



Shop Order

Town of Sussex
 Town Office
 524 Main Street
 Sussex, NB E4E 3E4

Sales Rep: Gordon Green Metalfab Ltd.	Terms: Chassis Net 10 days, body and equipment COD
Drawing #: FT-11139 Est. Delivery Date: / / Customer PO #: 115550 Customer #: 73 QPF #:	Penalty: None

Quote No: Sussex, NB-0119
Job/Order No: 20812
 04/21/2020

PART NO	QTY	DESCRIPTION
	1	== <i>Metalfab Pumper - ULC 05/13 - 0.000</i> ==
	1	CHANGE ORDER F
00-10-1500	1	Metalfab Pumper E
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	Polypropylene Tank Lifetime Warranty
00-20-2800	1	100% Performance Bond within 20 days of receipt of order Due March 12.2019
00-20-3500	1	Certification for Fusion Welding of Aluminum
00-20-4000	1	Quality System registered to ISO 9001:2015
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
10-11-1101	1	ULC S515-13 and NFPA 1901-2016 Compliance E
10-11-1500	1	ULC Testing - Pumper Tested in Imperial units.
10-11-2100	1	Maximum length - 32' 06" (390")
10-11-2200	1	Maximum height - 10' (120")
10-11-2400	1	Overall length is 30' or more
10-11-2500	1	General Construction
10-11-2600	1	Preconstruction conference call at a time TBD A Pre-construction meeting will be held at the Town of Sussex at time to be determined (in place of a conference call). An updated drawing and pump panel layout will be supplied to the Customer after the Pre-construction meeting.
10-11-3000	1	Manuals - two copies ***Two copies of manuals are required.
10-11-3600	1	Price Adjustment

PART NO	QTY	DESCRIPTION
10-11-4000	1	Payment Terms - Chassis Net 10 days, Balance COD
10-20-1000	1	Hose bed capacity - standard ULC Pumper
10-20-2000	1	Equipment carrying capacity - standard ULC Pumper
	1	CHASSIS INFORMATION
20-11-1000	1	Chassis supplied by Metalfab - Spartan MetroStar MFD with 10" raised roof
		47,000 lb GVW 20,000 lb front axle 27,000 lb rear axle
		190" wheelbase 136" cab to axle 60" rear frame overhang (min)
		Cummins L9 380 hp @ 2000 rpm 2200 governed rpm
		1150 ft-lb torque @ 1400 rpm
		3000 EVS automatic transmission, 5 speed, LH/RH PTO openings
		270 Amp alternator
		1710 series drive line - Pump Jack-shaft included
		Engineering to confirm centerline of DSD pump intake is 80" to front axle, 110" to rear axle
		This was changed by engineering on 03.25.2019 to 91" because of the DSD pump.
		Changed to standard air pump shift included (code 5013-008) at pre-construction meeting of 04.02.2019.
		50 US gallon fuel tank located behind rear axle
		Top speed 68 MPH (plus/minus 2 MPH)
		Polished aluminum wheels (Dura-Bright LvL One)
		OnSpot traction chains included
		24" front bumper extension with gravel shield. Pre-plumbed for 2-1/2" front discharge RH/curbside.
		There shall be a front receiver centered under the front bumper provided by Spartan.
		Power for winch will be supplied as per 50-41-8565.
		The front bumper shall be equipped with a Q2B recessed siren on the left side and a 100 Watt speaker on the right side.
		The hose well (to have gas strut(s) and rubber latches) for the front pre-connect shall be fabricated and installed by Spartan. Metalfab will raise the top cover to allow more hose capacity as discussed with the department during their shop visit of 03.12.2020.
		The air horns are done by Spartan inboard of Q2B and 100-watt siren speaker.
		Dual Vista Touchscreen IV in cab - one left side, one right side.
		PPG two tone paint - FBCH 2185 white over FBCH 938357 red
		Spray-outs to be sent to the Customer for approval and signoff received 07.08.2019.
		Paint dividing line was confirmed at the Pre-construction meeting of 04.02.2019 to be Spartan's standard Classic Special paint line with an 1/2" reflective gold pinstripe. There will be no white under the windshield to match their last truck.
		SCBA seats in cab will be supplied with Bostrom SecureALL w/Quick Adjust brackets.
		Manual door locks, power windows
		Kusmaul Auto charge 40/15 and 12-volt pump (both behind rear facing seats by Spartan)
		One (1) 120 volt auto ejects with yellow cover - for battery conditioner and for oil pan heater as requested at pre-construction meeting of 04.02.2019
		LED headlights
		Single LED brow light center front - Whelen Pioneer PFH2
		PA4000 siren located in cab center console
		Two Antenna bases - RH and LH included as requested at the pre-construction meeting
		Include a 1200 cu nn auxiliary air (code 3305-001) for the Trident air primer.
		Additional items requested at the 04.02.2019 pre-construction meeting:
		5th gear start up
		Rear camera to be integrated with both Vista displays and officer display can still be used when the truck is in reverse
20-11-1500	1	2013 Emission chassis modifications
20-11-1700	1	Chassis Motor Vehicle Inspection required - NB
20-21-0500	1	Fluid capacity plate
20-21-0600	1	Pumping test plate
20-21-1040	1	Maximum riders sign - 6 persons - with chassis
20-21-1510	1	Seat belt warning labels - 4 door chassis - with chassis
20-21-1520	1	Helmet warning label - do not wear helmet - with chassis

PART NO	QTY	DESCRIPTION
20-21-1550	1	Tire Pressure Indicators included with the Spartan chassis Shipped loose from Spartan - Metalfab to install before delivery. The original valve stem cap will be shipped with the completed unit.
20-21-1600	1	Apparatus Information Label An information label is provided in the chassis cab, visible to the driver, stating in both Metric and Imperial units: "When manufactured, this vehicle was: ** m/ft high ** m/ft long ** kg/lb GVW Changes in height since the apparatus was manufactured shall be noted on this plate by the Fire Department"
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
20-21-4500	1	Transportation Safety Kit Basic First Aid Kit Safety Triangle 2-1/2 pound Fire Extinguisher (included with chassis)
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 two tone by Spartan The paint line will be special with a reflective gold stripe between both colors. The paint line will even with the bottom of the windshield - red to the bottom of the windshield and white above to match their last unit. The paint sample for the following were received at Metalfab 07.08.2019: PPG 938357 red and PPG 2185 white
20-31-47AA	1	Hose well in front gravelshield with lid - storage for 1-3/4" hose One (1) aluminum hose bin shall be installed in the front checker plate apron. The hose bin shall have a capacity to hold as much 1 .75" discharge hose as possible. Interlocking tile type matting shall be supplied and installed in the bin. One (1) raised checker plate cover shall be provided for the hose bin. The checker plate cover shall be hinged with a stainless steel piano type hinge, come with spring gas strut and rubber latch handles. The 50-99-10AA light will be mounted under the front edge of the raised compartment as discussed with the department at the shop visit of 03.12.2020 SOPT #112Rev1 - for reference only.
20-41-0900	1	Auxiliary braking system disabled when pumping
20-41-1100	1	Transmission programming - Allison WT
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. *****Where the chassis exhaust piping passes under or near a body compartment, the exhaust piping shall be shielded to prevent compartment exposure to radiant heat.
20-41-1900	1	Battery boost terminals with chassis E
20-41-2000	1	Chassis batteries remain in OEM location
20-41-25AA	1	Signature4 fuel fill assembly with brushed stainless steel door 101426-11 Labeled "DIESEL FUEL ONLY" SOPT in file
20-41-2600	1	Chassis fuel tank remains in OEM location
20-41-5010	1	Rear Tow Hooks - through rear of body E Two (2) heavy duty steel painted tow hooks shall be bolted directly to the rear frame rails

PART NO	QTY	DESCRIPTION
		easily accessible from the rear of the apparatus body (in back compartment) through a removable panel. The panel shall have lift and turn latches (2). The door shall be manufactured from 3/16" 5052 - H32 smooth aluminum and be painted with Gray Zolatone to match compartment interior.
20-41-5200	1	Rear trailer wiring - standard 7 pin connector
20-41-52BB	1	Class V rear receiver, rated at 10,000 lb minimum, 2" ID SOPT in file - reference only
20-51-0700	1	Master Battery Disconnect included with chassis
20-51-2500	1	Back up alarm included with chassis
20-51-3400	1	Protection valve installed for air operated accessories
20-51-4000	1	Auto eject for air inlet - LS There will be an auto eject air connection supplied and installed on the chassis cab between the front driver and rear driver door - beside the 110-volt auto eject. As requested and approved by Chief Bill Wanamaker by e-mail on 02.27.2020
20-51-6200	2	120 volt 20 A shore line connection Standard 5-20R duplex receptacle in chassis cab, not fused 1. For the gang charger to plug into - the outlet is to be installed on the officer side of the dog house 2. In the R1 compartment as high as possible - front right side upper corner As discussed with the department at the shop visit of 03.12.2020
20-51-6501	1	Kussmaul battery charger with the Spartan chassis
20-51-7102	1	Electric System Management included with chassis - VMUX
20-51-9001	1	Air horns included with the Spartan chassis The air horns will be supplied and installed by Spartan.
20-52-3500	1	Chassis steering wheel lined up by Metalfab E
20-60-0400	1	Chassis wheelbase does not change
20-99-05AA	1	Chassis wheels re-aligned after body is installed After the body has been installed, the chassis shall have the wheels re-aligned. SOPT #1220
20-99-15AA	1	Price Adjustment
		PUMP AND PLUMBING
30-11-3802	1	Hale DSD midship pump - 1250 IGPM Mechanical seal is standard on this pump.
30-15-0304	1	Plumbing - non manifold pump SM SS E
30-20-0500	1	Valves and controls - side mount panel
30-20-1002	1	Akron valves specified
30-20-1620	1	Piping stainless steel - non manifold Pumper
30-20-1700	1	1-1/2" thread specifications - NPSH
30-20-1800	1	2-1/2" thread specifications - 3.00x8 The Fire Department specified the threads that shall be provided for the 2-1/2" discharges and the 2-1/2" suction inlets will be 3.00x8. Sample hose couplings was provided at the pre-construction meeting 04.02.2019 and given to Inventory Control.
30-20-2000	1	Piping hydrostatic test
30-20-2510	1	Anodes in suction and discharge piping - non manifold pump 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.
30-21-5580	1	Tank to Pump SS 3" w/ check valve non manifold pump

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30-31-4020	1	Suction - 6" gated each side SS non manifold pump 6" header
30-31-7200	2	Hale master intake suction valve - electric control Left and right 6" intakes are to be gated. Electric controls are located on left side operators panel, manual over ride controls will be located by the respective MIV.
30-32-7550	1	Suction - 2-1/2" left side SS, bleeder, non manifold pump
30-40-2007	1	5" right discharge, plumbed 3", non manifold pump, SS, Bleeder 5" 30 degree Storz connection and blind plug. Customer confirmed at pre-construction meeting on 04.02.2019 that 5" connection and end cap is required.
30-41-2040	1	2-1/2" RS discharge SS, bleeder, non manifold pump Include 2-1/2" x 1-1/2" reducing cap complete with 1-1/2" chrome cap (to replace the standard 2-1/2" CP Cap).
30-41-2540	2	2-1/2" LS discharge SS, bleeder, non manifold pump Include 2-1/2" x 1-1/2" reducing caps complete with 1-1/2" chrome caps (to replace the standard 2-1/2" CP Caps).
30-43-1520	1	2-1/2" rear discharge SS, plumbed 2-1/2", bleeder Left side. Include 2-1/2" x 1-1/2" reducing cap complete with 1-1/2" chrome cap (to replace the standard 2-1/2" CP Cap).
30-44-0720	2	1-1/2" speedlay (each) front of pumphouse SS, plumbed 2" Two (2) speed lay hose beds shall be provided and installed transversely at the front of the pump house. The speed lay bed floors shall be slotted to allow for drainage of the hoses. Two (2) removable trays shall be included in the speed lay hose beds. The trays shall be manufactured from 1/8" 5052-H32 marine grade aluminum. The trays shall have slots cut for handholds on each side of the trays. The trays shall be removable from either side of the apparatus and capable of holding 200' of 1 3/4" fire hose. One (1) stainless steel roller shall be provided for each side of the speed lay beds to aid in extraction / protection of the discharge hose. The rollers shall be mounted lower horizontal each side of the speed lay beds. The speedlays will be behind the rollup door(s) and will not require end tarps.
30-44-1150	1	2-1/2" front discharge, SS piping, bleeder This discharge shall be equipped with a gated wye (80-16-1500) to accommodate two 1-1/2 inch discharge lines. SOPT #595SS - reference only.
30-44-6520	1	Piping for monitor SS, plumbed 3", bleeder, slo-close Located in open storage over pump house to house the monitor and riser 80-99-30AA. A manual drain to help remove remaining water and avoid freezing shall be included on the pump panel Plumb so monitor does not protrude above the top of body when the extend-a-gun and monitor is in the stowed position.
30-51-0500	1	Pump shift-Midship air ***Include "Pump Engaged" and "OK to Pump" indicator lights in chassis cab. ***Include "Throttle Ready" indicator light on Pump operating panel. There will be a standard air pump shift supplied and installed on the console.
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
30-51-7002	2	Suction side relief V/V, non manifold pump One for the left side MIV-E and one for the right side MIV-E.

PART NO	QTY	DESCRIPTION
30-51-7716	1	Trident Automatic Air Primer 3 barrel 3 location Location #1 - main pump Location #2 - Left side 6" intake pre-primer Location #3 - Right side 6" intake pre-primer
30-51-7720	1	Additional air tank for air primer system An additional air tank is provided to improve air primer capacity Included with the Spartan chassis.
30-51-8100	1	Heat exchanger included with chassis
30-51-8500	1	Pump cooler with control valve, check valve
30-52-1000	1	Master drain V/V, 12 port
30-52-2000	1	Drain valve for foam system header
30-52-4310	1	Foam System - Hypro FoamPro 2002 Dual Tank Customer specified at the pre-construction meeting of 04.02.2019 that the following discharges are to be foam compatible: Speedlay #1, Speedlay #2 (30-44-0720), front trashline (30-44-1150) and rear 2.5" (30-43-1520).
30-52-6500	1	FoamPro dual tank selector valve (manual)
30-52-9100	2	Foam concentrate label at foam tank fill
30-52-9200	1	Foam System Instruction Plates
30-52-9400	1	NFPA Foam System certification test
30-99-15AA	1	Tank fill 3" SS - 3" piping The tank fill will be a 3" valve, SS with 3" piping. SOPT 240
	1	WATER AND FOAM TANKS
40-11-2100	1	Polypropylene water tank (Imperial gallons)
40-11-2200	1	Water tank capacity certification (tank manufacturer)
40-11-5000	1	Tank capacity 950 Imperial Gallons Tank shall have capacity of 950 Imperial gallons of water, with two (2) 25 gallon foam cells for a total water and foam capacity of 1000 Imperial gallons.
40-12-5000	1	Foam cell - 25 Imperial gallon - Class A
40-12-5000	1	Foam cell - 25 Imperial gallon - Class B
40-21-1000	1	4" tank to pump connection
40-22-1500	1	3" tank fill connection
40-23-0500	1	1" water level gauge connection
40-23-1000	2	1" foam level gauge connection
40-23-1050	1	4" Fireman's Friend connection
40-23-1060	1	10" Newton dump connection
40-30-0500	1	Sump drain valve (3" gate valve) with linkage E Located left side of tank so no interference with drive line or exhaust.
40-30-1000	1	Water Fill Box front left corner
40-31-4500	1	10" rear Newton dump, painted steel
40-31-4600	1	Newton dump, side mount manual operation, painted steel Lock open device is required
40-31-5000	1	Newton dump - 36" telechute painted steel
40-31-9000	1	4" Storz rear fill, Fireman's Friend Located right of dump line in back compartment. 4" 30 degree Storz connection with blind cap. Customer confirmed at the 04.02.2019 pre-construction meeting that 4" is the connection size; They use adapters to other hose sizes when required.
	1	ELECTRICAL
50-11-0400	1	Base electrical system - Spartan multiplex

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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
50-11-2600	1	Siren and speaker by Spartan PA4000 with 100 watt siren speaker. Chassis is also equipped with a Q2B siren recessed in the front bumper with controls in cab. Changed as discussed at the pre-construction meeting of 04.02.2019
50-11-6110	1	Whelen light bar included with chassis F4N72QLED 6 Red, 2 Clear Customer approved WeCad lightbar layout at the 04.02.2019 Pre-construction meeting. The white lights will be deactivated when the park brake is applied.
50-11-7600	1	Rear LED Signal Master warning lights - SL8S-A w/shield One (1) Federal model SL8S-A directional light shall be mounted at the rear of the vehicle as high as possible for best visibility. The light shall be controlled by a SMC1 control box mounted in the cab center dash. The control box generates four patterns; left arrow, right arrow, center out and flashing warning patters. The traffic control directional light shall have a protective hood to prevent damage to the light when hose is pulled off the back of the unit. The hood shall be manufactured from aluminum checker plate. The control module will be installed in the center dash portion.
50-11-8640	1	Whelen L31HRFN LED red rear beacons (pr) SOPT #9
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
50-12-86AA	1	Rear LED flashers (pr) Whelen amber 700 series C7LA w/chrome flange - upper Located above rear facing Scene lights SOPT #1074
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) Switched in cab and on light head. The lights cannot be managed as they are required for ULC.
50-21-5100	1	Compartment lighting - LED tube lights in each compartment (rollup doors)
50-21-5500	1	Door Ajar warning light Included with chassis - door ajar indicator light overhead of doghouse. Vista display will also indicate door ajar and monitor not stowed warnings. 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 as required Switched when park brake is set.
50-21-8201	1	Step lights for chassis steps - LED - included with chassis Switched when park brake is set.
50-21-8600	1	LED clearance lts and reflectors
50-21-8605	1	Cast Products polished aluminum license plate holder with LED lighting
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)
50-31-6024	1	Scene lights (pr) FRC SPA260-Q20 LED surface mount 12-Volt - one each side One each side centered on upper part of body side.

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		Switched by Vista in cab (Left side scene, Right side scene) These lights can be managed to shed. SOPT #1168
50-31-6060	1	Whelen M9 LED scene lights (pr) - M9LZC - rear facing Located below amber flashers on rear. Switched in cab (Vista) and when transmission is in reverse gear. These lights cannot be managed to shed. SOPT #571
50-31-6505	1	Ground lighting included with chassis E Switched when park brake is set.
50-31-6570	1	Ground lighting (LED Lumabar) - side mount body Switched when park brake is set.
50-31-6595	4	Install LED Lumabar ground lights under compartments (ea) - L1, L3, R1 & R3 Switched when park brake is set.
50-35-0565	1	VHF antenna with base - custom chassis (thick roof) There will be two(2) bases included with the chassis as discussed at the pre-construction meeting of 04.02.2019.
50-35-1000	1	Supply and install 16 channel mobile radio - Motorola Motorola CM200d. Radio information sheet to be filled out at Pre-construction for radio mounting location, frequencies, wired battery direct or through master disconnect, etc. The radio is to be installed in the chassis dash and leave room for the future installation of a provincial TMR radio. The radio is to be wired to the master battery disconnect as discussed at the 04.02.2019 pre-construction meeting.
50-41-5260	1	12-Volt power point for winch - by rear receiver Dust shield included SOPT #283a
50-41-8565	1	12-Volt power point for winch - by front receiver Dust shield included SOPT #283a
50-99-10AA	1	Front gravelshield hosebin illumination - H20 LED Lumabar The front hose bin shall be illuminated by an Amdor H20 LED light with clear lens. Located on the underside of the cover unless otherwise specified. Length of light to be determined when hose well design is completed. Light to be as long as possible (40" requested). Switched when park brake is set.
50-99-15AA	1	Hose bed cover lights - 40" LED lumabars x 4 Located on the underside of the hose bed covers - two for each cover. Switched when park brake is set. SOPT #209
51-31-4500	1	Dielectric strength test for line voltage system
	1	BODY
60-10-1400	1	Single axle extruded aluminum body
60-10-15AA	1	1" drop on lower edge of compartment floor - sweep out type SOPT #1236
60-10-4100	1	No "beavertail" rear step supports
60-10-46AA	1	Deckplate rear fenders and removable inspection plates in fender liners The deck plate fender well face will be welded in as per Metalfab standard. There will be

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		bolt on sections at/adjacent to spring suspension pins for maintenance SOPT #1149
60-10-4700	1	Integral aluminum fender trim
60-10-5400	1	Diamondback pumphouse steps
60-10-5440	1	Diamondback 12" rear step
60-10-6500	1	Bolt on extruded aluminum rub rail w/reflective stripe There will be a white reflective stripe installed in the rub rail.
60-11-0300	1	Front left side compartments full height E
60-11-0700	1	Front right side compartments full height E
60-11-1000	1	Rear left side compartments full height E
60-11-1400	1	Rear right side compartments full height E
60-11-2000	2	High side compartment (over 18") each
60-11-3200	1	Full Height Rear compartment
60-11-5500	2	Rollup door - standard height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point
60-11-5520	5	Rollup door - full height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point
60-11-5530	1	Price Adjustment
60-11-5530	2	Rollup door - to enclose pump panel - each side There will be one (1) rollup door each side of the pump house and it will cover the speedlay 30-44-0720. Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point
60-11-5655	2	Amdor pull straps - Flex HD for roll up doors L1, L3, R1 and R3 Order with doors
60-11-5660	4	Amdor pull straps - Flex HD for roll up doors L2 and R2 Order with doors
60-31-4100	1	Extruded aluminum handrails Minimum 2" clearance from handrail to any surface
60-31-5500	1	Steps at rear of body (folding) with LED lights Four left side, one right side. Maximum height between steps is 18"
60-31-5800	1	Special step over rear compartment There will be a step over the rear compartment to facilitate the opening of the hose bed covers as suggested by production after the installation of the hose bed covers 60-33-5000
60-31-6500	1	Compartment matting - plastic interlocking tile
60-31-8003	4	Fender mounted double SCBA tubes with brushed stainless doors (CPI) Install rubber matting in bottom 1/2 of the tube and end to protect the cylinders. Door ajar switch required. Nylon loop required to secure the SCBA cylinder in place.
60-31-8210	2	Sliding vertical tool board - gas strut There will be two pull out tool boards supplied and installed in the L3 compartment. 1. The tool board will be installed as closely the right side wall as possible and will carry four (4) customer supplied Res-Q Jacks that measure 7" x 4" at the base, 54" tall and the upper area will require 12" of depth for the crank handle. There will be a pocket at the base and a PAC 1070 bracket at the top to hold each of them in place. 2. There will be a shorter tool board beside the first one to hold four (4) Auto-Crib units per side (two Model AC-17 and two Model AC-14 per side). There will be a pocket at the base and a PAC

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		K5008 bracket at the top to hold all four (4) of them in place. Auto Crib It Model AC-17 measures 36" L x 6.25" W x 5" thick Auto Crib It Model AC-14 measures 28" L x 5" W x 4.5" thick See pictures on O:/Metalfab/Road/Sussex 2019 for pictures and measurements taken at Fire Department shop visit of 03.12.2020
60-31-8400	1	Fixed vertical partition There will be a vertical partition supplied and installed in the L3 compartment to separate the adjustable shelves 60-31-9600 and the pull out tool boards 60-31-8210 as discussed with the fire department at the shop visit of 03.12.2020
60-31-9600	6	Adjustable shelf (ea) Customer specified the shelf location and if full depth or shallow depth at the 04.02.2019 pre-construction meeting: Shelf #1 - L1 - Full Depth Shelf #2 - L1 - Full Depth Shelf #3 - L3 - Full Depth - mounted ahead of the vertical partition 60-31-8400 Shelf #4 - L3 - Full Depth - mounted ahead of the vertical partition 60-31-8400 Shelf #5 - R1 - Shallow Depth Shelf #6 - R3 - Shallow Depth Reflective stripe is applied on the exposed edge for visibility when the compartment door is open As confirmed at the department shop visit of 03.12.2020
60-32-3500	1	One adjustable hose divider There will be one (1) hose bed divider supplied and installed as discussed at the pre-construction meeting of 04.02.2019. Hand hold required in end
60-32-7500	1	Hose bed - aluminum The hose bed slats will be standard aluminum as per Metalfab standard as discussed at the pre-construction meeting of 04.02.2019.
60-33-0100	1	Paint exterior - Imron Elite and clearcoat E *** Paint code and colour red to match red on cab ****Clear coat required****
60-33-0200	1	Undercoat vehicle with KROWN rust protection
60-33-05AA	1	Pocket storage in L3 compartment There will be a pocket storage to the right of the vertical partition 60-31-8400 and above the shorter tool board 60-31-8210 to use the empty space. As discussed with the Fire Department at the shop visit of 03.12.2020
60-33-0600	1	Chassis wheels not painted Spartan supplied wheel trim will be installed.
60-33-1000	1	Paint pump and plumbing job colour
60-33-10AA	1	Install customer supplied tray hardware and Metalfab built tray in R1 Metalfab will install the customer supplied 600lb capacity SlideMaster hardware in the R1 compartment (sliding hardware and mounting hardware were logged into the parts room on 03.12.2020). Metalfab will build a tray with a full height back vertical face to be installed on the sliding hardware. The back portion of the tray will be used for the department to mount extrication hand tools after delivery. As discussed at the Fire Department shop visit of 03.12.2020
60-33-1600	1	Special paint compartment interior - gray zolatone E The compartment interiors are finished with a gray textured paint for chip resistance. Shelves, trays and hardware are left natural aluminum. ***The access plate on back wall of back compartment to be Zolatoned***

PART NO	QTY	DESCRIPTION
60-33-2200	1	<p>Lettering - 80 letters up to 3" tall - 3 colour *** Vinyl letters, Fire Department to provide details on location and text.</p> <ul style="list-style-type: none"> - Door decal on front chassis door "Sussex Fire Dept." - Door decal on rear chassis door - Maltese Cross over "Pumper No.4" - "911" in red reflective above the reflective stripe on L3/R3 compartment door - "Keep Back" over "150M" in white reflective w/black outline on nack compartment door <p>As approved by Bill Wanamaker to Luke Shaw on 03.23.2020</p>
60-33-22AA	1	<p>Additional lettering There will be the following additional lettering supplied and installed as approved by Bill Wannamaker to Luke Shaw on 03.23.2020</p> <ul style="list-style-type: none"> - "Pumper" and "No.4" above the windshield and "Sussex under the windshield - Canadian flag in non-reflective above the rear entry door - Smoke detector message on R1 and L1 doors - "Proudly serving since 1893" on upper sides of the body
60-33-3300	1	<p>Reflective stripe - 4" with 1" accent stripe below 50% of perimeter each side. 3M Scotchlite material 4" stripe only on front cab to meet ULC - department does not want it on the bumper The sides will have 4" and 1" below - see pictures in O:/Metalfabphotos/road/Sussex 2019. Reflective stripe in rub rails as requested at pre-construction meeting of 04.02.2019 Customer to approve all stripping design and layout.</p>
60-33-3310	1	<p>Reflective stripe - red and yellow chevron at rear - printed vinyl Minimum of 50% of rear face of body to be covered The shade of yellow will be different than Metalfab standard therefore the department will need to approve a sample prior to ordering.</p>
60-33-5000	1	<p>Aluminum cover over hose bed with end tarps - black E Rear flaps with Velcro straps will be provided on the rear of the cover to tie around the rear handrail and/or footman's loops.</p>
60-40-5500	2	<p>Suction hose tube (each) with door One each side above compartments for storage of the customer supplied 6" x 10' suction that are Kocheck and measure 124-1/2" long x 14" across at the handles. Smooth painted doors with lift and turn latches. Door ajar switches required. As discussed at the pre-construction meeting of 04.02.2019</p>
60-40-9000	1	<p>Tube mount for ladders, with rear door Rear access right side for storage of the 24' Duo Safety extension ladder 80-14-0505 and the 14' Duo Safety roof ladder 80-14-5510. Smooth painted door with "D" handle type latch. Door ajar switch required.</p>
60-41-1000	2	<p>Pike Pole tube integral with ground ladder tube For storage of the two 12' pike poles 80-13-2516</p>
60-41-1015	2	<p>Pike Pole tube in suction hose tube For storage of Customer's pike poles. Note: tubes are 2" inside diameter.</p>
60-41-1500	1	<p>Attic ladder tube integral with ground ladder tube For storage of the Duo Safety 10' attic ladder 80-14-8510</p>
	1	INSTRUMENTATION
70-11-0000	1	Warning Label on Pump Operator's Panel
70-11-0501	1	<p>Side mount instrument panel with rollup door on each side There will be a rollup door on each side pump panel. No gauge or visual display can be higher than 84" above the operator's standing position</p>

PART NO	QTY	DESCRIPTION
		Midpoint of any control cannot be higher than 72" above the operator's standing position *** <i>(For Metalfab's internal information - use phantom # 570-11-0500)</i> ***
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 The pump panel will be the Metalfab standard as discussed at the 04.02.2019 pre-construction meeting.
70-11-3200	1	Colour coded tags The color codes for the following lines are to be: 30-44-1150 - 2.5" front bumper discharge - orange 30-44-2720 - speedlays - red and yellow As discussed at the pre-construction meeting of 04.02.2019
70-11-5100	1	Open storage at rear top of pump house Lighting will be installed to meet ULC. Floor to have drain holes installed. Floor will be covered with plastic interlocking tile.
70-11-5500	1	Right side pump access panel or door No opening dimension less than 18"
70-11-7500	1	Heat pan-aluminum - extreme weather type
70-11-8000	2	Heater in pump compartment The heaters shall be mounted low in the pump house so that the heat will be distributed evenly in the pump house and will keep the drain lines open. An ON/OFF switch with indicator light will be installed on the pump panel.
70-11-8200	1	Rubber seal around suction and discharge openings on panels SOPT #483
70-20-2130	9	2-1/2" pressure gauge/control rod assembly - dual face 0-400 - Thuemling Gauge to be no more than 6" from edge of the gauge to the center of the control.
70-20-2500	1	Primer control
70-20-2501	2	Additional Primer control One for the left side 6" inlet pre-prime One for the right side 6" inlet pre-prime
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.
70-20-3660	1	Electric water level gauge on pump panel and on rear WLA300 series SOPT #59 - Truck Specific
70-20-6500	1	Test gauge panel
70-20-7500	1	Heat exchanger control valve
70-20-7600	1	Pump cooler control valve
70-21-1650	1	Electric foam level gauge on pump panel - WLA360-A00 for the Class A cell
70-21-166A	1	Electric foam level gauge on pump panel - WLA370-A00 for the Class B cell
		ACCESSORIES
80-12-2500	1	6" barrel strainer Not mounted - shipped loose. Customer will mount in Customers bracket(s)
80-13-0500	1	Rubber mallet Not mounted - shipped loose. Customer will mount in Customers bracket(s)
80-13-2516	2	12' pike pole with fibregass handle Tube mounted (one in left suction tube and one in right suction tube)

PART NO	QTY	DESCRIPTION
80-14-0505	1	Duo Safety 24' two section ladder Tube mounted
80-14-5510	1	Duo Safety 14' roof ladder Tube mounted
80-14-8510	1	Duo Safety 10' attic ladder Tube mounted
80-16-1500	1	Akron 2581 gated wye for the front 2-1/2" discharge Mounted on the 30-44-1150 front discharge. Order with Customer's thread on the 2-1/2" inlet side and 1-1/2" NPSH on the two outlets. There will be one (1) 1.5" end cap supplied to cap the one side of the gated wye that will not be pre-connected as discussed at the pre-construction meeting of 04.02.2019.
80-99-05AA	1	4" Storz to 2-1/2" swivel female adapter - Kocheck S54R425-Q52 Supplied only for the rear fill. Shipped loose. SOPT #137 - Order swivel and plug with Customer thread. Kocheck adapter - 1501464 CP Plug - 1500262
80-99-10AA	1	Snap cover, cap for rear exposed unistrut in hose bed A 10' piece of "snap cover" (1100360) for the rear hose bed track (unistrut) shall be supplied to prevent the hose couplings from catching the track. The snap cover shall be shipped loose for customer installation after the hose bed dividers have been set up. SOPT #1150
80-99-15AA	1	Streamlight 5 bank charger and five handheld Survivor 90503 LED hand lights Five (5) bank 12 volt charging unit and five (5) handheld Survivor 90503 Rechargeable LED hand lights to be supplied and installed with the position being determined by the Fire Department. Charging unit shall be 12 volt and capable of charging while apparatus is not running (i.e. wired battery direct). SOPT #406 Customer specified the mounting location at the pre-construction meeting of 04.02.2019; To be mounted on the rear edge of the dog house near the rear facing SCBA seats.
80-99-20AA	1	PAC Handlelok brackets (20) A twenty (20) package of Pac Tool Handlelok Tool Mounts to be supplied and shipped loose for Customer mounting. SOPT #406 - Truck specific
80-99-25AA	1	Zephyr Industries Holmatro tool holders for spreader, cutter, ram, combi tool SOPT #1179 - Truck Specific Zephy Industries or equivalent to be provided to hold the Fire Department's Holmatro spreader/cutter/ram/combi tool. Location of installation to be determined at time of manufacture. The tools should be installed on the floor with the handle standing up for easier deployment as discussed at the pre-construction meeting of 04.02.2019. The list of tools are: o Spreader - 31" long x 12" wide x 8" thick o Cutter - 32" long x 11" wide x 8" thick o RAM - 22" long x 15" tall x 6" thick o Combi - 28.5" long xx 8.5" wide x 7" thick See pictures in O:/Metalfabphotos/road/Sussex2019 There is to be room in the middle of the tray to house a power unit that measures 23"x11" as discussed at the Fire Department shop visit of 03.12.2020
80-99-30AA	1	TFT XFC-62 Crossfire Monitor package, ground base, extend a gun, tips, etc. Task Force Tips Crossfire model #XFC-62 portable lightweight monitor package consisting of monitor, Safe-Tak portable ground base, stacked tips, stream straightener,

PART NO	QTY	DESCRIPTION
		<p>Master Stream 1250 series nozzle, and base storage bracket, Extend-A-Gun and installation bracket set shall be supplied.</p> <p>Kit includes:</p> <p>***Task Force Tips Crossfire, model # XFT-** (Customer thread) portable monitor - order with Customer threads for 2-1/2" outlet.</p> <p>***Task Force Tips Master Stream 1250, # M-R1250S-** (Customer thread) automatic master stream nozzle</p> <p>***Task Force Tips FJ-LX-M low expansion air aspirating attachment shall be included with the package. This attachment shall be shipped loose.</p> <p>***Task Force Tips model # XF-SS5 stream straightener shall be supplied. Order female inlet and male outlet with Customer thread.</p> <p>***Task Force Tips model # MST-4** (2-1/2" female inlet - Customer thread) smooth bore stacked tip set.</p> <p>***Task Force Tips model # XG12VL-XL manually telescoping waterway.</p> <p>Wire the sensor to the door ajar indicator light in the cab.</p> <p>***Task Force Tips Safe-Tak 1250, model # XFH-2** (Customer thread) dual inlet with flow safety valve.</p> <p>***Stow-A-Way 800 series portable base XF-B.</p> <p>Location of storage bracket shall be determined at the final inspection:</p> <hr/>
80-99-35AA	1	<p>Warn Multi Mount 9000 lb winch</p> <p>SOPT #141b and Quote in file</p> <p>The apparatus shall be equipped with a Warn 9000 lb winch. The winch shall come with a carrier basket designed to be mounted in a receiver hitch.</p> <p>The winch shall have a rated pull of 9,000 lbs. The capacity was changed on 09.06.2019 due to availability from the supplier.</p> <p>The winch shall be equipped with 125 feet of 5/16" galvanized cable.</p> <p>The winch shall come with a Hawse fairlead roller system</p> <p>The control for the winch shall be with a plug-in remote control unit. The unit shall have 12 feet of remote control cable, with forward, neutral, and reverse dead man type hand control.</p> <p>Also supplied will be a wireless remote controller 1521714 (to meet ULC)</p> <p>Mounted in a compartment or location as directed by the Customer at final inspection.</p> <hr/>
80-99-40AA	6	<p>PAC brackets for stabilization tools</p> <p>There will be four (4) PAC 1070B brackets used to mount the department supplied Res-Q jacks on the tool board 60-31-8210 and two (2) PAC K5008 brackets used to mount the department Auto Crib units to the tool board 60-31-8210 (one bracket per side of tool board). As discussed with the Fire Department at the shop visit of 03.12.2020</p>