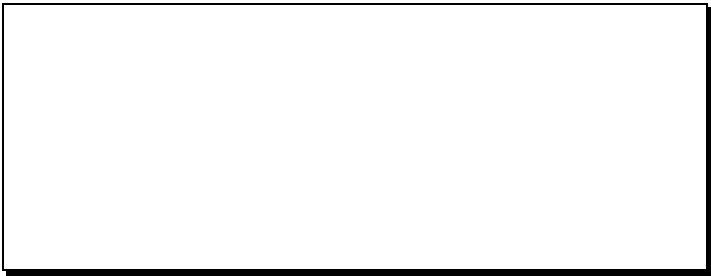




Bear River Fire Department
 Chief Darryl Jelfs
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Exp. Date: 04/26/2014
Quote No: JBENS-0015 **Job/Order No:** 18279
BODY: 00-10-15 Metalfab Pumper - ULC 05/13

02/10/2017

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
			== Metalfab Pumper - ULC 05/13 - 0.000 ==	1	MTL
			Change Order B	1	MTL
	S				
00-10-1500			Metalfab Pumper	1	MTL
00-20-1000			Company Profile	1	MTL
00-20-1500			Standard Body Warranty	1	MTL
00-20-1550			Metalfab Limited Ten (10) Year Paint and Corrosion Warranty	1	MTL
00-20-1700			Hale Pump Warranty - 5 years	1	MTL
00-20-1800			Ultra Tank Lifetime Warranty	1	MTL
00-20-2000			Plant Visits - unlimited at customer expense	1	MTL
00-20-3000			No Bonding Required	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	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	S	<	Maximum length - 31'	1	MTL
			Max length to be 31' but 30' is preferable		
10-11-2200	S	<	Maximum height - 118"	1	MTL
			Max height - 118"		
10-11-2300			Overall length is less than 30'	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 - 4 door	1	MTL
			Change Order A:		
			Clarification that the chassis rear axle is equipped with Trac Tech - full time no spin differential - no switch on dash - everything is done internally.		
			The AM/FM radio wiring by Freightliner will be left as is - it is not interlocked with the park brake (as was their Spartan).		

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
20-11-1500			2013 Emission chassis modifications	1	MTL
20-11-1600			Chassis Motor Vehicle Inspection not required	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
20-21-1550			Tire Pressure Indicators not requested	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
20-31-1100			Alum tread fuel tank covers, diamond grip steps, Conv - 4 dr	1	MTL
20-31-1900			Chassis cab not painted	1	MTL
			E		
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
			E		
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			Rear Tow Hooks - under body	1	MTL
20-41-5500			ON SPOT Automatic traction chains	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
20-51-4000	S	<	Auto eject for air inlet - LS	1	MTL
			Located in drivers step area		
20-51-5600		<	Flashing headlights w/ daytime running lights	1	MTL
			Have an on/off switch for it and interlock with parking brake		
20-51-6200	S	>	120 volt 20 A shore line connection in chassis cab	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	S	<	Super Auto eject for 120 v - 20 A with sealed enclosure	1	MTL
			Location to be in the drivers step area.		
20-51-8500			Engine compartment lights (pair)	1	MTL
20-51-9000	S		Air horns on hood	1	MTL
20-52-1000	S	< >	Federal Littlite gooseneck map light (ea)	1	MTL
			Install on the officer side A post		
20-52-3500		>	Chassis steering wheel lined up by Metalfab	1	MTL
			E		
20-60-0400			Chassis wheelbase does not change	1	MTL
20-90-1500	S	< >	12 volt power point	1	MTL
			Install in cab console and wire directly to chassis batteries.		
20-91-15AA	U	<	Kussmaul 091-219-4 USB Charging Port - Dual	1	
			Install in cab console and wire directly to chassis batteries.		

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
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
30-15-0103			Plumbing - Hale manifold pump SM	1	MTL
30-20-0500			Valves and controls - side mount panel	1	MTL
30-20-1001			Valve brand not specified	1	MTL
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 - NS Standard thread (NSZ1)	1	MTL
30-20-2000			Piping hydrostatic test	1	MTL
30-20-2505			Anodes in suction and discharge piping not requested	1	MTL
30-21-5500			Tank to Pump 3" w/ check valve manifold pump	1	MTL
30-22-0500			Tank Fill valve 2"	1	MTL
30-31-4010	S		Suction - 6" each side manifold pump	1	MTL
30-31-6000	S		Suction - 4" galv piping to rear - electric control - 6" connection	1	MTL
30-31-7100		>	Hale master intake suction valve - handwheel control	2	MTL
30-31-7200		>	Hale master intake suction valve - electric control	1	MTL
30-32-7500			Suction - 2-1/2" left side, bleeder, Hale manifold pump	1	MTL
30-40-2000			4" right discharge, plumbed 3", Hale manifold pump	1	MTL
30-41-2000			2-1/2" RS discharge, bleeder, Hale manifold pump	1	MTL
30-41-2500			2-1/2" LS discharge, bleeder, Hale manifold pump	2	MTL
30-43-1500	S		2-1/2" rear discharge, plumbed 2-1/2", bleeder	1	MTL
30-44-0500	S	<	1-1/2" crosslay (each), 2" valve, bleeder	2	MTL
			Hose bed to be 7" wide for each lay		
			Crosslays will be #7 red and #8 yellow, with the first control on the panel to be for the forward Crosslay and the second control to be for the rear Crosslay - to match their 1999 unit.		
30-44-6500	S	<	Piping for monitor, plumbed 3", bleeder	1	MTL
			Pipe to terminate in centre of the open storage over pump house recessed for the installation of 80-99-25AA TFT Manual riser (For customer supplied monitor).		
			****Refer to notes under 80-99-25AA.****		
30-51-0500			Pump shift-Midship air	1	MTL
30-51-0600			Manual over ride for pump shift on pump panel by Metalfab	1	MTL
30-51-6800			FRC InControl Governor/Throttle engine display with throttle knob	1	MTL
30-51-7000			Suction side relief V/V, manifold pump	3	MTL
30-51-7700			Primer Hale oil less ESP with oil tank Hale	1	MTL
30-51-7800			Pre Primer for gated suction Hale primer	3	MTL
30-51-8100			Heat exchanger included with chassis	1	MTL
30-51-9100			Thermal Relief Valve with warning light	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
30-52-9100			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
30-99-05AA	U		4" Rear discharge, plumbed 3", Hale Manifold	1	
30-99-10AA	U		Suction - 2-1/2" rear, bleeder, Hale Manifold	1	
WATER AND FOAM TANKS				1	MTL
40-11-2100			Ultra-Tank water tank (Imperial gallons)	1	MTL
40-11-2200			Water tank capacity certification (tank manufacturer)	1	MTL
40-11-5000			Tank capacity 1000 Imperial Gallons	1	MTL
40-12-4500			Foam cell - 20 Imperial gallon	1	MTL
40-21-0500			3" tank to pump connection	1	MTL
40-22-0500			2" tank fill connection	1	MTL

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
40-23-0500			1" water level gauge 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
40-31-6050			Rear fill not requested	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
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
50-11-3500			Horn ring transfer switch	1	MTL
50-11-6100			Whelan FN60QLED LED light bar NFPA	1	MTL
50-11-6600			Rear LED Traffic Advisor warning lights - surface mount	1	MTL
50-11-8600			Rear LED beacons-Whelan MCFLED2R (pr) both red	1	MTL
50-12-8500			Front LED flashers (pr)-Whelan red LED 400	1	MTL
50-12-8600			Rear LED flashers (pr)-Whelan red LED 400	1	MTL
50-12-8700			Front side inter lts (pr) - Whelan red LED 400	1	MTL
50-12-8800	<		Body side inter lts (pr)-Whelan red LED 400	2	MTL
			Install on a flush piece of material so that the back of the light will be sealed. 2nd flasher to be in the chassis step to match M99-7621		
50-21-1600	S		Parking (ditch) lights in rear fenders	1	MTL
50-21-2540	S		FRC telescoping SPECTRA LED 12V flood (ea)	4	MTL
50-21-3000	S	< >	Remote control electric spot/flood (ea)	1	MTL
			Light to be GoLight model with control in cab		
50-21-5100		>	Compartment lighting - LED tube lights in each compartment (rollup doors)	1	MTL
50-21-5500			Door Ajar warning light	1	MTL
50-21-5550			Equipment rack not stowed warning light	2	MTL
50-21-8001			Step lights for body steps - 4" LED	1	MTL
50-21-8201			Step lights for chassis steps - LED marker type	1	MTL
50-21-8600			LED clearance lts and reflectors	1	MTL
50-22-0700			Whelan 64 LED tail/brake-turn-backup module (pr)	1	MTL
50-31-6560			Ground lighting (LED Lumabar) - 4 door chassis	1	MTL
50-31-6570			Ground lighting (LED Lumabar) - side mount body	1	MTL
50-35-0500	S	<	Installation of customer supplied mobile radio	2	MTL
			Provision only - cut a hole in the console and have antenna / power wires coiled in console for radio install after delivery.		
			***Customer to Specify cutout size		
			Radio #1 - TMR Motorola XTL 1500 Length - 7" Width - 2"		
			Radio #2 - Motorola CM200 Length - 6.5" Width - 1.75"		
50-35-0570	S		Antenna with base - commercial chassis	2	MTL
50-99-05AA	U		Additional wiring	1	MTL
			BODY	1	MTL
60-10-1400			Single axle extruded aluminum body	1	MTL
60-10-4000	S	<	Square beavertail rear step supports	1	MTL
			Extenda lights to be installed inside the beavertail		
60-10-4500			Aluminum tread plate fender surround - single axle	1	MTL
60-10-4700			Integral aluminum fender trim	1	MTL

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
60-10-5400		>	Diamondback pumphouse steps	1	MTL
60-10-5440		>	Diamondback 14" rear step	1	MTL
60-10-6000			Extruded rub rail	1	MTL
60-11-0300		>	Front left side compartments full height	1	MTL
			E		
60-11-0600		>	Front right side compartments intermediate height	1	MTL
60-11-1000		>	Rear left side compartments full height	1	MTL
			E		
60-11-1300		>	Rear right side compartments intermediate height	1	MTL
60-11-1900		>	Low side compartment (up to 18") each	1	MTL
60-11-2000		>	High side compartment (over 18") each	1	MTL
60-11-3200		>	Full Height Rear compartment	1	MTL
60-11-4500	S		Flush mount aluminum door - single with "D" handle	1	MTL
60-11-5530	S		Rollup door - to enclose LS pump panel - Roll Up Door	1	MTL
			Painted White		
60-11-5600	S		Rollup door - painted White - standard height	1	MTL
60-11-5610	S		Rollup door - painted White - intermediate height	2	MTL
60-11-5620	S		Rollup door - painted White - full height	3	MTL
60-31-4100			Extruded aluminum handrails	1	MTL
60-31-5500			Steps at rear of body (folding)	1	MTL
60-31-5600		<	Steps and grab handles at front of body next to pump panel	1	MTL
			right side only - left side has a roll up door over the panel		
60-31-6500	S	<	Compartment matting-Turtle tile	1	MTL
			Attach all the turtle tile together with zip ties to make removing and cleaning easier		
60-31-8000			BA bottle compt (ea)-fender well	4	MTL
60-31-8700		>	Sliding tray (ea) - 400 pound capacity with gas strut	2	MTL
60-31-9600		>	Adjustable shelf (ea)	4	MTL
60-32-3550			Two adjustable hose divider (each)	1	MTL
60-32-7500			Hose bed - aluminum	1	MTL
60-33-0000			Paint exterior - Imron Elite	1	MTL
60-33-0200	S		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
60-33-2000			Lettering - no lettering provided	1	MTL
60-33-3200	S		Reflective stripe - 1" - 4" -1" white	1	MTL
60-33-3310			Reflective stripe - red and yellow chevron at rear	1	MTL
60-33-4600	S	<	Aluminum cover over crosslays - with end tarps (black)	1	MTL
			The end tarps are to be made of seat belt mesh like the trash line cover of Kingsville, ON M13-17042. The latch is to be a physical latch (Customer does not want Velcro straps).		
			NOTE: Latches cannot be plastic		
60-33-5000	S	<	Aluminum cover over hose bed with end tarps - black	1	MTL
			E		
			End tarps to be seat belt mesh with mechanical fasteners (no Velcro straps).		
			NOTE: Latches cannot be plastic		
60-40-4500			6" Hose tray - side mount (ea)	1	MTL
60-40-5500			Suction hose tube (each) with door	2	MTL
60-41-1000		<	Pike Pole tube with door	2	MTL
			Door to be deck plate with a latch		
60-41-1500		<	Attic ladder tube with rear door	1	MTL
			Door to be deck plate with a latch		

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
60-41-9000		>	<i>Zico electric Ladder Access system</i>	1	MTL
60-41-9010	S		<i>ZICO LAS switched on right side pump panel</i>	1	MTL
60-41-9100			<i>Manual locking system for LAS</i>	1	MTL
			INSTRUMENTATION	1	MTL
70-11-0000			Warning Label on Pump Operator's Panel	1	MTL
70-11-0501			<i>Side mount instrument panel with rollup door LS only</i>	1	MTL
70-11-1500			<i>Stainless steel instrument panels</i>	1	MTL
70-11-3200			<i>Colour coded tags</i>	1	MTL
70-11-4500	U		<i>Gripstrut step right side pump panel</i>	1	
70-11-5100			<i>Open storage at rear top of pump house</i>	1	MTL
70-11-5500			<i>Right side tread plate pump access door</i>	1	MTL
70-11-7500		<	<i>Heat pan-aluminum</i>	1	MTL
			Use a bolt and nut to secure in place instead of a locking pin		
70-11-8100			<i>Heater in pump compartment not requested</i>	1	MTL
70-20-1500			<i>2-1/2" pressure gauge - dual face 0-600</i>	9	MTL
70-20-2500			<i>Primer control</i>	4	MTL
70-20-3300			<i>FRC InControl Governor Control</i>	1	MTL
70-20-3510			<i>Electric water level gauge on pump panel and at rear, Class One</i>	1	MTL
70-20-6500			Test gauge panel	1	MTL
70-20-7500			<i>Heat exchanger control valve</i>	1	MTL
70-21-1600			<i>Electric Foam Level gauge not required</i>	1	MTL
70-21-5500			<i>Panel readout for Battery Conditioner</i>	1	MTL
71-99-05AA	U		<i>Pump panel connections</i>	1	
			ACCESSORIES	1	MTL
80-11-5000		<	<i>6" x 10' lightweight suction hose (ea)</i>	3	MTL
			Two stored in rear access suction hose tubes		
			One mounted LAS.		
80-12-2500		<	<i>6" barrel strainer</i>	1	MTL
			Shipped loose		
80-12-4500	S	< >	<i>6" low level strainer with 1-1/2" venturi connection</i>	1	MTL
			Mount strainer in rear compartment using Kochek LLMB (low level mounting bracket).		
80-13-0500	S	<	<i>Rubber mallet</i>	3	MTL
			Include a mounting bracket for each mallet.		
			PAC Toolok 1003 (Met p/n 1562258).		
			Mounted as directed by Customer, otherwise shipped loose with mounting fasteners.		
80-13-1000		<	<i>Hose wrenches (double) with holder</i>	3	MTL
			Mounted as directed by Customer, otherwise shipped loose with mounting fasteners.		
80-13-1200		<	<i>Clare hose wrenches (double) with holder</i>	3	MTL
			Mounted as directed by Customer, otherwise shipped loose with mounting fasteners.		
80-13-1500		<	<i>Bar with bracket</i>	1	MTL
			Mounted on rear step as shown on drawing.		
80-13-2500		<	<i>Pike pole, fibreglass handle - 10' long</i>	2	MTL
			Tube mounted right side - rear access		
80-13-4000		<	<i>Axe, pick head, fibreglass handle and bracket</i>	1	MTL
			Mounted as directed by Customer, otherwise shipped loose with mounting fasteners.		

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
80-13-4500	<		<i>Axe, flat head, fibreglass handle and bracket</i> Mounted as directed by Customer, otherwise shipped loose with mounting fasteners.	1	MTL
80-14-0500	<		<i>24' 2 section extension ladder PEL 24</i> Mounted on LAS	1	MTL
80-14-5500	<		<i>14' aluminum roof ladder PRL-14</i> Mounted on LAS	1	MTL
80-14-8500	<		<i>10' aluminum folding attic ladder FL-10</i> Tube mounted right side - rear access.	1	MTL
80-17-0500	<		<i>20# dry chemical fire extinguisher and mount</i> Install in rear compartment	1	MTL
80-17-1000	<		<i>15# CO2 fire extinguisher and mount</i> Install in rear compartment	1	MTL
80-18-0600	<		<i>SCBA brkt w/strap - ZICO ULLH - crew cab mount</i> Installed in cab	4	MTL
80-19-0500	S		<i>Large folding wheel chock - aluminum (ea)</i>	2	MTL
80-19-0600	< >		<i>Horizontal bracket for folding wheel chock (ea)</i> Mounted as directed by Customer, otherwise shipped loose with mounting fasteners.	2	MTL
80-99-25AA	U		<i>TFT XG18VL-XL 18" manual riser</i>	1	