



CITY OF MARSHALL
Equipment Review Committee
A g e n d a
Thursday, September 22, 2022 at 1:00 PM
City Hall, On Main

APPROVAL OF AGENDA

APPROVAL OF MINUTES

1. Consider approval of the minutes from the committee meeting held on November 11, 2021.

TABLE

OLD BUSINESS

NEW BUSINESS

2. Fire Department Purchase of 2 Grass Rig Skid Units
3. Replacement of 1994 Aerial Apparatus

ADJOURN

CITY OF MARSHALL AGENDA ITEM REPORT

Meeting Date:	Monday, September 12, 2022
Category:	APPROVAL OF MINUTES
Type:	ACTION
Subject:	Consider approval of the minutes from the committee meeting held on November 11, 2021.
Background Information:	Enclosed are the minutes from the committee meeting held on November 11, 2021.
Fiscal Impact:	None
Alternative/ Variations:	Staff encourages City Council Members to provide any suggested corrections to the minutes in writing to City Clerk, Steven Anderson, prior to the meeting.
Recommendations:	That the minutes from the committee meeting held on November 11, 2021, be approved as filed with each member and that the reading of the same be waived.

MINUTES
COUNCIL EQUIPMENT REVIEW COMMITTEE
Tuesday, November 23, 2021 at 2:00 PM
City Hall, On Main

MEMBERS PRESENT: Craig Schafer, Jim Lozinski, Don Edblom

STAFF PRESENT: Sharon Hanson, City Administrator; Jason Anderson, Director of Public Works/ City Engineer; Dean Coudron, Public Ways Superintendent, and Kyle Box, City Clerk

Chairman Edblom called the meeting called to order at 2:00 PM.

Chairman Edblom asked for approval of the minutes for the October 12 meeting.

Motion by Lozinski, Seconded by Schafer to approve the minutes. All voted in favor.

Chairman Edblom asked for discussion on the Loaded Mounted snow Blower for the Street Department. Dean Coudron, Public Ways Superintendent provided the background information on the agenda item.

The City of Marshall Street Department owns two loader-mounted snow blowers for use in blowing windrowed snow from downtown areas, blowing back snow in drifting areas, and blowing snow in some parking lot applications. The snow blowers are critical pieces of our snow removal operations, and they experience significant duty time following snow events.

We currently have a 1996 SnoGo MP-3 and a 1976 SnoGo MP-3D. The 1976 unit is smaller, belt-driven, and slightly underpowered for the work that we perform. The blower is very old and finding parts to make necessary repairs is difficult.

It is very critical for the Street Department to have dependable snow removal equipment to ensure that we can quickly and efficiently clear our streets of snow and ice. Replacing our 1976 SnoGo blower with a new 2021 SnoGo MP-300 will ensure that we have two capable blower units to move snow quickly and efficiently. Replacing the older unit will help protect the city from equipment down time for decades to come.

The purchase price of this unit is \$227,996.50 and MacQueen Equipment is offering \$12,256.50 for trade-in value toward our current 1976 SnoGo unit. The 2021 capital budget includes \$200,000 for this purchase, which includes trade-in value. This purchase will cost \$215,740 once trade-in value is considered.

The Committee supported the SNOGO MP 300 HP Cummins but requested that staff provided supporting documentation regarding the budget for the full council and public.

Motion by Lozinski, Seconded by Schafer recommend to the City Council that city staff purchase a SnoGo MP-300 at the State Contract price of \$215,740, less trade, from MacQueen Equipment of St. Paul, Minnesota.

Chairman Edblom asked for discussion on the Enterprise Fleet Management update. City Clerk provided to date update on the agenda item.

At 2:34 P.M., Motion by Lozinski, Seconded by Schafer to adjourn. All voted in favor.

Respectfully submitted,

Kyle Box
City Clerk

CITY OF MARSHALL AGENDA ITEM REPORT

Meeting Date:	Tuesday, September 13, 2022
Category:	NEW BUSINESS
Type:	ACTION
Subject:	PURCHASE 2 GRASS RIG SKID UNITS
Background Information:	<p>The Marshall fire dept. has 2 grass/brush trucks that currently have Heiman skid units in the back of them, that hold 300 gallons of water, have a gas small engine pump, and 1" rubber hose on a mechanical reel, to extinguish grass, brush, and small trash fires. The current units that we have also have a foam manifold for incorporating a small concentrate of foam into the line if necessary. The current units that we have are at the end of their lives and are being held together by radiator hoses and hose clamps and it's time to replace. The age of the current units is unknown and were here since before I started here nearly 20 years ago. We have spec'd these units out with Heiman Fire Equipment and Alex Air Apparatus. Heiman builds their skid units in house and Alex Air Apparatus subcontracts to a 3rd party to build. It's difficult to spec these to make it easy to bid, because both manufacturers build custom to what our needs are. However, the bid from Alex Air Apparatus is very limited on their customization, where Heiman Fire Apparatus will build to fit our pickup box, to maximize water capacity and to still carry the appropriate tools that is necessary for our different types of responses. Since Heiman Fire Equipment builds these in house, we can also spec the unit to have 2 water fill intakes (each side of the pickup), a fill gauge, turn the hose reel to be perpendicular to the truck with dual electric hose reel switches (each side of the truck) and include an LED light kit, where the unit from Alex Air Apparatus does not offer these options. You'll note that the bid from Alex Air Apparatus is cheaper by \$1,615.00 but I don't believe it's the same value as the Heiman unit, because of the customization. Heiman's Honda engine has 4 HP more vs. the 20 HP Kohler engine. The tank from Heiman will be slightly larger, with more water capacity (capacity unknown as it needs to be engineered and calculated), than from Alex Air, because they build in house and will build to fit our truck boxes, will have an LED water level gauge, an LED work light, dual water fill intakes (one on each side of the truck), dual electric hose rewind (both sides of the truck). Alex Air was unable to provide these as options. We did NOT spec these units with a foam manifold, like we have now, because we didn't use it enough to warrant the added cost. Please note on the Heiman bid that they've also included a nozzle. This will not be part of this purchase, as we'll purchase those through the general fund levy.</p>
Fiscal Impact:	This purchase was included on the 2022 CIP plan for an amount not to exceed \$34,000. The total cost for 2 skid units from Heiman Fire Equipment is \$32,850.00
Alternative/ Variations:	Nothing
Recommendations:	Purchase 2 – Thunderstorm slide in skid units from Heiman Fire Equipment for \$32,850.00

SKID UNIT - ATTACK PAC

A tank, a live hose reel and/or crosslay, a portable fire pump and/or a compressed air foam system (CAFS), with an engine: these can be combined into a single one-piece assembly that can be slipped onto a truck bed, trailer, or into a body and used for flowing water and or foam on a structural fire, car fire or wildfire.

The most common wildland and urban interface fire engines in North America combine a small truck with a water tank and a high performance portable pump. Municipal/industrial fire departments and all forestry fire authorities use drop-in units. The sizes vary from 50 gallons, for an ATV, up to 500 gallons for full size trucks.



SPECIFICATIONS:

- 200 fully baffled propylene water tank
- 20hp mid range fire pump
- 265gpm at 50psi, 190gpm at 100psi, 115gpm at 150psi and 45gpm at 200psi
- 3 gallon fuel tank
- Lighted control panel
- Low profile electric rewind hose reel
- 1 inch x 100 foot booster hose
- 2.5 inch tank to pump 1/4 turn ball valve
- Steel manifold with multiple outlets
- 1.5 inch service line with cap and chain
- 3/4 inch pressurized garden hose connection

OPTIONS:

- Increase water tank and hose reel sizes
- Diesel engine available
- Pre-connect hose tray with connection
- Set of chrome outriggers with 3 ways rollers
- Scotty around the pump foam system with integrated foam cell
- Storage frame
- Stainless steel piping
- Also available with CAFS systems
- And many more



ACCEPT ONLY THE BEST™

75 Hector St., P.O. Box 90, Pierreville (Québec) Canada J0G 1J0

Telephone: 1-800-567-2719

Fax: 1-800-434-2613

www.fire-pump.com

WATER TANK

The water tank shall be constructed of 1/2" thick polypropylene sheet stock with PolymarCo-PP™ resin. Water tank shall be welded with Heavy Duty extruded joint. The material shall be of a certified, high quality, non-corrosive, stress relieved thermo plastic, black in color with a textured finish, and UV stabilized for maximum protection. The skid type water tank shall be of a standard configuration and shall be so designed to have complete modular slide in capability. The unit shall incorporate transverse partitions manufactured for 3/8" PT2E polypropylene which shall interlock with a series of longitudinal partitions constructed of 3/8" PT2E polypropylene. All swash partitions shall be so designed to allow for maximum water and air flow between compartments and are fully welded to each other as well as to the inside of the tank. The passenger side rear wall of the tank shall have a standard built in sight gauge 3" in width, and 70% transparent.

FILL TOWER & TANK COVER

The tank shall be equipped with a combination vent/overflow and manual fill tower. The fill tower shall have a 8" x 8" x 8" square hinged type cover. The tower shall be located in the right rear corner of the tank. There shall be a vent / overflow installed inside and to the extreme rear of the tower approximately 2" down from the top. This vent / overflow shall be of a standard schedule 40 polypropylene pipe with minimum ID of 3". The vent / overflow shall be piped internally toward the front and exit out the front tank wall with a 1/2" extension past the front tank wall. The tank cover shall be constructed of 1/2" thick PT2E polypropylene, black in color, UV stabilized.

TANK CAPACITY

The tank shall have a capacity of 200 U.S. gallons of water.

SUMP

The floor of the tank shall be manufactured from 3/4" PT2E polypropylene. There shall be one (1) sump as standard per tank. The sump shall be integral to the tank floor and be a minimum of 3/8" deep recessed into the floor. The sump shall not be visible from or protrude through the bottom of the tank.

TANK OUTLETS

There shall be two standard tank outlets located in the same vertical plane on the driver side rear wall of the tank. One (1) 2-1/2" female NPT tank to pump suction fitting and one (1) 1-1/2" female NPT tank fill fitting with flow deflector

1" TANK DRAIN

There shall be a 1" tank drain to the rear side of the tank with a brass plug.

TANK MOUNTING BLOCKS

The cover shall incorporate two (2) booster reel mounting blocks that shall accommodate two (2) each sliding nut fasteners. These 4" large mounting blocks shall be welded to the covers running from the rear edge of the tank forward to the front edge.

SKID BASE

There shall be a full width skid base manufactured of 3/4" PT2E polypropylene welded to the tank. This base shall be 48" wide by 96" long and shall extend 34" past the tank in the rear to allow for pump mounting. The pump mounting area shall be supported by 1/2" PT2E polypropylene gussets approximately 15" high by 32" long. The gussets shall be equipped with 2" holes to assist in lifting the unit. The mounts shall allow for the truck to be secured directly to a truck bed without the need for any skid frame work underneath.

Tank will be baffled in accordance with latest NFPA requirements.

PUMP

The pump shall be a CET DI-PFP-20hpKHL-MR single stage centrifugal pump, bolted directly to the engine, with a 2.5" NPT suction inlet, and a 1.5" NPT discharge outlet. The volute and pump head shall be a lightweight, high strength, seawater resistant, aluminum alloy. The impeller shall be a bronze enclosed type for maximum efficiency, fully machined and balanced. The engine crankshaft shall serve as the pump shaft, with the impeller mounted directly on the crankshaft. The shaft seal shall be self-adjusting, self lubricating, mechanical type.

The pump piping shall be flexible to prevent any breakage caused by vibration.

The pump shall be capable of a maximum discharge volume of 265 GPM. at 50 PSI, and a maximum discharge pressure of 200 PSI while pumping 45 GPM. In the center of the performance curve, the pump shall be capable of pumping 115 GPM at 150 PSI and 190 GPM at 100 PSI.

PUMP ENGINE

The pump shall be driven by a 4-stroke Kohler gasoline powered, 20 horsepower "V" Twin engine. The engine shall be air cooled, 12 volt electric start with recoil backup. The engine shall be fueled from a 3 gallon separate fuel tank which is to be mounted to the skid cover. The engine shall be connected with a quick disconnect weather proof style connection.

PUMP CONTROLS

A control panel shall be supplied and installed on the pump. The controls shall consist of a master switch, key start and a 2.5" diameter discharge pressure gauge.

EXHAUST PRIMING SYSTEM

The pump engine shall be equipped with an exhaust venturi type primer capable of 15' - 20' lift for fast positive priming.

SUCTION PIPING

All piping on the suction side shall be made of steel (welded joints) schedule 40. The suction piping, the pump and the discharge shall be tested to 400 PSI.

The suction piping shall consist of a 2.5" tank to pump line with a 2.5" flexible rubber hump hose to minimize flex and vibration between the pump and the tank.

Between the tank and the pump there shall be a 2.5" industrial valve. This valve shall remain open to pump from the tank. This pipe shall have a tee into the suction side of the pump, and shall continue to the rear of the truck for overboard suction.

The overboard suction connection shall have a 2.5" NST male adapter and a 2.5" NSTF cap with retaining cable

WORK LINE SIDE OF MANIFOLD

On the driver side of the manifold there will be as standard two (2) 1" NPT and two (2) 1 1/2" NPT discharge outlets.

OTHER VALVES

Other openings will be utilized accordingly when pre-connects, booster reels and other accessories that require pressurized water are specified.

DISCHARGE VALVES

All valves larger than 1" shall be a fire service type drop out style ball valve which shall have a hard-coated anodized, high-strength, light-weight aluminum alloy body with rugged stainless steel ball and two PTFE seats.

The valves shall be capable of bi-directional flow with a minimum working pressure rating of 250 psig.

All stainless steel parts shall be made from 300 series material. The valves shall NOT require lubrication of the seats or any other internal waterway component and shall be capable of swinging out of the attached waterway plumbing for easy maintenance, with the removal of six (6) to eight (8) bolts.

Any required valve 1" or smaller, unless otherwise specified, shall be a standard plumbing style industrial ball valve

DISCHARGES MANIFOLD

There shall be a discharge manifold plumbed directly to the discharge side of the pump to incorporate discharges at the rear of the unit.

This discharge manifold shall be 2" x 2" square minimum and be welded on all sides to prevent leakage. The manifold will be made from industrial galvanized steel and painted red in color.

DISCHARGES TO REAR OF UNIT

A 1 1/2" fire grade valve drop out style with handle and 1 1/2" NSTM threads shall be furnished with a cap and chain.

A 3/4" garden hose thread discharge will be mounted on the discharge manifold facing the rear of the unit utilizing a industrial ball valve and will be equipped with a cap and chain.

TANK FILL

There shall be one (1) 1" Industrial Ball valve plumbed via high pressure hose from the manifold to the Tank Fill inlet noted on the tank for the purpose of filling the tank and re-circulating water during stagnant pump operations.

12V ELECTRIC REWIND LOWPROFILE BOOSTER REEL

A Low Profile Hannay 12v electric rewind booster reel capable of handling a maximum of 100' of 1" rubber only booster hose shall be supplied and installed on the tank top. The hose reel shall be protected against power shortage.

The reel shall have a push button rewind control and a backup geared crank rewind handle.

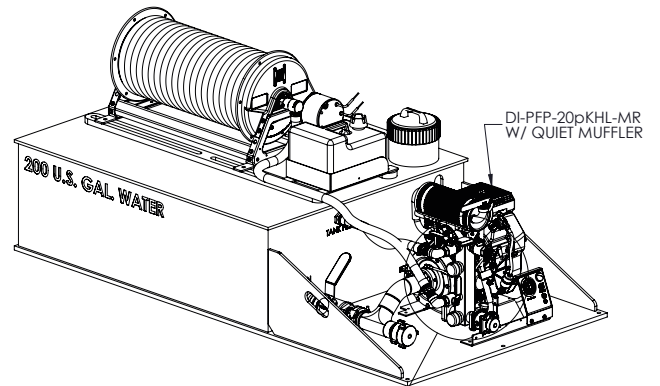
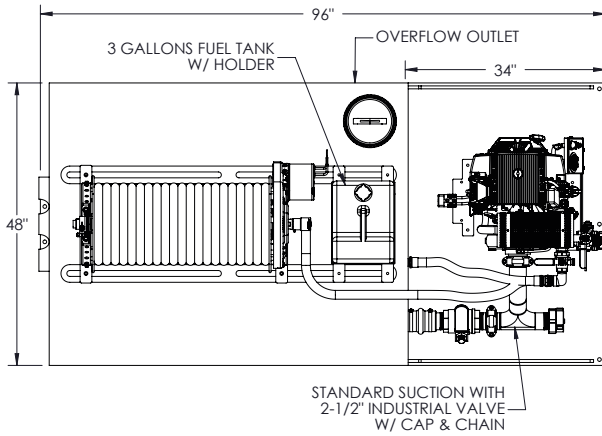
The reel shall be equipped with a 1" NPT 90 degree swivel inlet, and a 1" NST outlet riser.

The reels discs and drum shall be manufactured of steel and be red in color.

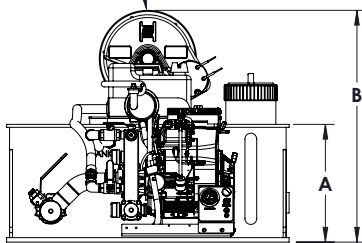
1" NST RUBBER BOOSTER HOSE

The booster reel shall be equipped with 100' of 1" NST standard rubber booster hose.

DP-ATTACK PAC-0701A



ELECTRIC LOW PROFILE HOSE REEL
1" x 100' RUBBER HOSE
MODEL: #EF4038-17-18-RT





1" INDUSTRIAL VALVE
TANK FILL

1" INDUSTRIAL VALVE
W/ 3/4" REDUCER GARDEN HOSE
SERVICE LINE

1" INDUSTRIAL VALVE
HOSE REEL

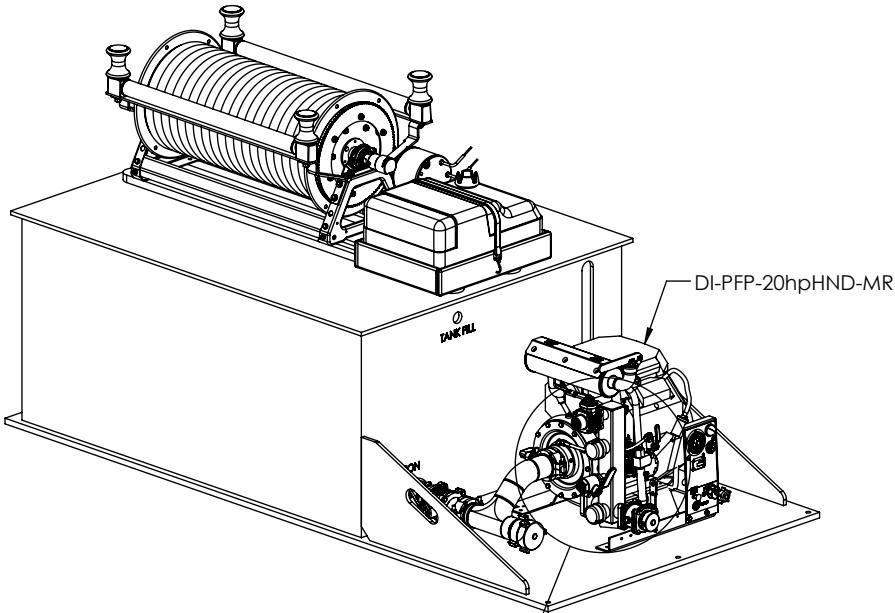
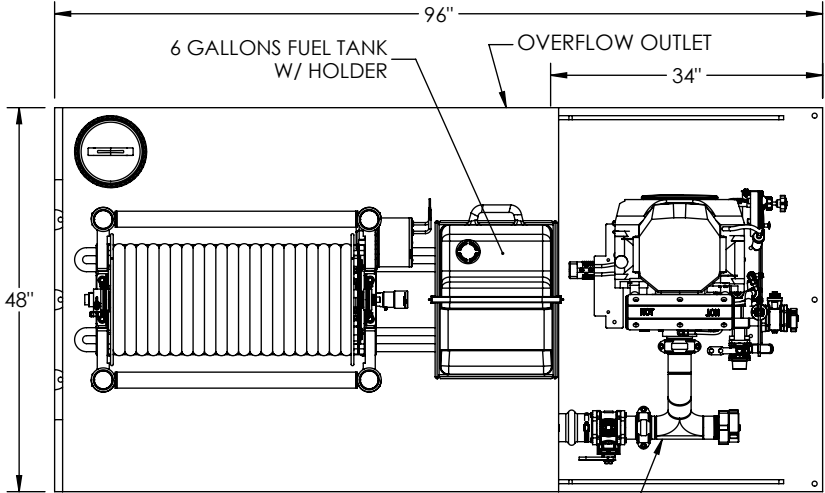
1-1/2" FIRE GRADE VALVE
W/ CAP & CHAIN
SERVICE LINE

CAPACITY (U.S. GAL.)	WATER TANK (A)	OVERALL (B)
200	20"	39-3/8"
250	24-3/4"	44-1/8"
300	29-1/4"	48-5/8"

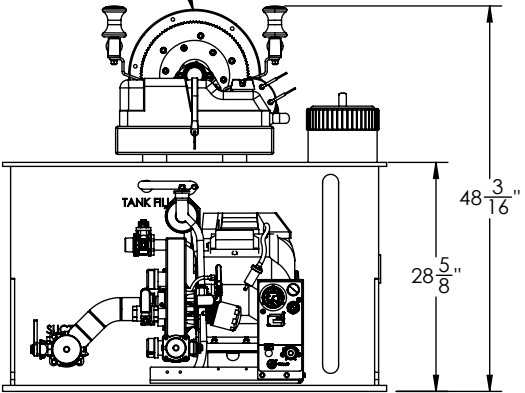
		CREATED		TITLE : C.E.T. ATTACK PAC		WARNING THIS DOCUMENT REMAINS THE PROPERTY OF C.E.T. FIRE PUMPS MFG. ALL REPRODUCTION WITHOUT WRITTEN AGREEMENT FROM C.E.T. FIRE PUMPS MFG IS TOTALLY PROHIBITED.	
		BY: M.V.	200 U.S. GAL. WATER - U.S. GAL. F.C.				
		DATE: 12/07/17					
		VERIFIED	No:		DEFENDER		APPROXIMATE WET WEIGHT
		BY: M.V.	DP-ATTACK PAC-0701A		III		Lbs
		DATE: 12/07/17					

PAGE 1 OF 1

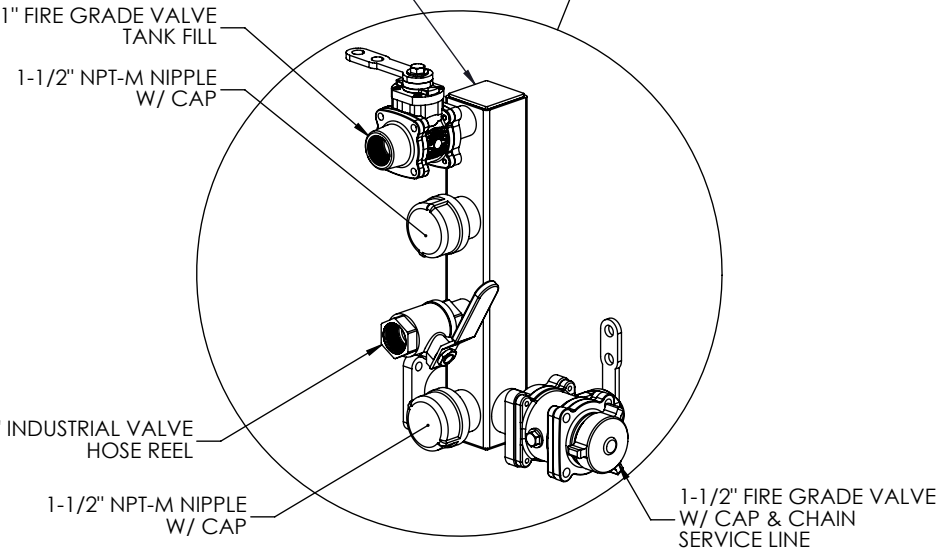
*DRAWING MAY DIFFER FROM REALITY.



ELECTRIC LOW PROFILE HOSE REEL
W/ 3 WAY ROLLERS
1" x 100' RUBBER HOSE
MODEL: #EF4038-17-18-RT



STAINLESS STEEL MANIFOLD



REV.	DATE	BY
------	------	----

TITLE :		MARSHALL FD		APPROXIMATE DRY WEIGHT	QUOTE #
300 U.S. GAL. WATER		- U.S. GAL. F.C.		- Lbs	22940
No:		TANK TYPE	CREATED	APPROXIMATE WET WEIGHT	OPP #
DP-6517-0701		C	BY: M.V.	- Lbs	17950
		DATE: 2022-02-24			

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APPROVED BY

APPROVED DATE



WHEN PROTECTION MEANS EVERYTHING.

HEIMAN FIRE EQUIPMENT

THUNDERSTORM

SLIDE IN UNIT

The
HEIMAN THUNDERSTORM SLIDE IN UNIT
is built for the rigors of the fire service with the
highest quality components to maximize the
integrity, durability, and life of the unit.



standard base price

\$12,695⁰⁰

shipping & delivery charge not included

Item 2.

pictured with additional
features as

Page 14



*pictured with some additional options and upgrades
*foam cell optional

STANDARD FEATURES

- 24 HP Honda engine
- Booster reel, 1" with manual rewind
- 100' 1" booster hose
- 3 piece Elkhart valves with NH thread and ball control handles
- Tank to pump line with valve
 - High Pressure: 2" valve
 - High Volume: 2.5" valve
- 3 gal fuel tank with G3 Fire copoly mounting bracket
- Push/Pull control rod for tank to pump
- Stainless steel manifold
- Expandable discharge manifold with garden hose discharge/drain
 - High pressure model: (1) 1.5" gate valve
 - High volume model: 2.5" x (2) 1.5" gated wye
- Liquid filled gauge on discharge manifold
- 2 1/2" inlet with cap
- 1" tank fill line
- Heavy duty Guzzler hand primer with metal top
- One year warranty on the unit

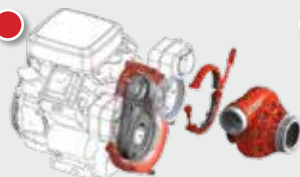
DIMENSIONS

94" L x 48" W

250 gallon: 52" H	400 gallon: 66" H
300 gallon: 56" H	500 gallon: 74" H



Completely enclosed control panel with on/off start, low pressure protection override, vernier throttle, choke, liquid filled gauge, low oil light, & light shield with LED light



"HOT SWAP"
Field replaceable pump end technology



Weather proof electrical box & high pressure flexline plumbing with stainless steel couplings



Elkhart valves with ball control handles on a painted stainless steel manifold



Powder-coated pump base



Push button electric rewind system



3 gal fuel tank with copoly mounting bracket



- Removable top with sleek stainless steel bolts
- Clearly labeled & color coded foam and water fill towers with strainer

Choice of **PUMPS****STANDARD HIGH-PRESSURE PUMP**

- 4-Stage Hotshot Pump Standard
- Honda engine
- Rotary & mechanical seals
- Centrifugal pump
- Sealed ball bearings
- Brass wear ring
- Stainless steel shaft
- Belt driven speed increaser for lower rpm's and higher pressure

HIGH VOLUME PUMP

- Aluminum alloy pump casing
- Bronze impeller
- Stainless steel shaft
- Mechanical shaft seal

REPLACE YOUR ENTIRE PUMP IN MINUTES!

The Thunderstorm Slide in Unit now comes plumbed ready for our exclusive "hot swap" quick change pump technology allowing users to quickly and easily field replace the Hot Shot 4 pump with minimal tools, because sometimes things happen. Purchase our optional pump end replacement kit and never be without a pump in the field.



Quick-release clamp & pump end

KIT INCLUDES

- Hot Shot 4 or Hellcat X2 pump end with quick-release clamp & 2 grooved bolt-on coupling clamps
- (1) 8" adjustable wrench
- (1) 7/16" wrench
- (1) 11/16" wrench

Release the clamp, use the wrenches to remove the bolt-on couplings, and then replace pump end with new one.

HIGH PRESSURE/MID RANGE "HOT SWAP" FIELD REPLACEABLE PUMPS

4-STAGE 4087-100032 MAX PRESSURE: 440 PSI MAX FLOW: 106 GPM	MID RANGE 4087-100067 MAX PRESSURE: 200 PSI MAX FLOW: 300 GPM
430 psi @ 10 gpm	290 gpm @ 10 psi
415 psi @ 20 gpm	275 gpm @ 50 psi
350 psi @ 65 gpm	215 gpm @ 100 psi
250 psi @ 94 gpm	112 gpm @ 150 psi
150 psi @ 105 gpm	50 gpm @ 175 psi

ADDITIONAL OPTIONAL PUMPS & PERFORMANCE

2-STAGE 3266-HHP24-H	HALE 3266-HAL30024H	DARLEY 3266-DAR24H
325 psi @ 35 gpm	380 gpm @ 25 psi	390 gpm @ 25 psi
295 psi @ 50 gpm	320 gpm @ 50 psi	300 gpm @ 70 psi
200 psi @ 90 gpm	240 gpm @ 75 psi	180 gpm @ 120 psi
150 psi @ 120 gpm	150 gpm @ 100 psi	95 gpm @ 150 psi

Standard **TANK** features

Engineered to withstand the rigors of the fire service, G3 Fire® MAGNITUDE copolymer polypropylene is UV stabilized with 10x the impact strength of standard polypropylene even through wide temperature ranges.

- 250 gallon, lightweight & corrosion resistant G3 Fire® MAGNITUDE copolymer polypropylene tank with limited lifetime warranty
- Full NFPA baffling
- Removable top for cleaning & service
- Built-in water sight gauge
- An internal sump designed for maximum water usage

ADDITIONAL INSTALLED OPTIONS & ACCESSORIES

Push button electric rewind system

+ \$585⁰⁰

Scotty foam system

+ \$1100⁰⁰

copolymer polypropylene hose tray

+ \$445⁰⁰

water level indicator

+ \$655⁰⁰

2.5" inlet w/cap and optional valve

+ \$525⁰⁰

Silvex Plus or Phos Chek foam

+ \$135⁰⁰/pailBubble Cup nozzle
1" 10/24 gpm**+ \$370⁰⁰**

Tip 1.5" 20/60 gpm

+ \$99⁰⁰

LED work light

+ \$175⁰⁰

HIGH PRESSURE/MEDIUM VOLUME PUMP

<input checked="" type="checkbox"/> 4087-100108.....	HONDA HIGH PRESSURE 4 STAGE.....	[STANDARD]	\$ STANDARD
<input type="checkbox"/> 3266-HHP24-H.....	HONDA HIGH PRESSURE.....	[ADD \$470]	\$

HIGH VOLUME/MEDIUM PRESSURE PUMP

<input type="checkbox"/> 4087-100122.....	HONDA MID-RANGE 2-STAGE.....	[NO CHARGE]	\$
<input type="checkbox"/> 3266-HAL30024H.....	HONDA HIGH VOLUME (HALE).....	[ADD \$260]	\$
<input type="checkbox"/> 3266-DAR24H.....	HONDA HIGH VOLUME (DARLEY).....	[ADD \$370]	\$
<input type="checkbox"/> OTHER: PLEASE SPECIFY.....		[ADD _____]	\$

<input type="checkbox"/> 4000-T-H200.....	200 GALLON COPOLY TANK.....	foam cell.....	[DEDUCT \$100]	\$
<input type="checkbox"/> 4000-T-H250.....	250 GALLON COPOLY TANK.....	foam cell.....	[STANDARD]	\$
<input type="checkbox"/> 4000-T-H300.....	300 GALLON COPOLY TANK.....	foam cell.....	[ADD \$450]	\$
<input type="checkbox"/> 4000-T-H400.....	400 GALLON COPOLY TANK.....	foam cell.....	[ADD \$1000]	\$
<input type="checkbox"/> 4000-T-H500.....	500 GALLON COPOLY TANK.....	foam cell.....	[ADD \$1900]	\$
<input checked="" type="checkbox"/> 4000-CUSTOM TANK.....			[ADD \$885]	\$ 885
<input type="checkbox"/> 4000-CUSTOM SKID.....			[ADD \$_____]	\$

<input checked="" type="checkbox"/> 2904-EF32-23-24.....	In place of standard manual reel.....	[ADD \$5 85]	\$ 585
<input type="checkbox"/> 2904-EF4038.....	In place of standard manual reel.....	[ADD \$275]	\$
<input checked="" type="checkbox"/> 2904-FH3.....	ROLLER & SPOOL ASSEMBLY ON REEL: []top []bottom..	[ADD \$2 75 ea]	\$ 550
<input type="checkbox"/> 2930-575.....	ADDITIONAL 50' OF 1" BOOSTER HOSE.....	[ADD \$2 90]	\$
<input type="checkbox"/> SECOND REEL.....	Electric Rewind, on top of tank, includes plumbing (add hose).....	[ADD \$1 700]	\$
<input type="checkbox"/> 1111-32.....	NO HOSE REEL.....	[DEDUCT \$390]	\$
<input type="checkbox"/> 1111-33.....	NO STANDARD 100' BOOSTER HOSE.....	[DEDUCT \$400]	\$
<input type="checkbox"/> 2118-BLCHY.....	Lightweight, easy handling lead-in booster hose, 12.5'.....	[ADD \$83]	\$

<input type="checkbox"/> 1242-S106-1600.....	FOAM PRO SYSTEM, INSTALLED <i>with integrated 10 gal foam cell</i>	[ADD \$6,700]	\$
<input type="checkbox"/> 3306-4072-H/cell.....	SCOTTY FOAM SYSTEM, INSTALLED <i>with integrated 10 gal foam cell...</i>	[ADD \$1,100]	\$
<input type="checkbox"/> 3306-4074-H/pickup.....	SCOTTY FOAM SYSTEM, INSTALLED <i>with pick up tube and threaded cap for department supplied foam pails</i>	[ADD \$550]	\$

<input checked="" type="checkbox"/> 1430-08825001-FPMN ...	GATED INLET, ELKHART.....	[ADD \$525]	\$ 525
<input type="checkbox"/> 1430-08815101-MPMN ..	Additional 1.5" DISCHARGE W/ VALVE.....	[ADD \$395]	\$
<input type="checkbox"/> 4000-CPPHT.....	COPOLY HOSE THROUGH for 1.5" hose [] PS [] DS.....	[ADD \$445]	\$
<input checked="" type="checkbox"/> 2803-ITL-4L.....	HALE/CLASS 1 WATER LEVEL LIGHT GAUGE.....	[ADD \$655]	\$ 665
<input type="checkbox"/> 1111-INSTALL.....	INSTALL MASTER SWITCH, UNIT, AND WIRE.....	[ADD \$475]	\$
<input checked="" type="checkbox"/> 4109-H71030401.....	LED WORK LIGHT.....	[ADD \$175]	\$ 175
<input type="checkbox"/> 4087-250238.....	12 VOLT ELECTRIC PISTON PRIMER INSTALLED.....	[ADD \$795]	\$
<input type="checkbox"/> 4087-600006.....	PUMP END REPLACEMENT KIT (4-STAGE) HOT SHOT 4.....	[ADD \$1925]	\$
<input type="checkbox"/> 4087-600007.....	PUMP END REPLACEMENT KIT (MIDRANGE) HELLCAT X2.....	[ADD \$1925]	\$
<input type="checkbox"/> UNDER SKID STORAGE COMPARTMENT W/DOOR.....		[ADD \$1300]	\$
<input type="checkbox"/> CROSSLAY PLUMBED.....		[ADD \$1200]	\$
<input checked="" type="checkbox"/> One (1) additional rewind button, poly bracket, wiring and installation		[ADD \$345]	\$ 345
<input type="checkbox"/>		[ADD \$_____]	\$
<input type="checkbox"/>		[ADD \$_____]	\$
<input type="checkbox"/>		[ADD \$_____]	\$
<input type="checkbox"/>		[ADD \$_____]	\$
<input type="checkbox"/>		[ADD \$_____]	\$
<input type="checkbox"/>		[ADD \$_____]	\$

FOB : Sioux Falls, SD **TOTAL** \$ 16,425.00 each

Remarks: Custom 300 gallon tank 40" Wide
 Additional fill tower (opposite corner)
 uni-strut added to top corner for fuel tank,
 uni-strut each tank side for future mounting,
 two reel rewind buttons, two on/off switches for
 future use, and a guard over tank to pump linkage.
 Actual tank size to be determined and approved.

Date: 04/20/2022 Salesperson: Chris BornitzFire Dept: Marshall Fire Department

Contact: _____

Phone #: _____

Email: chrisbornitz@heimanfire.com
☐ CUSTOMER REQUIRED TO HAVE FORKLIFT AVAILABLE FOR
 DING. *FOR UNITS OVER 7', EXTENDED FORKLIFT REQUIRED

Item 2.

Call your salesman for more options & pricing

Page 17

Date 4-21-22

2320 NW Blvd. Ashton, IA 51232
Ph. 712.724.6212 | 1.800.831.8547
Fax. 712.724.6474 | www.heimanfire.com

SHIP TO		<input type="checkbox"/> same as CUSTOMER
Name _____		
Address _____		
City _____	State _____	Zip _____
Contact Name _____	Contact Ph. _____	
<input type="checkbox"/> Commercial	<input type="checkbox"/> Residential	

Item 2.

Meeting Date:	Monday, September 12, 2022
Category:	NEW BUSINESS
Type:	INFO/ACTION
Subject:	Replacement of 1994 Aerial Apparatus
Background Information:	<p>The current aerial truck the city owns is a 1994 Pierce with 100' rear mounted aerial ladder and 2000 gpm Waterous pump. It was initially on the CIP for replacement in 2020, but was evaluated to push back 5 years, as it was refurbished in 2012 for a cost of \$155,838.76. We formed a committee in April 2022, to develop the specs of this custom apparatus to best fit the needs of the City of Marshall and the Fire Dept for the next 30-35 years. Custom fire apparatus is getting larger and larger, so one of the requirements was that it needed to fit into the fire station without any modifications to the building. This meant we would need to change our current, rear mounted aerial, with the turntable in the rear, and the platform out the front of the truck, to have the turn table mounted in the middle of the truck with the platform in the rear of the truck. This would mean that the fly sections of the ladder no longer rest on the top of the truck cab and means a lower clearance to fit into the building with no modifications. Due to the shorter fly sections, because it no longer spans the entire length of the truck, it would require increasing the number of sections from 3 to 5. After evaluating and operating aerial devices in the cities, it was determined by the committee that we can utilize this style of truck better, than a rear mounted aerial, especially for the newly formed technical rescue team.</p> <p>This truck is in the CIP for replacement in 2025 currently. However, it has been proposed that it will take 27-31 months from receipt and acceptance of the contract (Dec. 2024 - April 2025) or for the Pierce truck, and "600 days" (April 2024) for the Rosenbauer. The current proposed bids are as follows:</p> <p>MacQueen Equipment LLC (Manufacturer: Pierce): \$1,813,107</p> <p>This option does have a 100% prepay discount of \$66,872 if we paid in full at contract execution for a final cost of \$1,746,235.00 (3.68% discount off bid price)</p> <p>General Safety Fire Apparatus (Manufacturer: Rosenbauer): \$1,470,838</p> <p>This option also has a 100% prepay discount of \$61,263 within 15 days of contract acceptance for a final cost of \$1,409,575.00 (4.16% discount off bid price)</p> <p>If the council isn't interested in 100% prepay, there is an option to prepay for the Chassis (\$444,695) when it's delivered to the Rosenbauer plant in Wyoming, MN, which we can deduct \$17,075 for a total of \$1,453,763.00. There's also an option to prepay for the Aerial (\$451,664) upon its delivery and we can deduct \$8,802 for a total of \$1,462,036.00. If the council prepays for both the chassis and aerial, with both deductions, the final price would be \$1,444,961.00 (1.75% discount off bid price)</p> <p>We've been told by MacQueen Equipment LLC that the price quoted above was good until October 31, 2022, and after that, we could be subject to a 7% price increase. This was only verbal,</p>

	nothing in writing. We have nothing in writing, nor verbal from Rosenbauer discussing a price increase. Both bids we received were valid for 30 days.
Fiscal Impact:	\$1,444,961.00
Alternative/ Variations:	N/A
Recommendations:	Approve bid price from General Safety Fire Apparatus and receive the 1.75% discount by prepaying for the Chassis & Aerial at delivery to Rosenbauer plant.

Thank you for contacting the League with a research question about purchasing a fire truck through the Houston-Galveston Area Council. We are aware of a number of Minnesota cities have used the HGAC to purchase equipment.

Here is an excerpt from a prior email our loss control attorney, Chris Smith, sent after some research into the HGAC:

- After looking at the HGACBuy.com website and [Minn. Stat., Section 471.345](#), it is my opinion a Minnesota city can purchase equipment through HGAC without going through the competitive bidding process.
- [Section 471.345, subd. 15](#) provides that “a municipality may contract for the purchase of supplies, materials, or equipment without regard to the competitive bidding requirements of this section if the purchase is through a...cooperative created by a joint powers agreement that purchases items from more than one source on the basis of competitive bids or competitive quotations.”
- Although the term “cooperative” is not defined, the HGACBuy website does refer to itself as a “cooperative” that is “a unit of local government and a political subdivision of the State of Texas.”
- In 1971, the Texas Legislature passed the Interlocal Cooperation Act to promote activities among local governments across Texas. Any local government or non-profit providing government services may contract or agree with one or more local governments under the terms of this Act to conduct purchasing and other administrative functions. Thus it would appear that HGAC was created by a joint powers agreement. Products offered through HGACBuy have been subjected to the competitive bidding process.
- As such, a Minnesota city may contract (by execution of the Interlocal Contract for Cooperative Purchasing) with HGAC for the purchase of equipment without going through the competitive bidding process.

That said, we consistently recommend that cities check with their city attorney prior to utilizing any cooperative group to ensure the group meets the statutory requirements.

I hope this is helpful, but please feel free to reach out if I can provide additional assistance. Thank you for contacting the League of Minnesota Cities!

Aisia Davis | Staff Attorney

Phone: (651) 281-1271 | adavis@lmc.org

League of Minnesota Cities | 145 University Ave. West | St. Paul, MN 55103

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Statutes, codes, and regulations

Minnesota Statutes

Municipalities

Chapter 471 - Munici...

Minn. Stat. § 471.345

Current through 2022, c. 99

Section 471.345 - UNIFORM MUNICIPAL CONTRACTING LAW

Subdivision 1. Municipality defined.

For purposes of this section, "municipality" means a county, town, city, school district or other municipal corporation or political subdivision of the state authorized by law to enter into contracts.

Subd. 2. Contract defined.

A "contract" means an agreement entered into by a municipality for the sale or purchase of supplies, materials, equipment or the rental thereof, or the construction, alteration, repair or maintenance of real or personal property.

Subd. 3. Contracts over \$175,000.

If the amount of the contract is estimated to exceed \$175,000, sealed bids shall be solicited by public notice in the manner and subject to the requirements of the law governing contracts by the particular municipality or class thereof. With regard to repairs and maintenance of ditches, the provisions of section 103E.705, subdivisions 5, 6, and 7, apply.

Subd. 3a. Contracts over \$175,000; best value alternative.

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Subd. 4. Contracts exceeding \$25,000 but not \$175,000.

If the amount of the contract is estimated to exceed \$25,000 but not to exceed \$175,000, the contract may be made either upon sealed bids or by direct negotiation, by obtaining two or more quotations for the purchase or sale when possible, and without advertising for bids or otherwise complying with the requirements of competitive bidding. All quotations obtained shall be kept on file for a period of at least one year after receipt thereof.

Subd. 4a. Contracts exceeding \$25,000 but not \$175,000; best value alternative.

As an alternative to the procurement method described in subdivision 4, municipalities may award a contract for construction, alteration, repair, or maintenance work to the vendor or contractor offering the best value under a request for proposals as described in section 16C.28, subdivision 1, paragraph (a), clause (2), and paragraph (c).

Subd. 5. Contracts \$25,000 or less.

If the amount of the contract is estimated to be \$25,000 or less, the contract may be made either upon quotation or in the open market, in the discretion of the governing body. If the contract is made upon quotation it shall be based, so far as practicable, on at least two quotations which shall be kept on file for a period of at least one year after their receipt. Alternatively, municipalities may award a contract for construction, alteration, repair, or maintenance work to the vendor or contractor offering the best value under a request for proposals as described in section 16C.28, subdivision 1, paragraph (a), clause (2), and paragraph (c).

Subd. 5a. County or town rental contracts.

If the amount of a county or town contract for the rental of equipment is estimated to be \$60,000 or less, the contract may, in the discretion of the county or town board, be made by direct negotiation by obtaining two or more quotations for the rental when possible and without advertising for bids or otherwise complying with the requirements of competitive bidding. All quotations shall be kept on file for a period of at least one year after their receipt.

Subd. 5b. Water tank service contracts.

(a) A municipality may, by direct negotiation or through the solicitation of requests for

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proposals, enter into a multiyear professional service contract for the engineering, repair,

(2) a provision requiring that the work performed be done under the review of a professional engineer licensed in the state of Minnesota attesting that the work will be performed in compliance with all applicable codes and engineering standards; and

(3) a provision that if, at the commencement of the contract, the water tank or appurtenant facilities require engineering, repair, or service in order to bring the water tank or facilities into compliance with federal, state, or local requirements, the party contracting with the municipality is responsible for providing the engineering, repair, or service. The costs to bring the water tank or facilities into compliance must be itemized separately and charged to the municipality in payments spread over a period of not less than three years from the commencement of the contract.

(b) If the cost of a contract for the sale or purchase of supplies, materials, equipment or the rental thereof, or the construction, alteration, repair, or maintenance of real or personal property entered into under this subdivision is estimated to meet the costs specified under subdivisions 3 and 3a, paragraph (a) applies but the municipality must use the procurement methods specified in subdivision 3 or 3a to contract for that portion of the work.

Subd. 6. Applicability of other laws.

The purpose of this section is to establish for all municipalities, uniform dollar limitations upon contracts which shall or may be entered into on the basis of competitive bids, quotations or purchase or sale in the open market. To the extent inconsistent with this purpose, all laws governing contracts by a particular municipality or class thereof are superseded. In all other respects such laws shall continue applicable.

Subd. 7. Minimum labor standards.

Nothing in this section shall be construed to prohibit any municipality from adopting rules, regulations, or ordinances which establish the prevailing wage rate as defined in section 177.42, as a minimum standard for wages and which establish the hours and working conditions prevailing for the largest number of workers engaged in the same class within the area as a minimum standard for a contractor's employees which must be agreed to

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For purposes of this subdivision, the following terms shall have the meanings herein ascribed to them:

(a) "Small targeted group business" means businesses designated under section 16C.16.

(b) "Business entity" means an entity organized for profit, including an individual, partnership, corporation, joint venture, association, or cooperative.

Nothing in this section shall be construed to prohibit any municipality from adopting a resolution, rule, regulation, or ordinance which on an annual basis designates and sets aside for awarding to small targeted group businesses a percentage of the value of its anticipated total procurement of goods and services, including construction, and which uses either a negotiated price or bid contract procedure in the awarding of a procurement contract under a set-aside program as allowed in this subdivision, provided that any award based on a negotiated price shall not exceed by more than five percent the municipality's estimated price for the goods and services if they were purchased on the open market and not under the set-aside program.

Subd. 9.

[Repealed, 1990 c 549 s 3]

Subd. 10. Shared hospital or ambulance service purchasing.

Supplies, materials, or equipment to be used in the operation of a hospital licensed under sections 144.50 to 144.56 or an ambulance service licensed under chapter 144E that are purchased or leased under a shared service purchasing arrangement whereby more than one hospital or ambulance service purchases supplies, materials, or equipment with one or more other hospitals or ambulance services either through one of the hospitals or ambulance services or through another entity, may be purchased without regard to the competitive bidding requirements of this section, if the following conditions are met:

(1) the hospital's or ambulance service's governing authority authorizes the arrangement;

(2) the shared services purchasing program purchases items available from more than one source on the basis of competitive bids or competitive quotations of prices; and

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doing so does not decrease the service level or diminish the effects of competition.

Subd. 11. Fuel contracts for generation of municipal power.

Notwithstanding the amount of the contract, any contract entered into by a municipality for the purchase of fuel required for the generation of power from municipal power plants shall be governed by subdivision 4.

Subd. 12. Procurement from rehabilitation facilities.

Nothing in this section prohibits a municipality from adopting a resolution, rule, regulation, or ordinance that on an annual basis designates and sets aside for awarding to rehabilitation facilities as described in section 268A.06 a percentage of the value of its anticipated total procurement of goods and services, including construction, and which uses either a negotiated price or bid contract procedure in the awarding of a procurement contract under a set-aside program as allowed in this subdivision, provided that any award based on a negotiated price shall not exceed by more than five percent the municipality's estimated price for the goods and services if they were purchased on the open market and not under the set-aside program.

Subd. 13. Energy efficiency projects.

The following definitions apply to this subdivision.

(a) "Energy conservation measure" means a training program or facility alteration designed to reduce energy consumption or operating costs and includes:

- (1) insulation of the building structure and systems within the building;
- (2) storm windows and doors, caulking or weatherstripping, multiglazed windows and doors, heat absorbing or heat reflective glazed and coated window and door systems, additional glazing, reductions in glass area, and other window and door system modifications that reduce energy consumption;
- (3) automatic energy control systems;
- (4) heating, ventilating, or air conditioning system modifications or replacement

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(6) energy recovery systems;

(7) cogeneration systems that produce steam or forms of energy such as heat, as well as electricity, for use primarily within a building or complex of buildings;

(8) energy conservation measures that provide long-term operating cost reductions; and

(9) water metering devices that increase efficiency or accuracy of water measurement and reduce energy use.

(b) "Guaranteed energy-savings contract" means a contract for the evaluation and recommendations of energy conservation measures, and for one or more energy conservation measures. The contract must provide that all payments, except obligations on termination of the contract before its expiration, are to be made over time, but not to exceed 20 years from the date of final installation, and the savings are guaranteed to the extent necessary to make payments for the systems.

(c) "Qualified provider" means a person or business experienced in the design, implementation, and installation of energy conservation measures. A qualified provider to whom the contract is awarded shall give a sufficient bond to the municipality for its faithful performance.

Notwithstanding any law to the contrary, a municipality may enter into a guaranteed energy-savings contract with a qualified provider to significantly reduce energy or operating costs.

Before entering into a contract under this subdivision, the municipality shall provide published notice of the meeting in which it proposes to award the contract, the names of the parties to the proposed contract, and the contract's purpose.

Before installation of equipment, modification, or remodeling, the qualified provider shall first issue a report, summarizing estimates of all costs of installations, modifications, or remodeling, including costs of design, engineering, installation, maintenance, re

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meet or exceed the cost of energy conservation measures is not subject to competitive bidding requirements of section 471.345 or other law or city charter. The contract is not subject to section 123B.52.

A municipality may enter into a guaranteed energy-savings contract with a qualified provider if, after review of the report, it finds that the amount it would spend on the energy conservation measures recommended in the report is not likely to exceed the amount to be saved in energy and operation costs over 20 years from the date of final installation if the recommendations in the report were followed, and the qualified provider provides a written guarantee that the energy or operating cost savings will meet or exceed the costs of the system. The guaranteed energy-savings contract may provide for payments over a period of time, not to exceed 20 years.

A municipality may enter into an installment payment contract for the purchase and installation of energy conservation measures. The contract must provide for payments of not less than 1/20 of the price to be paid within two years from the date of the first operation, and the remaining costs to be paid monthly, not to exceed a 20-year term from the date of final acceptance.

A municipality entering into a guaranteed energy-savings contract shall provide a copy of the contract and the report from the qualified provider to the commissioner of commerce within 30 days of the effective date of the contract.

Guaranteed energy-savings contracts may extend beyond the fiscal year in which they become effective. The municipality shall include in its annual appropriations measure for each later fiscal year any amounts payable under guaranteed energy-savings contracts during the year. Failure of a municipality to make such an appropriation does not affect the validity of the guaranteed energy-savings contract or the municipality's obligations under the contracts.

Subd. 14. Damage awards.

(a) In any action brought challenging the validity of a municipal contract under this section, the court shall not award, as any part of its judgment, damages or attorney's fees but may award an unsuccessful bidder the costs of preparing an unsuccessful bid.

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contract under subdivision 2.

Subd. 15. Cooperative purchasing.

(a) Municipalities may contract for the purchase of supplies, materials, or equipment by utilizing contracts that are available through the state's cooperative purchasing venture authorized by section 16C.11. For a contract estimated to exceed \$25,000, a municipality must consider the availability, price and quality of supplies, materials, or equipment available through the state's cooperative purchasing venture before purchasing through another source.

(b) If a municipality does not utilize the state's cooperative purchasing venture, a municipality may contract for the purchase of supplies, materials, or equipment without regard to the competitive bidding requirements of this section if the purchase is through a national municipal association's purchasing alliance or cooperative created by a joint powers agreement that purchases items from more than one source on the basis of competitive bids or competitive quotations.

Subd. 16. Reverse auction.

Notwithstanding any other procedural requirements of this section, a municipality may contract to purchase supplies, materials, and equipment using an electronic purchasing process in which vendors compete to provide the supplies, materials, or equipment at the lowest selling price in an open and interactive environment. A municipality may not use this process to contract for services, as defined by section 16C.02, subdivision 17, or a service contract, as defined by section 16C.02, subdivision 7a. Nothing in this subdivision must be construed to prohibit a municipality from adopting a resolution, rule, regulation, or ordinance relating to minimum labor standards under subdivision 7, or procurement from economically disadvantaged persons under subdivision 8.

Subd. 17. Electronic sale of surplus supplies, materials, and equipment.

Notwithstanding any other procedural requirements of this section, a municipality may contract to sell supplies, materials, and equipment which is surplus, obsolete, or unused using an electronic selling process in which purchasers compete to purchase the st

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Notwithstanding any other procedural requirements of this section, vendors may submit bids, quotations, and proposals electronically in a form and manner required by the municipality. A municipality may allow bid, performance, or payment bonds, or other security, to be furnished electronically.

Subd. 19. Town road construction and maintenance.

Notwithstanding any other procedural requirements of this section, a town may contract for the construction or maintenance of a town road by agreeing to the terms of an existing contract between a vendor and a county for road construction or maintenance on an adjoining road if the existing county contract was made in conformance with all applicable procedural requirements.

Subd. 20. Solicitations to small business enterprises or veteran-owned small businesses.

A contract, as defined in subdivision 2, estimated not to exceed \$250,000 may be made pursuant to the provisions of subdivision 4 provided that a business that is directly solicited is:

- (1) certified as a small business enterprise by a county designated small business certification program; or
- (2) certified by the commissioner of administration as a small business that is majority-owned and operated by a veteran or a service-disabled veteran. This subdivision applies only to county boards.

Subd. 21. Original jurisdiction; timing for filing.

- (a) Original jurisdiction is granted to the district court over any action seeking legal, equitable, or declaratory relief arising under or based upon the alleged violation of any law or ordinance governing public procurement requirements, public procurement procedures, or the award of any public contract.
- (b) The grant of original jurisdiction under paragraph (a) applies regardless of whether a public entity involved or implicated in the action is alleged to have acted, or may be held to have acted, in a judicial or quasi-judicial capacity.

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(3) affect subdivision 14;

(4) affect the available remedies, including, but not limited to, the availability or nonavailability of attorney fees awards and bid preparation costs; or

(5) affect the procedural or administrative steps, if any, set out by statute, rule, or procurement procedure, that a party must comply with prior to initiating any such action.

(d) A procurement process participant must file an action prior to the date when the procurement contract at issue is fully executed unless:

(1) the party demonstrates that it acted diligently in seeking access to information the party reasonably deemed necessary to review prior to bringing an action; and

(2) the procurement process participant has not been afforded (i) reasonable access to information necessary to prepare the action for filing, or (ii) a reasonable opportunity to bring the action and seek appropriate relief from the court before the public procurement contract is fully executed. Reasonable access to necessary information and a reasonable opportunity to seek relief includes receipt of data described under section 13.591, subdivision 3 or 4, at least 15 days prior to full execution of the procurement contract.

(e) Paragraph (d) does not apply to matters alleging:

(1) fraud or misrepresentation, or

(2) acts following contract execution that would have been improper or illegal prior to contract execution.

Minn. Stat. § 471.345

1969 c 934 s 1; 1973 c 123 art 5 s 7; 1973 c 226 s 1,2; 1974 c 510 s 1; 1977 c 182 s 1-3; 1980 c 462 s 4; 1983 c 42 s 1-3; 1983 c 301 s 211; 1984 c 413 s 1; 1985 c 172 s 129; 1985 c 13 s 347; 1986 c 350 s 1, 2; 1986 c 444 s 1; 1988 c 409 s 1; 1988 c 689 art 2 s 268; 1989 c 9 s 3; 1989 c 352 s 19, 25; 1990 c 391 art 8 s 51; 1990 c 26, 29; 1990 c 549 s 1; 1992 c 380 s 4-6; 1998 c 386 art 2 s 93; 1998 c 397 art 11 s 3; 1999 c 13 s 1; 2000 c

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Amended by 2019 Minn. Laws, ch. 21,s 3, eff. 5/10/2019.

Amended by 2019 Minn. Laws, ch. 21,s 2, eff. 5/10/2019.

Amended by 2018 Minn. Laws, ch. 146,s 1, eff. 8/1/2018.

Amended by 2018 Minn. Laws, ch. 124,s 1, eff. 9/1/2018.

Amended by 2018 Minn. Laws, ch. 107,s 2, eff. 8/1/2018.

Amended by 2018 Minn. Laws, ch. 107,s 1, eff. 8/1/2018.

Amended by 2015 Minn. Laws, ch. 22,s 1, eff. 8/1/2015.

Amended by 2014 Minn. Laws, ch. 196,s 3-4, eff. 8/1/2014.

Previous Section

Section 471.342 - INFLOW AND INFILTRATION
PROGRAM

Next Section

Section 471.3455 - PUBLIC SAFETY
EQUIPMENT PURCHASE OR LEASE

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MINNESOTA ILLINOIS INDIANA MISSOURI NEBRASKA NORTH DAKOTA SOUTH DAKOTA

EM-102

August 10, 2022

Assistant Chief Jake Olsen
City of Marshall Fire Department
201 East Saratoga Street
Marshall, MN 56258

Subject: **Proposal for one (1) Pierce Enforcer 100' Aerial Tower
Proposal / Bid 1072**

Dear Assistant Chief Olsen,

With regard to the above subject, please find attached our completed proposal.

Pricing, is as follows, including 100% prepay option.

Pricing Summary:

Sale Price – **\$1,813,107.00***
**Sourcewell Consortium Pricing, Member ID 2315.*

100% Performance Bond:

Included in the above price.

100% Prepayment Option:

Should the City of Marshall Fire Department elect to make a 100% prepayment at contract execution, a discount of (**\$66,872.00**) can be subtracted from the above "Sale Price" resulting in a revised contract price of **\$1,746,235.00**.

Terms and Conditions:

Taxes – Not Applicable
Freight – F.O.B. – Appleton, WI / Shipping to Marshall, MN
Terms – Net due prior to vehicle(s) release at the Pierce Manufacturing Plant (Appleton, WI). Net due at Contract signing for **Prepay discount** to be applicable.
Delivery – 27 - 31 months from receipt and acceptance of contract.

Said apparatus and equipment are to be built and shipped in accordance with the specifications hereto attached, delays due to strikes, war, or international conflicts, or other causes beyond our control not preventing, could alter the delivery schedule.

The specifications herein contained, shall form a part of the final contract, and are subject to changes as desired by the purchaser, provided such changes are acknowledged and agreed to in writing by the purchaser.

This proposal for fire apparatus conforms with all Federal Department of Transportation (DOT) rules and regulations in effect at the time of bid, and with all National Fire Protection Association (NFPA) Guidelines for Automotive Fire Apparatus as published at the time of bid, except as modified by customer specifications.

The attached proposal is valid for thirty (30) days.

We trust the above and the enclosed to be full and complete at this time; however, should you have any questions or require additional information, please do not hesitate to contact me at 507-272-2360 or tom.soland@macqueengroup.com.

We wish to thank the City of Marshall Fire Department for the opportunity to submit our proposal.

Respectfully,

Tom Soland

Tom Soland
Apparatus Sales
MacQueen Equipment LLC
DBA MacQueen Emergency Group



Option List

9/7/2022

Customer: Marshall Fire Department, City of
Representative Soland, Thomas
Organization: MacQueen Emergency Group
Requirements Manager:
Description: Marshall AAT Tower
Body: Aerial, 100AAT, Alum Body
Chassis: Enforcer Chassis, 100AAT

Bid Number: 1072
Job Number:
Number of Units: 1
Bid Date: 08/31/2022
Stock Number:
Price Level: 42 (Current: 42)
Lane: Lane 1

Line	Option	Type	Option Description	Qty
1	0769372		Boiler Plates, 100AAT	1
			Fire Department/Customer - Marshall Fire Department	
			Operating/In conjunction W-Service Center - Operating	
			Miles - 150 Miles	
			Number of Fire Dept/Municipalities - 2	
			Bidder/Sales Organization - MacQueen Emergency	
			Delivery - Delivery representative	
			Dealership/Sales Organization, Service - MacQueen Emergency	
2	0018180		Single Source Compliance, Aerials	1
3	0584456		Manufacture Location, Appleton, Wisconsin	1
4	0584452		RFP Location: Appleton, Wisconsin	1
5	0588609		Vehicle Destination, US	1
6	0610784		Comply NFPA 1901 Changes Effective Jan 1, 2016, With Exceptions	1
7	0533351		Quint Fire Apparatus	1
8	0588612		Vehicle Certification, Aerial w/Pump	1
9	0681278		Agency, Apparatus Certification, Aerial w/Pump, U.L.	1
10	0891947		Certification, Vehicle Inspection Program, NFPA 1901	1
11	0766110		Consortium, Sourcewell	1
12	0537375		Unit of Measure, US Gallons	1
13	0529326		Bid Bond, 10%, Pierce Built Chassis	1
14	0582700		Performance Bond, 100% with 25% Warranty Bond, 2 Yrs, and Payment Bond	1
15	0000007		Approval Drawing	1
16	0002928		Electrical Diagrams	1
17	0729149		Enforcer Chassis, 100AAT	1
18	0000110		Wheelbase	1
			Wheelbase - 272"	
19	0000070		GVW Rating	1
			GVW rating - 75,000LBS	
20	0729280		Frame Rails, 13.38 x 3.50 x .375, Enforcer	1
21	0889473		Frame Liner, "C/Inv L" 12.50" x 3.00" x .25", AXT/Vel/Imp/Enf, 57" Qval	1
22	0728824		Axle, Front, Dana, D-2200F, 23,000 lb, Enforcer	1
23	0637887		Suspension, Front, Standens, Taper Leaf, 23,000 lb, Saber FR/Enforcer	1
24	0000321		Shock Absorbers on Front Axle, Monroe Magnum 65, Saber/Enforcer	1
25	0000322		Oil Seals, Front Axle	1
26	0802640		Tires, Front, Goodyear, Armor Max MSA, 445/65R22.50, 20 ply	1
27	0019618		Wheels, Front, Alcoa, 22.50" x 13.00", Aluminum, Hub Pilot	1
28	0728953		Axle, Rear, Meritor RT52-185, 54,000 lb, Enf, 100AAT	1
29	0544244		Top Speed of Vehicle, 60 MPH	1
30	0555354		Suspen, Rear, Hendrickson FMX 542 EX, Air Ride, 54,000 lb	1
31	0000485		Oil Seals, Rear Axle	1
32	0587016		Tires, Rear, Goodyear, G622 RSD, 12R22.50, 16 ply, Tandem	1
33	0019639		Wheels, Rear, Alcoa, 22.50" x 8.25", Aluminum, Hub Pilot, Tandem	1
34	0568081		Tire Balancing, Counteract Beads	1
35	0620569		Tire Pressure Monitoring, RealWheels, AirSecure, Valve Cap, Tandem Axle	1
			Qty, Tire Pressure Ind - 10	
36	0003245		Axle Hub Covers w/center hole, S/S, Front Axle	1
37	0013241		Axle Hub Covers, Rear, S/S High Hat (Tandem)	1
38	0057936		Covers, Lug Nut, Chrome	1
39	0002045		Mud Flap, Front and Rear, Pierce Logo	1
40	0766669		Chocks, Wheel, SAC-44-E, Folding, 100AAT	1
			Qty, Pair - 01	

Item 3.

Page 36

Line	Option	Type	Option Description	Qty
41	0766668		Mounting Brackets, Chocks, SAC-44-E, Folding, Horizontal, 100AAT	2
			Qty, Pair - 02	
			Location, Wheel Chocks - Left Side Rear Tire, Rearward and Right Side	
			Rear Tire, Rearward	
42	0593759		ESC/ABS/ATC Wabco Brake System, Tandem Rear Axle, 2010	1
43	0690932		Brakes, Bendix, ADB-22X, 17" Disc, Front	1
44	0000730		Brakes, Meritor, Cam, Rear, 16.50 x 7.00"	1
45	0731553		Air Compressor, Brake, Cummins/Wabco 25.9 CFM	1
46	0637583		Brake Reservoirs, 6,408 Cubic Inch Minimum Capacity, Saber FR/Enforcer	1
47	0568012		Air Dryer, Wabco System Saver 1200, Heater, 2010	1
48	0000790		Brake Lines, Nylon	1
49	0000854		Air Inlet, w/Disconnect Coupling	1
			Location, Air Coupling(s) - a) DS Step Well, Forward	
			Qty, Air Coupling (s) - 1	
50	0070810		All Wheel Lockup (Aerial/Tanker Chassis)	1
51	0893805		Engine, Cummins X12, 525 hp, 1695 lb-ft, W/OBD, EPA 2021, Enforcer	1
52	0730807		Remote Mounted Filters Not Required, X12	1
53	0001244		High Idle w/Electronic Engine, Custom	1
54	0687994		Engine Brake, Jacobs Compression Brake, Cummins Engine	1
			Switch, Engine Brake - e) ISC/ISM/ISL9/ISX Hi Med Lo	
55	0644227		Clutch, Fan, Air Actuated, Saber FR/Enforcer	1
56	0054292		Switch, Manual Fan Clutch Control	1
57	0644573		Air Intake, Water & Ember Screen, Saber FR/Enforcer	1
58	0794743		Exhaust System, 5", X12/X15, MX13, Engine, Horizontal, Right Side	1
59	0788765		Radiator, Saber FR/Enforcer	1
60	0001090		Cooling Hoses, Rubber	1
61	0001125		Fuel Tank, 65 Gallon, Left Side Fill	1
62	0001129		Lines, Fuel	1
63	0618791		DEF Tank, 4.5 Gallon, DS Fill, Forward of Axle, Common Air Bottle Door	1
64	0723716		Fuel Priming Pump, Electronic, Automatic, Cummins, No Swt Req'd	1
65	0552712		Not Required, Shutoff Valve, Fuel Line	1
66	0553019		Cooler, Engine Fuel, Imp/Vel, AXT/Qtm/Sab/DCF/SFR/Enf	1
67	0578959		Fuel/Water Separator, Racor Inline	1
68	0642582		Trans, Allison 5th Gen, 4000 EVS P, w/Prognostics, Imp/Vel/DCF/SFR/Enf	1
69	0625331		Transmission, Shifter, 6-Spd, Push Button, 4000 EVS	1
70	0684459		Transmission Oil Cooler, Modine, External	1
71	0539711		Label, TRANSynd Transmission Fluid Only	1
72	0535530		Mode, Downshift, Aggressive downshift to 2nd, w/engine brake, 6 speed	1
73	0801876		Fluid, 4000 Series Trans, Allison Approved TES-668 Synthetic, IPOS, Custom	1
74	0001375		Driveline, Spicer 1810	1
75	0637248		Steering, Dual Gear, TRW TAS-65, w/tilt, Pump w/ Cooler, Saber FR/Enforcer	1
76	0802950		Steering Wheel, 4 Spoke w/Wiper Control, Saber FR/Enforcer	1
77	0690274		Logo/Emblem, on Dash	1
			Text, Row (1) One - Marshall	
			Text, Row (2) Two - Fire	
			Text, Row (3) Three - Dept.	
78	0725697		Bumper, 27" Total (16" Extension), Alum, Painted, Integrated, 100AAT, Enforcer	1
79	0758000		Tray, Hose, Center, 16" Bumper, Inside Air Horns, 100AAT	1
			Grating, Bumper extension - Grating, Rubber	
			Capacity, Bumper Tray - 18) 75' of 1.75"	
80	0633479		Hose Restraint, Bumper Tray, Velcro Straps, Pair	1
			Qty, Pair - 01	
81	0778092		Lift & Tow Package, Enforcer	1
82	0522573		Tow Hooks Not Required, Due to Lift and Tow Package	1
83	0648332		Cab, Enforcer, 7010	1
84	0747442		Engine Tunnel, X12, MX13, Enforcer	1
85	0633594		Rear Wall, Interior, Adjustable Seating	1
86	0632103		Rear Wall, Exterior, Cab, Saber FR/Enforcer	1
			Material, Exterior Rear Wall - Aluminum Treadplate	
87	0728889		Cab Lift, Elec/Hyd, Stabilizer Interlock, Enforcer 100AAT	1
88	0695930		Grille, Bright Finished, Front of Cab, Enforcer	1

Line	Option	Type	Option Description	Qty
89	0002224		Scuffplates, S/S At Cab Door Jambs, 4-Door Cab	1
			Material Trim/Scuffplate - c) S/S, Polished	
90	0647932		Not Required, Trim, S/S Band, Across Cab Face, AXT/Dash CF/Saber/Enforcer	1
91	0087357		Molding, Chrome on Side of Cab	1
92	0521669		Mirrors, Retractable, West Coast Style, Htd/Rmt, w/Htd/Rmt Convex	1
93	0648172		Door, Full Height, Saber FR/Enforcer 4-Door Cab, Raised Roof	1
			Key Model, Cab Doors - 751	
			Cab, Exterior Door Handle, Finish - 4-Door, Chrome/Black	
94	0655543		Door Panel, Brushed Stainless Steel, Saber/Enforcer 4-Door Cab	1
95	0630636		Controls, Electric Roll-Up Windows, 4dr, 4 Driver Controls, Saber FR/Enforcer	1
96	0638310		Steps, 4-Door Cab, Saber FR/Enforcer	1
			Step Well Material - Aluminum Treadplate	
97	0770200		Handrail, Exterior, Hansen, Knurled, Alum, LED Backlit, 4-Door Cab	1
			Color, Handrail Light - White	
			Control, Handrail Light - Cab Switch and Perimeter Lights	
98	0892638		Lights, Cab & Crw Cab Acs Stps, P25, LED w/Bezel, 6lts	1
			Color, Trim - Chrome Housing	
99	0002141		Fenders, s/s on cab - Saber/Enforcer	1
100	0637984		Window, Side of C/C, Fixed, Saber FR/Enforcer	1
101	0012090		Not Required, Windows, Front/Side of raised roof	1
102	0779033		Not Required, Windows Rear of Crew Cab, Saber FR/Enforcer	1
103	0752160		Compt, Storage, 13.75 W x 38 H x 15 D, (1) Ea Side CC, Dbl Pan, 70" SFR/Enf	1
			Light, Aux Cab Compartments - Pierce, Horizontal, Above	
			Finish, Exterior Cab Compt - Spatter Gray	
			Door, Cab Exterior Cabinet - Double Pan, (2), Non-Locking	
			Door, Exterior Stop - 2-Stay Arm	
104	0655279		Tray, Sliding, Floor Mounted	2
			Qty, - 02	
			location - Aux Compartments on both sides	
105	0722796		Dash, Poly, Saber FR/Enforcer	1
106	0658289		Mounting Provisions, Computer, Tray, S/S, Straps, Slides, Sides	1
			Location - Officer dash	
			Qty, - 01	
107	0750824		Cab Interior, Vinyl Headliner, Saber FR/Enforcer, CARE	1
			Color, Cab Interior Vinyl/Fabric - Endure Vinyl - Silver/Gray	
			Engine Tunnel Cover - Gray Turnout Tuff	
			Cab Interior Rear Wall Material - Painted Aluminum	
108	0753903		Cab Interior, Paint Color, Saber FR/Enforcer	1
			Color, Cab Interior Paint - i) fire smoke gray	
109	0052100		Floor, Rubber Padded, Cab & Crew Cab, Saber/Enforcer	1
110	0722696		HVAC, Enforcer, CARE	1
			HVAC System, Filter Access - Removable Panel	
			Auxiliary Cab Heater - Both	
			HVAC System, Control Loc. - Panel Position #12	
			Plenum Cover Material - Formed Plastic	
111	0032085		Fans, Window Defrost, Two (2), Location Feature	1
			Location - TBD	
112	0639675		Sun Visor, Smoked Lexan, AXT, Imp/Vel, Saber FR/Enforcer	1
			Sun Visor Retention - Thumb Latch	
113	0634328		Grab Handles, Driver and Officer Door Posts, Saber FR/Enforcer	1
114	0583938		Lights, Engine Compt, Custom, Auto Sw, WIn 3SC0CDCR, 3" LED, Trim	1
			Qty, - 01	
115	0631830		Fluid Check Access, Saber FR/Enforcer, Arrow XT	1
			Latch, Door, Storage - Southco C2 Chrome Raised	
116	0583042		Side Roll and Frontal Impact Protection	1
117	0622617		Seating Capacity, 6 Seats	1
118	0636955		Seat, Driver, Pierce PSV, Air Ride, High Back, Safety, Saber FR/Enforcer	1
119	0636943		Seat, Officer, Pierce PSV, Fixed, High Back, Safety, Saber FR/Enforcer	1
120	0620420		Radio Compartment, Below Non-Air Ride Seat, Saber FR/Enforcer	1
			Latch, Door, Storage - Lift and Turn Latch	
121	0635973		Seat, Rear Facing C/C, DS Outboard, Pierce PSV, SCBA, Safety, Saber FR/Enforcer	1
			Not Required, Seat, Rr Facing C/C, Center	

Line	Option	Type	Option Description	Qty
123	0635969		Seat, Rear Facing C/C, PS Outboard, Pierce PSV, SCBA, Safety, Saber FR/Enforcer	1
124	0108189		Not Required, Seat, Forward Facing C/C, DS Outboard	1
125	0635957		Seat, Forward Facing C/C, Center, (2) Pierce PSV, SCBA, Safety, Saber FR/Enf	1
126	0108190		Not Required, Seat, Forward Facing C/C, PS Outboard	1
127	0566653		Upholstery, Seats In Cab, Turnout Tuff	1
			Color, Cab Interior Vinyl/Fabric - m) Gray	
128	0543991		Bracket, Air Bottle, Hands-Free II, Cab Seats	4
			Qty, - 04	
129	0603866		Seat Belt, Dual Retractor, ReadyReach, Saber FR/Enforcer	1
			Seat Belt Color - Red	
130	0602464		Helmet Storage, Provided by Fire Department, NFPA 2016	1
131	0647647		Lights, Dome, FRP Dual LED 4 Lts	1
			Color, Dome Lt - Red & White	
			Color, Dome Lt Bzl - Black	
			Control, Dome Lt White - Door Switches and Lens Switch	
			Control, Dome Lt Color - Lens Switch	
132	0896451		Enhanced Software for Cab and Crew Cab Dome Lts	1
133	0602622		Portable Hand Light, Provided by Fire Department, Quint NFPA 2016 Classification	1
134	0622803		Cab Instruments, Black Gauges, Black Bezels, Enforcer MUX	1
			Emergency Switching - Individual Switches	
135	0509511		Air Restriction Indicator, Imp/Vel, AXT, Dash CF, Enf MUX	1
136	0543751		Light, Do Not Move Apparatus	1
			Alarm, Do Not Move Truck - Pulsing Alarm	
137	0743386		Messages, Open Dr/DNMT, Color Dsply, 100AAT	1
138	0611683		Switching, Cab Instrument Lower Console & Overhead, Membrane, Enforcer WiFi MUX	1
139	0802946		Wiper Control, 2-Speed w/Intermittent, Steering Wheel, Left Pod, SFR/Enf	1
140	0731813		Hour Meter, Aerial, Included in Information Centers, ASL, AAT, ASP	1
141	0002615		Switch, Aerial 12V Master	1
142	0002617		PTO switch, w/light - aerial	1
143	0767635		Wiring, Spare, 4.8 A 12V DC, USB Termination, Kussmaul 091-219-5 Sw Pnl 1st	2
			Qty, - 02	
			12vdc power from - Battery direct	
			Location - Officer side dash panel	
144	0548006		Wiring, Spare, 15 A 12V DC 2nd	3
			Qty, - 03	
			12vdc power from - Battery direct	
			Wire termination - 10-Place Bus Bar w/Cover	
			Location - Behind driver and officer seat and one in ems cabinet	
145	0548004		Wiring, Spare, 15 A 12V DC 1st	2
			Qty, - 02	
			12vdc power from - Battery direct	
			Wire termination - Butt Splice	
			Location, Spare Wiring - Officer Dash	
146	0615386		Vehicle Information Center, 7" Color Display, Touchscreen, MUX	1
			System Of Measurement - US Customary	
147	0734857		Collision Mitigation, HAAS Alert (R2V), HA5	1
			Subscription, HAAS R2V - R2V - 5 Year Data Plan Subscription	
148	0606249		Vehicle Data Recorder w/CZ and Overhead Display Seat Belt Monitor	1
149	0766255		Antenna Mount, Custom Chassis, Harris AN-125001-006, GPS Combo w/NMO for Whip	1
			Location - Roof	
			Qty, - 01	
			Location 1 - Behind the officer seat	
150	0696439		Antenna Mount, Custom Chassis, Cable Routed to Instrument Panel Area	1
			Qty, - 01	
			Location, Antenna Mount - Right Side	
151	0653519		Camera, Pierce, Driver Mux, R, RS, LS Cameras	1
			Camera System Audio - Not Provided	
152	0797854		Camera, Rosco, DV XC4, Windshield Mounted, Forward and Interior DVR	1
			Location, Event Button - Mount at Pick Up Driver Dash	

Line	Option	Type	Option Description	Qty
153	0890416		Pierce Command Zone, Advanced Electronics & Control System, Enforcer, WiFi CZT Color, Antenna - Black Antenna Module Housings - See Through Housings with LED Cuircuit Indicators	1
154	0896456		Prognostics, Electrical System	1
155	0892649		CZ Connect Telematics Subscription, CZ Connect Telematics - 5 Year Subscription	1
156	0733539		Electrical System, Enf MUX ESP	1
157	0079166		Batteries, (4) Exide Grp 31, 950 CCA ea, Threaded Stud	1
158	0008621		Battery System, Single Start, All Custom Chassis	1
159	0002698		Battery Compartment, Saber/Enforcer	1
160	0756121		Charger, Sngl Sys, Ksml, Pump+ 1200, 091-187-12-REMOTE Ind Fet, 091-9B-1-AD Cmp Battery Chrg Display, Ksml - Bar Graph Ind, part number 091-199-001 bar graph	1
161	0012781		Location, Charger/Compr, Front left body compt	1
162	0537512		Location, Bat Chrg Ind, Display Through Window Behind Driver Seat	1
163	0016857		Shoreline, 20A 120V, Kussmaul Auto Eject, 091-55-20-120, Super Qty, - 01 Color, Kussmaul Cover - b) red Shoreline Connection - Battery Charger	1
164	0026800		Shoreline Location Location, Shoreline(s) - DS Cab Side	1
165	0783395		Transfer Switch, Generator to Shoreline 30 Amp and Under	1
166	0754105		Alternator, 430 amp, Niehoff C681	1
167	0092582		Load Manager/Sequencer, MUX Enable/Disable Hi-Idle - e)High Idle enable	1
168	0783153		Headlights, Rect LED, JW Spkr Evo 2, AXT/DCF/Enf/Imp/Sab/Vel Color, Headlight Bez - Chrome Bezel	1
169	0802935		Light, Directional, Wln M62T* LED, Cmn Bzl, Above Headlights, Sab/Enf Color, Lens, LED's - Clear Color, Q Bezel and Trim - Black Flash Pattern, Directional Lts - Steady On (Arrow)	1
170	0620054		Light, Directional/Marker, Intermediate, Weldon 9186-8580-29 LED 2lts	1
171	0736083		Lights, Clearance/Marker, Side, P25 LED 2 Lts, Others With Visor Lt	1
172	0647899		Lights, Directional/Marker, Cab Front Side, Weldon 9186-8580-29 LED, Sab/Enf	1
173	0670831		Lights, Clearance/Marker/ID, Rear, P25 LED 7Lts, 100AAT	1
174	0602938		Light, Marker End Outline, Rubber Arm, LED Marker Lamp, Rear Body Qty, Lights, Pair - 1	1
175	0804514		Lights, Tail, Wln M62BTT* Red Stop/Tail & M62T* Amber Dir Arw For Hsg Color, Lens, LED's - Clear Flash Pattern, Directional Lts - Steady On (Arrow)	1
176	0561471		Lights, Backup, Wln M6BUW, LED, For Tail Lt Housing	1
177	0663884		Bracket, License Plate & Light, P25 LED, Temp Under Tailbrd Location - Left Side	1
178	0556842		Bezels, Wln, (2) M6 Chrome Pierce, For mtg (4) Wln M6 lights	1
179	0589905		Alarm, Back-up Warning, PRECO 1040	1
180	0769420		Lights, Perimeter Cab, Amdor AY-LB-12HW020 LED 4Dr	1
181	0769564		Lights, Perimeter Pump House, Amdor AY-LB-12HW020 LED 1lt	1
182	0763190		Lights, Perimeter Body, Amdor AY-LB-12HW012 LED 3lts Control, Perimeter Lts - Parking Brake Applied	1
183	0896454		Enhanced Software for Perimeter Lts	1
184	0735865		Step Illumination, Pump Panel Light Shield, 100AAT, w/Pump	1
185	0760887		Light, Roof Mt, HiViz, FT-B-X-72-ML-*-, Cnt Feature, Mux Control, Scene Lts - Cab Sw Panel DS Color, Lt Housing HiViz - White	1
186	0768062		Lights, Wln, PCPSM1* Pioneer, 12 VDC, 2nd Location - LS High over front wheel Qty, - 01 Color, Wln Lt Housing - Chrome Cover Control, Scene Lts - Cab Sw Panel DS	1
187	0768064		Lights, Wln, PCPSM1* Pioneer, 12 VDC, 1st Location - RS high over front wheel	1

Line	Option	Type	Option Description	Qty
187			Qty, - 01 Color, WIn Lt Housing - Chrome Cover Control, Scene Lts - Cab Sw Panel DS	
188	0766906	Lights, WIn, PCPSM1*, Pioneer, 12 VDC, 1st	Location - LS Body forward and rearward high Qty, - 02 Color, WIn Lt Housing - Chrome Cover Control, Scene Lts - DS Scene Lts	2
189	0766905	Lights, WIn, PCPSM1*, Pioneer, 12 VDC, 2nd	Location - Rs Body forward and rearward high Qty, - 02 Color, WIn Lt Housing - Chrome Cover Control, Scene Lts - PS Scene Lts	2
190	0766802	Not Required, Deck Lights, Other Hose Bed & Rear Lighting, 100AAT		1
191	0729276	Lights, Hose Bed, Front/Rear, Light Strips, AAT		1
192	0737026	Lights, Rear Scene, WIn, M6ZC LED, M6P15* 15 Deg Brkt, 58" - 72" High	Control, Hose Bed Lts - Parking Brake Control, Rear Scene Lts - Cab Switch Panel DS Color, Trim - Chrome Trim	1
193	0892706	Lights, Walk Surf, FRP Flood, P25 LED, 100AAT	Color, Trim - Chrome Housing	1
194	0771870	Aerial, 100AAT, Alum Body		1
195	0554271	Body Skirt Height, 20"		1
196	0769002	Tank, Water, 300 Gallon, Poly, 100AAT		1
197	0751917	Overflow, 3.00" Water Tank, Poly		1
198	0028104	Foam Cell Required		1
199	0003429	Not Required, Direct Tank Fill		1
200	0769016	Hose Bed, Alum, Right Side, 100AAT		1
201	0723546	DA Finished Hose Bed/Cargo Area		1
202	0555137	Hose Bed Capacity 800' of 5.00", 100AAT, 100' RMAP		1
203	0748063	Hose Restraint, Front Vinyl/Treadplate, 1" Heavy Nylon Web Rear, 100AAT	Color, Vinyl Cover - a) red	1
204	0003512	Running Boards, Ascendant, PAL		1
205	0735582	Turntable Steps, Swing-Down, Left Side, 100AAT	Step, Flip - No Flip Step Body Handrail Finish - knurled aluminum Step Surface, Turntable - Punched Grip	1
206	0889980	Lights, Step (3), P25 LED, One Side	Control, Scene Lts - Park Brake Color, Trim - Chrome Housing	1
207	0690023	Wall, Rear, Smooth Aluminum		1
208	0074515	Tow Eyes (2), 100AAT, Ascendant Single Axle, 75' HAL		1
209	0769019	Construction, Compt, Alum, 100AAT		1
210	0771504	Compt, Left Side, Roll, 100AAT	Latch, Door, Access - lift and turn latch, flush, pair	1
211	0771505	Compt, Right Side, Roll, 100AAT		1
212	0766483	Doors, Gortite Rollup, Side Compartments	Qty, Door Accessory - 09 Color, Roll-up Door, Gortite - Painted to Match Lower Body Latch, Roll-up Door, Gortite - Non-Locking Liftbar	9
213	0740006	Bumper, Rear, 3", Counterweight, Steel, Full 45 Degree Angled Corners, 100AAT		1
214	0603083	Lights, Compt,Pierce LED,Dual Light Strips,Each Side Dr,Ascend TA,75'HAL,PAP,HDL	Qty, - 09 Location, Compartment Lights - All Body Compts	9
215	0687145	Shelf Tracks, Recessed, PUC/3rd Generation		1
216	0600289	Shelves, Adj, 500 lb Capacity, Full Width/Depth, Predefined Locations, Aerial	Qty, Shelf - 08 Material Finish, Shelf - Painted - Spatter Gray Location, Shelves/Trays, Predefined - .Location To Be Determined	8
217	0647772	Tray, Floor Mounted, Slide-Out, 500lb, 2.00" Sides, 3G	Qty, - 05 location - B1 for LDH the rest are TBD	5

Line	Option	Type	Option Description	Qty
217			Material - Painted - Spatter Gray	
218	0725642		Cabinet, Drawer Assembly, CTECH, Three Drawers, Up To 36" Wide	1
			Qty, - 01	
			Location - LS4	
			Size, Drawer Height 1 (Top) - 6.00"	
			Size, Drawer Height 2 - 6.75"	
			Size, Drawer Height 3 - 10.75"	
219	0061917		Rub Rail, Aluminum Extruded, 3.12", Side of Body	1
220	0769018		Fender Crowns, Rear, S/S, w/Removable Fender Liner, Aerial, 3G, Two Pair	1
221	0519849		Not Required, Hose, Hard Suction	1
222	0893499		Handrails, Side Pump Panels, Per Print, Hansen Knurled Alum Tubing, LED, Aerial	1
			Switch, Handrail Light Control - Park Brake	
			Color, Light, Hansen Handrail - White	
			Step, Runningboard - step	
223	0765324		Compt, Air Bottle/Extinguisher,Between Tandems,Three (3),w/Straps,100AAT,Bolt-Ir	2
			Qty, Air Bottle Comp - 2	
			Location, driver's/passenger's/center - 1LS & 1RS	
			Door Finish, Fender Compt - Brushed	
			Latch, Air Bottle Compt - Flush Lift & Turn, Pair	
			Insert, Air Bottle Compt - Dura-Surf Lining	
			Door Type - lift up with pneumatic spring	
224	0622393		Compt, Air Pack Fender Panel	2
			Location, Bracket/comp. - RS forward and rearward of tire	
			Qty, - 02	
			Door Finish, Fender Compt - Brushed	
			Latch, Air Bottle Compt - Southco C2 Chrome Raised	
			Insert, Air Bottle Compt - Dura-Surf Lining	
225	0747880		Compt, Air Bottle, Single w/ DEF, Common Tri Door, Fender Panel, Bolt-In	1
			Qty, Air Bottle Comp - 1	
			Door Finish, Fender Compt - Brushed	
			Location, Fender Compt - Single - LS Fwd	
			Latch, Air Bottle Compt - Southco C2 Chrome Raised	
			Insert, Air Bottle Compt - Dura-Surf Lining	
226	0750559		Compt, Air Bottle, Double, Fender Panel, Alum, Common Fuel Door, 100AAT	1
			Qty, Air Bottle Comp - 1	
			Door Finish, Fender Compt - Brushed	
			Location, Fender Compt - Single - LS Rear - Fuel Fill Combo - Triangular	
		Dr		
			Latch, Air Bottle Compt - Southco C2 Chrome Raised	
			Insert, Air Bottle Compt - Dura-Surf Lining and W-Shaped Insert	
227	0768635		Ladder, 35' Duo-Safety 1200A 2-Sect	2
			Qty, - 02	
228	0010406		Ladder, 28' Duo-Safety 1200A 2-Section	1
			Qty, - 1	
			Location, Extension Ladder - torque box	
229	0074230		Ladder, 20' Duo-Safety 875A Roof	1
			Qty, - 1	
230	0542436		Ladder, 16' Duo-Safety 875-DR Roof	1
			Qty, - 01	
231	0024233		Not Required, Attic Extension Ladder	1
232	0768634		Ladder, 10' Duo-Safety Folding, 585A	2
			Qty, - 02	
			Location, Folding Ladder Aerial - torque box	
233	0744482		Ladders Stored in Torque Box, Gortite Roll, Non-Sealed Lower Compt, 100AAT	1
			Color, Roll-up Door, Gortite - Satin finish	
			Latch, Roll-up Door, Gortite - Non-Locking, Rear	
234	0766602		Lights, Torque Box Ladder Storage, Pierce LED Strip Lights, 2 Lts, 100AAT	1
235	0775907		Pike Pole, 12' DUO Safety, Fiberglass	2
			Qty, - 02	
236	0789564		Pike Pole, 8' DUO Safety, Fiberglass, Aerial	2
			Qty, - 02	
237	0552649		Pike Pole, 6' Fire Hooks Unlimited, New York Roof Hook, Steel, Pry End, RH-6	1
			Qty, - 01	
			Location - Pike pole storage	

Line	Option	Type	Option Description	Qty
238	0789586		Pike Pole, 3' DUO Safety, Fiberglass, w/D Handle	2
			Qty, - 02	
239	0770572		Pike Pole Tubes, in Torque Box/Ladder Storage, Alum, Special Notch, NY Style	6
			Qty, - 06	
240	0765390		Pump House, Side Control, 42", 100AAT, Control Zone	1
241	0767048		Pump House Structure	1
242	0767622		Pump, Waterous, S100, 2000 GPM, Single Stage, 100' AAT	1
243	0504116		Seal, Mechanical, Waterous, w/S100 Pump	1
244	0559768		Trans, Pump, Waterous C20, S100 Pump Only	1
245	0635600		Pumping Mode, Stationary Only	1
246	0605126		Pump Shift, Air Mnl Override, Split Shaft, Interlocked, Waterous	1
247	0003148		Transmission Lock-up, EVS	1
248	0004547		Auxiliary Cooling System	1
249	0014486		Not Required, Transfer Valve, Single Stage Pump	1
250	0746508		Valve(s), Relief Intake, Trident Air Max, Control Location	1
			Qty - 1	
			Pressure Setting - 125 psig	
			Intake Relief Valve Control - Behind Right Side Pump Panel	
251	0794959		Controller, Pressure, Pierce, Pump Boss, PBA300	1
252	0072153		Primer, Trident, Air Prime, Air Operated	1
253	0780364		Manuals, Pump, (2) Total, Electronic Copies	1
254	0602492		Plumbing, Stainless Steel and Hose, Single Stage Pump, 100AAT	1
255	0795135		Plumbing, Stainless Steel, w/Foam System	1
256	0751029		Inlets, 6.00", (1) Left Side, (1) Right Side, 1500-2000 GPM Pump, 100AAT	1
257	0014650		Pump Suction Tube(s), Short, All	1
258	0004646		Cap, Main Pump Inlet, Long Handle, NST, VLH	1
259	0084610		Valves, Akron 8000 series- All	1
260	0016158		Valve, Inlet(s) Recessed, Side Cntrl, "Control Zone"	1
			Qty, Inlets - 1	
261	0004700		Control, Inlet, at Valve	1
262	0004660		Inlet (1), Left Side, 2.50"	1
263	0029147		Not Required, Inlet, Right Side	1
264	0723049		Valve, .75" Bleeder, Aux. Side Inlet, "T" Swing Handle	1
265	0767284		Tank to Pump, (1) 3.00" Valve, 3.00" Plumbing, 100AAT	1
266	0004905		Outlet, Tank Fill, 1.50"	1
267	0062133		Control, Outlets, Manual, Pierce HW if applicable	1
268	0890913		Outlet, Left Side, 2.50", 100AAT	2
			Qty, Discharges - 02	
269	0005091		Elbow, Left Side Outlets, 45 Degree, 2.50" FNST x 2.50" MNST, VLH	1
270	0004945		Outlet, Right Side, 2.50"	1
			Qty, Discharges - 01	
271	0025091		Elbow, Right Side Outlets, 45 Degree, 2.50" FNST x 2.50" MNST, VLH	1
272	0762721		Outlet, 4" w/4" Valve, Right Side, Akron 9327 Elec Controller	1
273	0005097		Elbow, Large Dia Outlet, 30 Deg, 4.00" FNST x 5.00" Storz	1
			Qty, - 01	
274	0738134		Outlet, Front, 1.50" w/2" Plumbing, 100AAT	1
			Fitting, Outlet - 1.50" NST with 90 degree swivel	
			Drain, Front Outlet - Automatic	
			Location, Front, Single - in center bumper tray	
275	0752097		Caps/Plugs for 1.00" to 3.00" Discharges/Inlets, Chain	1
276	0723042		Valve, 0.75" Bleeder, Discharges, "T" Swing Handle	1
277	0005080		Reducer, 2.50" FNST x 1.50" MNST, w/Cap	3
			Qty, Adapter for Outlets - 03	
			Location, Adapter(s) - All 2.5" side outlets	
278	0029106		Not Required, Deluge Outlet	1
279	0720739	SP	Waterway Outlet & Control, 4" Akron 9327 Electric, 100AAT	1
280	0723726		Speedlay Module Not Required	1
281	0722432		Hose Restraint Not Required, No Speedlay Module	1
282	0723395		Speedlays, Not Required	1
283	0723394		Speedlays, Not Required	1
284	0762277		Crosslays Sngl Sheet Unpainted, (1+) 1.50" Std. Cap, 100AAT	2
			Qty, Crosslays - 2	

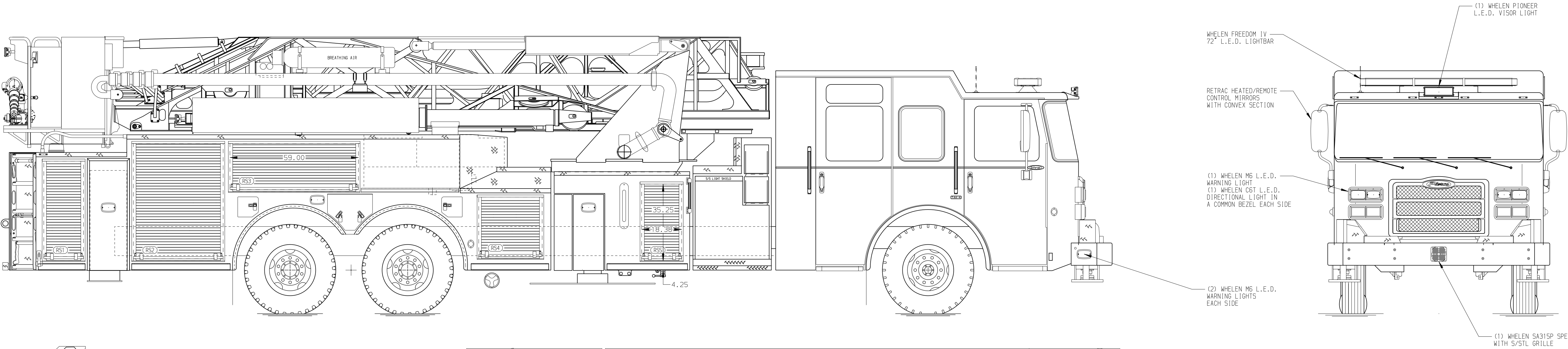
Line	Option	Type	Option Description	Qty
285	0762275		Crosslays Sngl Sheet Unpainted, (1) 2.50" Std Cap, 100AAT	1
286	0751312		Hose Restraint, Crosslays, Vinyl, (2) Seat Belt Buckle, Tether Release	1
			Color, Vinyl Cover - c) black	
			Color, Strap - Black	
			Release, Seat Belt Buckle - Y-Strap	
287	0734284		Foam Sys, Husky 3, Single Agent, Multi Select Feature, 100AAT	1
			Outlet, Foam - No. 1 Crosslay, No. 2 Crosslay, No. 3 Crosslay and Center	
			Front Discharge	
288	0012126		Not Required, CAF Compressor	1
289	0592527		Refill, Foam Tank, Integral, Husky 3	1
290	0031896		Demonstration, Foam System, Dealer Provided	1
291	0022539		Foam Cell, 20 Gallon, Reduce Water	1
			Type of Foam - Class "A"	
292	0733554		Drain, 1.00" Foam Tank, 100AAT	1
293	0091112		Not Required, Foam Tank #2 Drain	1
294	0738072		Approval Dwg, Pump Panel(s), Not Required	1
295	0032479		Pump Panel Configuration, Control Zone	1
296	0747651		Step, Slide-Out/Fold-Out, Pump Operator Platform, 100AAT	1
297	0667186		Light, Slide-Out Pump Operator Step, On Scene Solutions Access LED, Short Step	1
298	0629252		Material, Pump Panels, Side Control Black Vinyl	1
			Material Finish, Pump Panel, Side Control - Black Vinyl	
			Material, Pump Panel, Side Control - Aluminum	
299	0723264		Panel, Pump Access - Right Side Only, 100AAT	1
			Latch, Pump Panel Access, Side Mount - Flush Lift and Turn, Chrome,	
			AAT	
300	0583824		Light, Pump Compt, WIn 3SC0CDCR LED White	1
			Qty, - 01	
301	0586382		Gauges, Engine, Included With Pressure Controller	1
302	0005601		Throttle, Engine, Incl'd w/Press Controller	1
303	0739224		Indicator Light @ Pump Panel, Throttle Ready, Incl w/Pressure Gov/Throttle,Green	1
304	0549333		Indicators, Engine, Included with Pressure Controller	1
305	0745568		Indicator Light, Pump Panel, Ok To Pump, Green	1
306	0511078		Gauges, 4.00" Master, Class 1, 30"-0-600psi	1
307	0511100		Gauge, 2.00" Pressure, Class 1, 30"-0-400psi	1
308	0062586		Gauge, Water Level, Class 1, Pierce Std	1
309	0062992		Gauge, Foam Level, (1) Tank, Class 1, GAAAR 5lt	1
310	0735892		Light Shield, S/S LS & RS, 100AAT, Std LED	1
311	0762640		Air Horns, (2) Hadley, 6" Round, eTone, In Bumper, 100AAT	1
312	0606833		Location, Air Horns, Bumper, Each Side, Inside Frame (Pos #3 & #5)	1
313	0016065		Control, Air Horn, Horn Ring, PS Chrome Push Button	1
314	0525667		Siren, WIn 295SLSA1, 100 or 200 Watt	1
315	0510206		Location, Elect Siren, Recessed Overhead In Console	1
			Location, Elec Siren - Overhead, DS Center Sw Pnl	
316	0076156		Control, Elec Siren, Head Only	1
317	0601306		Speaker, (1) WIn, SA315P, w/Pierce Polished Stainless Steel Grille, 100 watt	1
			Connection, Speaker - siren head	
318	0601565		Location, Speaker, Frt Bumper, Recessed, Center (Pos 4)	1
319	0895287		Siren, Federal Q2B, Enforcer, 100AAT	1
			Finish, Q2B Siren - Chrome	
320	0728605		Siren, Mechanical, Mounted Above Deckplate, 100AAT	1
			Location, Siren, Mech - a) Left	
321	0748305		Control, Mech Siren, Multi Select	1
322	0748282		Control Mech Siren, Ft Sw LS	1
323	0740391		Sw, Siren Brake, Momentary Chrome Push Button, RS	1
324	0002623		Cut-Out, Mech Siren, Interlock to Prk Brk	1
325	0746353		Not Required, Warning Lights Intensity	1
326	0778949		Lightbar, WIn, Freedom IV-Q, 72", RRRRWsrROptRsrWRRRR	1
			Opticom Priority - b) High	
			Opticom Activation - E-Master	
			Momentary Opticom Activation - PS Switch	
			Filter, Whl Freedom Ltbrs - No Filters	
380			No Additional Lights Req'd, Side Zone Upper	1

Line	Option	Type	Option Description	Qty
328	0540384		Lights, Front Zone, WIn M6°C LED, Clear Lens, in Common Bzl Color, Lt DS Front - Red Color, Lt PS Front - Red	1
329	0653937		Flasher, Headlight Alternating Headlt flash deactivation - a)w/high beam	1
330	0540679		Lights, Side Zone Lower, WIn M6°C LED, Clear Lens 2pr Location, Lights Front Side - b)each side bumper Color, Lt Side Front - Red Color, Lt Side Rear - Red Location, Lights Rear Side - Over Rear Wheels	1
331	0564655		Lights, Rear Zn Lwr, WIn M6°C LED, Clear Lens, For Tail Lt Housing Color, Lt DS Rear - r) DS Rear Lt Red Color, Lt PS Rear - r) PS Rear Lt Red	1
332	0088745		Light, Rear Zone Up, WIn L31HRFN LED Beacon, Red LED Color, Dome, Rear Warning - j) both domes clear	1
333	0006551		Not Required, Lights, Rear Upper Zone Blocking	1
334	0791501		Light, Traffic Directing, WIn TAL65, 36" Long LED, Aerials Activation, Traffic Dir L - Not Connected	1
335	0530074		Location, Traf Dir Lt, On Top of Body Below Turntable w/Trdplt Box	1
336	0530282		Location, Traf Dir Lt Controller, Overhead Switch Panel DS Right End	1
337	0023717		Electrical System, A/C w/Customer Installed Generator	1
338	0016691		Generator, Cust/Sales Rep Furnished (Installed by F.D.) Fill in Blank - Customer to install honda generator Pig tail supplied in the Ls1 Compt.	1
339	0066645		Generator Mounting Location by Customer Location, Generator - LS1	1
340	0016751		Manual Start, Generator	1
341	0016757		Not Required, Remote Start, Generator	1
342	0016740		Not Required, Fuel System	1
343	0016767		Not Required, Oil Drain Extension, Generator	1
344	0006737		Circuit Breaker Panel w/Cust or Dealer Furn Generator Location, CB Panel - L1 Make/Model - Honda 6000KW	1
345	0016771		Not Required, Routing Exhaust, Generator	1
346	0519934		Not Required, Brand, Hydraulic Tool System	1
347	0649753		Not Required, PTO Driven Hydraulic Tool System	1
348	0771866		Aerial, Ascendant 100' Aerial Tower	1
349	0680821		Boom Panel, Pair Paint Color, Predefined - #10 white	1
350	0526890		Not Required, Indicator, Extension	1
351	0688232		Rung Covers, Aerial Device Rung Cover Color - Safety Yellow	1
352	0678539		Brackets Only, Roof/Wall Ladder, Aerial Fly Section Finish - DA Finish Roof Ladder, Make/Model - 16' Duo-Safety 875-A-DR 16.00" wide	1
353	0623645		Aerial Stability Test, Max Tip Options	1
354	0728982		Box, Saw Storage, w/Cover, Base Section Above Boom Panel, 100AAT, Door Sw Qty, - 01 Finish - Painted, Aerial Device Color Latch, Door, Storage - "D" Handle Latch Location, Aerial Device - right side Louvers - no louvers	1
355	0770598		Basket, 100AAT	1
356	0803225		Lights, Turntable Walkway, P25, On Scene, LED, 100AAT Color, Trim - Chrome Housing	1
357	0767535		Light, Turntable Console, TecNiq E-10, LED	1
358	0732762		Basket Heat Shields, 100AAT	1
359	0766953		Control Stations, 100AAT	1
360	0751348		Lights, Basket Interior, CLC-1049-20, 20" 100AAT	1
361	0771862		Stabilizers, 100AAT, Three Sets	1
362	0729051		Stabilizer Pan and Trim Material Stabilizer Panels - polished stainless steel Stabilizer Trim - polished stainless steel	1

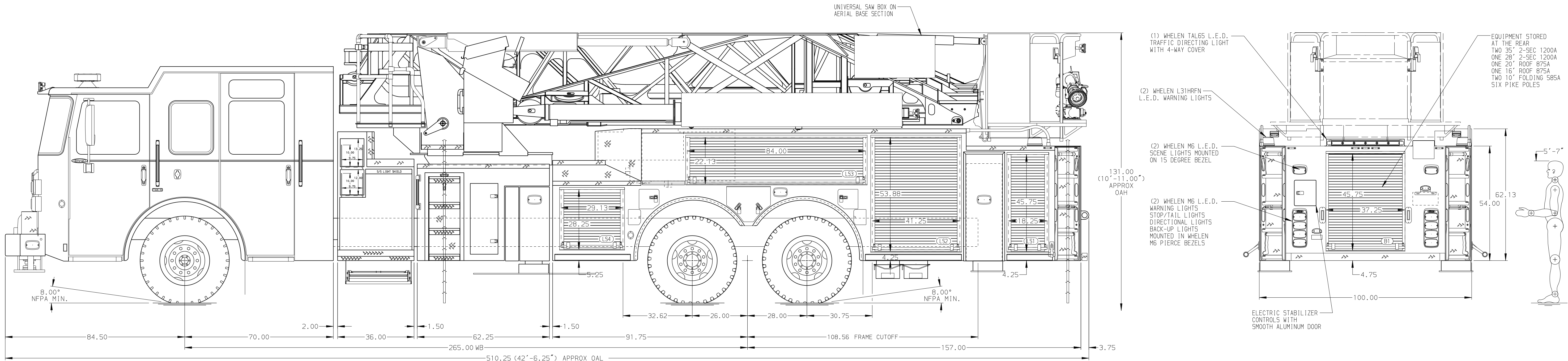
Line	Option	Type	Option Description	Qty
363	0746173		Door, Stabilizer Control Box, Aerial MUX, 100AAT	1
			Latch, Door, Storage - Lift and Turn Latch, Flush	
			Hinge Location - Inboard	
			Door, Material & Finish, Stabilizer - Smooth aluminum	
364	0771218		Hydraulic System, 100AAT	1
365	0767932		Swivels, w/Encoder, 36, 100AAT	1
366	0767931		Electrical System, 100AAT	1
367	0757381		Light, Tip, WIn P*H2* LED, Front of Basket Bail Brkt 100AAT 1lts	1
			Color, WIn Lt Housing - White Paint	
			Scene Light Optics - combination	
			Control, Tip Lts - Turntable and Tip	
368	0752453		Lights, Tracking, WIn MPB* LED, 100AAT 2lts	1
			Color, WIn Lt Housing - White Paint	
			Scene Lt Optics LH Base - L Spot	
			Scene Lt Optics RH Base - R Spot	
369	0743431		Basket Access, w/ Flip Down Step, Lift Bar Latch, 100AAT	1
			Finish, Step Well - aluminum treadplate	
370	0894586		Lights, Step (4), P25, Ladder Style Access Steps, Both Sides	1
			Control, Light - i) park brake	
			Color, Trim - Chrome Housing	
371	0749120		Lighting, Rung, LED, TecNiq, 5 Section, Base, Low, Cent, Upper, Fly, 100AAT	1
			Control, Aerial Rung Lighting - DS Sw Panel and Platform/Tip/Turntable	
			Color, Lt Aerial Fly Sect - Red	
			Color, Lt Aerial Base Sect - Blue	
			Color, Lt Aerial Lower Mid Sect - White	
			Color, Lt Aerial Upper Mid Sect - Red	
			Color, Lt Aerial Mid Sect - White	
372	0540743		Lights, Stabilizer Warn (2) Sets, WIn M6*C LED, Clear Lens	1
			Color, Lt Rr Stabilzr Pan - r) Pan Light Red	
			Color, Lt Fr Stabilzr Pan - r) Pan Light Red	
373	0068703		Lights, Grote Supernova LED, Stabilizer Beam, (1) Set	1
374	0762387		Lights, Stabilizer Scene, (3) sets, Amdor AY-LB-12HW012, 100AAT	1
375	0766878		120 Volt To Tip, 2-20 Amp L5-20 TL, 100AAT	1
376	0737181		Intercom, 2-Way Fire Research ICA910 Hands Free	1
377	0804619	SP	Camera System, Wireless Aerial Platform Camera to Pedestal MUX, AHD	1
378	0766913		Breathing Air to Tip, (1) 4500 PSI, 100AAT	1
			Refill Hose - 50'	
			Breathing Air Fitting - Hansen	
			Breathing Air Mask Box - mask box platform rubber draw latch	
379	0024742		Not Required, Mask, Breathing Air To Tip	1
380	0741453		Outlet, Breathing Air at Basket, 100AAT, Additional	1
			Location, Additional Breathing Air Outlet - additional left rear	
381	0767396		Aerial Pedestal, 100AAT	1
382	0766834		Lyfe Brackets, 3-In-1, Used w/Duo-Safety 875 Ladders ONLY, 100AAT	1
383	0767149		Turntable Access, ManSaver Bar, Yellow	1
384	0804860		Waterway, 100AAT	1
			Aerial Waterway Drain 100AAT - Standard Location, Right Side	
385	0730399		Valves, (2) TFT VUM (Valve Under Monitor), Manual	1
386	0764417		Monitors, (2), TFT Monsoon, Y4-MP1A-P-01 Manual and Y4-EP1A-P Elec, (Use w/VUM)	1
			Nozzle, Monitor 1, PAP - TFT YST-4NN Tips	
			Nozzle, Monitor 2, PAP - TFT M-ERP2000 Electric 2000 gpm	
387	0086971		Flowmeter, Waterway, MUX, PAP	1
388	0009364		Inlet, 5.00", S/S, w/ Pump, Right Side, 100AAT	1
389	0047897		Tools, Aerial	1
390	0559491		Manuals and Training, 3 Consecutive Days, Platform	1
391	0007150		Bag of Nuts and Bolts	1
			Qty, Bag Nuts and Bolts - 1	
392	0602497		NFPA Required Loose Equipment, Quint, NFPA 2016, Provided by Fire Department	1
393	0602397		Soft Suction Hose, Provided by Fire Department, Quint NFPA 2016 Classification	1
394	0027023		No Strainer Required	1
395	0602534		Extinguisher, Dry Chemical, Quint NFPA 2016, Provided by Fire Department	1
352			Extinguisher, 2.5 Gal. Pressurized Water, Quint, NFPA 2016, Provided by Fire Dept	1


Line	Option	Type	Option Description	Qty
397	0765595		Ladder Belts, Aerial	1
			Safety Belt, Large/XL - (2) two Large/XL (34"-42" waist)	
			Safety Belt, Small/Medium - 0) small/medium (26"-34" waist)	
			Safety Belt, XXL - (1) one XXL (42"-50" waist)	
398	0007482		Not Required, Crowbars	1
399	0007484		Not Required, Claw Tools	1
400	0602883		Axe, Flathead, Quint NFPA 2016, Provided by Fire Department	1
401	0602670		Axe, Pickhead, Quint NFPA 2016, Provided by Fire Department	1
402	0007494		Not Required, Sledgehammers	1
403	0741569		Paint Process / Environmental Requirements, Appleton	1
404	0709566		Paint, Two-Tone Color, Enforcer	1
			Paint Color, Upper Area, Predefined - #10 White	
			Shield, Cab - Standard Shield	
			Paint Color, Lower Area, Predefined - #30 Yellow	
			Paint Break, Cab - Standard Two-Tone Cab Break	
405	0709845		Paint, Single Color, Body	1
			Paint, Body - Match Lower Cab	
406	0646901		Paint Chassis Frame Assy, With Liner, E-Coat, Standard	1
			Paint Color, Frame Assembly, Predefined - Standard Black	
407	0693797		No Paint Required, Aluminum Front Wheels	1
408	0693792		No Paint Required, Aluminum Rear Wheels	1
409	0733739		Paint, Axle Hubs	1
			Paint, Axle Hub - Black #101	
410	0007230		Compartment, Painted, Spatter Gray	1
411	0792638		Aerial Platform Paint	1
			Paint Color, Aerial Device - White 10	
			Paint Color, Turntable - White 10	
			Paint Color, Boom Support - white 10	
			Paint Color, Cylinders - white 10	
			Paint Color, Aerial Torque Box - gloss black primer	
			Paint Color, Aerial Stabilizers - black 101	
			Paint Color, Aerial Basket - white 10	
			Paint Color, Aerial Rotation Motor - White 10	
			Paint Color, Aerial Control Console - white 10	
412	0544111		Reflective Band, 10"	1
			Color, Reflect Band - A - a) white	
413	0007356		Reflective across Cab Face	1
414	0583454		Stripe, Chevron, Rear, Diamond Grade, Aerial	1
			Color, Rear Chevron DG - fluorescent yellow green	
415	0598754		Stripe, Reflective/Diamond Grade, 4.00" on Stabilizers	1
			Color, Reflect Band - A - p) fluorescent yellow green diamond grade	
416	0065687		Stripe, Reflective, Cab Doors Interior	1
			Color, Reflective - a) white	
417	0027372		Lettering Specifications, (GOLD STAR Process)	1
418	0686428		Lettering, Gold Leaf, 3.00", (41-60)	1
			Outline, Lettering - Outline and Shade	
419	0686010		Lettering, Reflective, 6.00", (21-40)	1
			Outline, Lettering - Outline and Shade	
420	0685535		Lettering, Printed Effect Gold Leaf, 10.00", (1-20)	1
			Outline, Lettering - Outline and Shade	
421	0695610		Emblem, Reflective, Per Dept. Submittal, Each	2
			Qty, - 02	
			Location, Emblem - LS1 and RS1	
			Size, Dept Seal, Reflect - 34" - 36"	
422	0599008		Rust Proof/Undercoat, Custom Chassis	1
			Color, Undercoating - Black	
423	0695507		Rust Proof, Torque Box	1
			Color, Undercoating - Black	
424	0652945		E-Coat, Under Body/Chassis Component Package	1
			Paint Color, E-Coat - Black	
425	0772003		Manual, Fire Apparatus Parts, USB Flash Drive, Custom	1
			Qty, - 01	

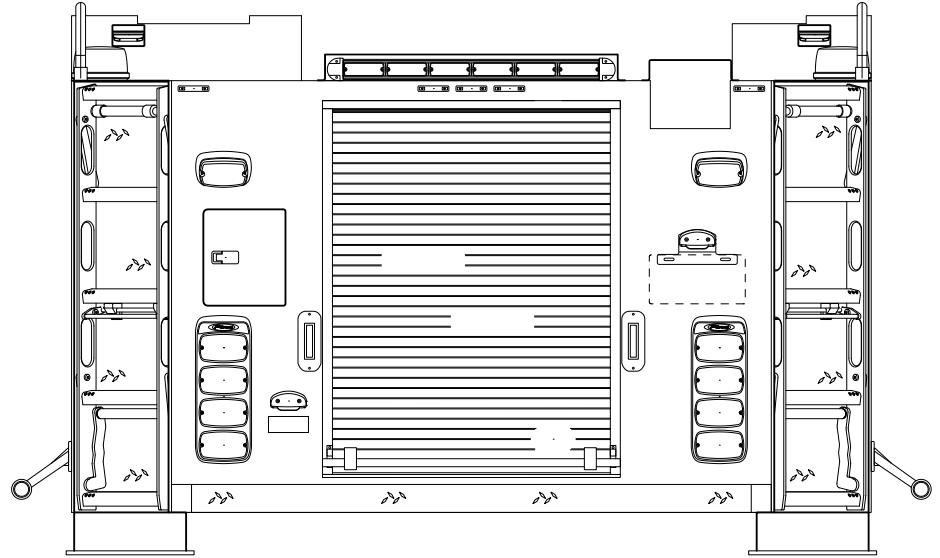
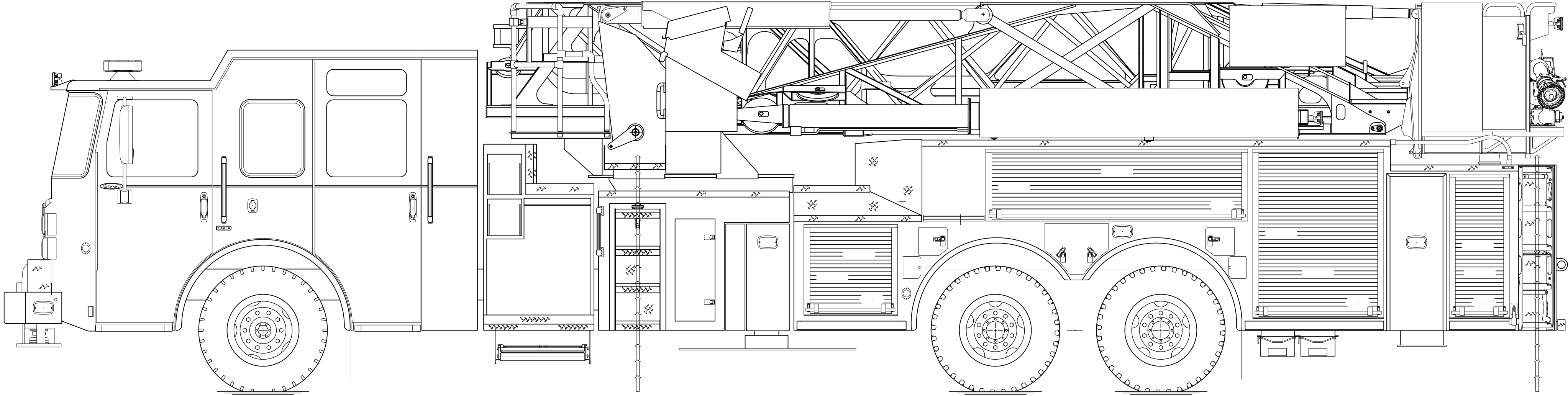
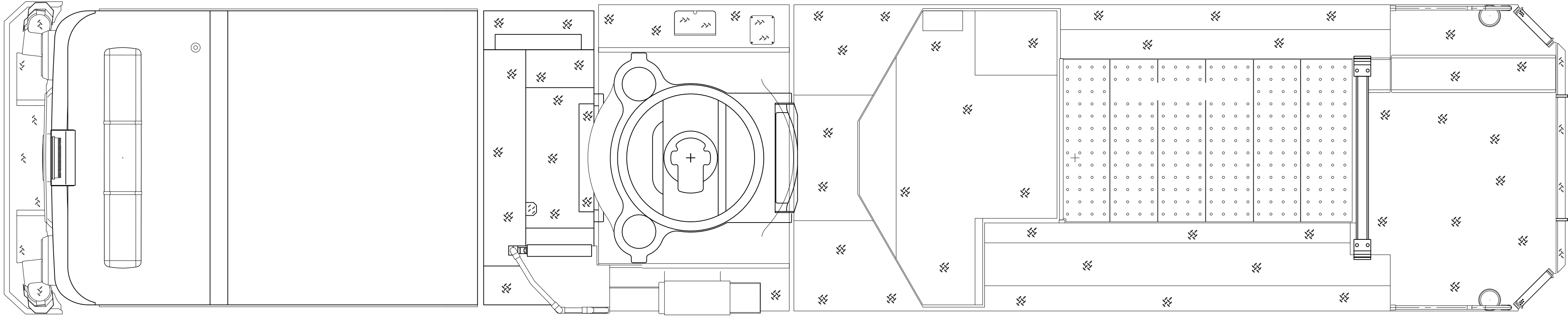
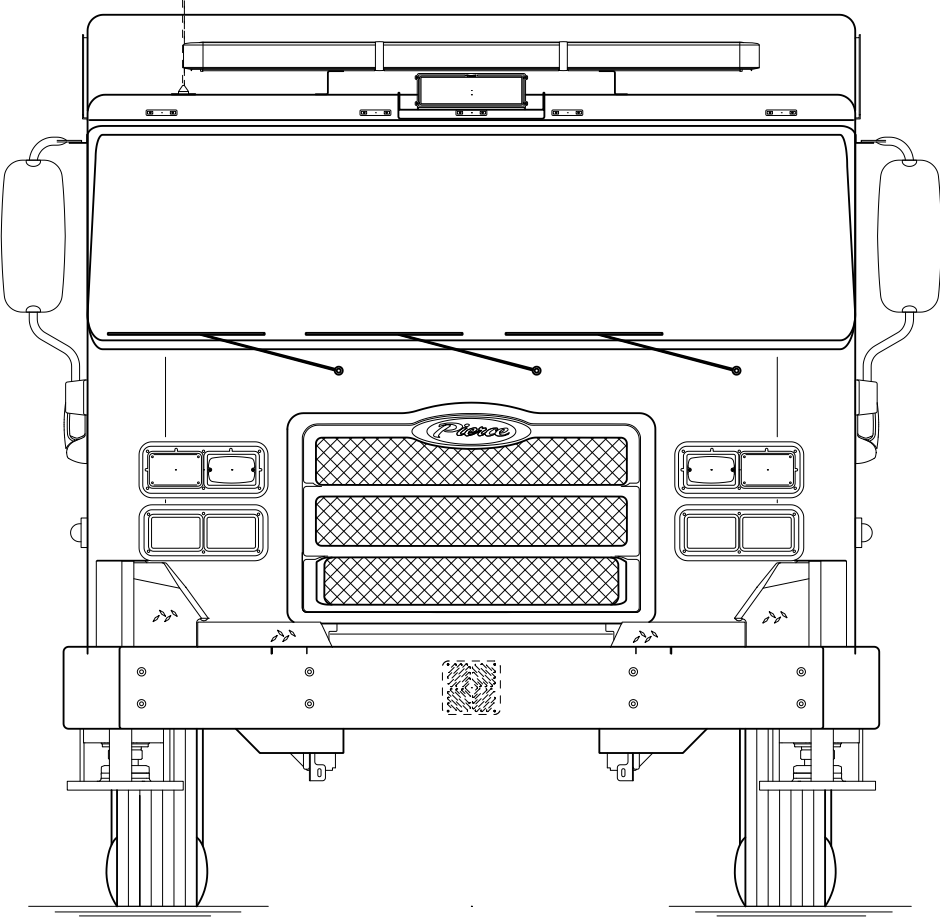
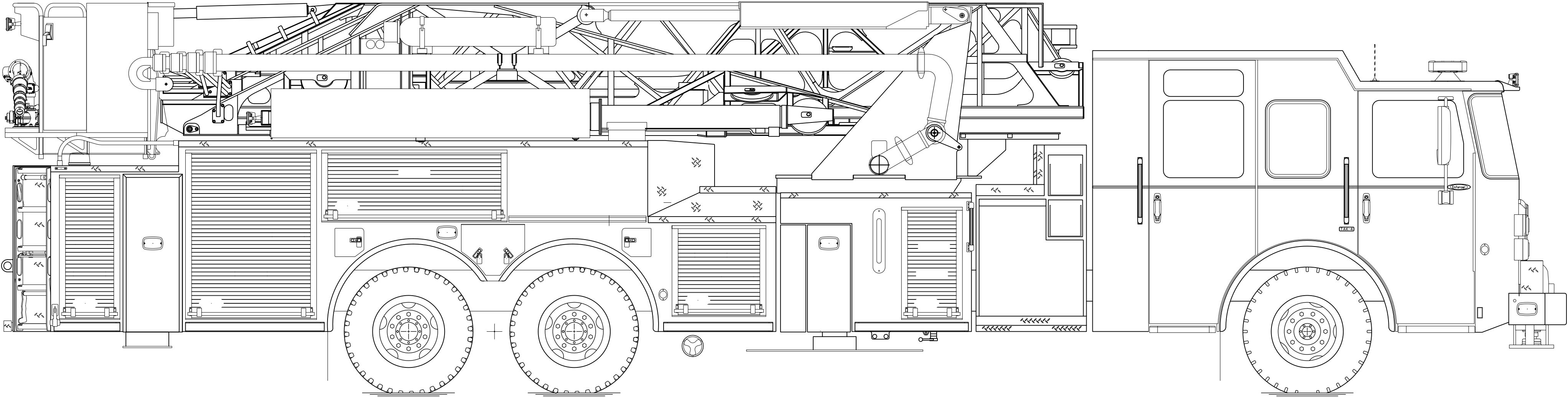
Line	Option	Type	Option Description	Qty
426	0772037		Manual, Chassis Service, USB Flash Drive, Custom Qty, - 01	1
427	0773381		Manual, Chassis Operation, (1) USB Flash Drive, Custom	1
428	0030008		Warranty, Basic, 1 Year, Apparatus, WA0008	1
429	0696698		Warranty, Engine, Cummins, 5 Year, WA0181	1
430	0684952		Warranty, Steering Gear, TRW Ross TAS, 1 Year WA0202	1
431	0596017		Warranty, Frame, 50 Year, Custom Chassis, WA0013	1
432	0610471		Warranty, Axle, Eaton/Dana, 5 Year/100,000 Mile, Parts and Labor	1
433	0733305		Warranty, Tandem Axle, 5 Year, Meritor, General Service, WA0384	1
434	0652758		Warranty, ABS Brake System, 3 Year, Meritor Wabco, WA0232	1
435	0019914		Warranty, Structure, 10 Year, Custom Cab, WA0012	1
436	0744240		Warranty, Paint, 10 Year, Cab, Pro-Rate, WA0055	1
437	0524627		Warranty, Electronics, 5 Year, MUX, WA0014	1
438	0695416		Warranty, Pierce Camera System, WA0188	1
439	0647720		Warranty, Pierce LED Strip Lights, WA0203	1
440	0046369		Warranty, 5-year EVS Transmission, Standard Custom, WA0187	1
441	0685945		Warranty, Transmission Cooler, WA0216	1
442	0688798		Warranty, Water Tank, Lifetime, UPF, Poly Tank, WA0195	1
443	0596025		Warranty, Structure, 10 Year, Body, WA0009	1
444	0693127		Warranty, Gortite, Roll-up Door, 6 Year, WA0190	1
445	0734463		Warranty, Pump, Waterous, 7 Year Parts, WA0382	1
446	0648675		Warranty, 10 Year S/S Pumbing, WA0035	1
447	0657990		Warranty, Foam System, Husky 3, WA0231	1
448	0006999		Warranty, Structure, 20 Year, Aerial Device, WA0052	1
449	0687388		Warranty, Swivels, 5 Year, Aerial Device, WA0197	1
450	0685727		Warranty, Hydraulic System and Components, 3 Year/5 Year, WA0200	1
451	0687327		Warranty, Waterway, 10 Year, Aerial Device, WA0198	1
452	0595860		Warranty, Paint, 4 Year, Aerial Device, Pro-Rated, WA0047	1
453	0553455		Warranty, Electronics, 5 Year, MUX, WA0014	1
454	0595820		Warranty, Paint, 10 Year, Body, Pro-Rate, WA0057	1
455	0595421		Warranty, Goldstar, 3 Year, Apparatus, WA0018	1
456	0683627		Certification, Vehicle Stability, CD0156	1
457	0736243		Certification, Engine Installation, Enforcer, Cummins X12, 2021, CD0170	1
458	0686786		Certification, Power Steering, CD0098	1
459	0631980		Certification, Cab Integrity, Saber FR/Enforcer, CD0130	1
460	0631973		Certification, Cab Door Durability, Saber FR/Enforcer, CD0137	1
461	0631978		Certification, Windshield Wiper Durability, Saber FR/Enforcer, CD0132	1
462	0631974		Certification, Electric Window Durability, Saber FR/Enforcer, CD0133	1
463	0631977		Certification, Seat Belt Anchors and Mounting, Saber FR/Enforcer, CD0134	1
464	0735949		Certification, Cab HVAC System Performance, SFR/Enf, CD0165/CD0167/CD0174/CD0175	1
465	0545073		Amp Draw Report, NFPA Current Edition	1
466	0002758		Amp Draw, NFPA/ULC Radio Allowance	1
467	0799248		Appleton/Florida BTO	1
468	0000053		Ascendant Tower	1
469	0000012		PIERCE CHASSIS	1
470	0004713		ENGINE, OTHER	1
471	0046396		EVS 4000 Series TRANSMISSION	1
472	0805943		WATEROUS PUMP S-100 AAT	1
473	0020009		POLY TANK	1
474	0028048		FOAM SYSTEM	1
475	0020006		SIDE CONTROL	1
476	0020007		AKRON VALVES	1
477	0020015		ABS SYSTEM	1
478	0755454		AERIAL MEDIUM	1



BODY 100' Ascendant Aerial Tower Alum Body COMPT, LEFT SIDE Full Height RollUp Doors COMPT, RIGHT SIDE Full Height RollUp Doors	WATER TANK 300 Gallon Poly Water Tank Foam System Foam System Not Required Foam Cell Foam Cell Not Required
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CHASSIS Enforcer Chassis ENGINE 525 HP Cummins X12 Engine		CAB 7010 Enforcer Cab BUMPER 15" Painted Aluminum		AXLE, FRONT, CUSTOM 24,000 Lb TAK-4 Axle AXLE, REAR 52,000 Lb Meritor Axle		TRANSMISSION Allison 5th Gen, 4000 EVS P		PUMPHOUSE 36" Control Zone Side Mount PUMP 2000 GPM Waterous S100		CROSSLAYS, 1.50" (2) 1.50", With Trays, 200" CROSSLAYS, 2.50" 2.50" CrossLay Not Required		SPEEDLAYS SpeedLays Not Required GENERATOR Generator Not Required		SAFETY Side Roll and Frontal Impact Protection		CUSTOMER APPROVAL APPROVED BY: _____ DATE: _____		 MANUFACTURING INC.		JOB NO. —	
<div>NOTE</div> <div>DIMENSIONS SHOWN ARE APPROXIMATE AND ARE SUBJECT TO MINOR DEVIATIONS AS MAY OCCUR OR BE NECESSARY IN CONSTRUCTION.</div> <div>MINOR DETAILS NOT SHOWN.</div>																		SCALE 1:24		DATE	
																		DRAWN BY		—	
																		CHECKED BY		—	
																		SHEET SIZE		SHEET NO.	
																		D		1 OF 1	



NOTE
LAYOUT AND SIZES PROVIDED BY CUSTOMERS
MAY VARY DUE TO AVAILABLE WORKING SPACE.

COLOR LEGEND	
PINK	LETTERING (VINYL OR REFLECTIVE)
ORANGE	STRIPING (VINYL OR REFLECTIVE)
GREEN	GOLD LEAF
YELLOW	CUSTOMER FURNISHED PRODUCT

CUSTOMER APPROVAL

APPROVED BY: _____
DATE: _____

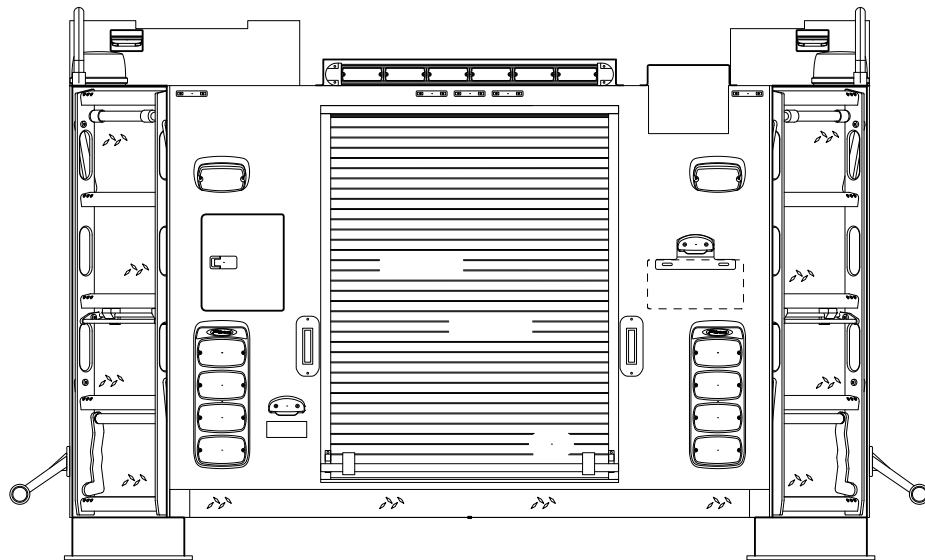
				CHASSIS DATA
				MAKE
				PIERCE
				MODEL
REV	DATE	BY	CH	—



MANUFACTURING INC.

TITLE	LETTERING, STRIPING, AND PAINTING INSTRUCTIONS
FOR	Marshall AAT Tower
DWG NO.	LSP-LP

JOB NO.	—
SCALE	DATE
1:24	
DRAWN BY	—
CHECKED BY	—
SHEET SIZE	SHEET NO.
D	1 of 1



CUSTOMER APPROVAL

APPROVED BY: _____

DATE: _____

NOTE: PLEASE REVIEW CHEVRON COVERAGE AND DOOR MATERIAL PER PULSE OPTIONS. NON-RELATED OR NON-CRITICAL MINOR DEVIATIONS MAY EXIST.



MANUFACTURING INC.

JOB NO.

—

SCALE

1:24

DRAWN BY

—

DATE

06MAY22

TITLE

CHEVRON DRAWING

—

FOR

Marshall AAT Tower

—

Item 3.

CHEVRON-CD

SHEET SIZE

A

SHEET NO.

Page 51



PURCHASE ORDER

Purchaser		SUPPLIER	
Purchaser:	City of Marshall	Contract #	FS12-19 For Years 2019-2023
Address 1:	344 West Main Street	Supplier:	Rosenbauer Minnesota, LLC
Address 2:		Address 1:	5180 260th Street
City, State, Zip:	Marshall, MN 56258	Address 2:	PO Box 549
		City, State, Zip:	Wyoming, MN 55092

Purchase Order Number:		Delivery in Calendar Days:	600
Date:	9/7/2022	HGAC Product Code	FS19YA08

The amount in this proposal shall remain firm for a period of 30 days from the date of same.

Quantity	Description	Price	Price (Extended)
1	One (1) Rosenbauer Aerial, complete with Rosenbauer Commander chassis and Rosenbauer Cobra Platform per attached specifications.	\$1,470,838.00	\$1,470,838.00
	Note: HGAC administration fee included in price		
*Note: If chassis amount of \$444,695.00 is paid upon arrival at our plant in Minnesota, deduct \$17,075.00 each			
*Note: If aerial amount of \$451,664.00 is paid upon arrival at our plant in Minnesota, deduct \$8,802.00 each			
TOTAL			\$1,470,838.00

NOTES:	
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Rosenbauer Dealer :	General Safety Fire Apparatus
Salesperson:	Steve Harris
Signature:	

Purchaser:	City of Marshall
Print Name:	
Title:	
Date	
Signature:	



APPENDIX C CHANGE ORDER POLICY

This change order policy is intended to reflect the increased cost of changes which result in delayed deliveries, confused paperwork, poor production flow and increased potential of trucks being built to incorrect specifications. With your cooperation, changes can be kept to a minimum which means we will be able to reduce lead times, increase production and maintain costs which will benefit all of us.

Our objective is accurate, high quality and on-time deliveries exceeding our customer expectations.

Changes any time after the order is received may delay the quoted delivery date. Significant design or component changes will have the largest impact on the schedule and quoted delivery date. Changes that occur later in the process will also have the largest impact on the schedule and quoted delivery date.

All time fences are reference to contract execution date if not otherwise stated.

Change Window #1

All changes will be priced at standard pricing and specials will be priced through our normal process. Significant changes made to the vehicle during this time period may result in a delivery extension.

RBM Chassis	0-60 days
RBA Aerial	0-60 days
Rosenbauer Body	0-60 days

Change Window #2

All changes are subject to a 25% mark-up, as well as a \$250.00 change order processing fee. All changes are subject to factory review and may be denied due to engineering or lead time issues.

RBM Chassis	61-75 days
RBA Aerial	61-75 days
Rosenbauer Body	61-120 days

Change Window #3

All changes are subject to a 50% mark-up, and 50% restocking fee on deleted items, as well as a \$250.00 change order processing fee. All changes are subject to factory review and may be denied due to engineering or lead time issues. No major components can be changed at this time; major components are considered engine, transmission, axles, suspension, cab, frame (wheelbase), seats, water pump and water tank.

RBM Chassis	76-120 days
RBA Aerial	76-120 days
Rosenbauer Body	121-180 days

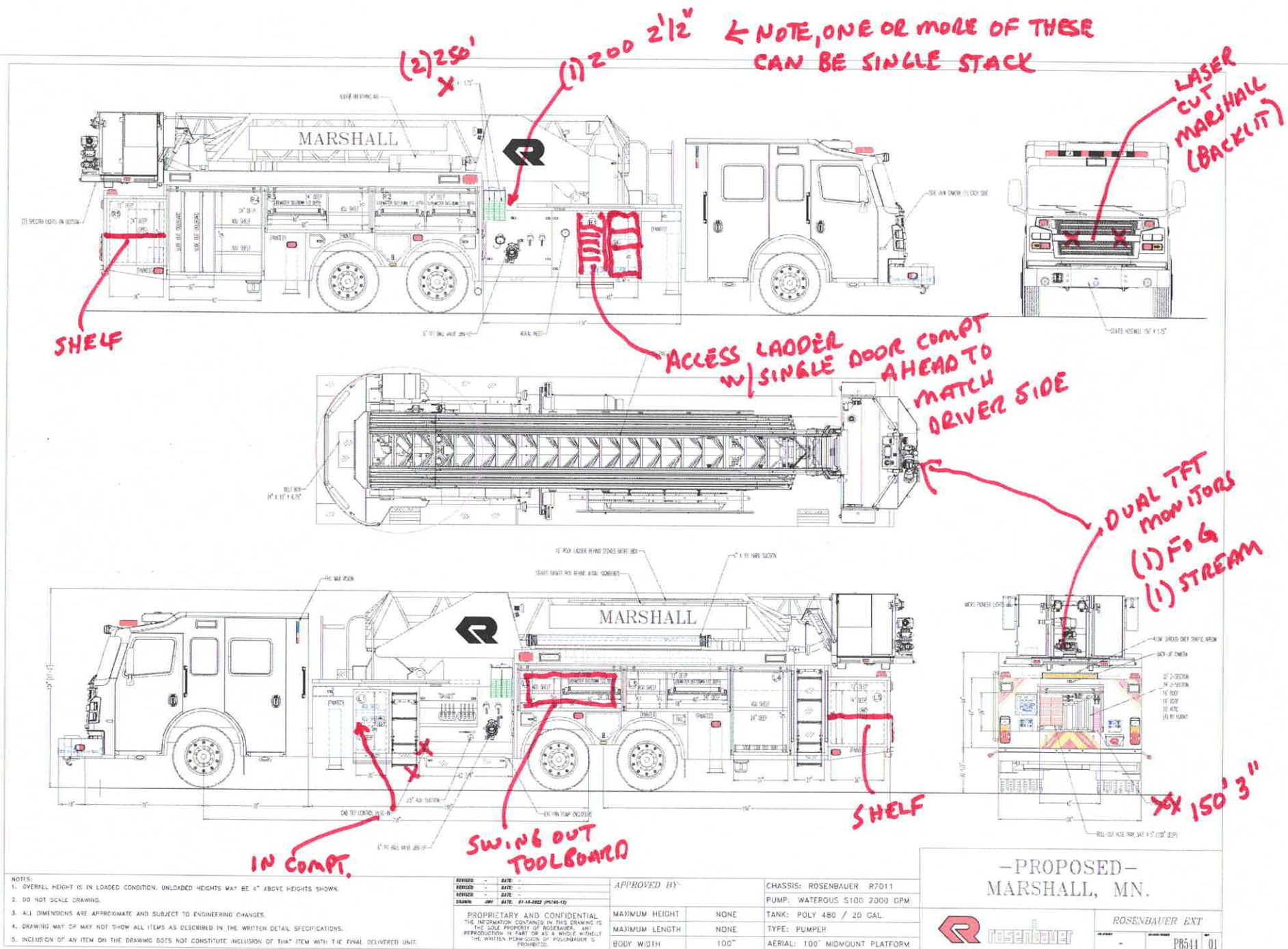
Change Window #4

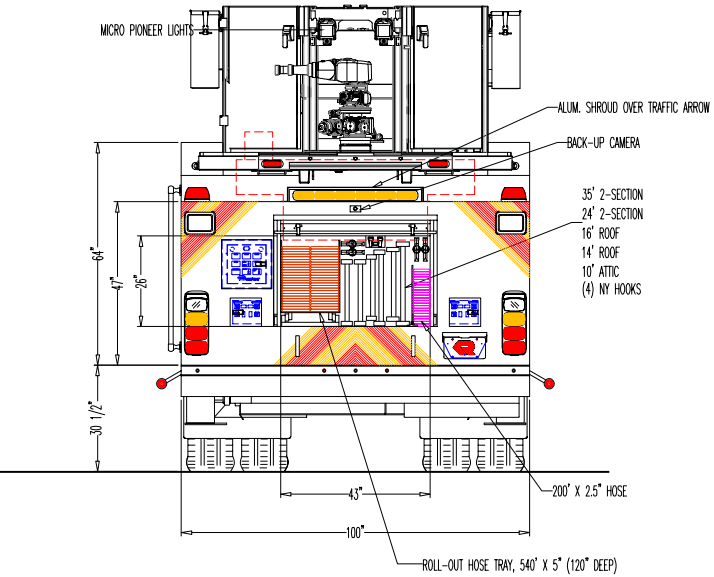
Changes are not recommended at this time. Any changes requested will be priced on a time and material basis, as well as a \$500.00 change order processing fee. Any changes requested, and that are quoted to the customer, must be approved by the customer within three days or they will not be valid.

RBM Chassis	After 120 days
RBA Aerial	After 120 days
Rosenbauer Body	After 180 days

**Note: Any late change orders that are factory driven will be done at cost and no additional mark up or penalties will apply.*

BUYER INITIALS: _____





JOB NUMBER	DRAWING NUMBER	REV
-	P8544	01

QUOTATION

General Safety Fire Apparatus

Marshall MM Cobra Body Spec

Exp. Date: 10/27/2022
Quote No: 10008-0015
09/07/2022

Page 1

PART NO	S	QTY	DESCRIPTION
		1	== EXT Aerial Bid Prep Forms - 601.022 06/01/22 ==
00-00-1100	S >	1	Information Request Form (Factory Required)
00-00-1300	<	1	Fire Department Name Marshall MN Fire Department
00-00-1500	< >	1	MAXIMUM OVERALL HEIGHT Max overall Height 11'10"
00-00-1510	>	1	MAXIMUM OVERALL LENGTH
00-00-1520	< >	1	MAXIMUM OVERALL WIDTH DOT Maximum
00-00-1530	< >	1	MAXIMUM WHEELBASE Wheelbase to match drawing
00-00-1539		1	Angle of Approach, NFPA Minimum, 8 Degrees
00-00-1549		1	Angle of Departure, NFPA Minimum, 8 Degrees
		1	NFPA Equipment Allowances
00-00-1620		1	NFPA Aerial/Quint Equipment Allowance 2500#
00-12-1100		1	Financial Stability Response
01-06-0560	>	1	Electronic Stability Control
02-03-0100		1	Quality Control (ISO Compliance)
		1	== EXT Aerial Warranties-BR - 601.022 06/01/22 ==
01-16-0150	>	1	-- Warranty, Apparatus, Body Warranty, 1 Year
01-19-0460		1	-- Warranty, Body, Alum, Life-Time, Transferable
01-19-2450		1	-- Warranty, Subframe, Lifetime Alum, Transferable
01-20-1012	<	1	-- Warranty, Paint, AkzoNobel, 10 Year EXT Non Pro Rated!
01-21-0150		1	-- Warranty, Lettering and Striping, 1 Year
01-17-0750		1	-- Pump Warranty, Waterous, 7 Years
02-14-6250		1	Plmbg Warranty, Stnls Stl, 10 Years
01-33-5400		1	-- Manuals, Electrical , As Built Body, Digital Copy
56-01-1700	>	1	-- Siren, Elect, Whelen 295HFS2
56-02-1600		1	-- Spkr, F-S Dynamax, ES100C 100 Watt
56-02-1650		1	-- Spkr Grille, Stnls Stl, "R"
56-03-1300		1	-- Spkr Lctn, Bumper, Rcscd, Right Side
57-02-1250	S < >	1	-- Lt Bar, Whelen, Ultra Freedom IV, #F4N7QLED, LED, 72" Fully populated lightbar with built in center emitter. Colors and layout TBD
57-08-1100	>	1	-- Trffc Emtr, GTT Opticom, Lt Bar Mntd, 795H Low-Pro LED High-Priority, Prk Brake
57-10-0600		1	-- Lightbar Cntrl, with Master Warning Switch
58-71-1820		1	-- Wrn Lts, Whelen, Upper Rr (2) S-LED Rotary L31 P/N L31*F
57-20-8106		1	-- Wrn Lt, Drvr, Whelen, L31 LED Rotator Red CLear Lens, Ea

PART NO	S	QTY	DESCRIPTION
57-20-8107		1	-- Wrn Lt, Offcr, Whelen, L31 LED Rotator Red Clear Lens, Ea
58-74-5200		1	-- Mtg, Rr Wrn Lt, Bdy Compt
58-46-2100		1	-- Wrn Lts, Whelen, Upper Side Front (2) M9 LED
57-20-1410		1	-- Wrn Lt, Drvr, Whelen, M9, Red LED, Clear Lens, Ea
57-20-1411		1	-- Wrn Lt, Offcr, Whelen, M9, Red LED, Clear Lens, Ea
58-01-2180		2	-- Flange, Chrome, Wrn Lt, Whln, M9 Ea
58-61-2100		1	-- Wrn Lts, Whelen, Upper Side Rr (2) M9 LED
57-20-1410		1	-- Wrn Lt, Drvr, Whelen, M9, Red LED, Clear Lens, Ea
57-20-1411		1	-- Wrn Lt, Offcr, Whelen, M9, Red LED, Clear Lens, Ea
58-01-2180		2	-- Flange, Chrome, Wrn Lt, Whln, M9 Ea
58-03-6300		1	-- Wrn Lts, Whelen, Uppr Wing, (2) M6 LED
57-20-1210		1	-- Wrn Lt, Drvr, Whelen, M6, Red LED, Clear Lens, Ea
57-20-1211		1	-- Wrn Lt, Offcr, Whelen, M6, Red LED, Clear Lens, Ea
58-01-2140		2	-- Flange, Chrome, Wrn Lt, Whln, M6, Ea
58-03-7300		1	-- Wrn Lts, Whelen, Inbrd Warn Lt, (2) M6 LED
57-20-1210		1	-- Wrn Lt, Drvr, Whelen, M6, Red LED, Clear Lens, Ea
57-20-1211		1	-- Wrn Lt, Offcr, Whelen, M6, Red LED, Clear Lens, Ea
58-01-2140		2	-- Flange, Chrome, Wrn Lt, Whln, M6, Ea
58-09-2000		1	-- Wrn Lts, Whelen, Intrsct (2) M6 LED
57-20-1218		1	-- Wrn Lt, Drvr, Whelen, M6, Split Red/Clear LED, Clear Lens, Ea
57-20-1219		1	-- Wrn Lt, Offcr, Whelen, M6, Split Red/Clear LED, Clear Lens, Ea
58-01-2140		2	-- Flange, Chrome, Wrn Lt, Whln, M6, Ea
58-23-1100	>	1	-- Wrn Lts, Whelen, Lwr Rear Chassis (2) M6 LED
57-20-1210		1	-- Wrn Lt, Drvr, Whelen, M6, Red LED, Clear Lens, Ea
57-20-1211		1	-- Wrn Lt, Offcr, Whelen, M6, Red LED, Clear Lens, Ea
58-01-2140		2	-- Flange, Chrome, Wrn Lt, Whln, M6, Ea
58-26-2000		1	-- Wrn Lts, Whelen, Low Mid Bdy (2) M6 LED
57-20-1210		1	-- Wrn Lt, Drvr, Whelen, M6, Red LED, Clear Lens, Ea
57-20-1211		1	-- Wrn Lt, Offcr, Whelen, M6, Red LED, Clear Lens, Ea
58-01-2140		2	-- Flange, Chrome, Wrn Lt, Whln, M6, Ea
58-36-2000		1	-- Wrn Lts, Whelen, Low Rr Side (2) M6 LED
57-20-1210		1	-- Wrn Lt, Drvr, Whelen, M6, Red LED, Clear Lens, Ea
57-20-1211		1	-- Wrn Lt, Offcr, Whelen, M6, Red LED, Clear Lens, Ea
58-01-2140		2	-- Flange, Chrome, Wrn Lt, Whln, M6, Ea
58-81-2000		1	-- Wrn Lts, Whelen, Low Rr (2) M6 LED
57-20-1210		1	-- Wrn Lt, Drvr, Whelen, M6, Red LED, Clear Lens, Ea
57-20-1211		1	-- Wrn Lt, Offcr, Whelen, M6, Red LED, Clear Lens, Ea
50-08-1000	>	1	Elecal, Base, Multi-Plex, Weldon V-MUX Body
55-11-1100	>	1	-- Dr Open/Hazard Wrn Lt, w/Chassis
55-13-1065	>	1	-- V-MUX Dr Open, Isolation, Body Main Cmpt Doors, On Vista Screen w/Accessories
50-12-1092	>	1	Swth Panel, Multiplex, Chassis Supplied
50-15-1100		1	Batteries, With Supl'd Chs
50-15-3100		1	Battery Swth, Mstr Disconnect , Chs Sppld
50-41-7100	>	1	Air Horns (2) 24" Round Hadley E-Tone
50-41-8140		1	Air Horn Location (2) Recess Mounted, Outboard, 1 Ea Side
50-43-1000		1	Air Horn Cntrls
50-43-2000		1	-- Air Horn Cntrl, Driver, Horn Ring, Air/Elec
50-43-2300		1	-- Air Horn Cntrl, Officer, Sgle Dash Swth
51-00-1800	<	2	-- 12V Power/Ground, 30A, Rr Cab Cabinet One in each rear cab corner cabinet. Location TBD

PART NO	S	QTY	DESCRIPTION
51-00-4010		2	-- Constant Power
51-00-2410	<	2	-- 12V Dual USB Power Outlet, 5V 2.1A Output, Rr Crew Cab Cabinet One in each rear cab corner cabinet. Location TBD
51-00-4010		2	-- Constant Power
51-05-6290		1	Lt, Engine Cmpt, Chassis Supl'd
51-05-6400		2	Lt, Pump Cmpt, 12 Volt LED With Swtch
51-05-9000		2	-- Switch on Light Head
51-20-3100	>	1	-- Fldlt, Mntg Lctn, Front Edge Of Cab Roof
51-15-3132		1	-- Fldlt, Whelen, Pioneer Plus PFH2, Dual Lt, Cab Brow Center Mt, Commander, White
54-15-6040		1	-- Scene Lt Actvtd, Front Scene, Driver & Offiicer VISTA
52-01-1100		1	Back Up Alarm, w/Chassis
52-02-4258		1	Back Up Camera, FRC InView 360, INSTALL CHASSIS SUPPLIED
52-15-1700	>	1	Radio, Fire, Install Cstmer Supl'd
51-00-1700		1	-- 12V Power/Ground, 30A, Radio Lctn
51-00-4000		1	-- Switched Power, Thru Master
52-15-1600		1	-- Radio Spkr, Fire, Supply/Install, Ea
53-01-1200		1	Marker Lts, LED, DOT Requirements
53-01-3000		1	Marker Lts, Flex Arm, Britax, Pair
53-02-1250		1	License Plate Brkt, Cast Prdts, LP0005-1-C w/ LED Lt
53-03-0065		1	Whelen Rr DOT LED Ltng Pkg M6
53-03-2752		1	-- Tail/Brake Lts, Whelen, LED, M62BTTC, Clear Lens (Pair)
53-04-2752		1	-- Turn Signals, Whelen, LED w/ Arrow, M62TC Clear Lens (Pair)
53-06-3550		1	-- Backup Lts, Whelen, LED, M62BU (Pair)
53-07-1210		1	-- Tail Lt Bezel, 4 Lts, Whln M6 (Pair), ABS Chrome
53-05-1800		1	Turn Signals, Mid Bdy, LED Marker Lt (Pair)
54-01-1220		1	-- Ground Lts, Frt Bumper, LED, Whelen 3SC0CDCR, Pair
54-02-1100		1	-- Ground Lts, Cab, Supl'd w/Custom Chassis
54-03-1220		1	-- Ground Lts, Pump Panel, LED, Pr Whelen 3SC0CDCR
54-03-1420		1	-- Ground Lts, Mid Body, LED, Whelen 3SC0CDCR, Pair
54-03-1620		1	-- Ground Lts, Rr Step, LED, Whelen 3SC0CDCR, Pair
54-03-1820		1	-- Ground Lts, Bhnd Rr Wheels, LED, Whelen 3SC0CDCR, Pair
54-04-1999		1	-- Lt Swtch , Ground Lts w/ Park Brake
54-10-1550		2	Step Lt, Bdy Side Rrng Board, LED, Ea
54-11-2100		1	Lt Swtch , Step/Wlkwy Lts Wired Park Brake Swtch
54-15-1620	>	6	Scene Lt, Whelen, Pioneer Plus Dual Pnl PCPSM2C LED Srfc Mt, Chrome
54-15-5100		1	-- Scene Lt Lctn, Left Side Of Cab
54-15-5200		1	-- Scene Lt Lctn, Right Side Of Cab
54-15-5500		2	-- Scene Lt Lctn, Left Side Of Bdy
54-15-5600		2	-- Scene Lt Lctn, Right Side Of Bdy
54-15-6494		1	-- 3-Way Cntrl Swtch, Left Scene Lts, Driver & Officer VISTA/Pmp Pnl
54-15-6594		1	-- 3-Way Cntrl Swtch, Right Scene Lts, Driver & Officer VISTA/Pmp Pnl
54-15-1610	>	2	-- Scene Lt, Whelen, Pioneer Plus Sngl Pnl PCPSM1C LED Srfc Mt, Chrome
54-15-6694		1	-- 3-Way Cntrl Swtch, Rr Scene Lts, Driver & Officer VISTA/Pmp Pnl
54-15-6700		1	-- Scene Lt Swtch , Rr Scene Lts, Auto w/ Reverse
58-91-1720		1	Traffic Arrow Lt, Whelen, 46.82" TIR6 Super-LED, TAM85
58-95-1500		1	Traffic Arrow Lt Mtg, Surface Mt, w/ Alum Guard, Rr Bdy
		1	== EXT Aerial Chassis Mods - ROSENBAUER - 601.022 06/01/22 ==

PART NO	S	QTY	DESCRIPTION
10-01-1200	>	1	Vehicle Dimensions, Tndm Axle
10-02-1100		1	Label, Data, Fluid Levels
10-02-1200		1	Label, Data, Height x Length, Weight
10-02-1300		1	Label, Data, "No Ride" Rr Step
10-02-1400		1	Label, Data, Tire Pressure
10-02-2100		1	Label, Indicating Number of Seats
10-02-2500		1	Label, "Caution: Do Not Wear Helmet While Seated"
10-03-3102		1	Tow Devices, Supplied & Shipped Loose w/ Chassis, Install (Pair)
10-03-6120		1	Tow Plates (2), Rr Frame Rail, Abv Step, 3/4"x3"ID
80-43-2400		1	-- Painting, Tow Plates, Blk
10-04-0430		1	-- Front Bumpers, 4000, Max Force 12"H, Max Force Wings
10-05-4318		1	-- Frnt Bmpr, 4000, Max Force 12"H, T/P Apron, M/F Wings, 18" Extnsn
10-04-2720	>	1	-- Bumper Cmpt, Center, Hosewell Cmpt
10-04-3150	<	1	-- Bumper Cmpt Door, Alum T/P, Flat Style For 150' of fire department supplied 1.75" hose and nozzle
08-00-0719		1	-- Cmpt LED Strip Lt, (1) Ea Cmpt (approx 30")
08-00-071A		1	-- Compartment Light, Mounting Door Jamb
10-04-3460		1	-- Bumper Cmpt Door Gas Shock
10-06-1652	>	1	Tire Pressure Indicator, Tndm Axle, Commander, RWTG1235, EXT
10-08-2100		1	Mud Flaps, Rr Whls, Blk, w/ Bdy
10-18-6000	< >	1	Cab Tilt Control, Cstm, Left Front Cmpt or Pump Panel To be enclosed in front left compartment
		1	== EXT Midship Aerial Pump&Plumbing - 601.022 06/01/22 ==
20-23-4200		1	-- Pump, Waterous, S100C20, 1 Stage, Midship
20-23-4120	S < >	1	-- Pump Flow Rtng, Waterous, S100C20, 2000 GPM 2000 GPM
22-03-1600		1	-- Intk, Ungated, 6", LH Side
22-24-1662	>	1	-- Intk, Gtd, Mnl, JBIV-LP, 6"NSTFx5"Storz F, LH TFT AXD1ST-NX-T, Extrnl
22-41-7200		1	-- Cap, 5" Storz, LW Alum, Lckng, w/Chain or Cable
22-03-2600		1	-- Intk, Ungated, 6", RH Side
22-24-3664	>	1	-- Intk, Gtd, Elec, JBIV-LP, 6"NSTFx5"Storz F, RH TFT AXD1ST-NX-RC, Extrnl
22-41-7200		1	-- Cap, 5" Storz, LW Alum, Lckng, w/Chain or Cable
20-26-2200		1	-- Pump Seal, Mech, Waterous
20-26-2400	>	1	-- Pump Impeller, Waterous, Flame Plated Hubs
20-26-2600		1	-- Pump Anode, Waterous, Removable
20-26-3050		1	-- Pump Manufacturer's Pneumatic Pump Shift
20-26-4400		1	-- Pump Primer, Waterous, VPO, Oil Less, Elec, Push Button
27-10-3500	>	1	-- Pressure Gvrnr, FRC, In-Cntrl, w/Bdy, TGA400
		1	STAINLESS STEEL PUMP PLUMBING *
21-00-0090		1	-- Pump Panel Approval Drawing
21-00-2000		1	-- Screens/Anodes, Pump
21-00-3300		1	-- Piping, Stnls Stl - 1250 GPM & Up
21-01-0200	>	1	-- Pump Drain, Master, Manifold, Push Pull Type
21-01-5500		1	-- Intk Manifold, Stnls Stl
21-01-6500		1	-- Dschg Manifold, Stnls Stl
21-01-7100		1	-- Painting, Pump & Piping, Silver
21-01-8100		1	-- Threads, National Hose (NST)
22-51-5220	>	1	-- Tank-To-Pump, Water Tank, 3" Vlv/4" Piping, Midship, Aerial
22-50-0100		1	-- Single Tank to Pump Control - Pump Operator's Panel

PART NO	S	QTY	DESCRIPTION
24-62-1300		1	-- Vlv Mfger, AKR, 8000, (3")
24-55-0040	>	1	-- Pistol Grip Lever Control Innovative Controls
23-02-1200	>	1	-- Tank Fill/Cooling Line, Water Tank, 1-1/2"
24-62-1150		1	-- Vlv Mfger, AKR, 8000, (1-1/2")
24-55-0020	>	1	-- Pistol Grip Lever Control Innovative Controls (Standard for Top Controls)
20-30-3100		1	-- Pump Instln, Midship Split-Shaft, By Bdy Bldr
20-31-1010		1	Fire Pump Testing - Aerials
20-31-1250		1	-- Pump Test, Aerial, UL
20-31-1500		1	-- Pump Test, Label
20-31-3200		1	Dump-Relief Vlv, Suction Side, ELK #40, NST
20-31-4110		1	Pump Cooler, Bypass-To-Tank, 3/8", IC Mini-Twist Handle
20-31-5110		1	Heat Exchanger, Engine, Hook-Up Only, IC Mini-Twist Handle
22-12-1100		1	Intk, Aux, Gtd, 2-1/2", NST, Left Side
21-01-2502		1	-- Drain/Bleeder, IC Lift-Up, Mnl 1/4 Turn - Spec Only
22-41-1100		1	-- Plug, 2-1/2", Chrome Rocker Lug, w/Chain
24-62-1250		1	-- Vlv Mfger, AKR, 8000, (2-1/2")
22-55-4050		1	-- Intk Vlv Cntrl, AKR, Mnl Swing Type-Adjacent
23-05-3200		1	-- Dschg, 2" x 1-1/2" Front Center Bumper, Swivel, NST Brass Swivel
21-01-2200		1	-- Drain/Bleeder, Class 1, Automatic
23-05-9100		1	-- Hose Connection, Frnt Bmpr, Inside Hosewell, Swivel
24-61-1200		1	-- Vlv Mfger, AKR, 8000, (2")
24-55-0020	>	1	-- Pistol Grip Lever Control Innovative Controls (Standard for Top Controls)
27-02-1500	>	1	-- Gauge, Dschg, IC, 2-1/2" (0-400 PSI), WF
23-06-2200	S <	1	-- Crosslay Dschgs, (2) 1-1/2", Over Pump Panel, NST 250 ft x1-3/4-in ea w/divider Capacity to hold 250' of 1 3/4" fire department supplied each
21-01-2502	<	2	-- Drain/Bleeder, IC Lift-Up, Mnl 1/4 Turn - Spec Only lift up style
24-61-1200		2	-- Vlv Mfger, AKR, 8000, (2")
24-55-0020	>	2	-- Pistol Grip Lever Control Innovative Controls (Standard for Top Controls)
27-02-1500	>	2	-- Gauge, Dschg, IC, 2-1/2" (0-400 PSI), WF
23-07-2100	S <	1	-- Crosslay Dschg, (1) 2-1/2", Over Pump Panel, NST 200 ft of 2-1/2-in each 200' of 2 1/2" capacity fire department supplied hose
21-01-2502	<	1	-- Drain/Bleeder, IC Lift-Up, Mnl 1/4 Turn - Spec Only lift up style
24-61-1250		1	-- Vlv Mfger, AKR, 8000, (2-1/2")
24-55-0020	>	1	-- Pistol Grip Lever Control Innovative Controls (Standard for Top Controls)
27-02-1500	>	1	-- Gauge, Dschg, IC, 2-1/2" (0-400 PSI), WF
23-08-3400		1	-- Crosslay Cvr, Alum T/P, Dble Bi-Fold, W/Vinyl End Flaps
29-20-5602		1	-- Vinyl Color, BLACK
23-08-4130		1	-- Crosslay Trim, Alum Angles, Both Sides
23-08-5019		1	-- Crosslay Dschgs, Over Pump Panel, Normal Height
23-09-4100		2	Dschg, 2-1/2", Left Side, Pump Panel, NST
21-01-2502		2	-- Drain/Bleeder, IC Lift-Up, Mnl 1/4 Turn - Spec Only
24-02-1200		2	-- Elbow, 2-1/2"F x 2-1/2" NST M, Chrome
24-03-1400		2	-- Cap, 2-1/2", NST Chrome, Rocker Lug, w/Chain
24-61-1250		2	-- Vlv Mfger, AKR, 8000, (2-1/2")
24-55-0020	>	2	-- Pistol Grip Lever Control Innovative Controls (Standard for Top Controls)

PART NO	S	QTY	DESCRIPTION
27-02-1500	>	2	-- Gauge, Dschg, IC, 2-1/2" (0-400 PSI), WF
23-10-4100		2	Dschg, 2-1/2", Right Side, Pump Panel, NST
21-01-2502		2	-- Drain/Bleeder, IC Lift-Up, Mnl 1/4 Turn - Spec Only
24-02-1200		2	-- Elbow, 2-1/2"F x 2-1/2" NST M, Chrome
24-03-1400		2	-- Cap, 2-1/2", NST Chrome, Rocker Lug, w/Chain
24-61-1250		2	-- Vlv Mfger, AKR, 8000, (2-1/2")
24-55-0020	>	2	-- Pistol Grip Lever Control Innovative Controls (Standard for Top Controls)
27-02-1500	>	2	-- Gauge, Dschg, IC, 2-1/2" (0-400 PSI), WF
23-10-5200		1	Dschg, 3" x 4"NST, Right Side, Pump Panel, NST
21-01-2502		1	-- Drain/Bleeder, IC Lift-Up, Mnl 1/4 Turn - Spec Only
24-02-2600		1	-- Elbow, LW Alum, 5" Storz x 4"F
24-03-2200		1	-- Cap, LW Alum, 5" Storz, w/Cable
24-61-1300		1	-- Vlv Mfger, AKR, 8000, (3")
24-53-0300	>	1	-- Dschg Vlv Cntrl, Pull Rod, 1/4 Turn, SM, AKR Slow Close - IC w/Gauge
27-02-1500	>	1	-- Gauge, Dschg, IC, 2-1/2" (0-400 PSI), WF
24-10-1500	>	1	Aerial Dschg/Inlet, 4", Right Side Pump Panel, NST
21-01-2500		1	-- Drain/Bleeder, IC Lift-Up, Mnl 1/4 Turn
24-01-4600		1	-- Adptr, LW Alum, 5" Storz x 4"F
24-03-2200		1	-- Cap, LW Alum, 5" Storz, w/Cable
24-61-1420		1	-- Vlv Mfger, AKR, 8000, (4"), Electric
24-53-5300		1	-- Dschrg Vlv Cntrl, AKR, 4" Elec, #9335, Pres Mtr-FM
25-06-3100	>	1	-- Foam Sys, F/PRO 2001, Cls A/B, 2.6G, 12V S105-2001
25-20-1200		1	-- Foam Plmbg, Sngl Class A Tank, 1" Mnl Vlv
25-21-1300		1	-- Foam Tank, Intgrl Poly, 20 Gal, Class A
25-22-9300		1	-- Foam Tank, UPF
25-23-1000		1	-- Foam Tank Drain, 1" Gate Vlv, Under Tank
27-36-1100		1	-- Foam Tank Gauge, FRC TankVision Pro 300, Class A, Pump Panel
			#WLA360-A00
25-19-9000		1	-- Foam System, NFPA #1901, Install Standards
		1	== EXT Aerial - Mid-Mount Pump Cmpt - 601.022 06/01/22 ==
26-02-1700		1	Pump Enc, Side Mt, Extrd Alum, Aerial Mid Mt, Turntable Egress Steps Each Side
26-30-1110		1	Rng Brd, LH Pump Panel, Alum T/P, SM Aerial
26-30-3010		1	-- Step, Slide-Out, Alum Grating, LH Pump Panel, Pin & Slot, EXT
26-30-1150		1	Rng Brd, RH Pump Panel, Alum T/P, SM
26-35-3210		1	Pump Panel, Stnls Stl, LH/RH, SM, EXT
26-35-1100		1	-- Pump Panel, Bltd, LH
26-35-1200		1	-- Pump Panel, Bltd, RH
26-50-1200	>	1	Heater, Pump Enc, 30,000BTU, w/Swtch on Pmp Oprtr's Pnl
26-50-3200		1	Heat Pan, Pump Enc, Midship, Slide Out Panel, Alum
26-50-4100		1	Gasket, Rubber, Pump Enc/Bdy Flex Joint
26-55-1100		1	Labels, Test Data and Safety Placards
26-55-2410		1	Labels, IC Color Coded, EXT
26-56-1130		1	Pump Panel Lt, Midship LH, (3) Grote #01-61F8-70 Low Profile, LED
26-56-1230		1	Pump Panel Lt, Midship RH, (3) Grote #01-61F8-70 Low Profile, LED
26-56-2110		1	Pump Engage Lt (1), Grn Lt Pump Panel, Actuated w/Pmp Engrmnt
27-01-1500	>	1	-- Mstr Gauges, IC, 4" PSI, Pr
27-01-4100	>	1	Gauge, Test Taps
27-35-1100		1	Water Tank Gauge, FRC, TankVision Pro 300, Pump Panel WLA300-A00
27-35-1500	<	1	-- Water Tank Gauge, FRC, Max Vision Remote Tank Display, Pair
			One each side of cab towards rear upper

PART NO	S	QTY	DESCRIPTION
27-37-1100		1	Air Horn, Push Button, Pump Panel
33-70-4401		1	Handrail, Alum, Lighted, White LED, Pmpr, Side Pump Panel, Horz, 12", Pair
		1	== EXT TA MM Aerial/Platform w/ CntrBed - 601.022 06/01/22 ==
25-28-2120	S < >	1	Water Tank, 480 Gal, Aerial, Poly, Rect 480 water and 20 foam.
25-42-1100	>	1	-- Water Tank, Base Specs, Poly
25-42-1200		1	-- Water Tank, Manufacturer, UPF, Poly
25-44-1700		1	-- Water Tank, Fill Tower, 10" x 10", EXT
25-50-1400		1	-- Water Tank Clean-out & Plug, 3"
		1	AERIAL/PLATFORM - MID MT TANDEM AXLE - EXT
00-01-5100		1	-- Chassis Requirements, Ladder
00-01-5200		1	-- Body Requirements, Ladder, Four (4) Outriggers
00-01-5192		1	-- Outrigger Pad Storage, Single, Four (4) Total
00-01-5204	< >	1	-- Harness, Safety, Pac Mule, Four (4), Provided By Body Bldr Available sizes are: M, L, XL, & XXL.
			If sizes are not specified, the following will be provided:
			(1) - L
			(2) - XL
			(1) - XXL
00-01-5212		1	-- Size, Safety Harness, Large, 34"-40" Waist
00-01-5214		2	-- Size, Safety Harness, X-Large, 42"-50" Waist
00-01-5216		1	-- Size, Safety Harness, XX-Large, 52"&Up Waist
30-00-0399		1	-- Raw Material Surcharge - Tandem Axle
30-01-2050		1	-- Bdy Const - Rosenbauer EXT - Aerial
30-01-2250		1	-- Electrolysis Corrosion Cntrl
30-02-1960		1	-- Side Body Header, Alum, Pntd, Tndm Axle, EXT
44-06-1200		1	-- Whl Well Panel, Alum, Pntd, Tndm Axle
44-06-4320		2	-- Fenderette, Polished Stainless Steel, EXT
40-40-5200		1	-- Bdy Sub-Structure, EXT, Tndm Axle
44-06-5240		1	-- Outrigger Bdy Panels w/ Secondary Covers, Alum, Pntd
30-01-3120	>	1	-- Cover, Outrigger, Plshd SS
	>	1	AERIAL / PLATFORM HOSEBEDS - CENTER - EXT
41-39-1550	S <	1	-- Hosebed, Aerial, Rr, Center, EXT Slidemaster Pull Out Bed Torque Box --A Heavy duty Slidemaster roll-out tray designed with a hose storage for 540' of 5" LDH shall be supplied and installed in the torque box. The tray shall be mounted on a roll-out tray allowing for easy repacking of the LDH hose. One side of the hose storage tray cartridge shall be hinged to drop down for easier repacking of hose. --Similar to St Paul MN and Edina MN The passenger side of the torque box will be provided with a loose pull out aluminum cartridge with the capacity for a minimum of 150' of 3" fire department supply hose
41-39-2150		1	-- Hosebed, Grating, Extrd Alum, Aerial, EXT
41-39-3200		1	-- Hosebed, Strge Cpcty 3" DJ
41-39-4100	<	3	-- Hose Length, 50' Capacity for 150" of 3" supply hose
41-39-3500		1	-- Hosebed, Strge Cpcty 5" LDH SJ Rbbr
41-39-4200	<	5	-- Hose Length, 100' Capacity for up to 540'
40-42-6070	<	1	100" OAW, 24"/20", Full Dpth Both Sides, TA MM Arl/Pltfrm See drawing for actual useable compartment depths and sizes

PART NO	S	QTY	DESCRIPTION
40-42-6134		1	Pntd RU Drs, Otsd Cmpt, TA MM Arl/Pltfrm, Rear Center Hsbd
30-02-1800		1	-- Drs, Hngd/Roll-Up Combination Specs, EXT
30-02-1260	>	6	-- Dr Strap, EZ-Pull Down, Ea
30-02-1520	>	4	-- Dr Handle, Eberhard 21100 Series, Chrome, Hngd Drs (Ea)
		1	LEFT SIDE COMPARTMENTATION
40-61-0010	< >	1	-- Bhnd Frnt Outrigger, Full Ht Cmpt, Sngl Hngd Dr, 20" 20" Wide Compartment
40-60-7040		1	-- 39" Cmpt Height, 39" Dr Opening, Hinge Dr
44-40-1020		2	-- Vents, Compts, Louvers (Ea)
45-02-4100		2	-- Shelf, Adjust, Alum 3/16", EXT
45-30-1125		2	-- Turtle Tile, Shelves/Trays, 1/4 Depth, (each)
45-30-1700		1	-- Turtle Tile, Floor
55-01-3360		1	-- Cmpt Lt, Wall, OSS Access, 18" LED Tube Lt, (2) Ea Cmpt
55-06-1400		1	-- Cmpt Lt, Dr Swtch, Magnetic, Ea
40-61-2100	< >	1	-- Bhnd Frnt Outrigger, Turntable Access, Alum T/P, 20" 20" wide
40-96-1600	>	1	-- Access Ladder, Aerial, LH, Swing Out & Down, 17"W
54-10-1300		2	-- Step Lt, Fxd /Fldg Step, LED, Ea
40-64-6540	< >	1	-- Abv Frnt Tndm, Uppr Cmpt, Pntd RU Otsd Cmpt, 68" 68" Wide Compartment
40-60-7115	S >	1	-- 25" Cmpt Height, 25" Dr Opening, Roll Up Dr
44-40-1020		2	-- Vents, Compts, Louvers (Ea)
45-18-1800		1	-- Tool Board, Swing Out, 250#, Alum Peg Board, EXT
55-01-3360		1	-- Cmpt Lt, Wall, OSS Access, 18" LED Tube Lt, (2) Ea Cmpt
55-06-1400		1	-- Cmpt Lt, Dr Swtch, Magnetic, Ea
40-65-6540	< >	1	-- Abv Rr Tndm, Uppr Cmpt, Pntd RU Otsd Cmpt, 68" 68" Wide Compartment
40-60-7115	S >	1	-- 25" Cmpt Height, 25" Dr Opening, Roll Up Dr
44-40-1020		2	-- Vents, Compts, Louvers (Ea)
45-02-4100		1	-- Shelf, Adjust, Alum 3/16", EXT
45-30-1125		1	-- Turtle Tile, Shelves/Trays, 1/4 Depth, (each)
45-10-2200	>	1	-- SlideMaster Tip-Down Tray, 250# (< 1/4 Depth), Up to 41"W (SMT)
45-30-1125		1	-- Turtle Tile, Shelves/Trays, 1/4 Depth, (each)
45-15-1200		1	-- Divider, Vert, Bolt-In, 3/16" Alum
45-30-1900		1	-- Turtle Tile, Floor, Cmpt, Uppr Hgh Sde (up to 1/4 depth)
55-01-3360		1	-- Cmpt Lt, Wall, OSS Access, 18" LED Tube Lt, (2) Ea Cmpt
55-06-1400		1	-- Cmpt Lt, Dr Swtch, Magnetic, Ea
40-68-3662	< >	1	-- Bhnd Rr Outrigger, Full Ht Cmpt, Pntd RU Otsd Cmpt, 37" 37" Wide Compartment
40-60-7146	S	1	-- 54" Cmpt Height, 54" Dr Opening, Roll Up Dr
44-40-1020		2	-- Vents, Compts, Louvers (Ea)
45-02-4100		1	-- Shelf, Adjust, Alum 3/16", EXT
45-30-1125		1	-- Turtle Tile, Shelves/Trays, 1/4 Depth, (each)
45-06-2100	>	1	-- Slide Tray, 500#, Alum 3/16" (1/4 Dpth), EXT
45-30-1125		1	-- Turtle Tile, Shelves/Trays, 1/4 Depth, (each)
55-01-3380		1	-- Cmpt Lt, Wall, OSS Access, 36" LED Tube Lt, (2) Ea Cmpt
55-06-1400		1	-- Cmpt Lt, Dr Swtch, Magnetic, Ea
40-69-2600	< >	1	-- Bhnd Rr Outrigger, Platform Access Cavity, Alum T/P, 21" 21" Wide Compartment
40-96-1600	>	1	-- Access Ladder, Aerial, LH, Swing Out & Down, 17"W
54-10-1300		2	-- Step Lt, Fxd /Fldg Step, LED, Ea
40-69-3662	S < >	1	-- Rr of Bdy, Full Ht Cmpt, Hinged Dbl. Dr. 36" 36" Wide Compartment W / Hinged Double Door

PART NO	S	QTY	DESCRIPTION
40-60-7136		1	-- 36" Cmpt Height, 36" Dr Opening, Roll Up Dr
44-40-1020		2	-- Vents, Compts, Louvers (Ea)
45-02-4100		1	-- Shelf, Adjust, Alum 3/16", EXT
45-30-1125		1	-- Turtle Tile, Shelves/Trays, 1/4 Depth, (each)
45-30-1900		1	-- Turtle Tile, Floor, Cmpt, Uppr Hgh Sde (up to 1/4 depth)
55-01-3380		1	-- Cmpt Lt, Wall, OSS Access, 36" LED Tube Lt, (2) Ea Cmpt
55-06-1400		1	-- Cmpt Lt, Dr Swtch, Magnetic, Ea
		1	RIGHT SIDE COMPARTMENTATION
40-71-0010	< >	1	-- Bhnd Frnt Outrigger, Full Ht Cmpt, Sngl Hngd Dr, 20" 20" Wide Compartment
40-60-7040		1	-- 39" Cmpt Height, 39" Dr Opening, Hinge Dr
44-40-1020		2	-- Vents, Compts, Louvers (Ea)
45-02-4100		2	-- Shelf, Adjust, Alum 3/16", EXT
45-30-1125		2	-- Turtle Tile, Shelves/Trays, 1/4 Depth, (each)
45-30-1700		1	-- Turtle Tile, Floor
55-01-3380		1	-- Cmpt Lt, Wall, OSS Access, 36" LED Tube Lt, (2) Ea Cmpt
55-06-1400		1	-- Cmpt Lt, Dr Swtch, Magnetic, Ea
40-71-2100	< >	1	-- Bhnd Frnt Outrigger, Turntable Access, Alum T/P, 20" 20" Wide
40-96-2600	>	1	-- Access Ladder, Aerial, RH, Swing Out & Down, 17"W
54-10-1300		2	-- Step Lt, Fxd /Fldg Step, LED, Ea
40-74-6540	< >	1	-- Abv Frnt Tndm, Uppr Cmpt, Pntd RU Otsd Cmpt, 68" 68" Wide Compartment
40-60-7115	S >	1	-- 25" Cmpt Height, 25" Dr Opening, Roll Up Dr
44-40-1020		2	-- Vents, Compts, Louvers (Ea)
45-10-2300	>	2	-- SlideMaster Tip-Down Tray, 250# (1/4 Depth), Up to 41"W (SMT)
45-30-1125		2	-- Turtle Tile, Shelves/Trays, 1/4 Depth, (each)
45-15-1200		1	-- Divider, Vert, Bolt-In, 3/16" Alum
45-30-1900		1	-- Turtle Tile, Floor, Cmpt, Uppr Hgh Sde (up to 1/4 depth)
55-01-3360		1	-- Cmpt Lt, Wall, OSS Access, 18" LED Tube Lt, (2) Ea Cmpt
55-06-1400		1	-- Cmpt Lt, Dr Swtch, Magnetic, Ea
40-75-6540	< >	1	-- Abv Rr Tndm, Uppr Cmpt, Pntd RU Otsd Cmpt, 68" 68" Wide Compartment
40-60-7115	S >	1	-- 25" Cmpt Height, 25" Dr Opening, Roll Up Dr
44-40-1020		2	-- Vents, Compts, Louvers (Ea)
45-02-4100		1	-- Shelf, Adjust, Alum 3/16", EXT
45-30-1125		1	-- Turtle Tile, Shelves/Trays, 1/4 Depth, (each)
45-10-2300	>	1	-- SlideMaster Tip-Down Tray, 250# (1/4 Depth), Up to 41"W (SMT)
45-15-1200		1	-- Divider, Vert, Bolt-In, 3/16" Alum
45-30-1900		1	-- Turtle Tile, Floor, Cmpt, Uppr Hgh Sde (up to 1/4 depth)
55-01-3360		1	-- Cmpt Lt, Wall, OSS Access, 18" LED Tube Lt, (2) Ea Cmpt
55-06-1400		1	-- Cmpt Lt, Dr Swtch, Magnetic, Ea
40-78-3662	S < >	1	-- Bhnd Rr Outrigger, Full Ht Cmpt, Pntd RU Otsd Cmpt, 62" 62" Wide Compartment
40-60-7146	S	1	-- 54" Cmpt Height, 54" Dr Opening, Roll Up Dr
44-40-1020		2	-- Vents, Compts, Louvers (Ea)
45-02-4100		2	-- Shelf, Adjust, Alum 3/16", EXT
45-30-1125		2	-- Turtle Tile, Shelves/Trays, 1/4 Depth, (each)
45-15-1200		1	-- Divider, Vert, Bolt-In, 3/16" Alum
45-16-1100		2	-- Tool Board, Roll Out, 500#, 3/16" Alum (1/4 Depth)
45-30-2000		1	-- Turtle Tile, Floor, Cmpt, Bhnd Rr Whls (1/4 depth)
55-01-3385		1	-- Cmpt Lt, Wall, OSS Access, 48" LED Tube Lt, (2) Ea Cmpt
55-06-1400		1	-- Cmpt Lt, Dr Swtch, Magnetic, Ea
55-06-1100	S	1	--
40-79-3662	S < >	1	-- Rr of Bdy, Full Ht Cmpt, Hinged Dbl Dr, 36" 36" Wide Compartment W / Hinged Double Door

PART NO	S	QTY	DESCRIPTION
40-60-7136		1	-- 36" Cmpt Height, 36" Dr Opening, Roll Up Dr
44-40-1020		2	-- Vents, Compts, Louvers (Ea)
45-02-4100		1	-- Shelf, Adjust, Alum 3/16", EXT
45-30-1125		1	-- Turtle Tile, Shelves/Trays, 1/4 Depth, (each)
45-30-2000		1	-- Turtle Tile, Floor, Cmpt, Bhnd Rr Whls (1/4 depth)
55-01-3380		1	-- Cmpt Lt, Wall, OSS Access, 36" LED Tube Lt, (2) Ea Cmpt
55-06-1400		1	-- Cmpt Lt, Dr Swtch, Magnetic, Ea
40-95-3100		1	Rr Aerial Bdy Configuration, Roll Up Dr, EXT
55-01-3360		1	-- Cmpt Lt, Wall, OSS Access, 18" LED Tube Lt, (2) Ea Cmpt
55-06-1400		1	-- Cmpt Lt, Dr Swtch, Magnetic, Ea
		1	EQUIPMENT - BODY MOUNTED - EXT AERIAL/PLATFORM
90-02-3660		1	-- Ladder Strge, Rr Slide, Torque Box, EXT Aerial/Platform
90-03-0210		1	-- Ladders, Ground, Provd'd By Manufacturer, Arl/Pltfrm, MN
90-03-3300		1	-- Ladder, Roof, Duo-Safety, 14' Alum 775-A
90-03-3400		1	-- Ladder, Roof, Duo-Safety, 16' Alum 875-A
90-06-4600		1	-- Ladder, Ext, Duo-Safety, 24' Alum, 2 Sect 900-A
90-07-4300		1	-- Ladder, Ext, Duo-Safety, 35' Alum, 3 Sect 1225-A
90-03-0230		1	-- Ladders, Fldg Attic, Provd'd By Manufacturer, MN
90-08-2600		1	-- Ladder, Attic, Duo-Safety, 10' Alum, Fold 585-A
90-16-5420		8	-- Pike Pole Mounting Tube, In Ladder Cmpt
90-16-6110		1	-- Pike Poles Provided by Rosenbauer Aerial/Platform
90-23-1300		1	-- Hook, Roof NY, w/ Grips, 6-ft, Fire Hooks Unlmt
90-23-1400		1	-- Hook, Roof NY, w/ Grips, 8-ft, Fire Hooks Unlmt
90-23-1500		2	-- Hook, Roof NY, w/ Grips, 10-ft, Fire Hooks Unlmt
90-25-7120		1	-- Suction Hose Tray, Single, Left Side Over Cmpts (Ea), EXT
90-25-9100		1	-- Suction Hose Provd'd By, Bdy Bldr, MN
90-25-3120	>	1	-- Suction Hose, Flex, Kochek PVC, 6"x10'-MN
90-25-6100		1	-- Suction Hose Cplgs, Alum, LH FM x RLM
		1	REAR STEP - EXT AERIAL/PLATFORM
44-02-2100		1	-- Rub Rails, Rr Bdy, EXT, Extrd Alum
44-11-5150		1	Whl Well Cmpt, Ahd of Whls Left Side, EXT
44-10-1410	>	1	-- Whl Well Cmpt, Sngl SCBA Tube, Pntd S/S Dr
44-10-6000		1	-- Whl Well Cmpt, SCBA Cmpt Straps
44-11-5250		1	Whl Well Cmpt, Btwn Tndms Left Side, EXT
44-10-7010	S < >	2	-- Whl Well Cmpt, SCBA Pack, Pntd Dr For one or two department supplied complete air packs dependant on size of pack assemblies or possible a water can
44-11-5350		1	Whl Well Cmpt, Bhnd Whls Left Side, EXT
44-07-1700		1	-- Fuel Fill Door Assy, BSST, Poly Pckt, LH Whl Wll Pnl, (Fire Shopp)
44-11-5550		1	Whl Well Cmpt, Ahd of Whls Right Side, EXT
44-10-1410	>	1	-- Whl Well Cmpt, Sngl SCBA Tube, Pntd S/S Dr
44-10-6000		1	-- Whl Well Cmpt, SCBA Cmpt Straps
44-11-5650		1	Whl Well Cmpt, Btwn Tndms Right Side, EXT
44-10-2710	S < >	2	-- Whl Well Cmpt, Triple SCBA Tube, Pntd S/S Dr May possibly choose to have this hold a water can instead of 3 individual SCBA or a water can and a spare SCBA if it will fit
44-10-6000		6	-- Whl Well Cmpt, SCBA Cmpt Straps
44-11-5750		1	Whl Well Cmpt, Bhnd Whls Right Side, EXT
44-10-1410	>	1	-- Whl Well Cmpt, Sngl SCBA Tube, Pntd S/S Dr
44-10-6000		1	-- Whl Well Cmpt, SCBA Cmpt Straps
		1	== EXT Aerial/Platform Common Body Part - 601.022 06/01/22 ==
33-66-1120	>	1	-- Steps, Fldg, Frnt, Left Hand (2), Integral LED Lts

PART NO	S	QTY	DESCRIPTION
33-66-2120	>	1	-- Steps, Fldg, Frnt, Right Hand (2), Integral LED Lts
44-01-1400		1	-- Bdy Trim, Frnt Bdy, Ht of Side Cmpts, Alum T/P
44-01-4020		1	-- Bdy Trim, Rr Bdy, Smooth Alum for Chevron Stripe, EXT
33-70-3101	<	1	-- Handrail, Alum, Lighted, White LED, Top of Bdy Sides, Rr, 12", Pair Locations TBD
33-70-3601	<	1	-- Handrail, Alum, Lighted, White LED, Top of Bdy Sides, Frnt, 12", Pair Locations TBD
44-02-1120		1	-- Rub Rails, Lwr Bdy, EXT, Extrd Alum
60-25-9400	>	1	Shore Power Inlet, Wiring to Interior Cab Rcptcls
60-25-9500	>	1	Shore Power Inlet, Wiring to Interior Bdy Rcptcls
60-25-9610	< >	4	Shore Power Strip, 120V, 15 Amp, 4-Plug Strip Rcptcl Placement locations TBD. Tied to shorepower.
		1	== EXT TA Aerial - Pnt/Ltr/Str - 601.022 06/01/22 ==
80-22-2106		1	Bdy Paint, Aerial, Sngl Color, EXT
80-32-1450		1	Compt Finish, DA Sanded, Up to 12 Cmpts, EXT
80-40-1250		1	Whl Finish, By Chassis Manufacturer
80-42-1500		1	Bdy Paint, Touch Up, 2 oz. Bttl, One Color
80-50-1700	S <	1	\$4,000.00 Graphics Allowance A \$4,000.00 graphics allowance is included in the price for the department to work with us or a graphics supplier to get a quotation on a department approved graphics and lettering scheme. Rosenbauer has separately included the cost of the front and rear reflective chevron.
80-50-4300	< >	1	Lettering, Aerial Sign Panel, 22"x144" Color TBD
80-50-5110	< >	1	Aerial Cylinder Panels, Pntd, EXT Color TBD
80-50-5140		1	-- Aerial Cylinder Panels, Pntd Lower Job Color, EXT
80-72-1110	S <	1	Stripe, Refl, 3M Reflective DOTS Entire Rear Rear face of body diamond plate to be reflective red and amber chevron DOTS.
80-72-1400		2	Stripe, Reflective, Aerial Outriggers, Both Sides of Ea White
80-72-1810		1	Stripe, Reflect, Diamond Grade, Chevron Pattern Rear Roll Up Door Red/Yellow
80-79-1000		1	NFPA Standing / Walking Surfaces Yellow Safety Tape (NFPA 15.7.1.6)
80-80-1200		1	Labels, Aerial Ladder Identification and Safety
90-01-5920		1	Whl Chocks Pair Worden #HWG w/ #U815T Mts

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QUOTATION

General Safety Fire Apparatus

Marshall MM Cobra Aerial Device Spec

Exp. Date: 10/27/2022
 Quote No: 10009-0003
 09/07/2022

Page 1

PART NO	S	QTY	DESCRIPTION
		1	== 100' Technical Information - 0.000 ==
		1	ROSENBAUER AERIAL MODELS
		1	100' FIVE SECTION MID-MOUNT PLATFORM MODEL
00-01-1610		1	-- 100' Five Section, Mid-Mount, Platform
00-01-1620		1	-- 100' Five Section, Mid-Mount, Base Section
00-01-1630		1	-- 100' Five Section, Mid-Mount, Lower-Mid Section
00-01-1640		1	-- 100' Five Section, Mid-Mount, Mid Section
00-01-1650		1	-- 100' Five Section, Mid-Mount, Upper-Mid Section
00-01-1660		1	-- 100' Five Section, Mid-Mount, Fly Section
		1	AERIAL ENGINEERING DRAWINGS
00-03-1110		1	Technical Drawings, Platform
00-03-3000		1	-- Technical Drawings, 12V Electrical Wiring Schematic
00-03-3200		1	-- Technical Drawings, Hydraulic Plumbing Schematic
		1	OPERATIONAL INSTRUCTIONS
00-07-1300	>	1	Platform Operation Instructions, By Aerial Mfg, At FD 3 Days
		1	AERIAL SERVICE and OPERATION MANUALS
00-08-1100		1	Platform Manuals, Operation and Service Manuals, Electronic
		1	AERIAL WARRANTIES
00-09-1210		1	Aerial Warranty, 1 Year, Material & Workmanship
		1	AERIAL TESTING
00-10-1100		1	3rd Party Aerial Testing, NFPA 1901
00-10-2100		1	Performance Testing, Waterway Flow Test, 3rd Party
		1	AERIAL PAINTING & CORROSION PROTECTION
01-00-1410		1	Outriggers, Galvanized, Beam Inner, Jack Tube Pad
00-09-8625		1	-- Outrigger, Galvanized Warranty, 25 Year
01-00-1700		1	Torque Box Galvanized
00-09-8425		1	-- Torque Box, Galvanized Warranty, 25 Year
01-00-2120		1	Galvanized/Painted Ladder Sections: Match Upper Cab
00-09-2230		1	-- Aerial Structural Design Warranty, 25 Years
00-09-7075		1	-- Aerial Ladder Section, Paint Warranty, 1 Year
00-09-8200		1	-- Aerial Ladder Sections, Galvanized Warranty, 25 Years
01-00-1335	>	1	-- Pltfrm Bskt Frame Galv, Frame and Skins Painted, Match Ladder Sections
10-05-1200		1	-- Aerial Ladder Bed, HD, S/S Scuff Plate
		1	== 100' Base Components - 0.000 ==
10-03-1000		1	Rung Cover, High-Traction Material
10-05-1100		1	Aerial Wear Pads, Between Telescoping Sections

PART NO	S	QTY	DESCRIPTION
10-06-1200		1	Sign Panel Brackets, Aerial
10-06-1800	>	1	Rosenbauer "R" Cradle Sign Brackets
10-06-2040		1	Base Markings, Indicate Extension Position, Black
10-07-6140	>	1	Rescue Basket, Outside Base, w/Alum Box, Junkins: JSA-200
10-08-3300		1	Platform Brthg Air System, ASME, (1)6000, (2)Outlets
10-08-5350		1	-- Brthg Air System, 75' Refill Hose, Vlv, w/Quick Connect
10-08-6200		1	-- Brthg Air System, Air Outlet, Quick Cnct, T/table
10-08-7560		1	-- Brthng Air System, Smart Aerial Air Monitor System, T/Tbl-Bskt
10-09-1010		1	-- Breathing Air Bottle(s) Color, Same as Ladder Sections
10-09-2010		1	-- Breathing Air Bottle(s) Marking Color, Same as Extension Markings
		1	== 100' Fly Components - 0.000 ==
00-01-1670		1	100' Five Section, Mid-Mount, Platform Basket
00-02-1920		1	-- Rear Third Door
		1	PLATFORM BASKET COMPONENTS
49-05-0100		1	-- Platform, Lighting , LED
49-05-1000		1	-- Platform Basket, Components, Self Leveling
49-05-1120		1	-- Platform Basket, 8" Extension
49-05-2100		1	-- Platform Extending Arms
49-05-3000		1	-- Mansaver Bar, FRC, Installed Platform Opening
49-05-4020		1	-- Platform Basket, (2) Hoses [1-1/2"], (2) Storage Box, Side Walls
49-05-4710		1	-- Pltfrm Strge Box , Painted Same Color as Pltfrm Basket
49-05-5000		1	-- Bumpers, Platform Step, Rubber
82-48-1060		1	-- Tip Lights, Platform, (1), FireTech HiViz FT-MB-2.18-FT-W
82-48-1220		1	-- Platform DOT Travel Lights: Mid-Mounts
82-49-1140		1	-- Platform Basket Warning Lights: Whelen TION T-Series
82-49-1240		1	-- Pltfrm Bskt Wrng Lts: Whelen (4)Frnt, (1)Each Side (2)Rear
82-49-1310	>	1	-- Platform Basket Warning Lights: Activate Turntable & Cab
82-49-1710		1	-- Platform Basket Warning Lights, Color: Red TIONR
82-49-3140		1	-- SceneLight, Under Basket (1), FRC: Spectra MAX SPA260-K20
82-49-4100		1	-- === NO Telescopic Lights - Pick to Select ===
85-49-1200	S <	1	-- Receptacle, Pltfrm Bskt, 120V, 15A, (1)Circuit, (2)Outlets Connection for supplying power through the wire to the basket will be a L14 30C
45-02-1010		1	Roof Ladder, Bolt On, Mnt Bracket, Inside Fly Section
45-02-3524		1	-- Roof Ladder, Duo Safety, 875'A, 16', Alum, Special Width 14"
45-03-1030		1	Pike Pole, Weld Plates, Tip of Fly
45-03-3200		1	-- Pike Pole Bolt On Mounting Brackets, Tip of Fly Section
45-03-4200		1	-- New York Roof Hook, 6', Tip of Fly
45-03-1210		1	Axe Bolt On Mountings Brackets, Platform Basket
45-03-1900		1	-- Axe, Pick Head, 6#, Fiberglass Handle
45-03-2030		1	Halligan Tool, Platform Basket
		1	== 100' Aerial Rotation System - 0.000 ==
		1	AERIAL ROTATION SYSTEM
50-00-1400		1	Platform Rotation System, 48" Bearing, 30 Bolts, Platform
50-00-2010		1	Panel Language: English
50-01-1525		1	Smart Aerial Control, Platform, Turntable, Command Pedestal
50-01-1810	<	1	-- Pedestal Location, Officer Side Officer side controls
50-01-1900		1	-- Aerial Gauges & Visual Display, Feet/Gallons
50-02-1010		1	-- Command Pedestal Lid
50-02-1030		1	-- Platform, Screen & Joystick Protection
50-06-1220		1	-- Turntable, Three Sided
01-00-2020		1	-- Handrails on Turntable, Steel, Line-X Black
01-00-2051		1	-- Handrail Orientation; Straight
50-08-1220		1	-- Safety Bars, FRC, (2), Swing Up At Turntable Openings
50-08-1410		1	-- Mansaver Bar Color; Yellow
50-08-1310	>	1	-- Saw Storage Box on Turntable
50-11-1220		1	-- Turntable, Control Stand & Lid, Line-X Black

PART NO	S	QTY	DESCRIPTION
50-11-1410		1	-- Turntable Control Lid/Door Ajar
65-04-1115		1	-- Outrigger Control Screen, Smart Aerial
90-01-2200		1	-- Hydraulic System, Filter, High Pressure
90-01-3210		1	-- Hydraulic System, Return Filter, Low Pressure
50-07-1100		1	Warning Label, Ladder Control Stands
50-17-1200		1	Air Horn Button, Turntable Panel
50-20-1100		1	=== NO Aerial Lubrication Automatic System - Pick to Select ===
		1	== 100' Torque Box Components - 0.000 ==
		1	TORQUE BOX COMPONENTS
60-00-1120		1	Torque Box
		1	== 100' Outriggers & Stabilizers - 0.000 ==
		1	OUTRIGGERS and STABILIZERS
65-01-1200		1	Outriggers, Smart Aerial Components
65-02-1230		1	Outriggers, 2 Front Out-Down, 2 Rear Out-Down
65-02-2175	>	1	Front Outriggers Directly Behind Cab
65-03-1300		1	Short Jacking, Smart Aerial
65-07-1100	>	1	Outrigger Plates, Auxiliary, 1/2" Alum
65-09-1200		1	Outrigger Stowed Indicator, Light in Cab
		1	== 100' Waterway & Capabilities - 0.000 ==
		1	AERIAL PERFORMANCE CAPABILITIES
70-00-1320		1	Performance Capabilities, Pltfrm, 2000 GPM, -12/+75
70-00-1430		1	-- Waterway 360 Degree 5" Swivel, 3-Port
70-01-1320		1	-- Waterway, Alum, Pltfrm, 5.5"OD Base, 5"LM, 4.5"Mid, 4"UM, 3.5"Fly
70-01-1710		1	-- Waterway Color; Aluminum
70-02-1220		1	-- Waterway, Elkhart, 5" Butterfly Valve, Electrically Operated
70-13-1000		1	-- ===== NO Wireless Radio Remote, Platform - PTS =====
65-04-1330		1	-- Outrigger Control Valves, Electric, (4) Out-Down
65-06-1300		1	-- Outriggers, Automatic Self-Leveling, (4) Extending Outriggers
65-06-1420		1	-- All Jacks Up Switch
70-16-1133	<	1	-- Monitor, TFT, (2), Monsoon, Y4-EP1A-P
			MONITOR
			Two (2) Task Force Tips Monsoon RC, model # Y4-EP1A-P remote controlled aerial ladder monitor shall be provided at the end tip of the aerial .. The monitor shall operate with 12 volt direct current and controlled by a monitor mounted switch panel with functions that control rotations, elevation and nozzle patterns. The monitor shall be compatible with a hard wire touch pad at the aerial control stand and at the platform control stand.
			The electrical controls for the monitor shall be waterproof and utilize current limiting position encoders to protect the drive train at the ends of travel. Monitor will be pre-wired to a control /connection box with 4 feet of wire such that the control connection box is mountable to the ladder at a nearby location. Control box on monitor will contain a membrane switch panel for control of unit from top of the ladder. An electrical connection for a TFT remote control nozzle shall be provided. The monitor shall be equipped with small override knobs for use in the event of power failure of electrical malfunction. The knobs control stainless steel worm gears for rotation and elevation adjustment.
			The monitor shall have the following capabilities: Control box mounted to top center of monitor for maximum clearance Override control shafts shall be short in length to provide maximum clearance Small override knobs installed Horizontal stops preset to 90 degrees left and right of center The rotation of the monitor is 0 degrees below and 0 degrees to 45 degrees below horizontal elevation Flow capability of 2000 GPM with 16 PSI of loss Maximum operating pressure of 200 PSI

PART NO	S	QTY	DESCRIPTION
			For resistance to corrosion the monitor shall be constructed from hardcoat anodized aluminum with silver powder coat interior and exterior finish. A threaded port for an optional pressure gauge shall be provided.
			The monitor shall be designed with a unique waterway that minimizes the path of travel, reduces friction loss and turbulence, and produces a far reaching water stream. The monitor shall be configured with a 4" ANSI 150 flange inlet and 3-1/2" male NH outlet.
70-16-1230	<	1	<p> -- Nozzle, TFT, M-ERP2000-NN</p> <p>Task Force Tips Master Stream, model MS-ERP2000-NN automatic nozzle with electrically operated pattern control shall be provided. The nozzle design shall allow for straight stream through dense wide fog patterns.</p> <p>The nozzle shall have a flow capability of 300 to 2000 GPM at a user adjustable pressure rating of 80 PSI to 120 PSI. User shall have the ability to change nozzle operating pressure by means of an adjustment knob with pressure indicator on the front of the nozzle.</p> <p>The electric drive unit shall develop over 400 pounds of torque, be enclosed in a waterproof cast aluminum housing and include a manual override device in the event the power source fails. The unit shall be compatible with a 12 volt power system and require no more than a 3 amp power draw and include a 24" connecting cable.</p> <p>Nozzle stream shaper actuator shall have position encoder for smooth transition between straight stream and fog pattern with fine stream adjustment.</p> <p>For corrosion resistance and durability the nozzle and actuator shall be constructed from hard coat anodized aluminum alloy, include a protective rubber bumper with fog teeth, laser engraved serial number, and reflective labeling.</p> <p>The nozzle shall have a 3-1/2" female NH swivel rocker lug coupling. A weatherproof six-pin electrical connection for use with TFT remote control monitors shall be included.</p>
70-18-1410	<	1	<p> -- Stacked Tips, TFT, YST-4NN, Straight Bore Tips</p> <p>Task Force Tips model # YST-4NN smooth bore stacked tips set shall be provided. For corrosion resistance the tip set shall be constructed from hardcoat anodized aluminum alloy. The set shall consist of four (4) tips with the base tip having a 3-1/2" female swivel rocker lug inlet, integral stream straightener and 2-3/4" outlet. The other tip sizes shall be 2-1/2", 2-1/4", and 2". Each tip shall be laser engraved with a flow/pressure chart, orifice size, thread size.</p>
70-18-1660		1	-- Monitor Color, TFT Silver
70-20-1155		1	-- Platform, TFT, (2) Valve Under Monitor, (1) 2-1/2" Discharge
90-20-1010		1	-- Color Camera, Intec: CVC404HXL, Smart Screen Display
70-01-1630		1	Waterway Plumbing, Under Turntable, Aluminum
70-03-1210		1	Waterway, Relief Valve, 2.5", Above Turntable
70-04-1100	>	1	Waterway, Relief Valve & Drain Valve
		1	== 100' Electrical System - 0.000 ==
80-01-1000		1	Platform Converter Package, Standard
80-01-2130		1	Intercom, 2-Station, Turntable & Platform, Atkinson: AD26C & AD26D
80-09-1010		1	Light Housing Color; White
80-10-1270		1	Tracking Lights, Base Section, (2), FireTech HiViz FT-WL-X-5H-FT-W
80-11-0000		1	-- === NO 120V Tracking Lights - Pick to Select ===
87-10-3020		1	Ladder Rung Lights, (2), Red (fly & UM), White (mid), Blue (LM & Base)
		1	== 100' Hydraulic System - 0.000 ==
		1	AERIAL HYDRAULIC SYSTEM
90-00-1200		1	Hydraulic System, 40 Gallon Tank

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QUOTATION

General Safety Fire Apparatus

Marshall MM Cobra Commander Chassis Spec

Exp. Date: 09/30/2022
Quote No: 10007-0013
09/07/2022

Page 1

PART NO	S	QTY	DESCRIPTION
		1	== Rosenbauer Commander - 601.022 06/01/22 ==
03-00-0101		1	-- Certification - NFPA
08-09-0103	<	1	-- Cab Paint Warranty Ten Years NON Pro Rated!
08-09-0104		1	-- Cab Structural Warranty Ten Years
08-09-0105		1	-- Transmission Warranty Allison Five Years
08-09-0106		1	-- Engine Warranty Cummins Five Years
08-09-0107		1	-- Frame Warranty Lifetime
08-09-0109		1	-- Front Axle Warranty Hendrickson
08-09-010A		1	-- Rear Axle Warranty Meritor - 5 Year
08-09-0111		1	-- Warranty - Cab and Chassis Two Year
08-09-0301		1	-- Cab Test Information Static Load Seat Test
08-09-0302		1	-- Cab Test Information Crash Test ECE-29
08-09-0303		1	-- Cab Test Information SAE J2420; J2422
08-09-0304		1	-- Cab Test Information Roof Crush, Side & Frontal Impact
08-09-0501		1	-- Operation & Parts List Manuals (2) Sets, USB Drive
08-09-0503		1	-- Engine & Transmission Operation Manuals (1) Set
08-09-0530		1	-- As Built Wiring w/Plumbing Diagram (1) Set
08-09-0540		1	-- On Board USB Manual Storage
08-80-0200		1	-- DOT KIT
		1	VEHICLE TYPE
03-00-0128	>	1	Mid Mount Aerial
03-00-0140		1	-- Standard Crossmembers
07-03-0102	<	1	-- Midship Pump Jackshaft Only Body division mount pump
03-00-0160		1	==== 8 Degree Angle of Approach ====
03-00-0162		1	==== 8 Degree Angle of Departure ====
		1	CAB
03-00-0761	>	1	70" Cab Length 11" Roof
		1	COMMANDER EMS CABINETS - REAR CREW - FORWARD FACING OUTBOARD POSITION
03-05-6400	< >	2	-- Interior Cabinet, Outboard, Fwd Facing, Floor Mtd, With Roll Up Door One each side rear cab corner
03-05-9000	<	4	-- Compartment Shelf 2 each compartment
05-01-1825		2	-- Forward Facing Compartment Interior Finish DA Sand
08-00-0718		2	-- Cmpt Lt, Wall, ROM, V3 LED Track Lt, (1) Ea Cmpt
		1	CAB STEPS
03-06-0010		1	-- Steps Aluminum Treadplate

PART NO	S	QTY	DESCRIPTION
			CAB DOORS
03-06-1015		1	-- Cab Entry Doors
03-06-1025		1	-- Full Length Cab Entry Doors
03-06-1100		1	-- Cab Door Hardware Chrome (4)
03-06-1120		1	-- Cab Door Locks Manual
03-06-1135		1	-- Interior 1-Piece Door Panel Type Aluminum
03-06-1205		1	-- Door Panel Finish Line-X Gray
03-06-1226	>	1	-- Chevron, Reflective, Interior Cab Doors, Diamond Grade Red/Yellow
04-05-0105		1	-- Interior Handle Front Door Grab Handles - Black Powder Coat
04-05-0150		1	-- Interior Grab Handle Rear Door Chicago Style 34" Black Powder Coat
04-05-0182		1	-- Additional Grab Handles, "A" Pillar
			CAB GLASS
03-08-0014	< >	1	-- Heated Windshield One Piece - COMMANDER Will be switched in Vista on VMUX trucks.
03-08-0102		1	-- Windshield Wiper System Single Motor (2) Wipers - 3D Grille
08-02-0135		1	-- Windshield Wiper Activation Switch on Driver Panel
03-08-0116		1	-- Window Driver Power
08-01-0301		1	-- Power Window Activation, Respective Door
03-08-0118		1	-- Window Officer Power
03-08-0210		1	-- Window Driver Crew Door Power
03-08-0241		1	-- Window Officer Crew Door Power
03-08-0300		1	-- Window Side Middle Driver Fixed 15.5W" x 21.5"H
03-08-0350		1	-- Window Side Middle Officer Fixed 15.5"W x 21.5"H
			CAB INTERIOR AND TRIM
04-01-0200		1	-- === 11 Raise Cab 70" Interior Trim ===
03-09-8010		1	-- Cab Insulation Interior Ceiling
03-09-8015		1	-- Cab Insulation Engine Tunnel
03-09-8020		1	-- Cab Insulation Cab Damping
04-01-1100		1	-- Interior Trim Color Gray, 70" -11" Roof
04-01-1120		1	-- Interior Trim Color Gray Rear Wall 11" Roof
04-02-1002		1	-- Suspended Throttle and Brake Pedals
04-02-1125		1	-- Interior Floor Covering Color Black, 70"
04-02-1702		1	-- Interior Trim Sun Visor Tinted
04-02-1798		1	-- Cab Coating Interior Color
05-01-1055		1	-- Cab Coating Interior Gray Polyurethane
			CAB DASH AND ENGINE TUNNEL - 70" LONG
04-03-1000		1	-- Cab Dash & Engine Tunnel, Composite Dash
04-03-1012	>	1	-- Cab Dash & Engine Tunnel Line-X Coating Gray
04-03-1204		1	-- Flat Mntg Plate - Engine Tunnel, Composite Dash, Long Tunnel
04-03-2013	< >	1	-- Officer MDT w/Swing Arm Mtd on Engine Tunnel - Small Arm For customer I-Pad
04-03-2100		1	-- Officer Glove Compt - Composite Dash
			CUSTOM CONSOLE
04-04-1100		1	-- Havis Console
04-04-1102	>	1	-- Havis Console - Custom Configuration
04-04-1112	< >	2	-- Magnetic Mic Tab(s) Ship Loose
04-04-1116	>	1	-- Black Blank Plate
04-04-1126	>	1	-- Black Plate(s) for Communication Radio
04-04-1136	>	1	-- Black Plates with (2) Power Point & (2) Dual USB Power Point
04-04-1142	>	1	-- Map Light, Federal Signal, LF12TSB-LED
04-04-1152	>	2	-- Open Assy Box - 9 Inch
04-04-1161	>	2	-- Cup Holder, Dual
04-04-1176	>	1	-- Black Plate for Siren

PART NO	S	QTY	DESCRIPTION
04-04-1181	>	1	-- Black Plate for Traffic Advisor
08-01-0140	>	1	-- Instrumentation Panel Inlay - Job Color
		1	CAB EXTERIOR - 70"
		1	CAB HEADER - HEAT AND AC
03-08-4000		1	Cab Header / Heating and AC
05-02-0010	>	1	-- Heating w/ Air Conditioning, Overhead, VMUX
05-01-6010	>	1	-- Cab Paint A/C Condenser on Roof
05-02-0047		1	-- Heater Hose - Silicone
05-02-0200		1	-- A/C Condenser Location Roof Mount Mid Center
05-02-0298		1	-- Cab Circulation Hanging Fans Mid (2) Inboard
05-02-0300	< >	1	-- Auxiliary Defroster Fans
			Will be switched in Vista on VMUX trucks.
05-02-0710	<	1	-- Auxiliary Coolant Heating System w/Hose Insulation
			ESPAR HEATER
08-02-0121		1	-- Heat & A/C Activation VISTA, Rear Crew Manual
08-02-0104		1	-- Rear Crew Controls Manual - Rear Facing Driver's or Officer's Side Seat - Remote
		1	SEATS
03-09-0100		1	-- Seat Color Gray/Red Seat Belt
03-09-01X1	>	1	-- Seat Driver 911 Seats Inc XL 4-Way Air ABTS
03-09-000A		1	-- Single Retractor Seat Belt - Seats Inc
03-09-0121		1	-- Seat Back Non-SCBA
03-09-02X2		1	-- Seat Mounting Driver Air XL - Seats Inc
03-09-0902		1	-- Seat Material Turnout Tuff
03-09-0920		1	-- Seat Logo Rosenbauer
03-09-3010		1	-- Driver Seat Box Storage Compartment
03-09-3236	>	1	-- Seat Box Driver & Officer Storage Access Doors (2) Driver/Officer
03-09-024B	>	1	-- Seat Officer 911 XL Seats Inc 2-Way Manual ABTS
03-09-000A		1	-- Single Retractor Seat Belt - Seats Inc
03-09-0121		1	-- Seat Back Non-SCBA
03-09-02X6		1	-- Seat Mounting Officer 2-Way XL Seats Inc
03-09-0310		1	-- ===== No Parade Panels =====
03-09-0902		1	-- Seat Material Turnout Tuff
03-09-0920		1	-- Seat Logo Rosenbauer
03-09-3020		1	-- Officer Seat Box Storage Compartment
03-09-033A	>	1	-- Two (2) Outboard Rear Facing Seats - XL
03-09-035A	<	2	-- Seat Crew Rear Facing Outer 911 Seats Inc XL Fixed ABTS
			Belt Orientation shall pull from outboard shoulder to inboard hip
03-09-000A		2	-- Single Retractor Seat Belt - Seats Inc
03-09-011A		2	-- Seat Back SCBA Halo Center Cushion Release
03-09-0310		2	-- ===== No Parade Panels =====
03-09-038A		2	-- Seat Mounting Rear Facing Outer - XL Seats Inc.
03-09-0902		2	-- Seat Material Turnout Tuff
03-09-0920		2	-- Seat Logo Rosenbauer
03-09-041A	>	1	-- Two (2) Center Forward Facing Seats - XL
03-09-055B	<	2	-- Seat Crew Forward Facing Center 911 Seats Inc XL Flip-up
			Belt Orientation- LH & RH to Door
03-09-000A		2	-- Single Retractor Seat Belt - Seats Inc
03-09-011A		2	-- Seat Back SCBA Halo Center Cushion Release
03-09-0310		2	-- ===== No Parade Panels =====
03-09-057A		2	-- Seat Mounting Forward Facing Center - XL
03-09-0902		2	-- Seat Material Turnout Tuff
03-09-0920		2	-- Seat Logo Rosenbauer
03-09-3100		1	-- Seat Box (2 person) Forward Facing
03-09-3200	>	1	-- Seat Box (60/54) Forward Facing Storage Access Cutout (1) Center
			Forward

PART NO	S	QTY	DESCRIPTION
03-09-4001		1	-- Seat Box Finish - Match Cab Interior Coating
04-05-1900		1	-- Exterior Grab Handles 18" Aluminum
04-05-1911		1	-- Exterior Grab Handles Bare Aluminum w/ Lighting
04-05-0211		4	-- Exterior Grab Handles with White LED Lighting 18"
08-01-0800		4	-- Grab Handle LED Light Actvtn w/ Parking Brake
		1	CAB FRONT FASCIA
04-08-0010		1	===== Traditional Front with Rectangular Headlamp Bezels =====
04-08-0101		1	-- Front Grille, 3D Stainless Steel, Custom Backlit Name
04-08-0022		1	-- Wing Light Bezel - Stainless
04-08-0052	< >	1	-- Department Name Laser Cut Center Grille Bar
			MARSHALL
04-08-0055	<	1	-- Grille Back Lighting - Amber Exact color TBD
08-01-1502	>	1	-- Backlit Grille Bar Activation - VMux
04-08-0059		1	-- ===== No Front Grille, Grille Glo =====
04-08-0072		1	-- Front Grille Inlay - Commander - Painted American Flag
06-03-2010		1	-- Fluid Checks & Fills at Grille L9
08-00-0503		1	-- Headlights, Quad, with Rectangular Bezel
08-00-0521		1	-- DRL & Wig Wag, Alternating Headlights - VMUX
08-01-0341	>	1	-- Alternating Headlights Activate VISTA
08-00-0540	< >	1	-- Headlight Location - Upper Bucket 104 OS, 105 OS, and 104 DS, 105 DS
08-00-0602		1	-- Front Turn Signals Whelen 600 LED (2)
08-00-0630	< >	1	-- Turn Signal Located Below Headlights 106 OS & DS
08-00-0608		1	-- Front Marker Lamps Face Mounted LED (Center 3 Lightings, 2 Corner)
08-00-061C		1	-- Side Marker Light LED - Chrome (2)
08-01-0302		1	-- Headlight & Marker Light Activated VISTA
04-08-0151		1	Cab Fender Stainless Steel
04-09-0300		1	Logo, Commander, Cab Sides
04-10-0351		1	Mud Flaps Front
		1	CAB TILT
05-00-0221		1	Cab Tilt System - Heavy Duty w/ Manual Back Up
05-00-0021		1	-- Cab Tilt Limit Switch
05-00-0045		1	-- Cab Tilt Lock Down Indicator
05-00-0100		1	-- Cab Tilt Control Receptacle Temp
		1	REARVIEW MIRRORS
05-00-5005		1	Bus Style Mirrors
05-00-7000		1	-- Ramco-Bus-Drv Dr Mt (CRM-1750PHCHR)-Off Dr Mt (CRM-1750PHCHR)-H&R,H&R(LWR)CVX
08-01-0822		1	-- Rearview Mirror Heat Activated VISTA
		1	EXTERIOR CAB PAINT
05-01-5015		1	Cab Paint Exterior Two Tone
05-01-5020	< >	1	-- Cab Paint Upper / Secondary White to match existing Marshall apparatus
05-01-5021	< >	1	-- Cab Paint Lower / Primary Yellow to match existing Marshall apparatus
05-01-503F		1	-- Cab Paint Exterior Breakline - Paint Break F
05-01-6051		1	-- Cab Undercoating

PART NO	S	QTY	DESCRIPTION
05-01-7000	>	2	-- Paint Spray Out
		1	FRONT AXLE
07-05-010D		1	Front Axle Hendrickson SteerTek 24000#
07-05-0120		1	-- Front Wheel Bearing Lube Oil
07-05-0276		1	-- Front Suspension Hendrickson Parabolic Spring 24,000
07-05-0341		1	-- Power Steering Gear TRW TAS 85 w/Assist- 20K and up - L9 Steertek Axle
07-06-0420		1	-- Chassis Alignment
07-07-0001	>	1	-- 425 Front Tires
07-07-0203	>	1	-- (2) Steer Tires 425/65R 22.5 Michelin XZY3 "L"
07-06-0436	>	2	-- Counter Acting Balancing Beads
07-07-0720	>	1	-- (2) Front Wheels Alcoa Polished 22.5 x 12.25 Aluminum
07-08-0203		1	-- Front Brakes Meritor EX225 Disc 17"
07-05-0315		1	4 Spoke Steering Wheel with ESC Tilt/Telescopic 18"
		1	REAR AXLE
07-06-0112	>	1	Rear Axle, Tandem, 63000# Meritor RT-58-185
07-06-0282		1	-- Rear Suspension Hendrickson ULTIMAAX UMX 63000#
07-08-0110	< >	1	-- Electronic Stability Control Tandem Axle - Two Valve System w/ air manifold
07-05-0500	< >	1	-- Mud/Snow Switch Switch will be in Vista on V-Mux Trucks
07-08-0252	>	2	-- Rear Brakes S-Cam Drum 16.5" x 8.6"
07-06-0300		2	-- Rear Shock Absorbers
07-06-0351	>	1	-- Rear Axle Differential Control w/Interaxle Diff Lock - Tandem Std
08-01-0912	>	1	-- Interaxle Control Activated Vista (Tandem)
07-06-0352	>	1	-- Rear Axle Differential Control driver control locking diff tandem
08-01-0922	>	1	-- Rear Axle Diff Control (DCDL) Activated Vista (Tandem)
07-07-0452		1	-- (8) Rear Tires 315/80R 22.5 Michelin X WORKS XDY "L"
07-06-0436	>	8	-- Counter Acting Balancing Beads
07-07-0833		1	-- (8) Rear Wheels Alcoa Polished 22.5 x 9.00 Aluminum
07-07-0620		1	-- Valve Stem Extension - Tandem Axle
07-07-0993		1	-- Vehicle Top Speed 60
07-08-0189		1	-- Air Tank Brackets - Hot Dipped Galvanized
07-08-0302		1	-- Park Brake Rear w/Supplemental Front
08-02-0130		1	-- Park Brake Control Driver Dash
07-08-0410		1	-- Wabco System Saver 1200
07-08-0558		1	-- Moisture Ejectors Auto Heated
07-08-0570		1	-- Air Supply Lines Nylon
07-08-0725		1	-- Air Horn Reservoir (1) 1200 Cu In
07-09-001C	>	1	Frame Triple Channel 35.00" Frame Width
07-09-0050		1	-- Wheelbase Range 240" - 259"
07-09-0071	>	1	-- Rear Overhang
07-09-0138		1	-- Frame/Front Extension Hot Dip Galvanized
08-09-0200		1	-- Galvanized Frame Warranty BR
07-13-0305	<	1	-- Tow Hooks Chrome - Shipped Loose For body division install
		1	ENGINE
06-00-0050		1	-- Engine Placement
06-00-1640	>	1	-- Engine, Cummins X15, Base Spec, 2021 - Commander
06-00-0052		1	-- Cummins X12 & X15 Surcharge
06-00-1644		1	-- 600HP Cummins X15
06-02-1130		1	-- Fan Clutch - X15
06-04-3010	>	1	-- Fan Clutch Programming - Cold Weather Climate
06-02-1526	>	1	-- Auxiliary Engine Brake Compression Brake (JAKE)
08-01-0202	>	1	-- Auxiliary Engine Brake Control On/Off & Low/Med/High VISTA

PART NO	S	QTY	DESCRIPTION
06-02-2005		1	-- AC Compressor X15, ISM & Export ISL
06-03-1010		1	-- Engine High Idle Speed 1250 RPM
06-03-1023		1	-- Engine High Idle Control Manual & Automatic VISTA
06-05-3030		1	-- Engine Air Intake Filtration and Restriction X15
06-06-3760		1	-- Engine Exhaust System One Piece Officer Side, 565-605 hp, X15, 2021
06-06-4010		1	-- DEF Tank - Commander (With Clearance)
06-06-4100		1	-- DEF Tank Access Fill Door
06-08-0100		1	-- Engine Exh Acc Temp Mitigation
06-08-0200		1	-- Engine Exhaust Wrap
08-02-0140		1	-- DPF Control Regeneration Switch & Inhibit Switch Covered
06-04-2006		1	-- Engine Cooling System- X 15.0L
06-04-4010		1	-- Coolant Valve Shut Off Valve w/Connection - For Additional Heater
06-05-1005		1	-- Engine Pump Heat Exchanger X15
		1	TRANSMISSION
07-01-0102		1	-- Transmission Allison 4000 EVS
07-01-0500		1	-- Transmission Fluid - Standard
07-02-0008		1	-- Transmission GEN V-E Push Button Key Pad
07-02-0013		1	-- Transmission 1 o'clock PTO
07-02-0052		1	-- Transmission Mode Programming 5th Startup/5th Mode
07-02-0066		1	-- Transmission Feature Programming I/O Package 198/Pumper
07-02-0253		1	-- Driveline Spicer 1810 HD
07-04-0108		1	-- Fuel Filter/Water Separator Cummins FS1065
07-04-0320	<	1	-- Fuel Tank 68 Gallon/257 Liter - Dual Fill - Beveled Rear Corner Driver side fuel neck
07-04-0216		1	-- Fuel Lines Aramid Braid
07-04-0225		1	-- Fuel Shutoff Valve (2) at Filter
07-04-0230		1	-- Fuel Cooler Rearward of Battery Box
08-00-0406	>	1	-- Alternator Niehoff 360A - ISX
		1	ELECTRICAL SYSTEM
08-00-0100	>	1	Electrical System 12V DC Weldon V-MUX
08-01-0051		1	-- Driver & Officer VISTA Display Weldon Vista IV
08-01-0054		1	-- Driver Panel / Switch Panel (6 Switches) Under the Vista Screen
08-09-0249		1	-- V-MUX WARRANTY - 4 YEAR
08-02-0512	< >	1	-- Aux Pwr & Gnd Stud 40A Batt Direct Rear of officer seat
08-03-0110	<	1	-- Communication Antenna Base Cab Roof - RBM Supplied Please Specify Location
08-03-0231		1	-- Ant Cable Routing Under Dash Panel
08-04-0999		1	-- === No Stereo Radio In Cab - Pick to Select ===
08-02-0610		1	-- Weldon VDR/Seat Belt Warn - VISTA
08-01-001B		1	-- Commander Analog Gauge Composite Dash
08-01-0010		1	-- Instrumentation Standard Gauge Panel
08-01-0125		1	-- Instrumentation Backlighting Red
08-00-0340		1	6 Battery System
08-00-0322		1	-- Batteries (6) Group 31
08-00-023A		1	-- Battery Box Driver/Officer Side Hot dipped Galvanized Steel w/Covers - 6 Battery
08-00-0248		1	-- Battery Cables (6)
08-00-0251		1	-- Battery Jumper Studs Front Driver Lower Step
08-01-0033	>	1	-- Cole Hersee Ignition Switch & Battery Master w/Push Button Start - Composite Das

PART NO	S	QTY	DESCRIPTION
08-01-0040	>	1	-- Power & Ground Stud 40A Batt Direct / 15A Ignition
08-00-072D		4	-- Ground Lights LED Whelen 3SC0CDCR
08-01-0751		4	-- Ground Lights Activation with Park Brake
08-00-0735		4	-- Cab Step Lights LED (1 Per Step)
08-01-0753		4	-- Step Lights Activated Respective Side
08-00-0742		4	-- Interior Door Warning Lights Red 3" LED
08-00-0783		1	-- Engine Compartment Work Light LED (2)
08-00-0791		1	-- Interior Overhead LED Lighting - Red/Clear
08-00-0812	>	2	-- Add'l LED Dome Lt Red/Clear - Individual Swtchd
08-00-4090	>	1	Dr Open/Hazard Wrn Lt, Flash, Whelen 3SR00FRR LED Rnd (Do Not Move Appar
08-01-2010		1	Back-Up Alarm Ecco 575
		1	HAAS Alert System
08-02-0770		1	-- HAAS Alert System, HA-5
08-02-0775		1	-- HAAS - 5 Year Subscription
08-05-1100		1	Aerial Interface - Rosenbauer Aerial - Multiplex
08-05-2003	<	1	-- Aerial Pre Wire - V-Mux Includes * (3) 2 gauge Batteries cables, 2 red & 1 black - ran down driver's side from forward cross member to extend 5 ft beyond frame - cap both ends * 1/4" fuel line loop from fuel tank aux pick up to aux return down the driver side to the first cross member behind the cab with an additional 10 ft of hose. Mark hose with a sticker to indicate which side of loop is for pick up and return * Arrow Stick Harness from Dash to extend 10 ft beyond end of frame rails * White wires 1-11 and 1 Red wire * (2) Pieces of 1/4" airline to run down the driver side from behind the cab to extend 10 ft beyond the frame rails. * J1939 Wire from rear of cab to extend 10 ft beyond frame rails * V-Mux Wire from rear of cab to extend 10 ft beyond frame rails * Additional Clean Ground Wire from rear of cab to extend 10 ft beyond frame rails for V-Mux
08-05-2022	<	1	-- Cobra Aerial - Mid-Mount - Warning Light Wiring to behind the cab.
		1	360° Camera System
08-06-7012	>	1	360° Camera System with VMUX
08-06-7030	<	1	-- FRC inView 360 Camera System - Driver & Officer Vista The inView 360™ provides the driver with split screen view. The bird's-eye view is always visible providing a 360 view around the apparatus. This unique view allows the operator to see pedestrians and obstacles in close proximity to the apparatus. The second view on the display switches between front/left/right/rear views depending on the operational conditions. The system is networked between the turn signals, and vehicle reverse so the screen automatically switches to left, right, and rear viewing when turning or backing up.

Item 3.

Fwd: Marshall Formal Mid Mount Platform HGAC Proposal

Jake Olsen <jake.olsen@ci.marshall.mn.us>

Thu 9/8/2022 8:13 AM

To: Quentin Brunsvold <quentin.brunsvold@ci.marshall.mn.us>

 5 attachments (1 MB)

Marshall Formal HGAC Mid Mount Platform Proposal PO.pdf; MARSHALL MID MOUNT REVISED COMMANDER CHASSIS SPEC.pdf; MARSHALL MID MOUNT COBRA REVISED BODY SPEC.pdf; MARSHALL MID MOUNT REVISED COBRA AERIAL SPEC.pdf; MARSHALL DRAWING REVISED MARKUP (2).pdf;

That's a bit different than McQueen

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From: Steven Harris <steve@generalsafetyfire.com>

Sent: Thursday, September 8, 2022 7:52:49 AM

To: Jake Olsen <jake.olsen@ci.marshall.mn.us>

Subject: Marshall Formal Mid Mount Platform HGAC Proposal

Good morning Jake. Please find the attached formalized HGAC proposal pricing/PO for your potential new Rosenbauer Minnesota built EXT Cobra Mid Mount Platform. The price listed is the price if the department would not pay for the truck until the truck was completely finished, approx. 600 calendar days after ordering.

If the City / Department takes the progress pay discounts as noted on the proposal by paying the listed chassis amount on its completion (approx. 10-11 months after order) and listed aerial amount payment (approx. 90-120 days after the chassis is done) which is what Marshall has always done with us in the past the price would be \$1,444,961.00.

If instead the City / Department would want to pre-pay for the entire apparatus within 15 days of signed order, you could deduct \$61,263.00 off the \$1,470,838.00 proposed price bringing it down to \$1,409,575.00.

Hopefully this pricing looks attractive to you and Marshall FD can place their confidence in us again. Let me know how we stand and if it looks like you will be recommending us, I will let the plant know and I can make sure that engineering gets that drawing updated with the few markups noted on it.

I appreciate it Jake and I hope we can work with you and your City once again. Thank you. Let me know!

Steven A. Harris

GENERAL SAFETY FIRE APPARATUS

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