



Scotsburn Volunteer Fire Department
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Exp. Date: 02/03/2016
Quote No: JSCNS-0012 **Job/Order No:** 19253
BODY: 00-10-15 Metalfab Pumper - ULC 05/13

05/02/2017

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
			== Metalfab Pumper - ULC 05/13 - 0.000 ==	1	MTL
	S		CHANGE ORDER E	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
00-20-1700			Hale 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			Quality System registered to ISO 9001:2008	1	MTL
00-20-4500			Fire Apparatus Manufacturers' Association Membership	1	MTL
			GENERAL INFORMATION	1	MTL
10-11-0000			Intent E	1	MTL
10-11-0105			Vehicle Data Recorder not requested	1	MTL
10-11-1100	S		ULC S515-13 Compliance	1	MTL
10-11-1500		>	ULC Testing - Pumper	1	MTL
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
10-11-3600	S	>	Delivery - FOB Fire Department	1	MTL
10-11-4000			Payment Terms - Chassis Net 10 days, Balance COD	1	MTL
10-20-1000			Hose bed capacity - standard ULC Pumper	1	MTL
10-20-2000			Equipment carrying capacity - standard ULC Pumper	1	MTL
			CHASSIS INFORMATION	1	MTL
20-11-1000	S	<	Chassis supplied by Metalfab - Freightliner M2 106	1	MTL
			2-door, 2 person cab		
			41,600 lb GVWR, 14,600 lb front axle, 27,000 rear axle		
			239" Wheelbase, 173.45" Cab to Axle (to be confirmed)		
			Cummins ISL 350hp @ 2000 rpm, 2200 rpm Gov, 1000 lb/ft @ 1400 rpm		
			Allison 3000 EVS automatic transmission, 275 Amp Alternator		
			1 - 1350 cu ft auxiliary air tank ordered with the chassis (for the air primer air supply)		
			189 liter fuel tank, Polished aluminum wheels		
			ESC included		
			Painted black over red - paint line, paint codes to be determined. Spray outs required and sent to Customer for		

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			sign off.		
20-11-1500			2013 Emission chassis modifications	1	MTL
20-11-1600	S		Chassis Motor Vehicle Inspection as supplied by chassis dealership	1	MTL
20-21-0500			Fluid capacity plate	1	MTL
20-21-0600			Pumping test plate	1	MTL
20-21-1000			Maximum riders sign - 2 persons	1	MTL
20-21-1500			Seat belt warning labels - 2 door chassis	1	MTL
20-21-1530			Tire Pressure Indicators - Single Axle	1	MTL
20-21-1600			Apparatus Information Label	1	MTL
20-21-2000			Non removable key	1	MTL
20-21-2500			Shifter lock not required	1	MTL
20-21-3500			Rear step warning label	1	MTL
20-21-3810			Front mudflaps provided with chassis	1	MTL
			E		
20-21-4000			Rear mudflaps - Metalfab Logo	1	MTL
20-31-0200			Fuel fill label -Ultra Low Sulfur Diesel only	1	MTL
20-31-0500			Alum tread fuel tank trim, Conv - 2 door	1	MTL
20-31-1900	S		Chassis cab painted by chassis manufacturer - black over red	1	MTL
20-31-4700		< >	Extend front bumper, gravshld with preconnected hosewell	1	MTL
			E		
			Chrome Swivel elbow to be installed on the top of the bumper on the Left Side.		
			The cover to have a slot so hose can be pre connected.		
20-31-7500			Console in cab	1	MTL
20-41-0600			Intake air shutoff for engine not required	1	MTL
20-41-0900			Auxiliary braking system disabled when pumping	1	MTL
20-41-1100			Transmission programming - Allison WT	1	MTL
20-41-1500			Extend exhaust pipe - RS front of rear wheels	1	MTL
			E		
20-41-1900			Battery boost terminals with chassis	1	MTL
20-41-2000			Chassis batteries remain in OEM location	1	MTL
20-41-2510			Fuel fill at step fuel tank under cab	1	MTL
20-41-2600			Chassis fuel tank remains in OEM location	1	MTL
20-41-5100			Rear Tow Hook - pintle hook	1	MTL
20-51-0710			Master Battery Disconnect included with Freightliner chassis	1	MTL
20-51-2500			Back up alarm included with chassis	1	MTL
20-51-3400			Protection valve installed for air operated accessories	1	MTL
20-51-3500			Air outlet	1	MTL
20-51-4000			Auto eject for air inlet - LS	1	MTL
20-51-6200	S	>	120 volt 20 A shore line receptacles	2	MTL
20-51-6500			Kussmaul Autocharge 1000 battery conditioner w/battery saver	1	MTL
20-51-7100			Electric System Manager	1	MTL
20-51-7500			Super Auto eject for 120 v - 20 A with sealed enclosure	1	MTL
20-51-8500			Engine compartment lights (pair)	1	MTL
20-51-9001			Air horns not requested	1	MTL
20-52-3500		>	Chassis steering wheel lined up by Metalfab	1	MTL
			E		
20-52-4000			Rear View Camera system	1	MTL
20-60-0400			Chassis wheelbase does not change	1	MTL
			PUMP AND PLUMBING	1	MTL
30-11-8100			Hale QMAX 1250 IGPM single stage pump	1	MTL
30-12-3500			Mechanical seal for Hale QMID/QMAX/QTWO pumps	1	MTL
30-15-0101			Plumbing - Hale manifold pump TM	1	MTL
			E		
30-20-1000	S	<	Valves and controls - top mount panel	1	MTL
			Controls to be mechanical linkages in place of cable controlled - SOPT		

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30-20-1001			Valve brand not specified	1	MTL
30-20-10AA	U		Mechanical linkges in place of Cable control linkages required	1	
30-20-1500			Piping galvanized 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 - NSZ1	1	MTL
30-20-2000			Piping hydrostatic test	1	MTL
30-20-2505			Anodes in suction and discharge piping not requested	1	MTL
30-21-5530			Tank to Pump TM 3" w/ check valve manifold pump	1	MTL
30-22-0510			Tank Fill valve 2" TM	1	MTL
30-31-4010	S		Suction - 6" each side manifold pump	1	MTL
30-31-7200		>	Hale master intake suction valve - electric control	2	MTL
30-32-7500			Suction - 2-1/2" left side, bleeder, Hale manifold pump	1	MTL
30-40-2010			4" right discharge TM, plumbed 3", Hale manifold pump	1	MTL
30-41-2010			2-1/2" RS discharge TM, bleeder, Hale manifold pump	1	MTL
30-41-2510			2-1/2" LS discharge TM, bleeder, Hale manifold pump	2	MTL
30-43-1510	S		2-1/2" rear discharge TM, plumbed 2-1/2", bleeder	2	MTL
30-44-0610			1-1/2" speedlays (each) under walkway SS, plumbed 2"	2	MTL
30-44-1030		>	1-1/2" front trash line TM SS, plumbed 2", hosewell	1	MTL
30-44-6530			Piping for monitor TM SS, plumbed 3", bleeder	1	MTL
30-51-0500			Pump shift-Midship air	1	MTL
30-51-0700			Pump Gearbox mounted manual over ride for pump shift	1	MTL
			E		
30-51-6800			FRC InControl Governor/Throttle engine display with throttle knob	1	MTL
30-51-7000			Suction side relief V/V, manifold pump	2	MTL
30-51-7721	U	<	Automatic Trident Air primer - 3 location with gauge	1	
			SOPT 586		
30-51-8100			Heat exchanger included with chassis	1	MTL
30-52-1000			Master drain V/V, 12 port	1	MTL
30-52-2000			Drain valve for foam system header	1	MTL
30-52-5510			Foam system-Hypro FoamPro 2001 Single Tank	1	MTL
30-52-8100			Electric foam fill pump with panel pickup	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	1	MTL
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
40-12-4500	S		Foam cell - 20 Imperial gallon	1	MTL
40-13-0100	S	< >	Through the tank tunnel - up to 1200 gallon tank	1	MTL
			For 3 suction hoses as listed in 60-40-9001 and 80-11-5000		
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
40-23-1040			4" direct fill connection	1	MTL
40-30-0500			Sump drain valve (3" gate valve) with linkage	1	MTL
			E		
40-30-1000			Water Fill Box front left corner	1	MTL
40-31-0400			Rear dump valve not requested	1	MTL
40-31-8000			4" Storz rear gtd fill	1	MTL
			ELECTRICAL	1	MTL
50-11-0500			Base electrical system	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	1	MTL

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50-11-0900			Rocker switch panel with master warning switch	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 FN60QLED LED light bar NFPA	1	MTL
50-11-6501			Rear Directional Light not required	1	MTL
50-11-8001		>	Rear beacons not required	1	MTL
50-12-8000			Additional body side intersection light not required	1	MTL
50-12-8500	S		Front LED flashers (pr)-Whelen red LED 400 with integral flasher	1	MTL
50-12-8620	S		Rear LED flashers (pr)-Whelan red LED 900 with integral flasher UPPER	1	MTL
50-12-8700	S		Front side inter lts (pr) - Whelen red LED 400 with integral flasher	1	MTL
50-12-8800	S		Body side inter lts (pr)-Whelen red LED 400 with integral flasher	1	MTL
50-12-8820	S		Body side inter lts (pr)-Whelan red LED 900 with integral flasher UPPER	1	MTL
50-21-1505	U	<	Unity LED rear Floods (pr) SOPT 255a	1	
50-21-1610	U	<	Parking (ditch) lights in rear fender - LED with SS housing (pr) SOPT 160a Switched in cab rocker switch panel, and when vehicle is in reverse	1	
50-21-2525	U		FRC telescoping SPECTRA LED 12V flood (ea)	2	
50-21-5100		>	Compartment lighting - LED tube lights in each compartment (rollup doors)	1	MTL
50-21-5500			Door Ajar warning light	1	MTL
50-21-8001			Step lights for body steps - 4" LED	1	MTL
50-21-8110			Step lights for walkway - 4" LED	1	MTL
50-21-82AA	U		12" Lumabar LED step lights for two door chassis	1	
50-21-8600			LED clearance lts and reflectors	1	MTL
50-21-8800			LED intermediate turn signal/clearance/reflector length >30'	1	MTL
50-22-0750	S		Whelen 64 LED CAST 4V tail/brake-turn-backup-warning module (pr)	1	MTL
50-31-6006		>	Scene lights (pr) - Federal QL97 LED	3	MTL
50-31-6011			Scene light boxes not required	3	MTL
50-31-6550			Ground lighting (LED Lumabar) - 2 door chassis	1	MTL
50-31-6580			Ground lighting (LED Lumabar) - top mount body	1	MTL
50-31-65AA	U		Hose bed lighting - LED on front partition (ULC requirement)	1	
50-35-0500	S		Installation of customer supplied mobile radio	2	MTL
50-35-0560		<	VHF antenna with base - commercial chassis One VHF and one TMR	2	MTL
50-99-15AA	U		LED lighting for Zico rear access ladder to meet ULC	1	
50-99-25AA	U		Lighting for walkway in ceneter of hose bed to meet ULC	1	
50-99-30AA	U		Lighting for hose bed	1	
60-10-1400		<	Single axle extruded aluminum body No fender top - Hose bed to be full width to match Little Harbour M15-17984	1	MTL
60-10-4100			No "beavertail" rear step supports	1	MTL
60-10-4600			Painted fender surround	1	MTL
60-10-4700			Integral aluminum fender trim	1	MTL
60-10-5400		>	Diamondback pumphouse steps	1	MTL
60-10-5440		>	Diamondback 14" rear step	1	MTL
60-10-6500			Bolt on extruded aluminum rub rail E	1	MTL

PART NO	S	STN CODE	DESCRIPTION	QTY	ID	
60-11-0300		>	Front left side compartments full height E	1	MTL	
60-11-0700		>	Front right side compartments full height E	1	MTL	
60-11-1000		>	Rear left side compartments full height E	1	MTL	
60-11-1400		>	Rear right side compartments full height	E	1	MTL
60-11-2000		< >	High side compartment (over 18") each One on right and one on left side above rear wheels	2	MTL	
60-11-2500		< >	Rear compartment at step level Compartment to be as big as possible and door will be smaller due to the Zico Access ladder Door ajar switch required	1	MTL	
60-11-4500			Flush mount aluminum door - single with "D" handle	1	MTL	
60-11-5600			Rollup door - painted job colour - standard height	2	MTL	
60-11-5620			Rollup door - painted job colour - full height	4	MTL	
60-31-4100			Extruded aluminum handrails	1	MTL	
60-31-5000			Zico access Ladder at rear of unit	1	MTL	
60-31-5600	S		Steps and grab handles at front of body next to pump panel	1	MTL	
60-31-58AA	U		Special step on rear of body	1		
60-31-6500			Compartment matting-Turtle tile	1	MTL	
60-31-8700	S	< >	Sliding tray (ea) - 400 pound capacity with gas strut Front left and right compartments at floor level Rear left and right compartments at floor level Reflective stripe is applied on the exposed edge for visibility when the compartment door is open	4	MTL	
60-31-9600	S	>	Adjustable shelf (ea)	8	MTL	
60-32-3550	S	<	Two fixed hose divider (each) To be fixed to create a walkway in the middle - same as 2016 H.E.A.T Front partition is split in middle to accommodate the walkway	1	MTL	
60-32-7500		<	Hose bed - aluminum Center Walkway to have non-slip grip strut - ref 60-32-76AA	1	MTL	
60-32-76AA	U	<	Diamond back overlays on hose bed walkway Use non vented diamond back material	1		
60-33-0000			Paint exterior - Imron Elite	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	
60-33-2300	S	<	Lettering - special graphics Door decal 911 on rear side compartment doors SCOTSBURN in 7" high letters on the top side of the body Flags on each pump access door Customer to provide photos and details:	1	MTL	
60-33-3000			Reflective stripe - 4" white	1	MTL	
60-33-3310			Reflective stripe - red and yellow chevron at rear	1	MTL	
60-33-3500		<	Tarp over hose bed - black The hose bed tarp is to be in 2 pieces - 1 each side of the walkway	1	MTL	

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
60-33-3600			<i>Reflective stripe - inside entry doors</i>	1	MTL
60-33-4600	S		<i>Aluminum cover over speedlays - with end tarps (black)</i>	1	MTL
60-40-9000		>	<i>Tube mount for ladders, with rear door</i>	1	MTL
60-40-9001	S	>	<i>Tube mount for suction hoses, through tank</i>	3	MTL
60-40-9500	S	< >	<i>Tube for portable tank storage, with rear door</i>	1	MTL
			Rear door to be removable, no stay cable necessary		
			A roller is to be installed at the bottom of the compartment to help pull out the porta tank. The roller needs to be recessed halfway into the bottom of the compartment floor.		
			Door ajar switch required		
60-41-1000	S	<	<i>Pike Pole tube</i>	2	MTL
			To be installed in 60-40-9000 - tube for ladders		
60-41-1500	S	<	<i>Attic ladder tube</i>	1	MTL
			To be installed in 60-40-9000 - tube for ladders		
60-91-0500	S	>	<i>Compartment SCBA Storage rack</i>	1	MTL
			E		
60-99-05AA	U	<	<i>Wheelchock compartment - LS fenderwell</i>	2	
			SOPT 144		
			No doors required, to match M15-17984 Little Harbour		
60-99-06AA	U	<	<i>Swing out tool board</i>	1	
			SOPT 123b		
			Locate in RS high side compartment over rear wheels		
			To be hinged at the front of the body, centred in compartment so equal depth on both faces of the tool board, punched at 1-7/8" centres		
60-99-15AA	U	<	<i>Two tone paint on body - black over red</i>	1	
			SOPT 802		
			Paint line to be above the rollup doors on the body and to continue onto the pump house at that level as well as the rear of the body		
			INSTRUMENTATION	1	MTL
70-11-0000			Warning Label on Pump Operator's Panel	1	MTL
70-11-1000			<i>Black zolatone instrument panels</i>	1	MTL
70-11-2000			<i>Top mount instrument panel</i>	1	MTL
70-11-2500			<i>Transverse walkway</i>	1	MTL
70-11-2600			<i>Tread plate overlay on back of chassis cab</i>	1	MTL
70-11-3000			<i>Mansaver bars - 22"</i>	1	MTL
70-11-3200			<i>Colour coded tags</i>	1	MTL
70-11-3501			<i>Compartments in ends of walkway not required</i>	1	MTL
70-11-4500	S		<i>Diamondback grip type panel hood step right side</i>	1	MTL
70-11-4600	S		<i>Diamondback grip type panel hood step left side</i>	1	MTL
70-11-5100	U		<i>Open storage at rear top of pump house</i>	1	
70-11-5300			<i>Right side painted pump access door</i>	1	MTL
70-11-5400			<i>Left side painted pump access door</i>	1	MTL
70-11-5700			<i>Transverse tread plate pump access door</i>	1	MTL
70-11-7500			<i>Heat pan-aluminum</i>	1	MTL
70-11-8000			<i>Heater in pump compartment</i>	1	MTL
70-20-1500			<i>2-1/2" pressure gauge - dual face 0-600</i>	10	MTL
70-20-3300			<i>FRC InControl Governor Control</i>	1	MTL
70-20-3500			Electric water level gauge on pump panel, Class One	1	MTL
70-20-3610			<i>Remote PSTANK water level indicators each side, rear with driver</i>	1	MTL
			E		
70-20-6500			Test gauge panel	1	MTL
70-20-7500			<i>Heat exchanger control valve</i>	1	MTL

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
70-21-1500	S		Electric Foam Level gauge on pump panel, Class One	1	MTL
70-21-5500			Panel readout for Battery Conditioner	1	MTL
71-21-3500	S		Headset compartment	1	MTL
71-99-0010	U		Bulkhead connector with cap and wiring to cab, in headset compt	1	
71-99-0020	U		Headset and Radio adapter	1	
			ACCESSORIES	1	MTL
80-11-5000			6" x 10' lightweight suction hose (ea)	3	MTL
80-12-2500			6" barrel strainer	1	MTL
80-13-0500			Rubber mallet	1	MTL
80-13-1000	<		Hose wrenches (double) with holder Mount each side and rear of truck	3	MTL
80-13-2500			Pike pole, fibreglass handle - 10' long	2	MTL
80-13-4000	S		Axe, pick head, fibreglass handle and bracket	1	MTL
80-13-4500	S		Axe, flat head, fibreglass handle and bracket	1	MTL
80-14-1000			28' 2 section extension ladder PEL-28	1	MTL
80-14-6000			16' aluminum roof ladder PRL-16	1	MTL
80-14-8500			10' aluminum folding attic ladder FL-10	1	MTL
80-15-1000			2000 l gallon portable tank - Husky	1	MTL
80-17-0500			20# dry chemical fire extinguisher and mount	1	MTL
80-17-1000			15# CO2 fire extinguisher and mount	1	MTL
80-18-0600	S		SCBA brkt w/strap - ZICO ULLH	4	MTL
80-19-0500	S <		Large folding wheel chock - aluminum (ea) Mount in the left side compartment above the rear wheels	2	MTL
80-99-05AA	U		Akron Apollo deck monitor riser 3405, direct mount and switch	1	