METALFAB
FIRE TRUCKS

Belfast Fire Dept
Chief Jim Richards
131 Church Street
Belfast, Maine 04915
338 3362
firechief@cityofbelfast.org
1 207 463 2788
1 207 463 2826

K & T Fire Equipment
Tom York
P O Box 360
1143 Crystal Road, Exit 276 I 95 , route 159 east
Island Falls, Maine 04747
1 800675 2848
tom.york91@yahoo.com

Exp. Date: 03/26/2016
Quote No: RBEME-0012   **Job/Order No:**   19324

BODY: 00-10-11   Metalfab Pumper - NFPA 05/13

06/05/2017   Page 1

PART NO	S	STN CODE	DESCRIPTION		QTY	ID
			== Metalfab Pumper - NFPA 05/13 - 0.000 ==		*1*	*MTL*
	S		*Change Order A*		*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
00-20-1900			UPF Polytank 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	E	1	MTL
10-11-0100			*Vehicle Data Recorder (chassis prewired)*		*1*	*MTL*
10-11-0500	*S*		*NFPA 1901-2016 Compliance*		*1*	*MTL*
10-11-2000		>	UL Testing 1901		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*
10-11-2410			Overall height is 119" or more		1	MTL
10-11-2500			General Construction		1	MTL
10-11-3000			*Manuals - two copies*		*1*	*MTL*
10-11-3500	*S*	*>*	*Delivery to K&T by Metalfab, K&T will deliver and do orientation*		*1*	*MTL*
10-11-4000			Payment Terms - Chassis Net 10 days, Balance COD		1	MTL
10-20-1100			Hose bed capacity - standard NFPA Pumper		1	MTL
10-20-2100			Equipment carrying capacity - standard NFPA Pumper		1	MTL
			CHASSIS INFORMATION		1	MTL
20-11-0500	*S*	*>*	*Metalfab chassis Freightliner M2 106*		*1*	*MTL*
20-11-1500			2013 Emission chassis modifications		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
20-21-1520			*Helmet warning label - do not wear helmet*		*2*	*MTL*
20-21-1530			Tire Pressure Indicators - Single Axle		1	MTL

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
20-21-1600			*Apparatus Information Label*	*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*	*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 Freightliner*	*1*	*MTL*
20-31-4700		>	*Extend front bumper, gravshld with preconnected hosewell*	*1*	*MTL*
			E		
20-31-6000			*Stainless steel wheel covers - single axle*	*1*	*MTL*
20-41-0600			Intake air shutoff for engine not required	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 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			Rear Tow Hooks - under body	1	MTL
20-51-0700			*Master Battery Disconnect included with chassis*	*1*	*MTL*
20-51-2500			*Back up alarm included with chassis*	*1*	*MTL*
20-51-3400			Protection valve installed for air operated accessories	1	MTL
20-51-4000			*Auto eject for air inlet - LS*	*1*	*MTL*
20-51-6200		>	*120 volt 20 A shore line connection in chassis cab*	*1*	*MTL*
20-51-6510			*Kussmaul Autocharge 35/10 battery conditioner w/battery save*	*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	S		*Hood mounted air horns with foot switches included with*	*1*	*MTL*
			chassis		
20-52-3000		>	Chassis steering wheel lined up by others	1	MTL
20-60-0400			Chassis wheelbase does not change	1	MTL
			PUMP AND PLUMBING	1	MTL
30-11-5700			Hale QFLO Single stage 1250 USGPM	1	MTL
30-12-3300			Mechanical seal for Hale QFLO/QPAK pumps	1	MTL
30-15-0103			Plumbing - Hale manifold pump SM	1	MTL
30-20-0500			Valves and controls - side mount panel	1	MTL
30-20-1002			*Akron valves 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 NST*	*1*	*MTL*
30-20-2000			Piping hydrostatic test	1	MTL
30-20-2500			*Anodes in suction and discharge piping*	*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			Suction - 6" not gated each side manifold pump	1	MTL
30-32-7500			Suction - 2-1/2" left side, bleeder, Hale manifold pump	1	MTL
30-41-2000			2-1/2" RS discharge, bleeder, Hale manifold pump	2	MTL
30-41-2500			2-1/2" LS discharge, bleeder, Hale manifold pump	2	MTL
30-43-1500			*2-1/2" rear discharge, plumbed 2-1/2", bleeder*	*1*	*MTL*
30-44-0500			*1-1/2" crosslay (each), 2" valve, bleeder*	*2*	*MTL*
30-44-1000		>	*1-1/2" front trash line, plumbed 2", hosewell*	*1*	*MTL*
30-44-6500			*Piping for monitor, plumbed 3", bleeder*	*1*	*MTL*
30-44-8500		< >	*Hose reel, 1" X 200', nozzle, electric - compartment mounted*	*1*	*MTL*
			Located in back compartment sunk into the floor 8/10 inches.		
			Order reel with hose roller and guide rollers.		
			Rewind switch located on compartment side wall left of reel.		

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
30-51-0500			Pump shift-Midship air	1	MTL
30-51-0700			Pump Gearbox mounted manual over ride for pump shift E	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	1	MTL
30-51-7700			Primer Hale oil less ESP with oil tank Hale	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			*Drain valve for foam system header*	*1*	*MTL*
30-52-4010			*Foam System - Hypro FoamPro 1600*	*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
40-11-2000			Polytank IIE water tank (US gallons)	1	MTL
40-11-2200			Water tank capacity certification (tank manufacturer)	1	MTL
40-11-5100	S		*Tank capacity 1200 US Gallons*	*1*	*MTL*
40-12-5101	S		*20 US Gal Foam cell*	*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*
40-23-1070			*3" direct fill 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
40-31-6000			*2-1/2" rear gtd tank 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
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 LED Lighting Package*	*1*	*MTL*
50-11-6501			Rear Directional Light not required E	1	MTL
50-11-8600	S		*Rear LED beacons-Whelen MCFLED2R (pr) both red*	*1*	*MTL*
50-12-8510	S		*Front LED flashers (pr)-Whelen red LED 400 with integral flasher*	*1*	*MTL*
50-12-8700	S		*Front side inter lts (pr) - Whelen red LED 400*	*1*	*MTL*
50-12-8800	S		*Body side inter lts (pr)-Whelen red LED 400*	*1*	*MTL*
50-12-8901	S	>	*Add'l body side inter lts (pr)-Whelen red LED 400 with integral flasher*	*1*	*MTL*
50-21-1500			Rear floods (pr)-Unity	1	MTL
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*
50-21-8200	S		*Step lights for chassis steps - LED Lumabars*	*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*
50-22-0750	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*
50-31-6010			*Scene light boxes (pr) - tread plate*	*2*	*MTL*
50-31-6600			*Ground lighting (4" LED) - 2 door chassis*	*1*	*MTL*
50-31-6620			*Ground lighting (4" LED) - side mount body*	*1*	*MTL*
50-99-05AA	U		*Whelen Freedom IV LED Light Bar - Full Front with Side Alley Lights*	*1*	

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
			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
60-10-5400		>	Diamondback pumphouse steps	1	MTL
60-10-5430		>	Diamondback 19" rear step	1	MTL
60-10-6000			Extruded rub rail	1	MTL
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*	*2*	*MTL*
60-11-3200		>	Full Height Rear compartment	1	MTL
60-11-5500			*Rollup door - standard height*	*2*	*MTL*
60-11-5520			*Rollup door - full height*	*5*	*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*
60-31-6500			Compartment matting-Turtle tile	1	MTL
60-31-8000			*BA bottle compt (ea)-fender well*	*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			Undercoat vehicle with KROWN rust protection	1	MTL
60-33-0500	*S*		*Paint chassis wheels job colour*	*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
60-33-3300	*S*		*Reflective stripe - special graphics*	*1*	*MTL*
60-33-3310			*Reflective stripe - red and yellow chevron at rear*	*1*	*MTL*
60-33-3500			Tarp over hose bed - black	1	MTL
60-33-3600			Reflective stripe - inside entry doors	1	MTL
60-33-4600			Aluminum cover over crosslays - with end tarps (black)	1	MTL
60-40-5500			*Suction hose tube (each) with door*	*2*	*MTL*
60-40-9000		*>*	*Tube mount for ladders, with rear door*	*1*	*MTL*
60-41-1015			*Pike Pole tube in suction hose tube*	*2*	*MTL*
60-41-1500			*Attic ladder tube with rear door*	*1*	*MTL*
70-11-0000			Warning Label on Pump Operator's Panel	1	MTL
70-11-0500			Side mount instrument panel	1	MTL
70-11-1500			Stainless steel instrument panels	1	MTL
70-11-3200			Colour coded tags	1	MTL
70-11-4000			*Stainless steel side panel hood right side*	*1*	*MTL*
70-11-4100			*Stainless steel side panel hood left side*	*1*	*MTL*
70-11-5100			*Open storage at rear top of pump house*	*1*	*MTL*
70-11-5300			*Right side painted pump access door*	*1*	*MTL*
70-11-7500			Heat pan-aluminum	1	MTL
70-11-8000			*Heater in pump compartment*	*1*	*MTL*
70-20-1000			4-1/2" compound gauge - PSI only 0-600	2	MTL
70-20-2000			*2-1/2" pressure gauge - PSI only 0-600*	*10*	*MTL*
70-20-2500			Primer control	1	MTL
70-20-3300			*FRC InControl Governor Control*	*1*	*MTL*
70-20-3510			*Electric water level gauge on pump panel and at rear, Class One*	*1*	*MTL*
70-20-6500			Test gauge panel	1	MTL
70-20-7500			*Heat exchanger control valve*	*1*	*MTL*

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
70-21-1600	S		Electric Foam Level gauge not requested	1	MTL
70-21-5500			Panel readout for Battery Conditioner	1	MTL
70-99-05AA	U		LED Panel Lights - 20" Amdor Lumabar	1	
	S		****ACCESSORIES - supplied and mounted by K&T****	1	MTL
99-99-9901	U		4 " storz discharge adapter	1	
99-99-9902	U		6"x10' suction hose	1	
99-99-9903	U		6" box strainer	1	
99-99-9904	U		6" low level strainer	1	
99-99-9905	U		Spanner hydrant sets	1	
99-99-9906	U		Rubber hammer	1	
99-99-9907	U		Hydrant adapter	1	
99-99-9908	U		14' roof	1	
99-99-9909	U		24' extension	1	
99-99-9910	U		10 attic	1	
99-99-9911	U		10' pike poles FG	1	
99-99-9912	U		4/6' Closet Hooks	1	
99-99-9913	U		Class A foam 5gals	1	
99-99-9914	U		1250 gpm deck gun	1	
99-99-9915	U		1250 GPM nozzle	1	
99-99-9916	U		stacked tips deck gun	1	
99-99-9917	U		alum wheel chocks 8"	1	