM-2123-70-11 Quic-strap cylinder holders (ea) shipped loose	4	
80-99-26AA	U	4" Storz to 2.5" male reducer and end cap There will be a 4" Storz to 2.5" male reducer with end cap supplied with the unit as discussed at the pre-construction meeting	1	
80-99-31AA	U	TFT XFC-62 Crossfire Monitor, ground base Package includes; Item #1 - XFT-NJ Crossfire monitor Item #2 - MST-4NJ stacked tips Item #3 - XF-B - Crossfire Storage bracket Item #4 - Manual extend-a-gun removed as approved by customer 05.07.2020 Item #5 - XF-SS5 - 5" long stream straightener Item #6 - XGB-13 - Bracket set Item #7 - Customer's choice of Nozzle M-R1250SNJ - Automatic pressure nozzle (150-1250 gpm) as advised by department on 05.07.2020 Item #8 - Customers choice of Safe-Tak 1250 base - Customer provided inlet preference to be Dual 2-1/2" on 05.07.2020	1	