



Shop Order

Carrier Truck Center Inc.
 O/A Carrier Centers
 645 Athlone Place
 Woodstock, ON N2S 7V8

The Municipality of North Perth
 330 Wallace Avenue North
 Listowel, ON N4W 1L3

Exp. Date: 10/25/2019
Quote No: North Perth Tanker-0021
Job/Order No: 21213
BODY: 00-10-31 Metalfab Tanker - ULC 05/13

03/04/2021

PART NO	S	DESCRIPTION	QTY	ID
		== Metalfab Tanker - ULC 05/13 - 0.000 ==	1	MTL
	S	Change Order G	1	MTL
00-10-1000		Metalfab Tanker E	1	MTL
00-20-1000		Company Profile E	1	MTL
00-20-1500		Standard Body Warranty	1	MTL
00-20-1550		Metalfab Limited Ten (10) Year Paint and Corrosion Warranty	1	MTL
00-20-1800		Polypropylene Tank Lifetime Warranty	1	MTL
00-20-2100	S	Plant Inspection Visits - three visits, three representatives - costs by CCEV	1	MTL
		Visit #1 - Pre-construction		
		Visit #2 - Chassis inspection		
		Visit #3 - Pre-delivery inspection		
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
10-11-1600	S	> ULC Testing - Tanker (with no chassis engine driven pump)	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		Maximum height not specified E	1	MTL
10-11-2300		Overall length is less than 30'	1	MTL
10-11-2500		General Construction	1	MTL
10-11-3000		Manuals - two copies	1	MTL
		***Two copies of manuals are required.		
		Complete listing of OEM part numbers shall be provided.		
		Certification in writing that the chassis has not been used as a tow vehicle for delivery between the chassis factory and the chassis dealer, or between the chassis dealer and the chassis fabricator to be supplied.		
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		
10-11-4300	S	Payment Terms - Chassis and Body NET 30	1	MTL
10-20-1400	S	> Hose capacity exceeding ULC/NFPA requirements	1	MTL
		ENG. NOTE:		
		Specify the type of hose and quantity of hose to be carried on the vehicle		
		Main hose bed shall have capacity for:		
		400' - 2.5" DJ hose		
		150' - 4" rubber jacket supply hose		

PART NO	S	DESCRIPTION	QTY	ID
		400' - 1-1/2" DJ hose ***Additional weight allowance of 400 lbs.***		
10-20-2200		Equipment carrying capacity - standard ULC Tanker	1	MTL
		CHASSIS INFORMATION	1	MTL
20-11-1000	S	Chassis supplied by Metalfab - Freightliner M2 106	1	MTL
		Two door chassis, three seating positions		
		41,600 lb GVWR 14,600 lb front axle 27,000 lb rear axle		
		184" wheelbase 118.47" cab to axle 100" rear overhang		
		Cummins L9 350 hp @ 2000 rpm 200 no load governed rpm		
		1000 lb/ft torque @ 1400 rpm		
		60 MPH maximum speed		
		Allison 3000 EVS automatic transmission, 5 speed 275 amp alternator		
		Brake Lights activated with engine brake (exhaust brake)		
		189 litre fuel tank, LH		
		Auxiliary tank included		
		ESC and VDR included		
		LED headlight		
		Air horns on hood - include snow shields		
		Color is L0006 white over L1132EB red to match M07-7835		
		Spray outs required for paint codes were confirmed by e-mail by Paul Marks on 12.16.2019		
		Paint line on cab were confirmed by Paul Marks by e-mail on 12.16.2019		
		Items added at pre-construction meeting of 11.07.2019		
		Front shocks and sway bars		
		Chassis wheels to be Durabright		
		Automatic moisture ejectors		
		Double frame		
		Power windows at both sides and no power door locks		
		Deleted block heater		
20-11-1500		2013 Emission chassis modifications	1	MTL
20-11-1700	S	Chassis Motor Vehicle Inspection required - by CCEV	1	MTL
20-21-0500		Fluid capacity plate	1	MTL
20-21-0600		Pumping test plate	1	MTL
20-21-1010		Maximum riders sign - 3 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
20-21-1530	S	Tire Pressure Indicators - Single Axle	1	MTL
		Ship the original valve stem caps back with the completed unit as requested at the pre-construction meeting of 11.07.2019		
20-21-1600		Apparatus Information Label	1	MTL
		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		Non removable key	1	MTL
20-21-2500		Shifter lock not required E	1	MTL
20-21-3500		Rear step warning label	1	MTL
20-21-3800		Front mudflaps	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	1	MTL
		Vertical trim only, OEM cab steps remain		
		Move lower step even with body rubrail		
20-31-1900	S	Chassis cab painted by chassis OEM	1	MTL
20-31-4700	S	> Extend front bumper, gravel shield, provisions for Tornado monitor	1	MTL
		ENG. NOTE:		
		Note location of preconnect elbow		
		Note special capacity requirements		

PART NO	S	DESCRIPTION	QTY	ID
		***Bumper to be extended ahead of cab. Engineering to determine exact amount of extension. Q2B siren was deleted at pre-construction meeting of 11.07.2019		
20-41-0600	S	Intake air shutoff for engine not requested	1	MTL
20-41-1200		Transmission programming not required	1	MTL
20-41-1500		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.	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	S	Rear Tow Hooks - through rear of body *** Flat bar tow hooks through rear of body (2) The tow eyes will have rubber seal and stainless trim on the body around the opening. As discussed with Chief Ed Smith by phone on 02.25.2020	1	MTL
20-41-52AA	U	Structural steel bumper integrated with rear tailboard A structural steel bumper shall be provided on the rear of the apparatus. The bumper shall be integrated with the rear tailboard step and shall be well braced to provide high strength and rigid framework. The rear bumper will not be used as a lift point or as a push bumper. The framework can be built off the existing tow hooks structure as discussed at the pre-construction meeting of 11.07.2019. Reference 60-10-5430 the rear tailboard step is made of open strut aluminum with non slip surface, SOPT in file	1	
20-51-0710		Master Battery Disconnect included with Freightliner chassis	1	MTL
20-51-2500		Back up alarm included with chassis	1	MTL
20-51-3100	S	Air inlet not required The air inlet was deleted at the pre-construction meeting of 11.07.2019	1	MTL
20-51-3400		Protection valve installed for air operated accessories	1	MTL
20-51-6200	S	> 120 volt 20 A shore line connection in chassis cab ENG. NOTE: Requires 20-51-75 120 volt auto eject or 20-51-80 120 volt inlet Standard 5-20R duplex receptacle in chassis cab, not fused Locations are as follows; Receptacle #1 - placed in a position for the battery conditioner to plug into it. Receptacle #2 - Will be used for chargers in the cab 80-99-15AA. Customer request to have these near the dash but if unable to find room 12" off the floor to meet ULC, the charger plugs will have to be routed in such a way to protect the plug wire ie: under the floor mat. Receptacle #3 - To be mounted in the upper portion of the L1 compartment towards the left side wall. Receptacles to be minimum 12" from floor level to meet ULC requirements As discussed at the pre-construction meeting of 11.07.2019	3	MTL
20-51-6600	S	Kussmaul Pump Plus conditioner/compressor Battery conditioner located under passenger bench seat in cab Air compressor located in the upper front partition of the left side front compartment as approved at the pre-construction meeting of 11.07.2019	1	MTL
20-51-66AA	U	Auto Drain for Kussmaul Pump There will be an auto drain for the Kussmaul Pump 20-51-6600 as requested by Paul Marks by e-mail on 01.02.2020.	1	
20-51-7101	S	Electric System Management - VMUX	1	MTL
20-51-7500		Super Auto eject for 120 v - 20 A with sealed enclosure Located in driver's step area.	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
20-51-8510	S	Engine compartment light LED Switched when park brake is applied.	1	MTL
20-51-9001	S	Air horns as supplied by chassis OEM Chassis is supplied with air horn on cab hood, controlled by dual lanyards in cab.	1	MTL
20-52-1010	U	Gooseneck LED Map light - Federal Littlelite An adjustable map light shall be installed near the officer's seating position. Located on the "A" post on passenger side as approved at the pre-construction meeting of 11.07.2019 P/n 1032001 SOPT #294	1	
20-52-3500		> Chassis steering wheel lined up by Metalfab E ENG. NOTE: Freightliner, Sterling, and Spartan only	1	MTL
20-52-4000	S	Rear View Camera system Rearview Systems STM5600 with 5.6" colour monitor in cab mounted on a rigid bracket on top of dash area as discussed with Chief Ed Smith by phone on 10.28.2020.	1	MTL
20-60-0400		Chassis wheelbase does not change	1	MTL
		PUMP AND PLUMBING	1	MTL
30-12-01AA	U	CET PFP20HPKHL Pump permanently mounted in front left compartment A CET 20 horsepower shall be install and pre-piped in the left front compartment. Pump shall have drafting capabilities and supply all discharge ports with tank fill capabilities. The suction fitting will be 2.5" CSA thread to match the suction hoses 80-11-20AA. The pump will be installed towards the left side wall as much as possible. SOPT in file Warning labels to be installed referring to hot exhaust and stating that the compartment door must be open when operating the pump. The model will be a PFP20HPKHL-1D as per the recommendation of the supplier and approved by the fire department by e-mail on 05.13.2020. Metalfab will supply a drawing of the plumbing layout for approval prior to build.	1	
30-20-0501	S	Pump, valves and controls - compartment mounted All vales will be controlled by handles on the valve. Operators panel and lighting will be installed as required. The lighting will be provided by the compartment lights 50-21-5100 as discussed at the pre-construction meeting of 11.07.2019 There shall be one 2-1/2" discharge with bleeder located in this compartment. See 30-21-55AA to 30-44-1020 for addition discharges, suction(s) and tank connections. See also reference pictures at F: - Data - Ryan - Tenders - 2019 Tenders - North Perth 2000-02-2019 Addendum 1.pdf dated July 17.2019	1	MTL
30-20-1002		Akron valves specified	1	MTL
30-20-1600		Piping stainless steel - general	1	MTL
30-20-1700	S	1-1/2" thread specifications - NPSH	1	MTL
30-20-1800	S	2-1/2" thread specifications - CSA	1	MTL
30-20-2000		Piping hydrostatic test	1	MTL
30-21-55AA	U	Tank to CET pump 4" suction line SOPT #1127 - truck specific - in file	1	
30-22-15AA	U	Tank fill line from pump in left side compartment - plumbed 2-1/2" SOPT #551 - truck specific - in file	1	
30-31-2520	S	Suction - 3" not gated left side Stainless steel piping 3" piping with 2-1/2" CSA connection Reference the abovementioned pictures.	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
30-42-8520	S	1-1/2" rear discharge SS, plumbed 2" The discharge will be on the rear of the body on the left side of the dump valve as discussed at the pre-construction meeting of 11.07.2019 Ensure ample clearance around discharge connection for the use of hose wrenches to tighten fire hose. Bleeder required	1	MTL
30-43-1520	S	2-1/2" discharge rear of pump, SS plumbed 2-1/2" The discharge will be in the L1 compartment behind the pump as discussed at the pre-construction meeting of 11.07.2019. Ensure ample clearance around discharge connection for the use of hose wrenches to tighten fire hose. Bleeder required	1	MTL
30-44-1020	S	> 2" to front SS, plumbed 2", for Tornado monitor ENG. NOTE: Requires extended front bumper, gravelshield A bleeder/auto drain will be installed in the lowest part of piping to the front to prevent freezing in the winter. 2" electric valve - ref 80-99-20AA Confirmed with Customer at the Pre-construction meeting of 11.07.2019 that auto drain valve is preferred.	1	MTL
30-51-7710		Trident Air Primer 2 barrel 1 location	1	MTL
30-51-7720		Additional air tank for air primer system An additional air tank is provided to improve air primer capacity (included with the chassis)	1	MTL
30-52-1000		Master drain V/V, 12 port	1	MTL
		WATER AND FOAM TANKS	1	MTL
40-11-2100		Polypropylene water tank (Imperial gallons)	1	MTL
40-11-2200		Water tank capacity certification (tank manufacturer)	1	MTL
40-11-6500		Tank capacity 1500 Imperial Gallons	1	MTL
40-23-0500		1" water level gauge connection	1	MTL
40-23-1040	S	4" direct fill connection The direct fill will change to a gated fill as discussed at the pre-construction meeting of 11.07.2019.	1	MTL
40-23-1060		10" Newton dump connection	1	MTL
40-30-0500		Sump drain valve (3" gate valve) with linkage E Located on left side so there is no interface with drive lines and exhaust	1	MTL
40-30-1000	S	Water Fill Box front left corner The fill tower will be in the front left corner to maximize the hose bed space as discussed with Chief Ed Smith on the phone on 02.25.2020. The fill tower will be higher than the sides of the body to prevent water spillage from sloshing.	1	MTL
40-31-4500		10" rear Newton dump, painted steel	1	MTL
40-31-5000		Newton dump - 36" telechute painted steel	1	MTL
40-31-5500		Electric operator for Newton dump, top mount	1	MTL
40-31-5600	S	> Rotating dump chute for Newton dump painted steel w/ deck plate flip extension ENG. NOTE: Requires top mount control on dump valve The rotating dump chute will have a flip down extension made of deck plate to match their M07-7835 unit as discussed at the pre-construction meeting of 11.07.2019	1	MTL
40-31-5800		Support for rotating dump chute if necessary Engineering to determine if this support is required	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
40-31-8000	S	4" Storz rear gated fill The direct fill will change to a gated fill as discussed at the pre-construction meeting of 11.07.2019. The direct fill will include a drain as per Metalfab standard and as requested by Paul Marks by e-mail on 01.02.2020	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	S	Rocker switch panel with master warning switch Located in center overhead console in cab ***Rocker switch assignments: MASTER -LIGHT BAR RED -LIGHT BAR CLEAR -REAR BEACONS -FLASHING WARNING -Left scene -Right scene -Rear scene -REAR FLOODS -TCL - powered with emergency master	1	MTL
50-11-1460	S	Federal EQ2B 200 watt siren The siren will be an EQ2B siren model as discussed at the pre-construction meeting of 11.07.2019 The siren control will be mounted in the upper right side of the dash as discussed with Chief Ed Smith by phone on 10.28.2020	1	MTL
50-11-1620	S	> Siren speaker, 100 watt, in front bumper ENG. NOTE: AS124 speaker 1570860 There will be two (2) siren speakers installed in the front bumper and they will have a protective cover with the Federal "F" logo to match their last truck M12-16100 as discussed at the pre-construction meeting of 11.07.2019	2	MTL
50-11-2600		Siren to be accessible to driver and officer	1	MTL
50-11-60AA	U	Whelen Freedom IV series light bar There will be a Whelen Freedom IV series light bar supplied and installed on the cab roof. The layout of the bar from left to right starting at the back corner will be: Red LED - back left corner Red LED - end of the bar Red LED - front left corner White LED Red LED Blank space / empty pod Red LED Both Middle pods are empty Red LED Blank space / empty pod Red LED White LED Red LED - front right corner Red LED - end of bar Red LED - back right corner or RRRWR-R--R-RWRRR as discussed at the 11.07.2019 pre-construction meeting.	1	
50-11-61AA	U	Opticom emitter Opticom emitter to be compatible with Global Traffic Technologies to match M11-16100. Last contact person was Chris Wilson at 905-643-3994 ext 231	1	

PART NO	S	DESCRIPTION	QTY	ID
		Activated by light bar and deactivated by the maxi brakes. As discussed at pre-construction meeting of 11.07.2019 The alternative contact of Denis Curtis at 1-800-663-7071 or 905-483-1163 was provided by Paul Marks by e-mail on 01.02.2020		
50-11-6600	S	Rear LED Traffic Advisor warning lights - surface mount Whelen model TAM83 to fit the space available. Controller installed in a central location where space permits as discussed at the pre-construction meeting of 11.07.2019. Mounting location of upper roof center console beside the emergency light switches (50-11-0900) was approved by Chief Ed Smith by phone on 10.28.2020	1	MTL
50-11-8600	S	Rear LED beacons-Whelen MCFLED2R (pr) both red	1	MTL
50-12-8500	S	Front LED flashers (pr)-Whelen LED 400 - LS red / RS blue The front left side flasher will be red and the front right side will be blue as discussed at the pre-construction meeting of 11.07.2019	1	MTL
50-12-8600	S	Rear LED flashers (pr)-Whelen red LED 400 - LS red / RS blue The rear left side flasher will be red and the rear right side will be blue as discussed at the pre-construction meeting of 11.07.2019	1	MTL
50-12-8700	S	Front side inter lts (pr) - Whelen red LED 400	1	MTL
50-12-8800	S	Body side inter lts (pr)-Whelen red LED 400	1	MTL
50-21-1110	U	Whelen LED handheld spot light in cab - P46HHS A handheld spot light shall be mounted easily accessible in officer seat area. Will be located beside the cup holder to match M07-7835 as discussed at the pre-construction meeting of 11.07.2019 P/n 1521712 SOPT #1029	1	
50-21-1505	U	Unity LED rear floods (pr) Switched in cab and on light head. These lights cannot be managed to shed	1	
50-21-5100		> Compartment lighting - LED tube lights in each compartment (rollup doors) ENG. NOTE: Rollup doors only	1	MTL
50-21-5550		Equipment rack not stowed warning light Located in overhead console over driver's seating position. Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on"	1	MTL
50-21-5600	S	Door Ajar warning light with buzzer and momentary override Located in overhead console over driver's seating position. Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on" There will be a momentary override to be used when the unit is used in a pump and roll situation as discussed at the pre-construction meeting of 11.07.2019	1	MTL
50-21-8001	S	Step lights for body steps - LED for rear tailboard/platform Switched when park brake is set.	1	MTL
50-21-8200	S	Step lights for chassis steps - LED Switched when park brake is set.	1	MTL
50-21-8510	U	Rear clearance lights on rubber arm (pr) There will be a pair of clearance lights on rubber arms supplied and installed on the rear bumper as discussed at the pre-construction meeting of 11.07.2019. SOPT 812	1	
50-21-8600		LED clearance lts and reflectors	1	MTL
50-22-0700	S	Whelen 64 LED tail/brake-turn-backup module (pr)	1	MTL
50-31-61AA	U	Scene lights (pr) - LED Whelen PCPSM1C One pair located on upper left corners of body sides, controlled by a rocker switch in the cab. The lights can be managed to shed. One pair located on upper right corners of body sides, controlled by a rocker switch in	3	

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		the cab. The lights can be managed to shed. One pair located on upper part rear of body, controlled by a rocker switch in the cab and also to activate when transmission is placed in reverse gear. The lights can't be managed to shed as they are required for rear lighting per ULC As requested by engineering and approved by e-mail by Paul Marks on 01.07.2020		
50-31-6550		Ground lighting (LED Lumabar) - 2 door chassis Switched when park brake is set.	1	MTL
50-31-6570	S	Ground lighting (LED Lumabar) - under rear step Switched when park brake is set.	1	MTL
50-35-0500	S	Provisions for installation of Customer supplied and installed radio Power and ground wire are supplied and coiled up and labeled behind/under dash area. Power will be off master switch unless otherwise specified.	1	MTL
50-35-0560		VHF antenna with base - commercial chassis Right side, on left side behind light bar. Cable will be routed behind/under dash area - coiled up and labeled.	2	MTL
50-99-05AA	U	Auxiliary fan in L1 compartment There will be an auxiliary fan supplied and installed in the L1 compartment to push hot air out of the compartment when the pump is running. There will be a toggle switch on the fan to control it. SOPT 867	1	
50-99-10AA	U	Hose bed cover lights - 40" LED Lumabars 4 x 40" LED Lumabars. Switched when hose bed covers are opened. SOPT #209	1	
50-99-15AA	U	Federal Traffic Clearing light with chrome bezel - 9"x7" There will be a 9"x7" Federal Traffic Clearing Light (TCL) with chrome bezel supplied and installed in the front grill. It will be interlocked with the emergency lights, have it's own switch in 50-11-0900 and interlocked with the park brake. As requested at the pre-construction meeting of 11.07.2019 and confirmed bt Paul Marks by e-mail on 01.02.2020. Model LEDTCL97C-W and QL97MC bezel	1	
		BODY		
60-10-1400		Single axle extruded aluminum body	1	MTL
60-10-4100		No "beavertail" rear step supports	1	MTL
60-10-4600		Painted fender surround E	1	MTL
60-10-4700		Integral aluminum fender trim	1	MTL
60-10-5400		> Diamondback pumphouse steps ENG. NOTE: Maximum height of step is 24" from ground	1	MTL
60-10-5430	S	> Diamondback 19" rear step ENG. NOTE: Maximum height of rear step is 24" from ground See also 20-41-52AA for steel substructure. The structure will be painted black as discussed at the pre-construction meeting of 11.07.2019	1	MTL
60-10-6500	S	Bolt on extruded aluminum rub rail Reflective material in rub rails requested at pre-construction meeting of 11.07.2019	1	MTL
60-11-0300		> Front left side compartments full height E ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-0700		> Front right side compartments full height E ENG. NOTE:	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		Specify critical dimensions in shop note		
60-11-1000		> Rear left side compartments full height E ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-1400		> Rear right side compartments full height E ENG. NOTE: Specify critical dimensions in shop note	1	MTL
60-11-2000		> High side compartment (over 18") each ENG. NOTE: Specify critical dimensions in shop note Specify type of door Specify flip up or drop down Specify which side of body	2	MTL
60-11-3100		No rear compartment E	1	MTL
60-11-5500		Rollup door - standard height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point	2	MTL
60-11-5520		Rollup door - full height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point	4	MTL
60-11-5655	U	Amdor pull straps - Flex - HD - L2 & R2 Order with roll up doors	2	
60-11-5660	U	Amdor pull straps - Flex - HD - L1, L3, R1 & R3 Order with roll up doors	4	
60-31-4100		Extruded aluminum handrails Minimum 2" clearance from handrail to any surface	1	MTL
60-31-5000	S	Zico access Ladder at rear of unit There will be a Zico Access ladder supplied and installed on the rear left side of the body. This will require additional brake/turn signal lights in the rear rub rail to meet CMVSS. Metalfab part # 1571121 and 1571122. Minimum 7" clearance between rung and any obstruction As discussed at the pre-construction meeting of 11.07.2019.	1	MTL
60-31-5800	S	Special step over rear dump There will be a step supplied and installed under the hose bed and above the traffic bar (50-11-6600) / camera (20-52-4000) to help transitioning from the Zico Access Ladder (60-31-5500) and hose bed. As discussed at the pre-construction meeting of 11.07.2019	1	MTL
60-31-6500	S	Compartment matting - plastic interlocking tile	1	MTL
60-31-7900	U	Vertical unistrut tracking for all compartments SOPT #271	1	
60-31-8006	U	BA bottle compt (ea)-fender well The bottle will be 23" long and the cylinder valve will be 4.5" wide - see picture in F:/Data/Jacques/Current Projects/North Perth/Pictures. As discussed at the pre-construction meeting of 11.07.2019	4	
60-31-8210	S	> Sliding vertical tool board - open-close latch ENG. NOTE: Specify location Located in left side rear compartment - the board will be 4" from the right side of the compartment as discussed with Chief Ed Smith by telephone on 02.25.2020. White reflective stripe is applied on the exposed edge for visibility when the	1	MTL

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		compartment door is open. The tool board will have an open/close latch supplied and installed as discussed at the pre-construction meeting of 11.07.2019		
60-31-822A	U	PAC-Trak installed on tool board PAC-Trak shall be installed on the 60-31-8210 tool board (both sides). Will be installed horizontally unless otherwise specified. Part Number 1562631 - 70" PAC-Trak - 5 pieces required	1	
60-31-8800		> Sliding tray (ea) - 600 pound capacity ENG. NOTE: Specify location Tray #1 - Right side front compartment at floor level Tray #2 - right side rear compartment at floor level ***Hardware requires 3-1/2" of compartment height White reflective stripe is applied on the exposed edge for visibility when the compartment door is open	2	MTL
60-31-9600	S	> Adjustable shelf (ea) ENG. NOTE: Specify location Customer to specify location of shelves and if full depth or shallow depth; Shelf #1 - L1 Depth - shallow Shelf #2 - L2 Depth - full depth Shelf #3 - R1 Depth - shallow Shelf #4 - R3 Depth - shallow White reflective stripe is applied on the exposed edge for visibility when the compartment door is open As discussed with Chief Ed Smith by phone on 11.04.2020	4	MTL
60-32-3560	S	Three adjustable hose divider (each) and one fixed to support hose bed covers Hand hold required in end Location of the dividers as discussed at the pre-construction meeting of 11.07.2019: 1. Beside the ladder storage 60-41-8600 to allow different size ladders to be stored 2. Fixed in the middle to support the hose bed covers 60-33-5000 3. Adjustable in the left side of the hose bed 4. Adjustable in the left side of the hose bed - stop short of the water fill tower As confirmed with Chief Ed Smith on 11.04.2020 by phone	1	MTL
60-32-7500	S	Hose bed - aluminum Main hose bed shall have capacity for: 400' - 2.5" DJ hose 150' - 4" rubber jacket supply hose 400' - 1-1/2" DJ hose The hose bed will run the full length of the body as discussed at the pre-construction meeting of 11.07.2019	1	MTL
60-33-0000		Paint exterior - Imron Elite *** Paint code and colour red to match cab	1	MTL
60-33-0200		Undercoat vehicle with KROWN rust protection	1	MTL
60-33-0600		Chassis wheels not painted Polished aluminum wheels included with the chassis - hubs remain OEM painted.	1	MTL
60-33-1000	S	Paint plumbing job colour	1	MTL
60-33-1600		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.	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
60-33-2300	S	Lettering - as per the Customer's requirements *** Vinyl letters, Fire Department to provide details on location and text. Lettering will match M11-16100 where possible. This will be Listowell Unit #13 There will be a Maltese cross on the hood - See picture in F:\Data\Jacques\Current project\North Perth\Pictures. Lettering arrangement drawing approved by Todd Finnie.	1	MTL
60-33-3300	S	Reflective stripe - as per the Customer's requirements 50% of perimeter each side and 25% of perimeter front 3M Scotchlite material Striping arrangement drawing approved by Todd Finnie	1	MTL
60-33-3310		Reflective stripe - red and yellow chevron at rear Minimum 50% of rear vertical surface. Printed 3M Scotchlite material	1	MTL
60-33-3600	S	White reflective stripe - inside entry doors 96 square inches minimum inside each cab and crew cab entry door	1	MTL
60-33-5000	S	Aluminum cover over hose bed with end tarps - black An aluminum hose bed cover shall be provided to cover the full length of the hose bed and shall be substantial enough to support being walked on. The top surface of the cover shall be designed to be non-slip (embossed aluminum treadplate. There will be a hole left above the water fill tower to allow the cover to open. Door ajar switches required. Gas struts and safety chains are included. Tie off loops, rail, or tie off mechanisms are not included. Rear flaps with Velcro straps will be provided on the rear of the cover to tie around footman's loops. Chief Ed Smith has approved the layout to match Aylmer M20-20922 - as confirmed by e-mail on 11.06.2020	1	MTL
60-40-5500		Suction hose tube (each) with door Locate at rear under the tee of tank - one each side. For the storage of the 3" x 10' suction hoses 80-11-2000 Door ajar switches required.	2	MTL
60-41-1015	S	Pike Pole tube in suction hose tube One tube will be 2" ID round for storage of the 12' pike pole 80-13-253A. One tube will be rectangular in shape for the storage of the 6' pike with "D" handle 80-13-2520 There will be a label on each door to highlight which pike pole is stored in each tube as discussed at the pre-construction meeting of 11.07.2019.	2	MTL
60-41-6005	S	> Zico horizontal electric 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 Right side - for the storage of the Customer's 1800 US gallon Husky portable tank. To be wired so only operable when park brake is engaged. Flashing lights and white reflective tape required at front and rear to indicate any areas that protrude beyond the body. Customer specified the dimension of the portable tank to be installed; OA length - 124" OA width - 30" OA folded thickness - 7" There will be a sanded aluminum plate installed at the front and rear of the porta tank rack to prevent wind from damaging the tank as discussed at the pre-construction meeting of 11.07.2019	1	MTL
60-41-6010		ZICO PTS switched at rear above tail light Switch is located on same side as electric rack - Right side.	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
60-41-8600	S	Top Mount ladder slideway A slide-way will be installed in the right most part of the hose bed for storage of the 24' two section ladder 80-14-0505 and the 10' folding attic ladder 80-14-8510. A NFPA compliant holding device will be installed at rear to hold ladders in place. The restraint will be a seatbelt as installed on M07-7835 and discussed at the pre-construction meeting of 11.07.2019	1	MTL
60-91-0900	U	Coffin Compartment - across hose bed behind water fill There will be a hose bed coffin compartment mounted behind the water fill tower stretching from side to side of the hose bed 20" wide. It will have enough room for two (2) flat shovels, two (2) round shovels and two (2) small brooms (department to fit the broom to the space available). Hose bed cover 60-33-5000 will cover this coffin compartment as discussed at the pre-construction meeting of 11.07.2019	1	
INSTRUMENTATION				
70-11-0000		Warning Label on Pump Operator's Panel	1	MTL
70-11-1500	S	Stainless steel control panel Panel for required pump and plumbing controls located in L1.	1	MTL
70-11-3200	S	Colour coded tags Tags will be Metric units as discussed at the pre-construction meeting of 11.07.2019.	1	MTL
70-11-80AA	U	Heater in pump compartment (left side compartment) Located in L1 where space permits. 25K BTU - p/n 1130783 - preferably towards the right side of the compartment at the depth change as discussed at the pre-construction meeting of 11.07.2019 Switch for the heater to be located on the operator panel in the left front side compartment (with pressure gauge(s) and primer control.	1	
70-20-1120	U	4-1/2" compound gauge - dual face 0-400 Located on the operators panel in the left front side compartment	2	
70-20-1500	S	2-1/2" pressure gauge - dual face 0-400 Located on the operators panel in the left front side compartment . P/n 1530200	2	MTL
70-20-15AA	U	Pressure gauge in cab for Tornado bumper mounted monitor - dual face 0-400 Mounted near the joystick monitor control in cab. SOPT #461 P/n 1530200	1	
70-20-2500		Primer control Located on the operators panel in the left front side compartment	1	MTL
70-20-3660	U	FRC tank level gauge - WLA300 series in front left compartment and on rear Located on the operators panel in the left front side compartment. P/N's 1530762 (primary) & 1530763 (remote for rear) SOPT #59 - truck specific - in file	1	
70-21-5500	S	Readout for Battery Conditioner Located left side cab step area.	1	MTL
ACCESSORIES				
80-11-20AA	U	3" x 10' lightweight suction hose (ea) with 2-1/2" CSA couplings Harrington brand hoses unless otherwise specified. Tube mounted.	2	MTL
80-13-0513	U	PAC Toolok 1003 for mounting of Customer supplied rubber mallet P/n 1562258 Mounted in the L1 compartment but final location will be determined at the final inspection visit as discussed at the pre-construction meeting of 11.07.2019	1	

PART NO	S	DESCRIPTION	QTY	ID
80-13-1100	S	<i>Hose wrenches (triple) with holder</i> Mounted in the L1 compartment but final location will be determined at the final inspection visit as discussed at the pre-construction meeting of 11.07.2019	1	MTL
80-13-1500	S	<i>Bar with bracket</i> To be mounted on the tool board 60-31-8210 as discussed at the pre-construction meeting of 11.07.2019	1	MTL
80-13-2516	U	<i>Pike pole, fiberglass handle - 12' long</i> P/n 1520795 SOPT #1217 - truck specific - in file There will be a label on each door to highlight which pike pole is stored in each tube as discussed at the pre-construction meeting of 11.07.2019.	1	
80-13-2520	S	<i>Pike pole, fibreglass handle - 6' long - "D" handle</i> There will be a label on each door to highlight which pike pole is stored in each tube as discussed at the pre-construction meeting of 11.07.2019.	1	MTL
80-13-4000	S	<i>Axe, pick head, fibreglass handle and bracket</i> Mounted on tool board 60-31-8210 with PAC bracket listed in 80-99-30AA as discussed at the pre-construction meeting of 11.07.2019.	1	MTL
80-13-4500	S	<i>Axe, flat head, fibreglass handle and bracket</i> Mounted on tool board 60-31-8210 with PAC bracket listed in 80-99-30AA as discussed at the pre-construction meeting of 11.07.2019..	1	MTL
80-14-0505	U	<i>Duo Safety 24' two section extension ladder</i> P/n 1520237 Tube mounted	1	
80-14-8510	U	<i>Duo Safety 10' folding attic ladder</i> P/n 1520255 Tube mounted	1	
80-18-0600	S	<i>SCBA brkt w/strap - ZICO ULLH</i> Evenly spaced in right side compartment over rear wheels and installed on unistruts to allow adjustment. Each SCBA requires 13" of width as discussed at the pre-construction meeting of 11.07.2019 Customer confirmed Zico ULLH brackets are compatible with the SCBA packs to be stored	3	MTL
80-19-0500	S	<i>Large folding wheel chock - aluminum (ea)</i> Stored in the 80-19-0600 brackets under left side front compartment ahead of rear wheels.	2	MTL
80-19-0600	>	<i>Horizontal bracket for folding wheel chock (ea)</i> ENG. NOTE: Specify location, otherwise ship loose Located under left side front compartment ahead of rear wheels.	2	MTL
80-99-05AA	U	<i>Zico UHH-2 helmet holder - supply and install (ea)</i> P/n 1562643 SOPT #426 - truck specific - in file To be shipped loose with mounting fasteners for customer installation after delivery as discussed at the pre-construction meeting of 11.07.2019.	3	
80-99-10AA	U	<i>Flare kit for transportation safety package</i> SOPT in file. These will be shipped loose with the other transportation safety items. P/n 1580317	1	
80-99-15AA	U	<i>Secure mounting for two (2) Customer supplied portable radios in cab</i> Mounting plate will be on passnger dash like M07-7835 as discussed with Chief Ed Smith by phone on 10.28.2020. The customer will send two (2) charger bases for final install which arrived at Metalfab 11.02.2020	1	

PART NO	S	DESCRIPTION	QTY	ID
80-99-20AA	U	TFT Tornado RC Monitor on front bumper, control in cab (joy stick) Monitor components (similar to Lucan-Biddulph) are as follows; 1 - 1521662 - Y2-E84A RC Tornado Monitor 1 - 1521663 - YE-VK-PH 2" Electric valve 1 - 1521665 - B-TO-ERP 1-1/2" RC Nozzle 1 - 1521687 - Y4E-JS-51 Joystick control Joystick to be located in cab in a custom fabricated box on the left side cup holder. This will match Watford M20-20575 pic DSC_4428. As approved by Chief Ed Smith by phone on 10.28.2020 SOPT #966 - truck specific - in file ***Engineering to confirm component numbers before ordering***	1	
80-99-25AA	U	36" Demolition bar (crowbar) - mounted Mounted on tool board 60-31-8210 as discussed at the pre-construction meeting of 11.07.2019 SOPT in file Acklands Grainger Item #GARGPWB36	1	
80-99-30AA	U	Various PAC brackets and tracks Brackets shall be supplied as per 7.7 of RFP and shall include the following; 1 - PAC K5010-12 Kit for sledge hammer - (1561559 & 1562215) 1 - PAC K5011 Flat head axe hanger/pocket - (1562667) use with 80-13-4500 on tool board 60-31-8210 1 - PAC K5012 Pick head axe hanger/pocket - 1562670) use with 80-13-4000 on tool board 60-31-8210 1 - PAC K5029-1 Kit for mounting bolt cutter - (1562662) 1 - PAC K5032 Kit for mounting Haligon tool - (1562224) The above shall be mounted as directed by the Customer, otherwise shipped loose with mounting fasteners. SOPT in file	1	
80-99-50AA	U	Assorted hardware/fasteners A box of the commonly used fasteners shall be included and shipped loose with the apparatus.	1	