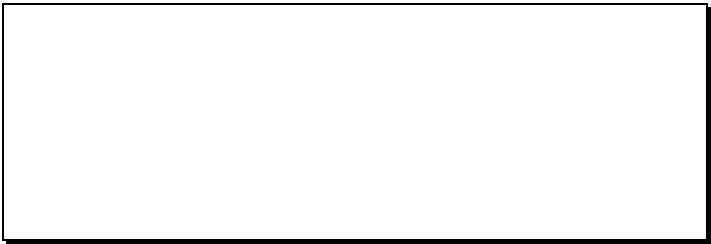




Shop Order

Ville de Lameque
 Dave Brown
 44 rue du Pecheur Nord
 Lameque, NB E8T 3N4
 506-344-3222
 506-344-3266
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Sales Rep: Jacques Pelletier Metalfab Ltd.	Terms: Chassis Net 10 days Body and Equipment COD
Drawing #: FT-10978 Est. Delivery Date: / / Customer PO #: Customer #: 1596 QPF #:	Penalty: None

Quote No: JLANB-0010
Job/Order No: 19884
 05/15/2018

PART NO	QTY	DESCRIPTION
	1	== Metalfab Pumper - ULC 05/13 - 0.000 ==
	1	CHANGE ORDER C
00-10-1500	1	Metalfab Pumper E
00-15-05AA	1	Exceptions list
00-20-1000	1	Company Profile E
00-20-1500	1	Standard Body Warranty
00-20-1550	1	Metalfab Limited Ten (10) Year Paint and Corrosion Warranty
00-20-1700	1	Hale Pump Warranty - 5 years
00-20-1800	1	Poly Tank Lifetime Warranty
00-20-2100	1	Plant Inspection Visits - 3 visits, 4 persons per visit
00-20-3000	1	No Bonding Requested
00-20-3500	1	Certification for Fusion Welding of Aluminum
00-20-4000	1	Quality System registered to ISO 9001:2008
00-20-4500	1	Fire Apparatus Manufacturers' Association Membership
	1	GENERAL INFORMATION
10-11-0000	1	Intent E
10-11-0110	1	Vehicle data recorder included with chassis
10-11-1100	1	ULC S515-13 Compliance
10-11-1500	1	ULC Testing - Pumper
10-11-2100	1	Maximum length not specified E
10-11-2200	1	Maximum height not specified E
10-11-2400	1	Overall length is 30' or more
10-11-2500	1	General Construction
10-11-2600	1	Preconstruction Meeting at Lameque Fire Hall
10-11-3000	1	Manuals - two copies French copies where possible
		French manuals where possible
		Two copies of chassis manuals are required.
10-11-3600	1	Delivery - FOB Fire Department
		One full day of training.
10-11-4000	1	Payment Terms - Chassis Net 10 days, Balance COD

PART NO	QTY	DESCRIPTION
10-20-1000	1	Hose bed capacity - standard ULC Pumper
10-20-2000	1	Equipment carrying capacity - standard ULC Pumper
		CHASSIS INFORMATION
20-11-1000	1	Chassis supplied by Metalfab - Spartan Metro Star MFD 10" raised roof
		53,000 lb GVWR 20,000 lb front axle 33,000 lb rear axle
		195" wheelbase, 141" cab to axle, 60" rear frame overhang
		Cummins L9 380 hp @ 2000 rpm, 1150 torque @ 1400 rpm
		2200 governed rpm
		Allison 3000 EVS automatic transmission, 270 amp alternator
		12-Volt Multiplexed wiring with push button vista control at driver's position
		1710 Series drive lines
		Steel wheels with trim shipped loose
		Standard 6" bumper extension with Apron, air horns and siren speaker
		Climate control overhead heat/defrost, heaters under front seats
		Flashing headlights
		One antenna base on RH cab roof fwd
		Two tone paint white over red
		White - PPG FBCH 911002 (cross to L0006 EB)
		Red - PPG FBCH 905541 (cross to L0608)
		Spay outs to be sent to the Department for approval and sign off.
		Driver's and Officer's seats to be non SCBA
		Crew seats (4) to be SCBA style
20-11-1500	1	2013 Emission chassis modifications
20-11-1700	1	Chassis Motor Vehicle Inspection required - NB E
		Chassis is provided with a New Brunswick Motor Vehicle Inspection dated the month of delivery.
20-21-0500	1	Fluid capacity plate
20-21-0600	1	Pumping test plate
20-21-1040	1	Maximum riders sign - 6 persons
20-21-1510	1	Seat belt warning labels - 4 door chassis
20-21-1530	1	Tire Pressure Indicators - Single Axle
		LED type with chassis - self calibrating
20-21-1600	1	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"
20-21-2000	1	Non removable key w/chassis
20-21-2500	1	Shifter lock not required E
20-21-3500	1	Rear step warning label
20-21-3810	1	Front mudflaps provided with chassis E
20-21-4000	1	Rear mudflaps - Metalfab Logo
20-31-0100	1	Fuel tank or step covers not required
20-31-0200	1	Fuel fill label -Ultra Low Sulfur Diesel only
20-31-1900	1	Chassis cab painted white over red by chassis OEM
20-41-0600	1	Intake air shutoff for engine not requested
20-41-0900	1	Auxiliary braking system disabled when pumping
20-41-1100	1	Transmission programming - Allison WT - programming by Spartan
		***Includes "Pump Engaged" light next to pump shift on chassis instrument panel.
20-41-1500	1	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.

PART NO	QTY	DESCRIPTION
20-41-1900	1	Battery boost terminals with chassis E
20-41-2000	1	Chassis batteries remain in OEM location
20-41-2560	1	Fuel fill at LS rear fender well with SCBA style door E
20-41-2600	1	Chassis fuel tank remains in OEM location
20-41-5000	1	Rear Tow Hooks - under body
		*** Flat bar tow hooks under rear step (2)
20-51-0700	1	Master Battery Disconnect included with chassis
20-51-2500	1	Back up alarm included with chassis
20-51-3100	1	Air inlet not required - auxiliary air compressor supplied with Spartan chassis
20-51-3400	1	Protection valve installed for air operated accessories
20-51-6200	2	120 volt 20 A shore line connection in chassis cab
		Standard 5-20R duplex receptacle in chassis cab, not fused
		Location of receptacles determined at the pre-construction meeting:
		Receptacle #1 - LS of doghouse between front and rear facing seats
		Receptacle #2 - RS of doghouse between front and rear facing seats
		Must be minimum 12" from floor to meet ULC
20-51-6501	1	Battery Charger ordered with chassis
		Kussmaul pump plus complete with auto eject
20-51-7102	1	Class One Total System Manager included with chassis
20-51-9001	1	Air horns supplied by chassis OEM
20-52-3500	1	Chassis steering wheel lined up by Metalfab E
20-52-4000	1	Rear View Camera system
		Rearview Systems STM5600 with 5.6" colour monitor in cab
20-60-0400	1	Chassis wheelbase does not change
	1	PUMP AND PLUMBING
30-11-5600	1	Hale QFLO Single stage 1050 IGPM
30-12-3300	1	Mechanical seal for Hale QFLO/QPAK pumps
30-15-0104	1	Plumbing - Hale manifold pump SM SS E
30-20-0500	1	Valves and controls - side mount panel
30-20-1001	1	Valve brand - Elkhart
30-20-1600	1	Piping stainless steel - general
30-20-1700	1	1-1/2" thread specifications NPSH
		NPSH
30-20-1800	1	2-1/2" thread specifications 3" x 8 TPI
		3" x 8 TPI per thread sample provided
30-20-2000	1	Piping hydrostatic test
30-20-2500	1	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.
30-21-5560	1	Tank to Pump SS 3" w/ check valve manifold pump
30-22-0520	1	Tank Fill valve 2" SS
30-31-4010	1	Suction - 6" not gated each side manifold pump
30-32-7530	1	Suction - 2-1/2" left side SS, bleeder, Hale manifold pump
30-32-8030	1	Suction - 2-1/2" right side SS, bleeder, Hale manifold pump
30-40-2020	1	4" right discharge SS, plumbed 3", bleeder, Hale manifold pump
30-41-2020	1	2-1/2" RS discharge SS, bleeder, Hale manifold pump
30-41-2520	2	2-1/2" LS discharge SS, bleeder, Hale manifold pump
30-43-1520	2	2-1/2" rear discharge SS, plumbed 2-1/2", bleeder
		One each side as shown on the proposal drawing
30-44-6520	1	Piping for monitor SS, plumbed 3", bleeder, slow close
		This outlet is capped for a customer supplied and installed monitor. The piping will terminate centered in the open storage over the pump at the level of the top of the pump

PART NO	QTY	DESCRIPTION
		house unless otherwise specified.
30-51-0500	1	Pump shift-Midship air ***Includes "Pump Engaged" and "OK to Pump" indicator lights on chassis instrument panel ***Includes "Throttle Ready" indicator light on Pump operating panel The pump shift control will be installed in the center dash section.
30-51-0700	1	Pump Gearbox mounted manual over ride for pump shift E
30-51-6800	1	FRC InControl Governor/Throttle engine display with throttle knob
30-51-7000	1	Suction side relief V/V, manifold pump
30-51-7700	1	Primer Hale oil less ESP with oil tank Hale Indicator light on panel to show when primer is operating
30-51-8100	1	Heat exchanger included with chassis
30-52-1000	1	Master drain V/V, 12 port
30-52-2000	1	Drain valve for foam system header
30-52-5510	1	Foam system-Hypro FoamPro 2001 Single Tank The discharges plumbed for foam determined at the pre-construction meeting: Both rear 2-1/2" discharges
30-52-9100	1	Foam concentrate label at foam tank fill
30-52-9200	1	Foam System Instruction Plates
30-52-9400	1	NFPA Foam System certification test
		WATER AND FOAM TANKS
40-11-2100	1	Polypropylene water tank (Imperial gallons)
40-11-2200	1	Water tank capacity certification (tank manufacturer)
40-11-6500	1	Tank capacity 1500 Imperial Gallons
40-12-4500	1	Foam cell - 20 Imperial gallon
40-21-0500	1	3" tank to pump connection
40-22-0500	1	2" tank fill connection
40-23-0500	1	1" water level gauge connection
40-23-1000	1	1" foam level gauge connection
40-23-1040	1	4" direct fill connection
40-23-1060	1	10" Newton dump connection
40-30-0500	1	Sump drain valve (3" gate valve) with linkage E
40-30-1000	1	Water Fill Box front left corner
40-31-0400	1	Rear dump valve not requested E
40-31-8000	1	4" Storz rear gtd fill The rear fill is located in the back compartment close to the left wall, extended out just to clear roll up door for easy hose hook-up.
40-99-05AA	1	Dump Valve provision only There shall be one 10" x 10" dump valve provision only supplied. It will be capped for future use. Access hole and cover on the back wall of the back compartment shall be provided. SOPT 143
		ELECTRICAL
50-11-0400	1	Base electrical system - Spartan multiplex To match chassis multiplex (Weldon VMUX)
50-11-0600	1	Warning Light Certification
50-11-0700	1	Low Voltage Electrical system test
50-11-0800	1	Low Voltage Electrical System Documents As required by ULC and NFPA standards
50-11-0900	1	Rocker switch panel with master warning switch ***Rocker switch assignments: MASTER

PART NO	QTY	DESCRIPTION
		-LIGHT BAR RED
		-LIGHT BAR CLEAR
		-REAR BEACONS
		-FLASHING WARNING
		-LEFT SCENE
		-RIGHT SCENE
		-REAR SCENE
		-REAR FLOODS
50-11-2600	1	Siren to be accessible to driver and officer
50-11-6110	1	Whelen F4N72QLED light bar included with chassis 8R2C Layout 1
50-11-6600	1	Rear LED Traffic Advisor warning lights - surface mount Model TAL85 Control mounted adjacent to siren control in cab where space permits
50-11-8600	1	Rear LED beacons-Whelen MCFLED2R (pr) both red
50-12-8000	1	Additional body side intersection light not required Distance between front and rear side intersection light does not exceed 25'
50-12-8521	1	Front flashers, intersection lights included with chassis, Whelen 600
50-12-8610	1	Rear LED flashers (pr)-Whelen red LED 600 with integral flasher
50-12-8810	1	Body side inter lts (pr)-Whelen red LED 600 with integral flasher
50-21-1505	1	Unity LED rear floods (pr) There will be a pair of LED Rear flood lights installed on the rear hose bed area. These lights will not shed with the Total System Manager - required for ULC. SOPT 255a
50-21-2525	2	FRC telescoping SPECTRA LED 12V flood (ea) LED 12 volt telescoping flood light are installed on the back of the chassis cab. These lights are controlled by a switch on the light head and will be wired to shed through the TSM. Hazard switch (SW) included, wired to the equipment not stowed warning. FRC Model #SPA530-Q15-ON-SR-SW-A-NS Metalfab part number 1032039
50-21-5100	1	Compartment lighting - LED tube lights in each compartment (rollup doors) The low side compartment over the right side rear wheels shall have a single 4" LED grommet mounted compartment light.
50-21-5500	1	Door Ajar warning light - with Spartan chassis Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on"
50-21-5550	1	Equipment rack not stowed warning light Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on"
50-21-8001	1	Step lights for body steps - 4" LED Activated when park brake is set.
50-21-8600	1	LED clearance lts and reflectors
50-21-8800	1	LED intermediate turn signal/clearance/reflector length >30'
50-22-0700	1	Whelen 64 LED tail/brake-turn-backup module (pr)
50-31-6006	3	Scene lights (pr) - Federal QL97 LED Install on each upper side corner and rear upper corners of the body. To be controlled by three (3) switches in the cab - Left Scene, Right scene and Rear scene wired to shed though the TSM.
50-31-6010	2	Scene light boxes (pr) - painted job colour Install on each upper side corners of the body.

PART NO	QTY	DESCRIPTION
50-31-6505	1	Ground lighting included with chassis - LED Lumabar Activated when respective door is opened and by park brake.
50-31-6570	1	Ground lighting (LED Lumabar) - side mount body Activated when park brake is set.
50-31-65AA	1	Hose bed lighting - LED on front partition to meet ULC Activated when park brake is set. SOPT 958
50-35-0565	1	VHF antenna with base - custom chassis (thick roof) A VHF Antenna base will be installed on the chassis roof and the antenna lead will be run to the center dash area. The radio install will be performed by the fire department after the delivery.
50-35-0595	1	Cellular/TMR antenna with base - custom chassis (thick roof) A TMR Antenna base will be installed on the chassis roof and the antenna lead will be run to the center dash area. The radio install will be performed by the fire department after the delivery.
	1	BODY
60-10-1400	1	Single axle extruded aluminum body
60-10-4100	1	No "beavertail" rear step supports
60-10-4500	1	Price Adjustment
60-10-4600	1	Painted fender surround E
60-10-4700	1	Integral aluminum fender trim
60-10-5400	1	Diamondback pumphouse steps
60-10-5430	1	Diamondback 19" rear step
60-10-6000	1	Extruded rub rail
60-11-0300	1	Front left side compartments full height E
60-11-0600	1	Front right side compartments intermediate height
60-11-1000	1	Rear left side compartments full height E Through into back compartment in lower section
60-11-1300	1	Rear right side compartments intermediate height Through into back compartment in lower section
60-11-1900	1	Low side compartment (up to 18") each Right side
60-11-2000	1	High side compartment (over 18") each Left side
60-11-3200	1	Full Height Rear compartment
60-11-4500	1	Flush mount aluminum door - single with "D" handle
60-11-5500	1	Rollup door - standard height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point
60-11-5510	2	Rollup door - intermediate height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point
60-11-5520	3	Rollup door - full height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point
60-11-5655	1	Amdor Flex-HD pull down strap for left high side roll up door (L2) Include with door order Metalfab part number 1003066 Amdor part number AY-9355-18 For door opening height of 20" to 37" Installed on the following door

PART NO	QTY	DESCRIPTION
		Left side over rear wheels
60-11-5660	2	Amdor Flex-HD pull down strap for left high side door (L1 & L3) Include with door order Metalfab part number 1003068 Amdor part number AY-9355-36 For door opening height of 49" to 70" Installed on the following doors Left side front compartment door Left side rear compartment door
60-31-4100	1	Extruded aluminum handrails Minimum 2" clearance from handrail to any surface
60-31-5500	1	Lighted steps at rear of body (folding) Maximum height between steps is 18"
60-31-5600	1	Steps and grab handles at front of body next to pump panel Maximum height between steps is 18"
60-31-6500	1	Compartment matting-Turtle tile
60-31-8000	3	BA bottle compt (ea)-fender well
60-32-3550	1	Two adjustable hose divider (each) Hand hold required in end
60-32-7500	1	Hose bed - aluminum
60-33-0000	1	Paint exterior - Imron Elite *** Paint code and colour red to match red on cab ***Leave wheels factory powder coated WHITE***
60-33-0200	1	Undercoat vehicle with KROWN rust protection
60-33-0600	1	Chassis wheels not painted - leave as factory powder coated WHITE
60-33-1000	1	Paint pump and plumbing job colour
60-33-1500	1	Buffed finish compartment interior
60-33-2000	1	Lettering - no lettering provided
60-33-3000	1	Reflective stripe - 4" white 50% of perimeter each side and 25% of perimeter front
60-33-3310	1	Reflective stripe - red and yellow chevron at rear Minimum 50% of rear vertical surface
60-33-3500	1	Tarp over hose bed - black A hosebed cover will be provided and secured to top body flanges by quarter turn snaps at front of hosebed and Velcro on each side edge of the cover. A weighted flap will be furnished at the front of the cover, and Velcro straps will be provided on the rear of the cover to tie around the rear handrail.
60-33-4700	1	No crosslay preconnects on vehicle E
60-40-5500	2	Suction hose tube (each) with door For 80-11-5000 suction hoses (6" x 10") Door ajar switch required
60-41-1015	2	Pike Pole tube in suction hose tube A 2" ID storage tube for a pike pole is installed with access at the rear, in one corner of the suction hose tube. The pike poles will be customer supplied. Customer confirmed that their pike poles will slide into the 2" ID tube.
60-41-9000	1	Zico electric Ladder Access system Right side To house the 24' two section ladder 80-14-0500, the 14' roof ladder 80-14-5500, and the 10' attic ladder 80-14-8500 in the 80-14-9000 brackets.

PART NO	QTY	DESCRIPTION
		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 and wired to the equipment not stows warning light in cab.
60-41-9010	1	ZICO LAS switched at rear above tail light E Switch is located on same side as electric rack - right side
60-41-9100	1	Manual locking system for LAS Install information label at switch location to instruct operator to release locks prior to lowering the ladder.
60-42-05AA	1	Rear compartment pass through - lower section only The rear side compartments will have a pass through from side to side through the rear body compartment SOPT
	1	INSTRUMENTATION
70-11-0000	1	Warning Label on Pump Operator's Panel
70-11-0500	1	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
70-11-1500	1	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
70-11-3200	1	Colour coded tags
70-11-4100	1	Stainless steel side panel hood left side
70-11-4500	1	Diamondback grip type panel hood step right side
70-11-5100	1	Open storage top of pump house
70-11-5500	1	Right side tread plate pump access door No opening dimension less than 18" Slot required for Primer level viewing
70-11-7500	1	Heat pan-aluminum
70-11-8000	1	Heater in pump compartment
70-20-1500	7	2-1/2" pressure gauge - dual face 0-600 Gauge to be no more than 6" from edge of the gauge to the center of the control.
70-20-2500	1	Primer control
70-20-3300	1	FRC InControl Governor Control Throttle can be no lower than 42" and no higher than 72" from operator's standing position.
70-20-3500	1	Electric water level gauge on pump panel, Class One
70-20-6500	1	Test gauge panel
70-20-7500	1	Heat exchanger control valve
70-21-1500	1	Electric Foam Level gauge on pump panel, Class One
71-21-4500	1	Speaker on pump panel Flush mount speaker pre-wired to cab behind the switch panel
71-99-05AA	1	Microphone connection on pump panel A microphone connection shall be provided on the pump panel pre-wired to cab behind the switch panel. Customer will match our 1001316 panel mount RJ45 RJ45WPKIT1 weatherproof microphone jack SOPT 147
	1	ACCESSORIES
80-11-5000	2	6" x 10' lightweight suction hose (ea) Tube mounted

PART NO	QTY	DESCRIPTION
80-12-2700	1	6" floating strainer Not mounted, shipped loose - Customer will mount.
80-13-0500	1	Rubber mallet Not mounted, shipped loose - Customer will mount.
80-13-1000	3	Hose wrenches (double) with holder Mounted where space permits on left panel, right panel and on rear of body.
80-13-3000	1	Pike pole bracket Mount on ladder rack for customer D handle pike pole (please provide length)
80-14-0500	1	24' 2 section extension ladder PEL 24 Mounted on LAS
80-14-5500	1	14' aluminum roof ladder PRL-14 Mounted on LAS
80-14-8500	1	10' aluminum folding attic ladder FL-10 Mounted in 80-14-9000 on LAS
80-14-9000	1	Attic ladder bracket (Zico) Mounted on LAS
80-99-05AA	1	Hose reel for 1.5" dry lay FF Series Hannay Reels hose reel with electric rewind for storing 1-1/2" hose - minimum capacity of 250' of collapsible 1-1/2" hose. Mounted in back compartment on back wall as high as possible SOPT in file complete with ordering information and quote - Have Engineering confirm number and sizes before ordering
80-99-55AA	1	4" Storz to 2.5" swivel female with Cap & Plug - department thread Kochek Model S54R425 (w/special thread), and 2-1/2" plug as per SOPT 137 Not mounted, shipped loose - Customer will mount.