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EMERGENCY SERVICES UNIT SPECIFICATIONS

1.0 CHASSIS/CAB SPECIFICATIONS

2017 Ford Super Duty F-550 DRW 4WD Crew Cab 60" CA XL

Exterior Paint: Black

Engine: 6.8L Triton Gas V10 engine

Transmission: TorqShift 6-Speed Automatic w/ limited Slip differential with 4:88 gear ratio

OPTIONS

17F XL Decor Group Inc.

41H Engine Block Heater

41P Transfer Case Skid Plates

44P Transmission: TorqShift 6-Speed Automatic

512 Spare Tire, Wheel & Jack

525 Steering Wheel-Mounted Cruise Control Inc.

585 Radio: AM/FM Stereo/Single CD/MP3 Inc.

61J 6-Ton Hydraulic Jack Inc.

76C Exterior Backup Alarm (Pre Installed)

76D Rear View Camera & Prep Kit

96V XL Value Package

AS Steel, HD Vinyl 40/20/40 Split Bench Seat \$0.00

TGB Tires: 225/70Rx19.5G BSW Max Traction \$215.00

18B 6" Black Molded Running Boards

BIDDER COMPLIES: YES NO

2.0 ELECTRICAL SYSTEM:

2.1 ALTERNATOR:

The factory alternator and batteries shall remain in the OEM location to retain the full factory warranty.

BIDDER COMPLIES: YES NO

2.2 UNDER HOOD WIRING:

On the firewall, shall be a fabricated aluminum mounting plate containing a 150 amp master circuit



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breaker with manual disconnect, a 200 amp solenoid operating when the ignition is activated and a 40 amp constant power circuit breaker. The aluminum electrical panel shall be mounted in an area not to interfere with any engine operation, fluid checks, factory equipment or service. Each component shall include an engraved panel indicating the function and rating of each component. All vendor supplied aftermarket wiring shall be enclosed in high temperature black split loom with a permanent red stripe to differentiate the aftermarket wiring from the factory wiring. A detailed wiring diagram shall be included with each conversion.

BIDDER COMPLIES: YES NO

2.3 FAST IDLE CONTROL:

To maximize the output of the alternator, an automatic electronic fast idle control module will be installed into the electrical system operating only in park and neutral. This unit will raise the idle automatically to maintain battery charge when the vehicle is idling at the scene.

BIDDER COMPLIES: YES NO

2.4 BACK UP ALARM:

One back up alarm with the feature to automatically adjust louder than the ambient sound around the vehicle shall be installed and wired to the reverse circuit of the vehicle. A momentary cancel switch shall be added to the console which will disable the alarm and automatically reset the next time the vehicle is placed in reverse.

BIDDER COMPLIES: YES NO



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2.5 IGNITION SECURITY:

A vehicle specific ignition security system with a momentary push button switch will be mounted on the dash to the left of the steering column. After pressing the button, an LED will illuminate and allow the keys to be removed with the vehicle left running. This circuit shall not interfere with any operational function of the vehicle i.e.: heat & air conditioning, emergency lighting, etc. Stepping on the brake before the ignition key is placed back in the switch and turned on shall disconnect the system and the engine shall turn off. A plastic engraved panel shall be mounted near the switch that says "Ignition Security".

The vehicle's main cab doors / ignition will be "fleet keyed," with the key code being provided to the winning Bidder.

BIDDER COMPLIES: YES NO

2.6 JUMP START SYSTEM:

A commercial grade heavy duty system rated at 800 amps shall be installed on the front of the vehicle. The front receptacle shall include a polarized high power connection housed in a stainless steel box with hinged protective weather cover in the grill area wired direct to the battery system to supply power to other vehicles. Included is one set of 20' cables with a connector on one end and a pair of spring loaded clamps on the other. The jump start system shall turn on and off by means of a heavy duty battery master switch located near the base of the driver seat. When energized a led pilot light on the dash shall illuminate and be labeled emergency jump start system.

BIDDER COMPLIES: YES NO



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2.7 WIRING SCHEMATIC

A Laminated wiring diagram shall be mounted to the electrical panel located behind the passenger seat behind the passenger seat.

BIDDER COMPLIES: YES NO

2.8 WIRING DETAILS:

Body junction box: All body wiring shall terminate into a waterproof wiring box with cover in comp R1 to enable removable of the body and simple reconnect onto a new chassis or major repair.

Cab junction: All aftermarket cab wiring shall terminate on a panel behind the passenger seat. To protect the wiring from shorts, a drop down rubber cover shall be installed. The rubber cover shall include a device to keep it up out of the way during service or troubleshooting

Wire run holes: All wiring runs that pass between compartments on the body shall have a properly sized snap in grommet to protect wiring passing through the hole.

Wire: Properly sized GXL copper stranded wiring that is function coded every 4-6 inches.

Loom clamps: Metal coated loom clamps every 8

Grommets: All holes

Connectors: Soldered and heat shrink protected with dielectric grease. Deutch connectors on all light heads and exterior components and must be part of the main wiring harness. All connections made horizontal so no moisture collects.

Splices: Soldered and heat shrink

Service loops: All connections, 6"



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Loom protection: In compartments where equipment may damage wiring, removable. All loom must be secured with mechanical clamps using bolts and locking nuts every 6”.

Exterior wiring: Liquid tight weatherproof connector, no grommet and Silicone.

BIDDER COMPLIES: YES NO

3.0 120 VOLT AC POWER

3.1 20 AMP AUTO-EJECT

One (1) Kussmaul #091-55-15-120 super auto eject receptacle shall be mounted on the forward wall of the L-1 exterior compartment. It shall be covered with an aluminum diamond plate protection panel and be wired to a junction box with circuit breaker protection. Connected under-hood line for Block heater. All wiring shall be stranded copper wiring, the use of solid copper wire is not acceptable in automotive use.

BIDDER COMPLIES: YES NO

3.2 BATTERY CHARGER:

Part of the inverter charger

BIDDER COMPLIES: YES NO

3.3 POWER OUTLETS:

Located in three (3) of the rear body compartments shall be a 20-amp, 110v duplex outlet to include a metal weatherproof box with screw in connectors and screw in covers for any non-used ports. The outlet must be a high quality 20-amp duplex outlet with a stainless-steel cover. Wiring must be stranded 12/3 boat cable to withstand the rigors of vehicle installed systems. The use of solid wire such as Romex shall be unacceptable and reason for rejection. All wiring shall be routed to be protected



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against chafing, all metal holes shall include a snap ring grommet and all wiring shall be covered in split loom. Outlets shall be located in compartment to be determined at pre-production.

BIDDER COMPLIES: YES NO

3.4 INVERTER:

One DC to AC Sine wave inverter will be installed in a rear body compartment. An on/ off switch shall be installed on the front console. Inverter shall be 1800 watt, and shall include a multi-stage charger and 30-amp automatic transfer switch.

BIDDER COMPLIES: YES NO

4.0 CAB INTERIOR

4.1 CAB CONSOLE

One First Priority EVC-100 or equivalent vehicle specific front equipment console manufactured with Medium Density Overlay plywood covered with ABS "Hair cell" textured black composite finish shall be utilized. The use of counter-grade laminates are unacceptable because of the tendency to chip and crack. The top panels used for radio and siren head mounting shall be made from 1/2" High Density Polyethylene Composite material and be fastened to the main console using black, flat head machine screws which connect with threaded brass inserts imbedded into the edge of the console. The use of wood screws is strictly prohibited. Included are a cooling fan, vents, two 12-volt power outlets, 2 drop in cup holders, and a map light. The remaining area is available for the optional installation of radio control heads and other equipment which shall be addressed in the communications section of this proposal. This



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system shall include a custom, plug in harnesses system with function coded GXL wiring. A detailed set of three-dimensional computer generated plans will be submitted with a purchase order.

BIDDER COMPLIES: YES NO

4.2 WIRE HARNESS:

This conversion includes a vehicle specific wire harness system that includes OEM factory style plugs and connectors. All wiring must be GXL wire function coded every 4-6". The harness system must contain a minimum of 10 different colors and be protected with high temperature convoluted loom. There are no splices or connectors within any harness and anywhere it passes through a wall a snap ring grommet is included. OEM factory style plug in connectors are used where possible eliminating cutting and splicing into factory wiring.

BIDDER COMPLIES: YES NO

4.2.1 ARM REST

A metal adjustable armrest with a durable padded top shall be bolted to the driver's side of the equipment console. This mount can be adjusted in two directions to accommodate the driver.

BIDDER COMPLIES: YES NO

4.2.2 COMPUTER MOUNT

One (1) Ram Mount: Mount-part # VB-181-SW1 and Bracket-part# Ram-Hol-tab-84 for end user supplied I-Pad or Toughbook tablet. Power supply shall be supplied by bidder.

BIDDER COMPLIES: YES NO

4.3 INTERIOR LIGHTING:

Two (2) LED combination white & red interior lights mounted on headliner towards the windshield, one driver, one passenger positioned so they are



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over the driver's or passenger's heads. Switches shall be on each light. Lights shall be Whelen model #60CREGCS 12 diode, minimum, led light with 3-way switch incorporated into the light.

BIDDER COMPLIES: YES NO

4.4 DOOR AJAR LIGHT:

One (1) Whelen model 0SR00FCR flashing LED light shall be mounted on the dash and activated whenever any compartment door is opened and the vehicle is running. Activation shall occur via individual pin switches installed in each compartment.

BIDDER COMPLIES: YES NO

4.5 HEIGHT PLACARD

Height warning label made from reflective 3M scotchlite lettering shall be installed on the windshield above the rear view mirror.

BIDDER COMPLIES: YES NO

4.5.1 GVWR PLACARD

A plastic engraved placard containing the vehicle's Gross Vehicle Weight Rating shall be located to right of steering wheel on dash. Must be engraved and attached with rivets.

BIDDER COMPLIES: YES NO

4.5.2 GAS FUEL ONLY PLACARD

A plastic engraved placard shall be installed above each fuel fill stating "GAS FUEL ONLY". Must be engraved and attached with rivets.

BIDDER COMPLIES: YES NO

4.6 CAB CABINET:

FPEV cabinet systems and command units are fabricated from special 7-Ply MDO plywood and



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covered with high pressure counter grade Formica style laminate, marine grade carpet or special chemical resistant continuous sheet materials. For added durability edges are trimmed with thick PVC bumper strip installed into a machine slotted edge, drawer faces and doors are built with unbreakable black HDP composite and FPEV uses the highest quality hardware in the industry making FPEV systems transferable from vehicle to vehicle for many years to come. Dividers are removable mounting in aluminum channel for flexibility, drawers and doors include adjustable emergency vehicle compression style latches, swing open and sliding doors are available and all drawers utilize full extension drawer slides. A full set of computer generated plans must be provided with the bidders proposal.

BIDDER COMPLIES: YES NO

4.6.1 CABINET LAYOUT & DESIGN The rear seating will be removed and a sub floor and rear wall that covers the entire wall and window will be installed. The rear wall will be ¾” thick 7-Ply MDO cabinet grade plywood covered with 0.125” aluminum tread plate.

BIDDER COMPLIES: YES NO

4.6.2 STORAGE COMPARTMENT: A full width cabinet will be mounted to the sub floor. The cabinet will be approximately 7” high by 16” wide and have two drawers on a heavy duty slide. One drawer will open on the driver’s side and the other drawer will open on the passenger’s side. The drawers will be secured with simplex programmable push button locks. On top of the cabinet will be four vertical mounted weapons racks



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and locks (see 4.6.3). Cabinet system shall be made from 7-ply MDO plywood covered with automotive grade charcoal fabric. A detailed set of three dimensional computer generated plans will be submitted with the bidder's proposal.

BIDDER COMPLIES: YES NO

4.6.3 WEAPONS LOCKS:

There shall be four (4) Santa Cruz SC-5-XL weapons locks with #2 key and adjustable electronic timer release module. Each weapons mount shall be installed on a Santa Cruz adjustable rail mechanism and shall have an adjustable butt plate to secure the weapon. There shall be four (4) separate momentary push button releases, one for each weapon lock. Weapons to be secured are two (2) AR-15 with 30 round magazines and Trijicon MRO optics and two (2) Mossberg 590 Pump Action shotguns.

BIDDER COMPLIES: YES NO

4.6.4 FIRE EXTINGUISHER

There shall be two (2) mounts to hold customer supplied Amerex 2.5 gallon fire extinguishers. These mounts will be next to the weapons locks in section 4.6.3

BIDDER COMPLIES: YES NO

5.0 EXTERIOR

5.1.1 FRONT PUSH BUMPER:

The original equipment front bumper shall be removed and replaced with a custom unit designed for pushing vehicles. This bumper shall be fabricated from 0.25" thick steel. The unit shall follow the front contour of the grille and wrap



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around the sides of the vehicle to the front wheel well area. The face of the bumper shall have two air ventilation holes and large access holes enabling a chain with the clevis hook to be easily secured to the front tow hooks by a gloved hand. On the face of the bumper shall be a 0.5” UHMW Teflon style material, black in color. This push pad shall be one piece and wrap around with the sides of the bumper and stop at the wheel wells, no exceptions. The use of thinner material and rubber face instead of Teflon shall be unacceptable. It shall be attached to the bumper with recessed fasteners so when pushing they cannot catch on the vehicle or object being pushed. The bumper shall be mounted directly to the frame of the vehicle and include a channel steel support from the outer edges back to the chassis behind the front tires. This bracket shall not interfere with the turning radius of the vehicle.
BIDDER COMPLIES: YES NO

5.1.2 GRILLE GUARD:

On top of the push bumper shall be a heavy duty guard to protect the grille from damage. The grille protection section shall be bolted to the top of the bumper with grade 8 hardware and be fabricated out of 0.25” by 2” steel flat stock. The grille unit shall protect the grille and headlight area without interfering with bulb or headlight replacement. Steel guides 24” tall made from 3/8 smooth steel rod welded on the grille guard and the top 4” painted blue.
BIDDER COMPLIES: YES NO

5.1.3 BUMPER AND GRILLE



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GUARD FINISH:

Because the front bumper will be used in an extreme duty application, the entire bumper and grille guard shall be primed and finished in a two component, spray in place, 100% solids, thermoplastic polyurethane and pleurae covering similar to that used in spray on bed liner applications. This will provide a more durable, scratch resistant finish. Color shall be black.
BIDDER COMPLIES: YES NO

5.1.4 WINCH:

A warn 12,000 lb winch will be permanently mounted in the front push bumper. Fairlead and roller assembly will be incorporated in the construction of the front bumper. The winch remote will be located in the cab area of the truck near the driver seat floor area. The winch shall be turned on and off by means of a heavy duty battery switch, located in the cab. A pilot light shall notify the user when the winch is powered on.
BIDDER COMPLIES: YES NO

5.2 TRAILER HITCH:

Integrated into the rear of the vehicle bumper and frame shall be a class 5 receiver hitch rated at 12,000 pounds shall be installed under the rear bumper and shall not protrude more than $\frac{3}{4}$ " past the bumper. Included shall be a combination 4 pin and 7 pin trailer connections at the rear near the hitch with a protective cover.
BIDDER COMPLIES: YES NO

5.3 MUD FLAPS:

The front fenders shall have OEM molded mud flaps. The rear mud flaps shall be installed on the rear body behind each tire and be $\frac{3}{8}$ " thick rubber. Flaps shall be of a sufficient size to cover the tread



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surface of the tires. To keep the flaps from hitting the exhaust, each rear flap shall have a 0.187” thick anti-sail backing plate to keep them steady. Stainless steel hardware must be utilized for attachment.

BIDDER COMPLIES: YES NO

5.4 REAR WHEEL FLARES:

Rubber fenderettes shall be mounted to the body on each rear wheel well opening. Flares shall be bolted to the body using stainless steel bolts and nylon locking nuts. Flares shall protrude 2 ½ from the body.

BIDDER COMPLIES: YES NO

5.5 TOW EYES:

Two (2) large black steel “closed ring” tow eyes shall be installed on the rear of the body and tied into the rear framework of the vehicle for pulling or towing as needed.

BIDDER COMPLIES: YES NO

5.6 EXHAUST TURN DOWNS:

Two (2) turn down pipes shall be installed that extend to the rear outside of the body to deflect exhaust. These turn downs will be clamped onto the existing exhaust system and will not affect the factory emissions system or OEM warranty.

BIDDER COMPLIES: YES NO

5.7 PAINT:

The entire rear body shall be prepared as per the manufacturer’s specifications to ensure a durable finish. The entire body shall be wiped down with a preparation cleaner and a wax and grease remover. A urethane primer shall be sprayed on the entire body and under where all aluminum diamond plate will be applied. Two coats of automotive high



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quality urethane paint shall be applied in an EPA approved paint booth for best adhesion and quality. Cab jambs and under hood will be painted.
BIDDER COMPLIES: YES NO

5.7.1 PAINT SCHEME:

Exterior paint shall be laid out as follows

CAB PAINT SCHEME: Two tone, OEM chassis color black. Doors and roof will be white.

BODY PAINT SCHEME: Two tone, white upper and black lower. Winning bidder will consult with the customer to finalize final paint scheme.

BIDDER COMPLIES: YES NO

5.7.2 BED LINER COATING:

The entire interior of the body compartments, rear ladder, front bumper and entire roof of vehicle will be prepared and coated with a spray-in bed liner similar to Rhino or Scorpion to provide a heavy duty durable finish. Rear ladder and front bumper to be black and interior compartments to be dark gray in color. ADD Bed liner to the top of the box for no slip

BIDDER COMPLIES: YES NO

5.7.3 LETTERING & GRAPHICS:

To match existing fleet. Customer will supply door Logo's. Winning bidder will consult with the customer to finalize the graphics design. Drawings will be supplied for approval showing the paint scheme with the graphics design.

BIDDER COMPLIES: YES NO

6.0 BODY CONSTRUCTION



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6.1 BODY CONSTRUCTION OVERVIEW

The body shall be 100% water tight and be designed and engineered specifically for a high profile law enforcement agency with inner city response and be constructed to meet the heavy duty cycle of the emergency services. The body shall be a custom built stand-alone A60 Galvaneal steel module with all compartments fully welded to seal each compartment from the outside elements. Commercially built bodies that don't meet these specifications shall not be acceptable and shall be rejected.

DIMENSIONS: Length: 108" Width: 93"
Height: 78" W/ Ladder Chute
BIDDER COMPLIES: YES NO

6.2 MOUNTING OF THE BODY:

The body will be mounted to the vehicle with eight 5/8, steel "U" bolts resting on oak sills supported by 1-1/2" x 3" x .250" structural running the full length of the chassis rails.
BIDDER COMPLIES: YES NO

6.3 DIAMOND PLATE PROTECTION PACKAGE:

The body will have 0.125" polished aluminum diamond plate secured to the steel body with stainless steel mounting hardware and nylon locking nuts. Diamond plate shall be secured after the area has been painted and to include a nylon type material where attaching hardware is installed to protect oxidation due to dissimilar metals. These areas include the entire front of the body behind the cab, rear around each rear wheel and the lower 12"



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of all side compartments. The entire roof shall use NFPA non slip aluminum diamond plate which shall turn down the sides and be bent to a 30-degree angle to deflect the water and rain from the top ends of the compartments. The rear of the vehicle 12” high across the rear of the vehicle above rear bumper each side of the center grip strut. All walk on diamond plate surfaces shall be non-slip NFPA style diamond plate.

BIDDER COMPLIES: YES NO

**6.4 REAR STEP BUMPER
CONSTRUCTION:**

The rear bumper will be constructed of aluminum diamond plate with a grip strut center section and each end roll formed into an aluminum diamond plate removable bumper end. Rubber dock style bumpers are included on each end. The substructure is constructed with steel channel for strength and is welded directly to the chassis frame and there is an aluminum diamond plate kick plate under the rear doors. Top surface of the bumper shall be non-slip ATA treadplate.

BIDDER COMPLIES: YES NO

**6.5 COMPARTMENT DOOR
CONSTRUCTION:**

Compartment doors shall overlap the actual body compartment opening and include a 3-point hinge mounting system. Each hinge attachment point shall be bolted to the body with stainless steel tamper proof bolts with nylon locking nuts on the back side. All compartments shall be 100% water tight. The inside door panels shall be .125” aluminum diamond plate with removable panels to access the door hardware for repairs and or adjustments. All



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doors shall include Paddle handle style locks with cam and striker bolts. Each compartment lock shall be fitted with a power door lock mechanism to allow the body doors to be locked and unlocked with the same key fobs and switches used in the cab for the OEM chassis doors. Each door jamb is fabricated to accept rubber automotive tube type gaskets.

BIDDER COMPLIES: YES NO

6.5.1 COMPARTMENT SHELVES:

All interior compartment shelves are constructed out of .125" Galvaneal steel with the front and rear edges bent to a 90-degree angle. All shelving shall include Turtle tile matting secured as one piece and cover the entire shelf. A two inch (2") round hole will be cut in each shelf so electrical charging wires can pass through. A grommet will be installed to protect the wires.

BIDDER COMPLIES: YES NO

6.5.2 RUB RAIL:

One solid length of High Density Polyethylene Composite 2" thick by 2" wide will serve as a rub rail and be mounted along the bottom of the body under the doors to protect the lower body and one single piece above the doors the length of the body. Each end shall be tapered at 45 degrees and the entire rail shall be secured to the body with 1/4" stainless steel hardware with nylon locking nuts bolted through the body every 6" flush with the exterior surface. The use of multiple pieces shall be unacceptable.

BIDDER COMPLIES: YES NO



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6.5.3 MASTER BAR LOCK:

Sliding bar lock in the forward upper corner of the L3 and R3 compartment with an “S” hook tethered to the compartment to internally lock the compartments forward of these compartments.

BIDDER COMPLIES: YES NO

6.5.4 FUEL FILLS:

Cast aluminum frames with doors and no lock shell be in place for all fuel fills.

BIDDER COMPLIES: YES NO

6.5.5 LADDER:

Custom steel ladders on rear of the body attached to the bumper and the upper portion of the body. One per side, two total. On the roof shall be dual grab rails constructed of non-slip material to aid access to the roof.

BIDDER COMPLIES: YES NO

6.5.6 WHEEL WELL LINERS:

The rear wheel wells shall be a sufficient size to accommodate the use of tire chains or other traction devices if necessary. Each rear wheel well housing shall include full wheel well liners securely welded in place. The liners shall be aluminum.

BIDDER COMPLIES: YES NO

7.0 COMPARTMENTS

Individual compartment layout and detail below.

7.1 FWD COMPARTMENT L-1:

The street side area of the body forward of the rear wheels and behind the cab is 44 inches deep and 32 inches wide. Included are 2 adjustable shelves supported by 6 heavy-duty shelf standards. The forward wall of the compartment shall have diamond plate protective covers to protect electrical components and wiring. At the bottom of the



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compartment shall be a 1/2" angle to keep the tiles in place.

BIDDER COMPLIES: YES NO

7.2 FWD COMPARTMENT R-1:

The curb side area of the body forward of the rear wheels and behind the cab is 44 inches deep and 32 inches wide. Included are 2 adjustable shelves supported by 6 heavy-duty shelf standards. The forward wall of the compartment shall have diamond plate protective covers to protect electrical components and wiring. At the bottom of the compartment shall be a 1/2" angle to keep the tiles in place.

BIDDER COMPLIES: YES NO

**7.3 TRANSVERSE COMPARTMENT
L-2/R-2:**

Full depth with two vertical swing doors. Including one adjustable shelf 60 inches deep each side set back 16 inches and 18 inches from floor. The shelf shall be supported with eight adjustable tracks and be covered on each side by a 2" nylon drop down cargo net on each side with seat belt buckles at the top for quick access to the shelf. At the bottom of the compartment shall be a 1/2" angle to keep the tiles in place.

BIDDER COMPLIES: YES NO

7.3.1 DUAL DIRECTION SLIDE

A heavy duty dual direction slide shall be installed on the floor of this compartment with 1000-pound capacity. Slide type shall be Slidemaster by Innovative industries or similar. Slide shall be capable of moving out the L2 or R2 compartment door. On top of the slide shall be a 3/16" aluminum tray with 2" lip on all four sides. Tray shall be



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coated with the same bed liner material used on the interior compartment walls.

BIDDER COMPLIES: YES NO

7.4 REAR COMPARTMENT L-3:

The street-side area of the body rear of the rear wheels shall be 14 inches deep and include three adjustable shelves. The rear wall of the compartment shall have diamond plate protective covers to protect electrical components and wiring. Forward compartment bar lock shall be positioned at the top of this compartment. One 18-inch stop sign shall be mounted low on the inside door panel.

BIDDER COMPLIES: YES NO

7.5 REAR COMPARTMENT R-3:

The curb-side area of the body rear of the rear wheels shall be 14 inches deep and include three adjustable shelves. The rear wall of the compartment shall have diamond plate protective covers to protect electrical components and wiring. Forward compartment bar lock shall be positioned at the top of this compartment. One 18-inch diameter reflective “stop” sign shall be mounted low on the inside door panel.

BIDDER COMPLIES: YES NO

7.6 REAR COMPARTMENT:

The area of the body at the rear of the vehicle between the rear compartments shall be 28 inches deep and be multi-compartmental. On the street side there will be a custom made pull out shelf with three (3) vertical dividers. The pull out shelf will be mounted on a Heavy Duty Accuride stainless steel ball bearing slide capable of holding 350 lbs minimum. Slide shall be lock in lock out type. The steel tray shall be covered with same bed liner



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coating as the interior compartment wall finish and capable of holding two customer supplied Broco entry tools. Above the pull out shelf there will be two (2) adjustable shelves. The curb side will have four (4) vertical dividers to hold customer supplied Poly and Ballistic shields. The shields will be held in place with 2" quick release straps during transportation. The entire area will be covered with same bed liner coating as the interior compartment wall finish.

BIDDER COMPLIES: YES NO

7.7 LADDER CHUTE:

Enclosed compartment on the roof with a solid welded front and a single lift up rear door. The inside edge of the door shall be tapered for clearance for the ladder and Stokes basket storage. The door shall include a center mounted latch matching the side and rear doors and hold open pistons on each side. The compartment shall be divided down the center and the left side shall include a removable horizontal shelf. On the top of the ladder chute and the outer edge of the flat area shall be 2" x 2" x 1/8" aluminum box tubing welded every 12" for ladder leg blocks for a total of four lengths. The ends will be welded closed. On the right upper side of the compartment shall be two, 4 inch PVC pipes with an angle cut on the end. These pipes shall serve to hold long poles and equipment.

BIDDER COMPLIES: YES NO

7.8 COMPARTMENT LIGHTS:

LED strip lights shall be installed behind the door jambs to each side of the compartment door and be full height of the compartment. Each compartment shall include a protected pin switch on each door



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and an illuminated switch on dash marked “DOOR AJAR”. All lighting shall be operated from individual compartment pin switches. Lights shall be protected from loading and unloading equipment.

BIDDER COMPLIES: YES NO

- 7.9 COMPARTMENT MATTING:** All compartment floors and shelves shall be lined with black rubber 12 inch x 12 inch x ½ inch thick minimum emergency vehicle tiles.

BIDDER COMPLIES: YES NO

8.0 COMMUNICATION EQUIPMENT

- 8.1 RADIOS:** No radio installation is required from the bidder, except that two customer supplied radio heads shall be installed into the front equipment console.

BIDDER COMPLIES: YES NO

- 8.2 ANTENNA BASES:** A total of four (4) Motorola ¾ inch brass NMO antenna mounts will be installed on the cab roof and include weather caps. Leads shall terminate in the front equipment console. One (1) additional radio dispatch antenna shall be provided by the end user and installed by FPEV.

All antenna mounts and cable ends shall be marked to identify them apart. Antenna mounts shall be a minimum of 12” apart.

BIDDER COMPLIES: YES NO



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9.0 EMERGENCY LIGHTING & EQUIPMENT

Lighting Note:

All emergency lighting shall be Whelen Engineering, no exceptions. All LED surface mount light heads shall have clear lenses. Exterior body flashers shall be wired through two Whelen UFM8 flasher modules to control the flash patterns.

Low power mode: Exterior warning lights shall be programmed so that their intensity can be reduced to allow for a day/ night mode. This is achieved through the Whelen Cencom Carbide system listed below.

BIDDER COMPLIES: YES NO

9.1 LIGHT BAR:

One Whelen Liberty II Solo Super LED light bar with four corner LED flashers, six forward facing LED flashers, one pair of LR11 LED take downs and one pair of LR11 LED alley lights. The rear of the light bar will be empty because the apparatus body is directly behind it. All light heads shall be either Blue or White. The light bar shall be permanently mounted requiring lowering of the headliner and bolting the mounts through the roof using stainless steel 1/4-20 bolts and stainless washers and nuts. Wiring shall run in locations that will not offer pinch points or areas that the insulation can be scuffed resulting in a short.

BIDDER COMPLIES: YES NO



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9.2 HEADLIGHT INSERTS:

Two LED inserts with chrome flanges shall be mounted to the fender next to each headlight. One per side, two total. LED lights shall be wired to the control system in the front console. LED color shall be white.

BIDDER COMPLIES: YES NO

9.3 GRILLE LIGHTS:

Four Whelen M6 Blue LED lights with black flanges shall be mounted on the upper section of the grille guard recessed back for protection and mounted to steel brackets welded to the grille guard. Four light heads total. These lights must be wired with weather proof connectors so the elements can't affect the wiring or electrical connections. The wiring must be GXL function coded and include a weatherproof connector for easy replacement if necessary.

BIDDER COMPLIES: YES NO

9.4 INTERSECTION LIGHTS:

Whelen M6 White LED lights mounted on custom brackets near the outside corners of the bumper protected by the grille guard. These lights shall be mounted on an angle to be seen from the front and side of the vehicle as it enters an intersection. One per side, two light heads total.

BIDDER COMPLIES: YES NO



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9.5 SIDE FLASHERS:

Whelen M9 Blue LED lights with chrome flanges, two mounted on each side of the ladder chute towards the front and rear, four light heads total. Whelen M6 Red LEDs with chrome flanges mounted in the center of each side, two light heads total. Two additional M6 Red LED lights with chrome flanges shall be located on each side above the rear wheels, two light heads total.
BIDDER COMPLIES: YES NO

9.6 REAR FLASHERS:

Whelen M9 LED lights mounted on the rear of the body wired in an X-Flash pattern. Two blue upper lights and two mid mounted Blue lights with chrome flanges. Two additional M6 Blue LED lights with chrome flanges shall be mounted to the center of the rear doors for additional rear warning.
BIDDER COMPLIES: YES NO

9.7 THIRD BRAKE LIGHT:

Whelen ION Red Super-LED lights mounted on the upper center of the rear compartment doors wired to the brake circuit and shall only activate when the brake pedal is depressed. Two light heads total.
BIDDER COMPLIES: YES NO



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10.0 SCENE LIGHTING

10.1 FRONT ROOF:

Mounted across the front of the body shall be Whelen Pioneer Plus dual flood/ spot surface mount LED scene lights. These units will be surface mounted and all wiring shall pass into the body from behind the light fixture. Whelen model PCPSM2C with chrome flanges, two light heads total.

BIDDER COMPLIES: YES NO

10.2 FRONT OF BODY:

Two 12 volt DC telescoping lights with Whelen Pioneer LED light heads permanently mounted to the front of the body. Each light shall include the light guards and be wired to an OEM dash switch with a pilot light to alert when they are activated. Lights assemblies shall be Whelen PFA2PB with 86930PB1 side mount poles.

BIDDER COMPLIES: YES NO

10.3 SIDE BODY:

Whelen M9 Series White LED scene lights, one on each side corner of the ladder chute, four light heads total. Whelen model M9LZC with chrome flanges.

BIDDER COMPLIES: YES NO

10.4 TAIL LIGHTS:

Whelen M6 series triple light set in vertical chrome housing mounted on the lower rear of the body. Included shall be a fully populated led Red tail light, Led amber turn signal and LED white back up lights. LED Load module included. All wiring shall be in plastic conduit where exposed to the elements.

BIDDER COMPLIES: YES NO



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10.5 DOT LIGHTS:

LED red and amber DOT lights shall be installed on body per DOT guidelines. Each light shall include armored mounting bracket.

BIDDER COMPLIES: YES NO

10.6 SIREN & SPEAKER:

One (1) Whelen Cencom “Carbide” programmable siren and light controller with three position selector switch and independent switches for other lighting functions. This unit will control the rear arrow functions if included with the conversion and save space on the console for radios and computer equipment. Mounted in the front console of the vehicle.

This controller shall produce full and half intensity output to the light heads for day / night mode.

Two 100-watt Whelen SA-315P speakers with universal brackets shall be mounted behind the front grille of the vehicle.

BIDDER COMPLIES: YES NO

10.7 LOW FREQUENCY SIREN:

A Whelen Howler, low frequency siren mounted on the front of the vehicle. This is a secondary siren which works in conjunction with the primary siren, and provides a low frequency siren tone which can be felt when used in a noisy environment, where a typical siren may not be heard.

BIDDER COMPLIES: YES NO



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10.8 REAR ROOF:

Mounted at the rear of the body roof shall be two (2) Whelen Pioneer Plus Single panel Flood/ Spot LED flood lights, surface mounted. They shall be wired to the electrical system and a switch in the cab. Lighting shall be Whelen model PCPSM1C.
BIDDER COMPLIES: YES NO

END OF VEHICLE SPECIFICATIONS