



Shop Order

Carrier Truck Center Inc.
 O/A Carrier Centers
 645 Athlone Place
 Woodstock, ON N4S 7V8

Brockton Municipal Office
 100 Scott Street
 Walkerton, ON N0G 2V0

Exp. Date: 12/28/2017
Quote No: E-Brockton-ON-0024
Job/Order No: 20120
BODY: 00-10-15 Metalfab Pumper - ULC 05/13

03/06/2019

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PART NO	S	DESCRIPTION	QTY	ID
	S	== Metalfab Tanker- ULC 05/13 - 0.000 ==	1	MTL
	S	CHANGE ORDER I	1	MTL
00-10-1500	S	Metalfab Tanker	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	S	Quality System registered to ISO 9001:2015	1	MTL
00-20-4500		Fire Apparatus Manufacturers' Association Membership	1	MTL
		GENERAL INFORMATION	1	MTL
10-11-0000		Intent E	1	MTL
10-11-0110		Vehicle data recorder included with chassis	1	MTL
10-11-1101	S	ULC S515-13 and NFPA 1901-2016 Compliance	1	MTL
		Include the following to comply with NFPA 1901-2016		
		Any verbiage to be bilingual (English/French)		
		**Safety signs with text to meet Section 4.9.4		
		**Brake lights to operate with the engine auxiliary brake (Section 12.3.1.4.3).		
		**Safety delineation for standing and walking surfaces to meet Section 15.7.1.6		
		**Hose restraint safety signs at each hose storage area to meet Section 15.10.6		
10-11-1500	S	> ULC Testing - Tanker	1	MTL
		ENG. NOTE:		
		Note in the shop note if the Fire Department wishes to witness the test		
10-11-2100		Maximum length not specified E	1	MTL
10-11-2200	S	Maximum height - 12' (144")	1	MTL
10-11-2400		Overall length is 30' or more	1	MTL
10-11-2500		General Construction	1	MTL
10-11-2600	S	Preconstruction Meeting - by CCEV	1	MTL
10-11-3000		Manuals - two copies	1	MTL
		***Two copies of chassis manuals are required.		
10-11-3600	S	> Delivery - FOB Fire Department - by CCEV	1	MTL
		ENG. NOTE:		
		Note in the shop note if more than 4 hours of training is required		
10-11-4000	S	Payment Terms - Chassis Net 10 days, Balance COD less 10% holdback for 45 days	1	MTL
10-20-1400	S	> Hose capacity exceeding ULC/NFPA requirements - Minimum 55 cu ft and 10 ft long	1	MTL
		ENG. NOTE:		
		Specify the type of hose and quantity of hose to be carried on the vehicle		

PART NO	S	DESCRIPTION	QTY	ID
		The hose bed shall be designed to have a storage capacity for a minimum of 55 cubic feet of fire department supplied fire hose and be minimum 10 feet in length.		
10-20-2200		Equipment carrying capacity - standard ULC Tanker This vehicle is designed to carry the standard ULC miscellaneous equipment load of 1000 pounds for a Tanker.	1	MTL
		CHASSIS INFORMATION	1	MTL
20-11-10AA	U	Chassis supplied by Metalfab - Freightliner M2 106 two seating position 45,600 lb GVWR 14,600 lb front axle 31,000 lb rear axle 218" wheelbase 152.45" cab to axle Cummins L9 330 HP @ 2000 rpm 2200 governed rpm 1000 lb/ft torque at 1400 rpm 3000 EVS automatic 5 speed transmission, 275 amp alternator 189 litre fuel tank - LH ESC, VDR, and seatbelt indicator Auxiliary air tank LED headlight and marker lights Red - Color to be determined - sprays to be sent to Customer for approval Cab door locks to be disabled (Nova) 24" bumper extension (Nova)	1	
20-11-1500		2013 Emission chassis modifications	1	MTL
20-11-1600	S	Chassis Motor Vehicle Inspection and registration by CCEV	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	1	MTL
20-21-153A	U	Helmet warning label - Do not store helmets in cab	1	
20-21-15AA	U	Wireless tire pressure indicator with readout on cab console SOPT #5	1	
20-21-1600		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"	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 E	1	MTL
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 Vertical trim only, OEM cab steps remain	1	MTL
20-31-1900	S	Chassis cab painted single color red by chassis OEM	1	MTL
20-31-4700	S	> Extend front bumper, gravel shield ENG. NOTE: Note location of preconnect elbow Note special capacity requirements _____ ***Bumper to be extended (modified) approximately 20" ahead of cab. Include a hose well with cover and slot for hose, gas strut and lift and turn latch See also 30-44-1140.	1	MTL
20-31-7500	S	Console in cab Install switch panel (50-11-0900), siren (50-11-1400), PTO shift (30-51-1500, PTO hour meter (70-21-2100), Wireless tire pressure indicator readout (20-21-15AA), Elkhart electric control for the front 2-1/2" discharge (30-44-1140), and Traffic Advisor controller (50-11-66AA) in console.	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		<p>Console to have allowance for the future installation of controls (joystick) for an Elkhart Sidewinder monitor and a cutout for a Kenwood NX 5700 radio (Customer supplied and installed).</p> <p>Storage area with hinged cover and lift and turn latch provided at rear of console for storage for 6 inches (thick) of letter sized binders for miscellaneous paperwork and clip boards.</p> <p>Provide in the center console a compartment with cover for radios and flashlights on charger.</p> <p>Customer approved dimensions of storage where components to be stored</p> <p>Shore power (20-51-6200) to be provided for radios, flashlights and computer/table adjacent to the above storage.</p> <p>LED strip lighting will be installed inside the console compartment (ref 20-31-76AA).</p> <p>Provide on the floor of the charger portion of the center console a minimum 1/2 inch thick plywood panels suitable for the Customer to mount the equipment and chargers.</p> <p>A circuit on a suitable positive and negative terminal strip in the console will be installed (ref 20-99-05AA).</p> <p>Gray Zolatone finish</p> <p>Customer approved the console layout 12.14.2018 before build</p>		
20-31-76AA	U	<p><i>LED strip lighting in console and plywood mounting base for components</i></p> <p>Ref 20-31-7500</p> <p>SOPT in file</p>	1	
20-41-0600	S	<i>Intake air shutoff for engine not requested</i>	1	MTL
20-41-0900		<i>Auxiliary braking system disabled when pumping</i>	1	MTL
20-41-1100		<p>Transmission programming - Allison WT</p> <p>***Includes "Pump Engaged" light next to pump shift on chassis instrument panel.</p>	1	MTL
20-41-1500	S	<p><i>Extend exhaust pipe - RS front of rear wheels</i></p> <p>Engineering to specify exhaust pipe material as required by the chassis manufacturer.</p> <p>Engineering to sign off on the exhaust configuration to make sure it meets the chassis manufacturer's emission specifications.</p> <p>Compatible for Nederman exhaust removal system. Carrier brought the transmitter on 11.22.2018 and it has been logged into inventory at the parts counter.</p> <p>There needs to be 4" of space between the exhaust pipe and the rub rail for the Nederman connection. See pictures in F:/Data/Jacques/Current Projects/Brockton/Pictures</p> <p>A heat deflector shield shall be installed over the exhaust as required to aid in dissipating the heat to prevent exhaust heat from adversely affecting anything stored in the body.</p>	1	MTL
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
20-41-5010		<i>Rear Tow Hooks - through rear of body E</i>	1	MTL
20-51-0700		<i>Master Battery Disconnect included with chassis</i>	1	MTL
20-51-2500		<i>Back up alarm included with chassis</i>	1	MTL
20-51-3100	S	<i>Air inlet not requested</i>	1	MTL
20-51-3400		Protection valve installed for air operated accessories	1	MTL
20-51-6200	S	<p>> <i>120 volt 20 A shore line connection</i></p> <p>ENG. NOTE:</p> <p>Requires 20-51-75 120 volt auto eject or 20-51-80 120 volt inlet</p> <p>Standard 5-20R duplex receptacle in, not fused</p> <p>Locations are as follows;</p> <p>Receptacle #1 - On back of console for Battery Conditioner to plug into</p> <p>Receptacle #2 - Inside console storage are as described in 20-31-7500</p> <p>Receptacle #3 - In front left side compartment - high on back wall - forward most</p> <p>Receptacle #4 - In front right side compartment - high on back wall at depth</p>	4	MTL

PART NO	S	DESCRIPTION	QTY	ID
		change - forward most Customer has confirmed the above locations by e-mail on 09.11.2018		
20-51-62AA	U	Additional shoreline outlet - 120-volt, 20 Amps There will be an additional shoreline outlet installed in the rear right side compartment.	1	
20-51-6600		Kussmaul Pump Plus conditioner/compressor Battery conditioner to be mounted on back of console 20-31-7500 Compressor to be mounted in pump compartment, easily accessible for service and adjustment through the right side pump compartment access door.	1	MTL
20-51-7101	S	Electric System Management - VMUX	1	MTL
20-51-7500	S	Super Auto eject for 120 v - 20 A with sealed enclosure Located in left side cab step area ***Cover to be red*** P/N 1032010	1	MTL
20-51-8500	S	Engine compartment lighting - LED to meet ULC Switched when park brake is engaged.	1	MTL
20-51-9001	S	Air horns on cab hood, dual lanyards (DS and PS) supplied with Freightliner cha	1	MTL
20-52-3500	>	Chassis steering wheel lined up by Metalfab E ENG. NOTE: Freightliner, Sterling, and Spartan only	1	MTL
20-60-0400		Chassis wheelbase does not change	1	MTL
20-99-05AA	U	ATO fuse block - terminal strip in console for Customer mounted components Ref 20-31-7500 SOPT #1030	1	
20-99-05BB	U	Bumper guides, chrome, lighted A pair of chrome lighted bumper guides will be installed on the front bumper.	1	
20-99-15AA	U	Federal Camset rear view camera with 1 side view camera, 7" Monitor in cab Monitor mounted on overhead center console angled towards the driver. In addition to the rear view camera, a right side camera (CAMCCD-SIDENTSC) will be mounted on or at the passengers side mirror arm location. (Similar to Havelock, NB WO #18868) Ordering information - Part Numbers 1530882, 1530883, 1530884. See SOPT #465a - truck specific	1	
		PUMP AND PLUMBING	1	MTL
30-11-3500	S	Waterous CXVPA pump - 840 IGPM - PTO driven	1	MTL
30-15-0304		Plumbing - non manifold pump SM SS E	1	MTL
30-20-0500		Valves and controls - side mount panel	1	MTL
30-20-1003	S	Suction and discharge valves - Elkhart brand.	1	MTL
30-20-1620	S	Piping stainless steel - Non-manifold pump	1	MTL
30-20-1700	S	1-1/2" thread specifications - NPSH	1	MTL
30-20-1800	S	2-1/2" thread specifications - CSA	1	MTL
30-20-2000		Piping hydrostatic test	1	MTL
30-20-2505		Anodes in suction and discharge piping not requested	1	MTL
30-21-5520		Tank to Pump SS 3" w/ check valve non manifold pump	1	MTL
30-22-0520		Tank Fill valve 2" SS	1	MTL
30-31-4020		Suction - 6" not gated each side SS non manifold pump 6" header	1	MTL
30-32-8050		Suction - 2-1/2" right side SS, bleeder, non manifold pump	1	MTL
30-40-2006		4" right discharge, plumbed 3", non manifold pump	1	MTL
30-41-2040		2-1/2" RS discharge SS, bleeder, non manifold pump	1	MTL
30-41-2540		2-1/2" LS discharge SS, bleeder, non manifold pump	1	MTL
30-43-1520		2-1/2" rear discharge SS, plumbed 2-1/2", bleeder *** Right side as shown on the proposal drawing	1	MTL
30-44-1140	U	2-1/2" plumbing to front - Elkhart electric control in cab A 2-1/2" front discharge will be plumbed the front terminated with an Elkhart Sidewinder EXM Quick connect (model #7150) and a swivel through the top of	1	

PART NO	S	DESCRIPTION	QTY	ID
		the gravel shield with 2-1/2" CSA thread. An adapter from 2-1/2" CSA to 1-1/2" NPSH will be provided so a 1-1/2" fire hose can be pre-connected. The Elkhart electric valve will be controlled in the cab with an Elkhart electric control located on the console 20-31-7500 and a second control 30-44-1150 will be installed on the pump panel. Discharge will have an automatic drain(s) at low point(s) if inaccessible for manual drain(s). Engineering to specify length of harness for the Elkhart electric control and electric valve details.		
30-44-1150	U	2nd electric control for front discharge There will be a 2nd Elkhart electric control installed on the pump panel that will work with the front discharge 30-44-1140. This control will operate the valve until a future monitor is installed, the valve will then be controlled by the joystick in the cab and this control will be redundant.	1	
30-51-0400		Pump shift - PTO Pump and Roll ***Includes "Pump Engaged" indicator lights on chassis instrument panel and on the pump panel ***Includes "Throttle Ready" indicator light on Pump operating panel Includes indicator light showing "OK TO PUMP" when transmission is in neutral, park brake is set, and PTO control energized. The remote electronic throttle will be energized in this mode. Includes indicator light showing "OK TO PUMP AND ROLL" when the transmission is not in neutral, the park brake is not set, and the PTO control is energized. The remote electronic throttle will not be energized in this mode. ***Indicator lights are located in upper console area over drivers seating position	1	MTL
30-51-1500		Power shift PTO - Automatic transmission An Orange rocker switch with lock shall be installed on the 20-31-7500 console to engage and disengage the PTO. Cole Hersee - P/N 58336BX	1	MTL
30-51-1501		PTO driveshaft E	1	MTL
30-51-6640		Class One "TPG Plus" Governor/Throttle	1	MTL
30-51-7002		Suction side relief V/V, non manifold pump	1	MTL
30-51-7500	S	Primer electric vane type 12V with oil tank Waterous There will be a Waterous primer and an indicator light on panel to show when primer is operating.	1	MTL
30-51-8100		Heat exchanger included with chassis	1	MTL
30-51-9000		Thermal Relief Valve	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	S	Foam System - Waterous Aquis 1.5 The discharge(s) to be foam solution capable are the left side 2-1/2" (30-41-2540), rear 2-1/2" (30-43-1520) and front bumper discharge (30-44-1140)	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
40-11-7000	S	Tank capacity 1780 Imperial Gallons	1	MTL
40-12-4500	S	Foam cell - 20 Imperial gallon	1	MTL
40-21-1000		4" 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
40-23-1050	S	4" Fireman's Friend connection The standard Fireman Friend plumbing as been approved by the Fire Department on 10.17.2018.	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
40-23-1060		10" Newton dump connection	1	MTL
40-30-0400		3" plug in sump box	1	MTL
40-30-1200	S	Water Fill Box special location - middle left side The water fill will be located on the middle left side of the tank to prevent water spillage during sudden braking applications.	1	MTL
40-31-3500	S	10" rear Newton dump, stainless steel	1	MTL
40-31-4700		Newton dump, top mount manual operation Lock open device is required	1	MTL
40-31-5610	U	Stainless Steel Dump chute (Rotating with lock) and telechute SOPT #2	1	
40-31-9000	S	4" Storz rear fill, Fireman's Friend To be accessible from ground level. Located left of dump as requested by fire department.	1	MTL
ELECTRICAL				
50-11-0300		Base electrical system - multiplex E	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 As required by ULC and NFPA standards	1	MTL
50-11-0900		Rocker switch panel with master warning switch Rocker switches are installed in console 20-31-7500. ***Rocker switch assignments: MASTER -LIGHT BAR RED -LIGHT BAR CLEAR -FLASHING WARNING -LEFT SCENE -RIGHT SCENE	1	MTL
50-11-1400		Federal PA300 100 watt siren	1	MTL
50-11-1620		Siren speaker, 100 watt, in front bumper	2	MTL
50-11-2600		Siren to be accessible to driver and officer	1	MTL
50-11-6110	S	Whelen lighting package	1	MTL
50-11-61CC	U	Whelen Justice JC2RBWWBR LED lightbar The lightbar shall have two (2) front corner red linear LEDs, two (2) forward facing red linear LEDs, two (2) forward facing blue linear LEDs, two (2) forward facing white linear LEDs. The lightbar shall have clear lenses.	1	
50-11-66AA	U	Rear LED Traffic Advisor - Whelen TAD8 TACCTL1 controller located in cab console 20-31-7500	1	
50-11-8001	S	> Rear beacons not requested ENG. NOTE: Confirm that necessary lighting for ULC/NFPA is present	1	MTL
50-12-8000		Additional body side intersection light not required Distance between front and rear side intersection light does not exceed 25'	1	MTL
50-12-8521	S	Front flashers, intersection lights Whelen M6 red with red lens	1	MTL
50-12-8620	S	Rear LED flashers (pr)-Whelen LED M6J with integral flasher - split red / blue Upper level as shown on the proposal drawing. The light will be a Whelen M6J red and blue split lens with integral flasher.	1	MTL
50-12-8820	S	Body side inter lts (pr)-Whelen red LED C6LR with integral flasher Upper level on each side on rear upper corners of sides as shown on the proposal drawing.	1	MTL
50-12-88AA	U	Body side LED flashers (pr) Whelen red LINZ6R with chrome flange	1	
50-21-5100		> Compartment lighting - LED tube lights in each compartment (rollup doors) ENG. NOTE:	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		Rollup doors only		
50-21-5550		Equipment rack not stowed warning light Located in upper console area over drivers seating position Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on"	1	MTL
50-21-5550	U	Hose bed covers not stowed warning light Located in upper console area over drivers seating position Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on"	1	
50-21-5600		Door Ajar warning light with buzzer E Flashing red warning light w/audio alarm to be activated when door open and parking brake released located in upper console area over drivers seating position Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on"	1	MTL
50-21-8001	S	Step lights for body steps/access ladder at rear - LED	1	MTL
50-21-8200	S	Step lights for chassis steps - LED	1	MTL
50-21-8600		LED clearance lts and reflectors	1	MTL
50-21-8605	U	Cast Products license plate holder complete with LED light Located under rear dump as shown on the proposal drawing.	1	
50-21-8800		LED intermediate turn signal/clearance/reflector length >30'	1	MTL
50-22-075A	U	Whelen M6 LED tail light assembly M6FCV4 (pr) Includes rear lower level warning light SOPT #1093	1	
50-31-6011		Scene light boxes not required E	1	MTL
50-31-60AA	U	Whelen Pioneer 12-Volt Scene lights PFA2 (pr) - rear facing Whelen Pioneer PFH2 has been replace with PFA2 - ref SOPT 967 Requires PBH203 chrome flange - order with the 15 degree angle Scene light(s) will be mounted on rear under the traffic advisor as shown on the proposal drawing. The lights will be switched on the rear with a weatherproof switch and programmed to automatically turn off when the park brake is released. The lights will also be interlocked with the reverse The lights cannot be managed as they are required for ULC.	1	
50-31-60BB	U	Whelen Pioneer LED Scene lights - PCPSM1C (pr) Scene light(s) will be mounted on the upper side corners of body on left and right side as shown on the proposal drawing. Two switches shall be installed in cab to control the "left side scene" and the "Right side scene" These light shall be managed to shed. SOPT #1010	2	
50-31-6550		Ground lighting (LED Lumabar) - 2 door chassis To activate when apparatus parking brake is engaged and also activated with corresponding turn signal.	1	MTL
50-31-6570		Ground lighting (LED Lumabar) - side mount body To activate when apparatus parking brake is engaged and also activated with corresponding turn signal.	1	MTL
50-35-0560		VHF antenna with base - commercial chassis Antenna install behind light bar and cable routed to console area 20-31-7500 in cab.	1	MTL
50-99-05AA	U	Whelen C7LR red LED lights on inside of doors, switched on when door is opened Whelen 70BTT has been replaced with C7LR to get a flashing pattern Installed on inside of cab doors and activated when door opens and 12-volt kill switch is on. Confirmed by e-mail 09.14.2018.	1	

PART NO	S	DESCRIPTION	QTY	ID
		SOPT in file		
50-99-10AA	U	Hose bed cover lights - 40" LED lumabars x 4 Wired to the Hose bed covers not stowed warning light in cab 50-21-5550. SOPT #209	1	
		BODY	1	MTL
60-10-1400		Single axle extruded aluminum body ***Make structural allowance (backing plates) over right side compartments for the future installation of a Zico LAS.	1	MTL
60-10-15AA	U	1" drop on lower edge of compartment floors - sweep out type SOPT#1236	1	
60-10-4100		No "beavertail" rear step supports	1	MTL
60-10-4600		Painted fender surround E	1	MTL
60-10-4770		Removable stainless steel fender trim - single axle E	1	MTL
60-10-5400		> Diamondback pumphouse steps ENG. NOTE: Maximum height of step is 24" from ground	1	MTL
60-10-5430		> Diamondback 19" rear step ENG. NOTE: Maximum height of rear step is 24" from ground	1	MTL
60-10-6500		Bolt on extruded aluminum rub rail E	1	MTL
60-11-0100		> Front left side compartment to top of wheel well ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-0150		> Second front left side compartment to top of wheel well ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-0500	S	> Front right side compartment to top of wheel well ENG. NOTE: Specify critical dimensions in shop note The right side compartment changes from intermediate to fender well height.	1	MTL
60-11-0550	S	> Second front right side compartment to top of wheel well ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-0800	S	> Rear left side compartment to top of wheel well ENG. NOTE: Specify critical dimensions in shop note This compartment will house a customer supplied Hale 25FB-B25 portable pump that measures 23" long x 23" wide x 24" high.	1	MTL
60-11-1100	S	> Rear right side compartment to top of wheel well ENG. NOTE: Specify critical dimensions in shop note This compartment will house a Metalfab supplied CET PFP-20HPHND-1D portable pump that measures 23-1/2" long x 22" wide x 25-1/2" high.	1	MTL
60-11-3100		No rear compartment E	1	MTL
60-11-5500	S	Rollup door - standard height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point	6	MTL

PART NO	S	DESCRIPTION	QTY	ID
60-11-5510	U	Price Adjustment	3	
60-11-5530		Rollup door - to enclose pump panel Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point	2	MTL
60-11-5640	S	Drip pan under rollup door roll (each) - Left Side Pump compartment door only ***Left side pump compartment door only*** Drip tray with drain routed down to below compartment floor level	1	MTL
60-31-4000		Extruded aluminum handrails - rubber inserts E One (1) horizontal under hose bed One (1) vertical RS rear Refer to proposal drawing Minimum 2" clearance from handrail to any surface	1	MTL
60-31-5000		Zico access Ladder at rear of unit Left side rear Minimum 7" clearance between rung and any obstruction	1	MTL
60-31-5800	S	Intermediate step on rear - as wide as possible 18" down from hose bed	1	MTL
60-31-6500	S	Compartment matting - plastic interlocking tile	1	MTL
60-31-8001	U	Signature 4 Single SCBA bottle holder (pr) in fender well One pair in left rear wheel well and one pair in right fender wheel well (4 total) Order with strap kit SOPT #920	2	
60-31-8700	S	> Sliding tray (ea) - 400 pound capacity - lock-in, lock-out slides ENG. NOTE: Specify location Located in the following locations: Tray #1 - Left rear side compartment at floor level Tray #2 - Right rear side compartment at floor level Reflective stripe is applied on the exposed edge for visibility when the compartment door is open Customer has confirmed mounting locations by e-mail 09.11.2018	2	MTL
60-31-9600	S	> Adjustable shelf (ea) ENG. NOTE: Specify location Located in the following locations: Shelf #1 - Left side front compartment - full depth Shelf #2 - Left side second front compartment - full depth Shelf #3 - Right side front compartment - full depth Shelf #4 - Right side second front compartment - full depth Reflective stripe is applied on the exposed edge for visibility when the compartment door is open Customer has confirmed mounting locations by e-mail 09.11.2018	4	MTL
60-32-3550	S	Two adjustable hose divider (each) and one fixed in center to support covers Hand hold required in end Both adjustable hose bed dividers will be installed on the right side of the hose bed.	1	MTL
60-32-7500		Hose bed - aluminum The hose bed shall be designed to have a storage capacity for a minimum of 55 cubic feet of fire department supplied fire hose and be 10 feet in length.	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
60-33-0000		Paint exterior - Imron Elite *** Paint code and colour red to match red on cab	1	MTL
60-33-0200		Undercoat vehicle with KROWN rust protection	1	MTL
60-33-0600		Chassis wheels not painted Hub caps, high hats and nut covers by Nova	1	MTL
60-33-1000		Paint pump and plumbing job colour	1	MTL
60-33-1500		Buffed finish compartment interior	1	MTL
60-33-2200		Lettering - 80 letters up to 3" tall - 3 colour *** Vinyl letters, Fire Department to provide details on location and text.	1	MTL
60-33-3300	S	Reflective stripe - to match existing units 50% of perimeter each side and 25% of perimeter front	1	MTL
60-33-3310		Reflective stripe - red and yellow chevron at rear Minimum 50% of rear vertical surface	1	MTL
60-33-3600		Reflective stripe - inside entry doors 96 square inches minimum inside each cab entry door. White reflective unless otherwise specified	1	MTL
60-33-4700		No crosslay preconnects on vehicle E	1	MTL
60-33-5000	S	Aluminum cover over hose bed with end tarps - red Rear flaps with Velcro straps will be provided on the rear of the cover. The top will be fastened to the hose bed cover with quarter turn fasteners and the Velcro straps tie around footman loops on back of body.	1	MTL
60-40-4500	S	6" Hose tray - mounted on PTS Mounted on PTS right side to store the two 6" x 10" suction hoses 80-11-5000 - see also 60-41-6110	2	MTL
60-40-5500	S	Suction hose tube (each) with door One tube for the two 3" x 10' suction hoses 80-11-15AA - Make tubes long enough so that the barrel strainer can remain attached to the suction hose One tube for the two 2-1/2" x 10' suction hoses 80-11-1000 - Make tubes long enough so that the barrel strainer 80-12-0500 can remain attached to the suction hose One (1) tube will be installed under the right side of the water tank for the 3" hose. One (1) tube will be installed on the right side fender top for the 2-1/2" hose..	2	MTL
60-41-6001		> Zico hydraulic portable tank rack ENG. NOTE: Specify mounting location desired. If Portable tank is customer supplied, specify overall dimensions when the tank is in stored position Located on Left side to house the 80-15-1000 2000 Imp gallon portable tank - The two suction hose trays 60-40-4500 are mounted on upper portion of rack. The PTS are left as painted by Zico (gray) 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.	1	MTL
60-41-6010		ZICO PTS switched at rear above tail light Switch is located on same side as electric rack - left side	1	MTL
60-41-6110		Painted plate on exterior of Zico PTS Cover to be integral with hose trays - see sketch in file Front will be checker plate, the rear is open, the rest to be painted red to match body..	1	MTL
60-41-7100		Tread plate on body behind porta tank rack	1	MTL
60-41-8500	S	Ladder rack side - 2 sect and roof Located on right side above the side compartments.	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		Ladder(s) are a 24' 2-section Duo Safety ladder 80-14-0505 and a 14' Duo Safety roof ladder 80-14-5510 both supplied by Metalfab.		
		INSTRUMENTATION		
70-11-0000		Warning Label on Pump Operator's Panel	1	MTL
70-11-0501	S	Side mount instrument panel with rollup door LS and RS 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	1	MTL
70-11-1500		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	1	MTL
70-11-3200		Colour coded tags	1	MTL
70-11-3210	U	Class 1 chrome tag bezels SOPT #216	1	
70-11-5000	S	Standard cover over top of pump house - no storage	1	MTL
70-11-5500	S	Right side pump access door - Stainless steel with lift and turn latches No opening dimension less than 18"	1	MTL
70-11-7500		Heat pan-aluminum	1	MTL
70-11-8000		Heater in pump compartment	1	MTL
70-20-0500	S	4-1/2" compound gauge - dual face 0-400 To be within 8" of each other - edge to edge	2	MTL
70-20-1500	S	2-1/2" pressure gauge - dual face 0-400 Gauge to be no more than 6" from edge of the gauge to the center of the control. There will be five (5) gauges on the pump panel and a sixth in the center console 20-31-7500 for the front discharge 30-44-1140	6	MTL
70-20-2500	S	Primer control There will be a Waterous primer control.	1	MTL
70-20-3100		Class One Governor Control Throttle can be no lower than 42" and no higher than 72" from operator's standing position.	1	MTL
70-20-3500		Electric water level gauge on pump panel, Class One	1	MTL
70-20-3610		Remote PSTANK water level indicators each side, rear with driver E Interlock with park brake so powered only when the park brake is set.	1	MTL
70-20-6500		Test gauge panel Mount below the compound gauges for proper draining	1	MTL
70-20-7500		Heat exchanger control valve	1	MTL
70-21-1500	S	Electric Foam Level gauge on pump panel, Class One Include access to and room for sender in front of body and back of pump house	1	MTL
70-21-2100		> PTO Hourmeter ENG. NOTE: Specify location in shop note Located in cab console 20-31-7500 close to the PTO activation switch	1	MTL
70-21-5500		Panel readout for Battery Conditioner Located in left cab step area adjacent to the Auto Eject ***Requires sealed box for back - Kussmaul part number 091-39-109	1	MTL
		ACCESSORIES		
80-11-1000		2-1/2" x 10' lightweight suction hose (ea) CSA threads	2	MTL

PART NO	S	DESCRIPTION	QTY	ID
		Rock lug couplings Tube mounted		
80-11-15AA	U	3" x 10' long suction hose (ea) NH (NST) threads Rock lug couplings Tube mounted Include one barrel strainer Kocek #BS30 (p/n 1500742)	2	
80-11-5000		6" x 10' lightweight suction hose (ea) NH threads Mount in trays on PTS	2	MTL
80-12-0500		2-1/2" barrel strainer Attached to suction hose	1	MTL
80-12-2500		6" barrel strainer Shipped loose, not mounted. Customer will mount.	1	MTL
80-12-4500		> 6" low level strainer with 1-1/2" venturi connection ENG. NOTE: Gordon, Kocek says to start at 50 psi but max would be 100 PSI on Jet Siphon Shipped loose, not mounted. Customer will mount.	1	MTL
80-13-0500		Rubber mallet Shipped loose, not mounted. Customer will mount.	1	MTL
80-14-0505	U	24' 2 - section Duo Safety ladder There will be a 24' 2 - section Duo Safety ladder installed on the 60-41-8500 ladder rack	1	
80-14-5510	U	14' Duo Safety roof ladder There will be a 14' Duo Safety roof ladder installed on the 60-41-8500 ladder rack	1	
80-14-8510	U	10' Duo Safety Attic ladder There will be a 10' Duo Safety roof ladder installed on the 80-14-9000 attic ladder bracket.	1	
80-14-9000	S	Attic ladder bracket (Zico) The attic ladder bracket will be installed on the right side fender top and will house a 10' Duo Safety ladder 80-14-8510 supplied by Metalfab	1	MTL
80-15-1000		2000 l gallon portable tank - Husky Mounted in PTS	1	MTL
80-30-05AA	U	Rubber wheel chocks (NFPA compliant) - location to be determined Location to be determined at Pre-construction meeting. SOPT #13	2	
80-99-05SS	U	CET PFP-20HPHND-1D portable pump There will be a CET PFP-20HPHND-1D portable pump supplied and installed on this unit. It will have a Honda engine with electric start. Discharge to be 2-1/2" CSA thread Suction to be 4" NH thread	1	
80-99-15AA	U	6" FNH x 4" Storz 30 degree droop adapter for RS 6" inlet Install on right side 6" steamer inlet, complete with 4" blind Storz cap. ***Ensure ample room is left so roll up door will clear the adapter. Ship the 6" LH chrome cap loose. SOPT in file - #496 - truck specific	1	

