SHELBY TOWNSHIP
2015 Emergency Rescue Ambulance
Bid Specifications - Ford F450 4x4 Chassis

Notice of Bid

Shelby Township is requesting bids for Two (2) new ambulances on 2015 or newer F-450 4X4 chassis, with a “Liquid Spring” suspension. Included in the bid shall be the trade-in values for two ambulances that are in the current fleet. Information for trade-in vehicles is included in this specification and the vehicles are available for inspection.

The bid responses shall be in the form of two (2) original hardcopies. No faxed or emailed bids will be accepted. Bids will be received in a clearly marked envelope with the words “2015 EMERGENCY RESCUE AMBULANCE” Bids will be accepted by the Township Clerks office until 2:00 P.M., local time, Thursday January 29, 2015 at 52700 Van Dyke, Shelby Twp. MI 48316 at which time they shall be publicly opened and read. Shelby Township reserves the right to reject any or all bids and waive any irregularities in the best interest of the Township.

The proposal, contract forms and specifications are on file and may be obtained on the MITN website at www.mitn.info

Please contact the following by written form (email is acceptable) if you have questions:

Fire Chief Jim Swinkowski (jswinkowski@shelbytwp.org)
SHELBY TOWNSHIP
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BID SPECIFICATION

GENERAL CONDITIONS

PURCHASER: The "Purchaser" who is hereinafter described as an individual, or a group of individuals who represent the interest of a City, Borough, County, Parish, State, or Private enterprise AND has been charged with the responsibility of purchasing one or more emergency medical ambulance(s).

BIDDER: The "Bidder" is hereinafter defined as the ambulance manufacturer and/or it's authorized Representative/Dealer.

PURCHASER'S INTENT

Y___N___
The intent of the specifications supplied herein is to purchase an ambulance with the highest level of quality and engineering excellence. The intent of this vehicle is centered on the patient’s need for pre-hospital care, in conjunction with a safe working environment for the Emergency Medical Personnel. It is the Township’s intent to purchase an ambulance that has an interior constructed welded all-aluminum cabinets, a floor that is not constructed with any wood and an overall construction method that enables the ambulance module to be easily remounted at the end of the chassis’ life. It is also the Township’s intent to purchase an ambulance from a dealer that represents a manufacturer that will be remounting their own product, using the same manufacturing processes and materials that are used in the original manufacturing process. It is understood by the bidder that this is the Townships intent and the bidder 100% meets these requirements.

BID BOND

Y___N___
A Bid Bond is required and must be provided in the bid package

PERFORMANCE BOND

Y___N___
The Shelby Township Fire Department reserves the right to require a performance bond after acceptance of order. Performance bond will be for delivery of the vehicle and meeting all requirements of the specification

LICENSED MICHIGAN VEHICLE DEALER

Y___N___
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If the proposal is being offered through a manufacturer’s Dealer, the dealer must be licensed in the State of Michigan and provide a copy of their dealer license in the proposal.

**BIDDER’S INSTRUCTIONS**

Bidders shall thoroughly examine all drawings, specifications, schedules, instructions and any other documents supplied as part of this invitation to bid and shall make all investigations necessary to thoroughly inform themselves regarding the content of the written specifications, drawings, and instructions supplied herein. No plea of ignorance by the bidder pertaining to the content of the specifications, drawings, schedule, or instructions will be considered by the purchaser on the deadline, if bid submission has occurred. Failure or omission on the part of the bidder to make the necessary examinations and investigations into the content of the specifications AND make all clarifications or explanations of exceptions and conditions that exist or that may exist hereafter shall NOT be accepted as a basis for making variations to the requirements of the purchaser or compensation to the bidder.

**CLARIFICATIONS:** Clarifications shall be written correspondence between the bidder and the purchaser. A clarification shall include the page number, paragraph number, the text with unclear content (as written in the specification) and the definition of the clarification provided.

The Purchaser’s clarifications shall be documented in writing and distributed to all qualified bidders at least two business days prior to the deadline for bid submission.

**EXPLANATION OF EXCEPTIONS**

Bidders may take exceptions to any part of the bid contained herein with a written itemized schedule. The schedule shall include the page number, paragraph number(s), the text that the bidder feels he cannot comply with and an explanation why the bidder feels that the requirement is not in the best interest of the purchaser AND/OR an alternate bidder solution. Alternate bidder solutions may be considered by the purchaser, if the bidder can show the purchaser that the alternate solution is, in quality and quantity, equal to OR better than the specified item. Explanations of exceptions taken must be documented and submitted with the bid proposal on or before the bid submission deadline.

**NO ALTERNATE BIDS TAKING TOTAL EXCEPTION**
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BID PACKAGES SHALL NOT TAKE TOTAL EXCEPTIONS: Bidders are required under this bid invitation to give, for the consideration of the purchaser, a proposal that will comply with the written specifications, drawings, and schedules supplied herein. The specifications supplied represent a compilation of input from all disciplines of users, patients, maintenance and management personnel who are directly affected by the vehicle performance. All the personnel who have direct working contact with the vehicle specified herein base careful consideration pertaining to safety, configuration, construction, and workmanship on working experiences. The intent of this ambulance was created as a result of resolving issues and improvement suggestions that have originated from the personnel most QUALIFIED to make such input.

The purchaser makes no claim that potential issues or improvements are included in the specifications supplied herein. The purchaser will consider any valid concern by any bidder and will consider only minor specification exceptions or alternates of equal or better performance, provided that the exceptions are steered toward meeting the intent AND the exceptions are submitted with the final bid proposal on or before the bid deadline.

CAUTION: A bidder who submits a bid that takes "Total Exception" and makes an offering of some "Standard" or "Stock" unit will be viewed by the purchaser as a bidder who did not make, and is not prepared to make, a valid bid, and is not qualified to manufacture the ambulance as specified herein. Alternate bids shall NOT be considered.

INTER-AGENCY AGREEMENTS (PIGGY-BACK)

It is the intent of this bid document to make available to other government entities, by mutual agreement with the successful Bidder, the right to purchase the same or like equipment and or products, at the prices quoted for the period of the contract. Each Bidder shall indicate in the bid proposal, if the Bidder will honor other political subdivision's orders, in accordance with contract terms and conditions. This procedure is sometimes identified as a "Piggy-Back" Bid.

VENDOR QUALIFICATIONS Y___N___

Regardless of chassis purchased, all bidders shall be members in good standing of the Ford Motor Company Qualified Vehicle Modifier Program (Q.V.M.). Certification verification shall be provided with the bid response. If for any reason the Q.V.M. Certification was withdrawn or suspended by Ford Motor Company within the past five years, the bidder shall supply a full written explanation of the Q.V.M. withdrawal or suspension and any corrective actions taken to regain Q.V.M. Certification.

PRE-CONSTRUCTION CONFERENCE Y___N___

The successful bidder shall be required, prior to manufacturing, to have a Pre-Construction conference with two (2) people designated by the purchaser. This meeting is to be held at the production facility of the manufacturer and if more than 350 miles from the purchaser's location, the transportation shall be by commercial air carrier and individual hotel rooms as well as meals will be supplied.
MID-POINT INSPECTION

A Mid-Point inspection shall be required. Accompanied by a Dealer Representative, two (2) people designated by the purchaser will travel to the manufacturer’s facility for the purpose of inspecting the vehicle for compliance to the specifications and for the overall quality of the vehicle. Inspections shall be scheduled during weekdays, including travel time. If this inspection is to occur at a location more than 350 miles from the purchaser's location, the transportation shall be by commercial air carrier and individual hotel rooms as well as meals shall be provided.

FINAL INSPECTION

A Final inspection shall be required. Accompanied by a Dealer Representative, two (2) people designated by the purchaser will travel to the manufacturer’s facility for the purpose of inspecting the vehicle for compliance to the specifications and for the overall quality of the vehicle. Inspections shall be scheduled during weekdays, including travel time. If this inspection is to occur at a location more than 350 miles from the purchaser's location, the transportation shall be by commercial air carrier and individual hotel rooms as well as meals shall be provided.

PRODUCT LIABILITY INSURANCE

A Certificate of current liability insurance, with a Ten Million Dollar minimum shall be supplied with the bid submission. The certificate of insurance shall bear the insurance carrier's name, address, and phone number. The Certificate shall also bear the name and address of the insured. This document shall contain the coverage schedule, explaining the type of insurance, the policy number, the effective date of coverage, the policy expiration date, and the individual limits of liability.

DRUG FREE WORKPLACE

The bidder shall conduct business as a Drug Free Workplace. The bidder/manufacturer shall provide notice to their employees as required under the Drug Free Workplace Act of 1988. A copy of the bidder's Drug Free Workplace policy shall be furnished to the purchaser upon request.
CHASSIS POOL

The bidder shall be a member of the Ford Motor Company's and/or the General Motor Company's Chassis Bailment Pool, regardless of the chassis specified within this specification. The bidder shall provide a current Ford Motor Company and/or General Motor Company's Pool account number to the purchaser upon request.

PRODUCT TESTING

AMBULANCE MANUFACTURER'S DIVISION: The Bidder shall be a member in good standing with the National Truck Equipment Association (N.T.E.A.) and the Ambulance Manufacturer's Division (A.M.D.) of N.T.E.A. The bidder shall supply a letter with the bid response to verify current membership in both the N.T.E.A. and the A.M.D.

AMD STANDARD 001: STATIC LOAD TEST

A.M.D. 001 - MANUFACTURERS' BODY STRUCTURE TESTING: The ambulance described herein shall be tested to the National Truck Equipment Association's Ambulance Manufacturer's Division, AMD Standard 001 - Static Load Test, except the test weight shall be at least 32,000 pounds. The test results shall be certified by an independent engineering firm not directly associated with the Ambulance Manufacturer. These certified test results shall be supplied to the purchaser upon request.

KKK-A-1822F TESTING CERTIFICATION

The bidder shall provide documentation within this bid proposal, which verifies that all KKK-A-1822F testing is current and certified by an independent engineering firm.

QUALITY ASSURANCE - SPECIFICATION COMPLIANCE

The manufacturer shall inspect and test all systems and electrical loads per Federal specification KKK-A-1822F Section 4. Testing results shall be documented and displayed in the oxygen compartment and supplied with the vehicle delivery handbook.
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NOTE: The purchaser will have zero tolerance towards bidder/vendors who state compliance to specification, but delivers an incomplete product and/or substandard materials and workmanship.

MANUFACTURER OWNERSHIP

Y ___ N ___

It is the intent of the purchaser to work with an ambulance manufacturer that has a long-standing history of building the product that is being proposed. Bidder shall state number of years that the manufacturer has been building the specific make and model of ambulance being proposed, specifically in the manufacturer’s current location:

___________________________________________________________________________________________

NON-COLLUSIVE BID CERTIFICATION

By submission of this bid response, the Bidder and/or Bidder’s authorized representative(s), certify under penalty of perjury, to the best of their knowledge and belief the following:

A. The prices in this bid response have been arrived at independently without collusion, consultation, communication, or agreement for the purpose of restricting competition, as to any matter relating to such prices with any other Bidder or with any competitor, and;

B. Unless otherwise required by law, the prices which have been quoted in the bid response have not knowingly been disclosed by the Bidder and will not knowingly be disclosed by the Bidder, prior to the public bid opening, either directly or indirectly to any competitor, and;

C. No attempt has been made or will be made by the Bidder, for the purpose of restricting competition, to induce any person, partnership, or corporation not to submit a bid response.

DEBARMENT STATUS

Y ___ N ___

By submission of this bid response, the Bidder and/or it's authorized representatives, certify under penalty or perjury, that to the best of their knowledge and belief they are not currently debarred from submitting bids or bidding on contracts from any agency within the home state of the purchaser, nor are they an agent of any person or entity that is currently debarred from submitting bids on contracts by any agency within the home state of the purchaser.
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DELIVERY STATEMENT

The bidder shall state the number of calendar days required for delivery of the completed ambulance, after receipt of an order and receipt of chassis by the manufacturer.

Delivery shall be within _________________ calendar days after receipt of order and receipt of chassis. (State number of calendar days)

REQUIRED DELIVERY ITEMS

REQUIRED DELIVERY ITEMS: Upon a successful bid award, the vendor shall provide the following to the purchaser, upon ambulance delivery:

2. One (1) copy of conversion parts, service, and operational manuals.
3. OEM Chassis Owner's Guide materials as provided by the chassis manufacturer.
4. Two (2) copies of "as built" customized electrical schematics for the ambulance conversion.

PURCHASER'S RIGHTS

ACCEPTANCE OR REJECTION: The Purchaser reserves the right to accept or reject any and all bids as deemed to be in the best interest of the purchaser and is not bound to accept the lowest bid.

BID PROPOSAL TIME LIMITS: All bids submitted to the purchaser shall remain in effect for a minimum period of (60) sixty calendar days.

BID WITHDRAWAL: Only written bid withdrawal requests will be accepted by the purchaser. Bid withdrawals received less than (3) three working days prior to the advertised bid opening will not be accepted.

FORCE MAJEURE

The bidder shall not be charged with liquidated damages or any excess cost when delay in delivery of goods is due to:

Any preference or priority of an allocation order duly issued by a government agency.
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Unforeseeable cause beyond the control and without the fault, of the ambulance manufacturer, or acts of God or of the public enemy, acts of the purchaser, acts of another contractor in the performance of a contract with the purchaser, fire, flood, epidemics, quarantine restrictions, strikes, freight embargoes, and unusually severe weather; and;

Any delays of subcontractors occasioned by any of the causes specified in the two immediately preceding clauses.

MANUFACTURER “MAKES”

Does the manufacturer of the ambulance being offered build only one (1) “make”/”brand” of ambulance/emergency vehicle in its manufacturing/production location? If the manufacturer of the ambulance being bid also produces other “makes” of ambulances (“make” being defined as a separate name, dealer network, or “BRAND”), bidder must supply a list of brands/makes along with a list of product and production differences between these brands/makes.

TYPE I - AMBULANCE - 72" INTERIOR HEADROOM

SPECIFICATION INTENT: Type I 169-inch module, constructed with not less than a 72-inch interior module height, an overall length of 301.5-inches, an overall width of 98-inches and an overall exterior height not to exceed 110-inches.

CHASSIS - FORD F-450 CHASSIS, 189" WB 4 x 4

2015 FORD F450 CHASSIS CAB, 189"WB 4x4 DRW (108 C.A.)

POWERTRAIN / FUNCTIONAL

- Alternators dual heavy duty
- Axle - Front mono-beam axle w/coil spring suspension
- Axle Rear limited slip (4.10 ratio)
- Batteries Dual 750 CCA
- Brakes 4-wheel disc Anti-Lock Braking System (ABS)
- Electronic-Shift-On-The-Fly (ESOF)
- Engine - 6.7L 4 Valve OHV Power Stroke® Diesel V8
- Engine block heater
- Fuel Tank 40 Gallon
- Shock absorbers Heavy Duty gas
- Spare tire & wheel, includes jack
- Springs, rear auxiliary
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- Stabilizer bars Front & Rear
- Stationary elevated Idle Control (SEIC)
- Steering damper
- Steering power
- Tires LT225/70R x 19.5G BSW All-Season
- Transmission Torqshift ®6 speed SelectShift automatic w/overdrive

EXTERIOR
- Bumper front, chrome
- Door handles - black
- Fender vents front
- Glass Privacy
- Grille chrome - 2 bar
- Headlamps dual beam jewel effect
- License plate bracket
- Lights roof/marker clearance lights
- Light under hood service light
- Mirrors manually telescoping trailer tow mirrors w/power heated glass, heated convex spotter mirror & integrated clearance lights / turn signals
- Tow hooks (2) front
- Wheels - Aluminum
- Window rear manual sliding with privacy glass

INTERIOR
- Air conditioning manual
- Air conditioning vents black w/chrome ring
- Audio - AM/FM stereo w/digital clock/single CD/MP3 player & 4 speakers, Auxiliary audio input jack
- Convenience - Auxiliary power point, Coat hooks, RH/LH color coordinated, Dash-top tray, Dome lamp w/dual map lights, RH/LH door activated & I/P switch operated w/delay, Grab handles, Roof ride handles - front passenger
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- SYNC Voice activated communication and entertainment system with 911 Assist and vehicle health reports and compass
- Cruise control (steering wheel mounted)
- Door trim soft armrest/grab handle, upper and lower map pockets & reflector
- Floor covering black floor mat
- Headliner color coordinated molded cloth
- Hood release
- Horn dual electric
- Instrument panel color coordinated w/glove box, (4) air registers w/positive shutoff, power point, and (4) upfitter switches
- Multifunction switch message center w/ice blue lighting (three button message control on steering wheel)
- Mirror rearview 11.5” day/night
- Outside Temperature Display
- Power equipment driver window, door locks & windows w/backlit switches & accessory delay
- 1-Touch up and down driver/passenger window
- Scuff plates color coordinated
- Seat Cloth 40/20/40 split bench
- Steering wheel black urethane w/tilt
- Sun visors color coordinated vinyl, single driver w/covered mirror, single passenger w/covered mirror
- Windshield wipers interval control

SAFETY / SECURITY

- Air bag- Driver & passenger, Frontal and side air bag/curtain, passenger side air bag deactivation switch
- Belt-Minder®- chime& flashing warning light on I/P if belts not buckled
- Safety Belts color coordinated w/height adjustment (front outboard seating positions only)
- Remote keyless entry & perimeter anti-theft alarm
- SOS Post Crash Alert System
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- SecuriLock Anti-Theft ignition
- MyKey

WEIGHT RATINGS

Front GrOut-Side Storage Axle Weight Rating  7000
Rear GrOut-Side Storage Axle Weight Rating  12000
GrOut-Side Storage Vehicle Weight Rating  16,500

ADDITIONAL OPTIONS

The OEM Ford Chassis shall be painted OEM Vermillion red from the factory.

3S  Steel Cloth 40/20/40
653A Preferred equipment package
XLT  Trim Package
47L  Ambulance Prep Package
98R  Operator Commanded Regeneration (OCR)

CHASSIS, CUSTOM - OEM PAINT - VERMILLION RED  Y___N___
The OEM Ford Chassis shall be painted OEM Vermillion red from the factory.

ALUMINUM WHEELS - INCLUDED WITH CHASSIS  Y___N___
Aluminum wheels shall be ordered with the chassis. These will include the hub, hat and lug covers.

FUEL TANK - FULL UPON FACTORY RELEASE  Y___N___
The chassis fuel tank of the completed unit shall be full at time of release from the ambulance manufacturer's facility.

SUSPENSION - LIQUID SPRING  Y___N___
A CLASS®, or Compressible Liquid Adaptive Suspension System, shall be provided and installed. Utilizing a strut, with a compressible fluid as the spring/damping medium, and its sophisticated on-board microprocessor, CLASS® adapts the entire vehicle's response to road variations and the driver. Unlike current steel and air sprung suspension systems, CLASS® can automatically and instantaneously change the spring stiffness and damping at each wheel over a very broad range with minimal power consumption while the vehicle is being driven and without driver intervention. The system shall include an automatic lowering feature, which is activated by
opening the rear patient compartment doors. There shall be a switch near the rear doors which will defeat the lowering feature.

**BATTERY - TWO SYSTEM - F SERIES CHASSIS**

The vehicle shall have a 12 V two (2) battery system rated at 1500 cold cranking amps. Both batteries shall be securely installed in the Ford OEM locations, under the vehicle hood.

**ENGINE BLOCK HEATER - SHORELINE SUPPLIED & SWITCHED**

An engine block heater shall be electrically tied to the vehicle shoreline. There shall be a summer/winter switch consisting of a 15 amp (toggle) circuit breaker, located in the PDQ (power distribution quarters) to disable the block heater in warm weather conditions.

**FLOOR CONSOLE, FRONT - CUSTOM - ALUMINUM**

A custom center floor console manufactured out of aluminum and covered in a black onyx scratch resistant, multi-use polychromatic coating with a clear epoxy finish shall be installed in the cab to Departmental specifications. Final floor console layout shall be approved at a pre-construction meeting.

**BUMPER, FRONT - BUCKSTOP UTILITY w/ WINCH RECESS ONLY**

A Buckstop utility bumper with winch bumper mount shall be installed on the front of the chassis in place of the OEM chrome bumper. The winch mount shall support the mechanical Federal "Q" siren. (No winch is to be provided).

**HEAT SLEDS**

Protective heat shields shall be installed above the exhaust system as recommended by the chassis manufacturer.

**HIGH IDLE SYSTEM, AUTOMATIC**

An aftermarket auto high-idle system shall be provided on the chassis. The high-idle shall be programmed to activate when the transmission is placed in the park position and the parking brake is activated. The system will automatically go to high idle, but will adjust itself as needed for higher or lower idle. If the module heat or a/c is activated the high idle will be over ridden to 1500 rpm.

**MIRRORS, EXTERIOR OEM MANUAL TELESCOPING W/REMOTE & HEAT**

The chassis shall have OEM telescopic trailer tow mirrors with power adjustable flat heated glass and manual adjustable convex glass.

**OEM AUTO-LOCK DISABLED (cab & module doors do not auto lock or unlock)**

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RUNNING BOARDS - STAR PUNCHED DIAMOND PLATE
Y__N__
Aluminum diamond plate running boards with a star punched non-skid surface shall be provided on the cab. The running boards shall be bright dip anodized after they are formed to retain finish and increase corrosion resistance.

OEM WHEELS - WITH VALVE STEM EXTENSIONS - OEM CAST ALUMINUM WHEELS
Y__N__
Chassis shall be ordered with cast aluminum wheels and hub, hat, and lug covers from the OEM manufacturer.

ELECTRICAL SYSTEM - WELDON V-MUX, MICRO PROCESSOR BASED
Y__N__
A Weldon V-MUX 100% solid state microprocessor based multiplex system shall be installed to control the electrical functions. The system shall include load management, load shedding, power modulation, load sequencing capabilities and provide on-board diagnostics with real-time status reporting. The system shall consist of one (1) color control console (Vista) in the cab, one (1) color control console (Vista) in the patient compartment, four (4) control nodes (Hercules), and a cab warning display with video input and monitoring capabilities.

**The system must be a Weldon V-MUX. No exception.**

Bidders who propose any other proprietary electrical system shall be considered as non-compliant.

**Documentation required with bid submission**

Bidder must supply with his/her bid proposal, a listing of not less than 500 ambulances produced with the Weldon v-mux system within the past 5 years. The documentation shall include a production order number, the purchaser’s agency name, and the date the ambulance was delivered.

**Bids submitted without this documentation shall not be considered.**

VISTA IV MCC - PUSH BUTTON
Y__N__
A Weldon V-MUX Vista IV interface module / display screen shall be provided and installed in the cab. The Vista module shall be operated through the use of push buttons.

VISTA IV ACP - PUSH BUTTON
Y__N__
A Weldon V-MUX Vista IV interface module / display screen shall be provided and installed in the patient compartment. The Vista module shall be operated through the use of push buttons.
WARNING DISPLAY - MULTIPLEX ELECTRICAL SYSTEM   Y___N___

A digital warning display shall be integrated into the cab display console and programmed through the multiplex system to provide visual and audible indications for:

Parking brake set condition
Parking brake release condition
Patient status alarm (four color with reset capability)
Individual outside storage compartment "door open" warnings in vehicle outline form.
Low voltage alarm
Low oxygen pressure alarm

DAYTIME RUNNING LAMPS - MULTIPLEX ELECTRICAL SYSTEM   Y___N___

Headlights shall be activated at 30% intensity, for day time operation, when transmission is placed in drive, as a feature of the multiplex system. (if not standard on the chassis)

MASTER CONTROL CONSOLE (MCC) - MULTIPLEX ELECTRICAL SYSTEM   Y___N___

A floor mounted Master Control Console (MCC) shall be located in the cab. The console shall house the siren and the color microprocessor display screen, which will control all the Emergency Warning functions as well as also being able to control the Patient Compartment lighting and module heat/ac functions.

ATTENDANT CONTROL PANEL (ACP) - MULTIPLEX ELECTRICAL    Y___N___

The Attendant Control Panel (ACP) shall contain a color microprocessor screen, which will control all equipment installed in the patient compartment.

ELECTRICAL COMPARTMENT (PDQ) - MULTIPLEX ELECTRICAL SYSTEM   Y___N___

The Power Distribution Quarters (PDQ) shall hold electrical components, (i.e. power distribution nodes, circuit breakers, etc). The electrical compartment shall be enclosed with a lockable, hinged door, located on the partition wall behind the attendant seat.

SPARE CIRCUIT - MULTIPLEX ELECTRICAL SYSTEM   Y___N___

One (1) spare 15 amp circuit shall be provided.

WIRING HARNESS CONNECTORS - MULTIPLEX ELECTRICAL SYSTEM   Y___N___
All wiring harnesses shall be connected via quick connect circular plug connectors.

**RADIO TIE-IN POINTS - MULTIPLEX ELECTRICAL SYSTEM**  
Y___ N___
Radio tie-in points shall be installed and labeled in the lower area of the electrical compartment. The radio tie-in points shall be comprised of insulated terminal stud blocks with one "battery hot" and one "ignition hot".

**EMERGENCY MASTER SWITCH - MULTIPLEX ELECTRICAL SYSTEM**  
Y___ N___
A single emergency master switch shall be supplied for activating all the emergency warning lights and shall be provided on the master control console screen. The emergency master switch will activate the module power automatically. There shall also be an Emergency Master Menu button which shall allow access to individual warning light functions.

**CONTROL PANEL SWITCHES - MULTIPLEX ELECTRICAL SYSTEM**  
Y___ N___
The switches on the master control console and attendant control panel screens shall have dimmable perimeter backlighting for easy identification.

**MODULE POWER SWITCH - MULTIPLEX ELECTRICAL SYSTEM**  
Y___ N___
A module power switch for the electrical system shall be provided on both the master control console and the Attendant Control Panel screens.

**MODULE DISCONNECT - MULTIPLEX ELECTRICAL SYSTEM**  
Y___ N___
An In-Power disconnect with a built-in adjustable timer shall be installed to keep the module power switch engaged for five minutes, after the ignition is switched to the "off" position. This disconnect can also be activated from the side and rear doorways to turn on the fluorescent check-out lights.

**VOLTMETER - MULTIPLEX ELECTRICAL SYSTEM**  
Y___ N___
One (1) digital voltmeter shall be provided on the master control console screen.

**FLASHER - MULTIPLEX ELECTRICAL SYSTEM**  
Y___ N___
The flasher shall be provided within and programmed by the multiplex electrical system.

**FLASHING HEADLIGHTS - MULTIPLEX ELECTRICAL SYSTEM**  
Y___ N___
The headlights (high beams) shall be programmed through the multiplex system to alternate flash (wig-wag), activated by a switch on the master control console screen labeled "Flashing Headlights", with the ignition on and module power and emergency master switches enabled. The flashing headlights are to be disabled when the low or high beams are activated. They are also disabled when the transmission is placed in the neutral/park
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position. The flashing headlights shall have the capability to be reactivated with the "park override" switch in the "on" position if the low and high beams are off.

PARK OVERRIDE - MULTIPLEX ELECTRICAL SYSTEM  Y___ N___
A park override switch, located on the master control console screen, shall reactivate all lights disabled when the transmission is placed in the neutral/park position.

LOAD MANAGER-SEQUENTIAL SWITCHING SYSTEM - MULTIPLEX ELECTRIC  Y___ N___
The load manager-sequential switching system shall be controlled by the microprocessor based electrical system. The emergency master switch shall control the sequential switching of the emergency lights and/or other warning devices. The load manager shall automatically shed not-critical electrical loads during low voltage conditions to help prevent electrical system overload when the vehicle is stationary and the transmission is in the park position.

WARNING LIGHTS SWITCH - MULTIPLEX ELECTRICAL SYSTEM  Y___ N___
All flashing module warning lights shall be operated from a single switch on the master control console screen, labeled "flashers".

FRONT CLEAR DISABLE SWITCH - MULTIPLEX ELECTRICAL SYSTEM  Y___ N___
Activation of the switch on the master control console screen shall disable all forward facing clear warning lights.

CURBSIDE SCENE LIGHTS "ON" WITH CURBSIDE DOOR - MULTIPLEX EL  Y___ N___
The curbside scene lights shall be programmed to activate when the curbside door is in the open position.

REAR SCENE LIGHTS "ON" WITH REAR DOORS OPEN - MULTIPLEX ELEC  Y___ N___
The rear scene lights shall be programmed to activate when the rear doors are in the open position.

DISABLE SWITCH FOR REAR SCENE LIGHTS - MULTIPLEX ELECTRICAL  Y___ N___
A disable switch shall be installed at the rear door area to disable the rear scene lights.

DISABLE SWITCH FOR SIDE SCENE LIGHTS - MULTIPLEX ELECTRICAL  Y___ N___
A disable switch shall be installed at the curbside door area to disable the curbside scene lights.

REVERSE (TRANSMISSION) FUNCTIONS - MULTIPLEX ELECTRICAL - PROGRAMMING  Y___ N___
The system shall be programmed to provide activation for the rear scene lights, and the rear side scene lights, when the transmission selector lever is placed into "reverse" position.
AIR HORN-BUELL DUAL TRUMPETS 10" & 12" THRU BUCKSTOP BUMPER w/ FOOT & LANYARD

A Buell air horn system with dual trumpets, one (1) 10" and one (1) 12", shall be mounted through the front Buckstop bumper, one (1) each side. The compressor shall be installed in OUT-SIDE STORAGE #2. The air horns shall be activated by a push button switch located on the MCC (master control console) or by a lanyard cable installed in the OEM cab headliner area or by the foot switch located on the driver’s side floor.

BACKUP ALARM

An (OSHA approved) back up alarm shall be installed with disable switch for silent backing. The disable switch shall be located on the MCC (master control console). The backup alarm system shall automatically reset to the "on" mode when the transmission is taken out of reverse.

CAMERA REAR VIEW - SINGLE SYSTEM - VISTA SCREEN

A color camera system connected to the cab Vista display screen shall be installed, providing rear view monitoring to the rear exterior of the module. The camera shall be connected to the video input provided in the cab's Vista screen. This camera image shall automatically be displayed on the MCC Vista when the vehicle is placed in reverse. The Vista shall resume normal operation when the vehicle is taken out of reverse.

ELECTRICAL CIRCUITS

All electrical circuits shall have wiring and circuit protection suitable to the demand and must meet the national electric code (NEC) wiring requirements.

All added on wiring (18 GA through 10 GA) shall be color coded and stamped with code numbers and functions every 4" for easy identification (all other wiring shall be color coded). SLX high temperature thermoplastic crOut-Side Storage link wire shall be used.

SGX insulated cable shall be used for all under hood / underbody battery and charging system cable. High temperature (375°F) thermoplastic loom shall be used on all harnesses.

GROUND FAULT CIRCUIT INTERRUPTER (GFCI)

A 125 VAC, 20 AMP circuit breaker with ground fault circuit interrupter (GFCI) electronic ground leakage detection shall be installed in the load center for the shoreline circuit.

INVERTER, VANNER - 1050 WATT, #20-1050CUL-DC CHARGER

A Vanner 20-1050CUL-DC, 1050 watt inverter with battery conditioner/charger, with remote switch, shall be provided and installed.
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LIGHT, ATTENDANT CONTROL PANEL AREA Y___N___
A 16" fluorescent light, with integral switch, shall be mounted above the left wall forward action area counter under the # 2 streetside cabinet.

LIGHT, ELECTRICAL COMPARTMENT (PDQ) Y___N___
A 12 VDC light shall be located in the electrical compartment. The light shall be wired "battery-hot" to activate when the power distribution quarter’s door is in the open position. The light shall be off when the door is in the closed position.

LIGHT, MAP LIGHT LED 18" WITH FLEXIBLE NECK & RED/WHITE LED Y___N___
A Littlite® (LF18TSB-LED) LED high intensity map light shall be installed on the console located in the chassis cab. Littlite® is a sleek, low profile gooseneck lamp that efficiently produces light in a concentrated area and can easily be aimed exactly where you need it. Made of sturdy metal and finished in durable black, baked enamel. The stylish, finned hood dissipates heat and extends surface life. The units are equipped with a permanently attached gooseneck that extends from either the end or top of the chassis and are controlled by an on/off switch.

LED Littlite lamps for console lighting are composed of red and white LEDs, which eliminate the need for a red filter. LED units offer choice of Red or White light from toggle switch selector.

LIGHT OUT-SIDE STORAGE COMPARTMENT - LED ROPE Y___N___
Each outside storage compartment shall be equipped with LED rope lighting which shall be located across the top and down both sides of the door opening, activated by a magnetic switch.

LIGHT, SPOTLIGHT - HAND-HELD - OPRONICS - BLUE EYE Y___N___
One (1) 12 VDC #KB-4003 hand-held spotlight with a 400,000 candle power "blue eye" bulb, 10 foot coil cord, and momentary switch shall be provided. The spotlight shall be hard wired to the cab master control console. A black ABS vacuum-formed spotlight holder shall be shipped loose with the completed ambulance.

OUTLETS, 125VAC - (3) INTERIOR DUPLEX Y___N___
Three (3), 2-wire +plus ground 125 VAC hospital-grade duplex outlets shall be installed in the patient compartment with wiring connected to the shoreline. Two (2) outlets shall be installed in the street side action area, one (1) forward and one (1) rearward, to supply 125 VAC to the monitoring equipment. The third outlet shall be installed in the lower front wall cabinet. An indicator lamp shall be located within each 125 VAC outlet as a line monitor to indicate a live circuit. The outlets shall be labeled, "125 VAC".

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OUTLETS, 12VDC - TWO (2) INTERIOR POWERPOINT

Two (2) 12 VDC power point outlets shall be installed in the patient compartment, one (1) in the front wall equipment area, and one (1) in the attendant control panel area in the street side cabinet. The outlets shall be labeled, "12 VDC". A Schottky diode medical isolator shall be provided to protect the 12 VDC outlets.

RADIO ANTENNA BASES - THREE (3)

Three (3) antenna bases with attached coax cables shall be installed on the module roof. Two (2) of the coax cables shall terminate in the PDQ, one (1) of the coax terminations to be determined at the pre-construction meeting. Access to the antenna bases shall be through adjacent module interior dome lights.

RADIO TIE-IN POINT - (2) 12V/25 AMP- CAB CONSOLE & PATIENT COMPT

One (1) set of 12 volt/25 amp radio tie-in points shall be installed in the cab console area of the unit. The set shall include one (1) “Battery Hot”, one (1) “Ignition Hot”, and one (1) “Grounded” junction stud.

One (1) set of 12 volt/25 amp radio tie-in points shall be installed in the patient compartment attendant control panel area of the unit. The set shall include one (1) “Battery Hot”, one (1) “Ignition Hot”, and one (1) “Grounded” junction stud.

RECEPTACLE SHORELINE INLET-SUPER 20 AMP, AUTO EJECT

A Kussmaul super auto eject shoreline inlet receptacle with yellow cover shall be installed on the module exterior (forward street side) near the driver’s door. The receptacle shall be equipped with an integral dynamic disconnect.

The 125 VAC, heavy duty 20-amp circuit breaker shall have GFCI protection and shall be connected to the lighted 125 VAC patient compartment outlet(s). A mating connector shall be shipped loose with the completed ambulance.

SIREN, FEDERAL MECHANICAL "Q" SIREN - DIAMOND PLATE BUILD-OUT w/ RUBBER BUMPERS

A Federal Mechanical "Q" siren shall be recessed installed in the Buckstop front bumper on the chassis. The front bumper shall be equipped with forward facing rubber dock type bumpers to absorb contact with other vehicles and equipment.
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SIREN, WHELEN 295-HFSA7-REMOTE WITH MICROPHONE Y___N___

A Whelen 295-HFSA7 remote dual siren amplifier shall be flush-mounted in the master control console located in the cab. The siren shall be capable of hands-free operation and shall be equipped with a noise canceling microphone. Some features of this siren include:

DUAL 200 WATT, FLUSH MOUNT SIREN with REMOTE SIREN AMPLIFIER

• Six function siren plus radio repeat and public address.
• Operates two 100-watt speakers.
• Operates in dual (outputs 2 independent siren tones creating rich harmonic dual tone sound) or mono sound modes.
• External dip switch programmable siren tones.
• PTT (push to talk) switch on microphone overrides all siren functions.
• Removable unidirectional microphone with adjustable microphone volume & adjustable preset radio repeat volume.
• Si TEST®, silent diagnostic test.
• Quick disconnect plug for ease of service or replacement.

12 Siren Tones

• Airhorn • Wail • Yelp • Piercer • Manual Coast to Stop
• Manual • Mechanical Coast to Stop • Hi/Low • Yelp 249
• Warble • Whoop • Mechanical Tone

SIREN SPEAKERS, WHELEN SA315 - IN THE BUMPER OPENING Y___N___

Whelen dual 100 watt siren speakers shall be installed in the bumper opening.

SYSTEM ACTIVE AND CHECK OUT LIGHTS - 5 MINUTES Y___N___

A switch shall be located at the curb and rear entry doors that will allow activation of the V-MUX electrical system. There shall also be a check out light switch located at the curb and rear doors that will allow activation of the left fluorescent lights prior to entering the module. The system shall be programmed to shut down automatically after 5 minutes unless the ignition is on. This shutdown delay shall be user adjustable.
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<table>
<thead>
<tr>
<th>LIGHTS, DOME LED (8) - PATIENT COMPARTMENT CEILING</th>
<th>Y___ N___</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eight (8) Tecniq (E08-LC1-0-1) 18 LED dome lights, shall be provided in the patient compartment. The dome lights shall be controlled by separate switches for the left bank and right bank of lights. The dome lights shall be activated by switches on both the attendant control panel and the master control console. The dome lights shall be illuminated at 50% power whenever the patient compartment side or rear doors are opened.</td>
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<thead>
<tr>
<th>LIGHTS, TECNIQ LED PANEL (5) STREETSIDE - ANGLED</th>
<th>Y___ N___</th>
</tr>
</thead>
<tbody>
<tr>
<td>Five (5) Tecniq (E30-L010-1) 21 LED lights shall be mounted on the angled panel above the streetside interior cabinets. These lights shall be three way switched from the attendant control panel and the master control console.</td>
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<tr>
<th>LIGHTS, ICC / LED CLEARANCE - WITH CHROME BEZELS ON MODULE FRONT</th>
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<tbody>
<tr>
<td>The vehicle shall have five (5) amber surface mounted Peterson MFG LED clearance / ICC lights with chrome bezels on the front of the module near the roof line.</td>
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</tbody>
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<thead>
<tr>
<th>LIGHTS, ICC / LED CLEARANCE - WITH CHROME BEZELS ON MODULE REAR</th>
<th>Y___ N___</th>
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</thead>
<tbody>
<tr>
<td>The vehicle shall have five (5) red surface mounted Peterson MFG LED clearance / ICC lights with chrome bezels on the rear of the module near the roof line.</td>
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<thead>
<tr>
<th>LIGHTS, UNDERBODY SIX (6) TECNIQ LED - LOCATED UNDER MODULE</th>
<th>Y___ N___</th>
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</thead>
<tbody>
<tr>
<td>There shall be six (6) Tecniq E10 white LED lights mounted on brackets underneath the module. The lights shall turn on automatically when the vehicle is shifted into park. The lights may also be activated or disabled by a switch on the MCC Vista display screen labeled &quot;Underbody Lights&quot;.</td>
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<thead>
<tr>
<th>LIGHTS, FRONT GRILLE - (2) WHELEN 500 SUPER LED - RED W/CLEAR LENS</th>
<th>Y___ N___</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two (2) Whelen 500 series red super LED warning lights, with clear lens and waterproof connectors shall be installed in the grille area of the chassis. The lights shall operate from a switch on the master control console labeled &quot;Flashers&quot;.</td>
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</tbody>
</table>

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<tr>
<th>LIGHTS, FRONT MODULE-WHELEN (7) 900 RED/WHITE SPLIT SUPER LED</th>
<th>Y___ N___</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seven (7) Whelen Red/White split Super LED warning lights with chrome bezels shall be installed on the module front with individual light layout to Departmental specifications. All lights shall have clear lens. The lights shall operate from a switch on the master control console, labeled &quot;Flashers&quot;.</td>
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</table>

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<tr>
<th>LIGHT FRT, WHELEN-PIONEER PLUS PFP2 SUPER LED LIGHT HEAD w/PBA203 CHROME HOUSING</th>
<th>Y___ N___</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Whelen Pioneer PFP2 SUPER LED lighthouse shall be installed on the module front. Light shall be installed in a PBA203 chrome housing.</td>
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</table>
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LIGHTS, REAR TAIL - WHELEN 600 LED STOP, TURN, HALOGEN BK-UP  Y___N___
One (1) pair each of Whelen 600 series LED stop/tail lights, turn lights, and halogen back-up lights with chrome bezels shall be installed on the rear of the module.

LIGHTS, REAR WINDOW-LEVEL - WHELEN (2)900 LED - RED W/CLR LENS  Y___N___
Two (2) Whelen 900 series red super LED warning lights with clear lenses and chrome flanges shall be installed on the rear of the module at window level, one (1) on each side. These lights shall operate from a switch on the master control console, labeled "Flashers".

LTS, REAR MODULE-WHELEN (5)900, (2)RED, (1)AMBER LED, (2)LED SCENE w/ CLR LENS  Y___N___
Two (2) Whelen 900 series red super LED warning lights with clear lens, two (2) Whelen 900 series 24 diode LED scene/load lights, and one (1) Whelen 900 series amber super LED warning light with clear lens shall be installed on the rear of the module. The lights shall be installed with chrome flanges and shall be operated from switches on the master control console labeled "Flashers" and "Rear Scene Lights".

LIGHT, LICENSE PLATE LED  Y___N___
One (1) Whelen OACOEDCR LED license plate light with 45 deg angled chrome-plated bezel shall be installed on the rear of the module, lower left side.

LIGHTS, ICC / LED CLEARANCE - WITH CHROME BEZELS ON MODULE SIDE  Y___N___
The vehicle shall have surface mounted Peterson MFG LED clearance / ICC lights with chrome bezels: one (1) red on each side at the rear of the vehicle which will also function with the turn signals.

LIGHTS, INTERSECTION FRONT - WHELEN 700 SUPER LED -SPLIT RED/CLEAR  Y___N___
Two (2) Whelen 700 series super LED split red / clear warning lights, with clear lens and water-proof connectors, shall be mounted, in 15 degree tilt housings on the front chassis fenders, one (1) on each side. The lights shall operate from a switch on the master control console labeled "Flashers".

LIGHTS, SIDE MODULE SCENE - WHELEN 900 24 DIODE LED - CLEAR  Y___N___
Four (4) Whelen 900 series (clear 2-40 light spread) 24 Diode LED scene lights with chrome flanges shall be installed, two (2) each module side, inboard of the warning lights. These lights shall operate from switches on the master control console labeled "Left Scene Light" and "Right Scene Light".

LIGHTS, SIDE MODULE WARNING - WHELEN 900 SUPER LED - RED W/CLR LENS  Y___N___
Four (4) Whelen 900 series red super LED warning lights with clear lenses and chrome flanges shall be installed, two (2) each module side, outboard of the side module scene lights. These lights shall operate from a switch on the master control console labeled "Flashers".
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LIGHTS, INTERSECTION REAR - WHELEN 700 SUPER LED -SPLIT RED/CLEAR Y___N___

Two (2) Whelen 700 series super LED split red / clear warning lights with clear lenses, chrome bezels and waterproof connectors, shall be installed above the rear wheel wells, one (1) on each side. These lights shall operate from a switch on the master control console screen labeled "Flashers".

MODULE BODY CONSTRUCTION - SEAMLESS Y___N___

The module shall be fabricated entirely of parts cut and formed from .125" (minimum) thickness 5052-H32 flat aluminum sheet stock, using CNC machines capable of .0004" repeatability. This is the only alloy that may be used for body parts that are welded together.

The roll-cage type interior super-structure, aluminum partition and module shall all be welded together into a single unit to give optimum strength for patient and attendant protection. The module roof shall be designed with a minimum 1.5" crown to facilitate water run off.

The floor, roof, sides, and all exterior doors shall be fabricated from .125" (minimum) thick flat aluminum sheet stock. The exterior joints between the roof and side components shall be continuous full seam welded the entire length of the module. All exterior body panel joints shall be continuous full seam welded.

No VHB bonding tape or other adhesives shall be used in the construction of the ambulance module.

AWS ALUMINUM CERTIFIED WELDERS Y___N___

AWS Aluminum Certified Welders shall construct the module.

AWS certificates shall be required to be part of the completed bid packet. Bids without AWS certificates shall be considered non-compliant (no Exception).

CONNECTIONS, MODULE Y___N___

The module shall be bolted to the chassis frame rail with (12) 5/8" -11 grade 8 bolts through OEM rubber insulating spacers installed on outriggers at twelve (12) separate locations (six each frame rail), providing noise insulation and easy removal for chassis replacement. The frame mounting bolts shall be properly torqued and secured with locktite. The system used for fastening the module to the frame shall be that approved by the chassis manufacturer.

ALUMINUM PARTS - MODULE EXTERIOR Y___N___

All unpainted exterior aluminum parts shall be bright dip anodized after fabrication to retain the finish and increase corrosion resistance.
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CORROSION MINIMIZATION - MODULE

Y___N___

All module contact with dissimilar metals shall be minimized with the use of nylon screw-hole inserts to prevent fastener contact with the module body, nylon hinge strips, ceramic coated stainless steel hinge bolts, and ECK brand corrosion inhibitor spray.

DOOR SKINS, OUTSIDE STORAGE COMPARTMENTS - DIAMOND PLATE INTERIOR SKINS

Y___N___

The interior door skins for all outside storage compartments shall be constructed of .063" thick aluminum diamond plate.

DOOR CONSTRUCTION - GASKET PLACEMENT

Y___N___

All exterior hinged module doors shall be constructed in an inverted pan-formed design. The pan shall be constructed from .125" thick 5052-H32 flat sheet aluminum. The exterior door skin shall be constructed of .190" thick aluminum and welded to the pan.

Door gaskets shall be attached to the interior side of the door skin. Gaskets attached to interior door frames are not satisfactory and shall not be accepted.

EXTERIOR COMPARTMENTS DESIGN

Y___N___

All exterior compartments shall include these features:

- Sound absorbing slip resistant polyurethane material shall be sprayed on the inside of all compartments and compartment shelving, slide out trays and closeouts.
- Baffled seep holes shall be provided to prevent water from splashing or seeping into the exterior compartments.
- Full-length, two-way adjustable, stainless steel hinges on all exterior compartment doors with 3/16" stainless steel hinge pins.
- Compartment doors shall be installed, flush with the module body.
- When double doors are provided, each door shall have an exterior handle, but only the forward door shall be lockable. (rearward door is secured when forward door is locked). All exterior compartments and passage doors shall be keyed alike.
- Lockable, Eberhard "free-floating" type chrome plated handles with rotary locks. A gasket shall be installed under each handle to protect the paint.
- Drip rails shall be installed above all exterior compartment doors.
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EXTERIOR COMPARTMENTS, VENTING

Y___ N___
A minimum of nine (9) square inches of venting shall be provided inside the #1, #2, #3, & #4 exterior storage compartments to provide for easier closure of the compartment doors.

EXTERIOR COMPARTMENTS, VENTING - OXYGEN STORAGE

Y___ N___
A minimum of nine (9) square inches of venting shall be provided in the exterior oxygen storage compartment, to dissipate any leaking oxygen gas.

EXTERIOR COMPARTMENTS - SWEEP-OUT

Y___ N___
Exterior module compartments shall be of a sweep-out design to aid in facilitation of the purchaser's routine care and cleaning of the vehicle.

All exterior compartment floors, with the exception of the front ALS compartment shall be constructed to be flush with the bottom door frame.

HANDLES - CHROME FREE FLOATING TYPE

Y___ N___
Eberhard #EMC-1-2110 chrome "free-floating" handles shall be installed on each exterior module door. The handles shall be large enough to accommodate a gloved hand.

INSULATION - POLYURETHANE SPRAY FOAM

Y___ N___
The walls, ceiling, passage doors, outside storage doors, the entire underside of the module floor (except for mounting pads), the underside of the outside storage compartments, the wheel wells, and the underside of the curbside step area shall be completely foam-in-place insulated with nominal 3/4" thick sprayed on class I, urethane foam for thermal and acoustical insulation. The insulation shall comply with FMVSS #302 flame spread requirements. The underside of the body shall be properly prepared to ensure adhesion before the spray insulation is applied.

THRESHOLD, STAINLESS STEEL - EXTERIOR STORAGE COMPARTMENT

Y___ N___
Each exterior storage compartment with a hinged door shall have a stainless steel lower threshold at the door opening to protect the paint as equipment is installed and removed from the compartment.

ZICO SCBA HOLDERS TWO (2) - OUTSIDE STORAGE COMPARTMENT # 3.

Y___ N___
Two (2) Zico SCBA holders shall be provided and installed in a fixed location on the back wall of the # 3 outside storage compartment, below the shelf.

DOCK BUMPERS, REAR

Y___ N___
Formed hard rubber dock bumpers shall be attached to the rear bumper.
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DOOR SLIDING - MODULE CURBSIDE PASSAGE  

The module body shall include a sliding side entry door to access the curbside of the patient compartment. The door shall slide out and towards the rear of the module body. The door design must meet FMVSS 206 for sliding doors and shall have been cycle tested in excess of 100,000 cycles. The door shall not extend out more than 5 1/4" from the module when in the open position and shall be flush in the closed position. The door shall operate on a total of nine (9) casters and three (3) tracks for ease of operation. The door shall be held closed with two (2) rotary latches and two (2) locking tabs. The door must have a system to prevent the door from self closing, when unit is parked on an incline. A measured force of ten (10) pounds maximum shall be required to release the door from the open to closed position. A chrome locking handle shall be installed on the exterior of the door. The door shall be lockable from the inside and outside and shall shut on molded air-core, automotive type door seals to prevent any water from leaking into the vehicle interior. A drip rail shall be installed above the door.

Documentation required: The bidder must submit with this bid proposal a listing of not less than 200 ambulances produced with curbside sliding doors in the past four years. The listing is to include a production order number, the purchaser’s agency name, and date the ambulance equipped with the curbside sliding door was delivered.

Failure to provide the required documentation shall be considered as non-responsive.

LOWERED MODULE SIDES  

Module sides to be as low as possible and still comply with KKK-1822-F ramp break over angle. Lowered sides will allow easier entry into the module as well as increased compartment storage.

DOORS - REAR PASSAGE  

There shall be a 47.50" wide x 59" high rear door opening in the patient compartment. The doors shall be flush without a protruding flange or lip. The right rear passage door shall have a lockable, chrome exterior handle. The left rear door shall have a non-locking, chrome exterior handle. All handles shall be installed with a gasket to protect the paint. The hinge shall be full length stainless steel with a 3/16" stainless steel hinge pin and shall be two-way adjustable. Each rear door shall have a two point slam action automotive type rotary latching system to the body.

The right rear door shall lock to the body at the top and bottom, not to the left rear door. The doors shall have .213" steel door latch activator rods with turn buckle adjusters. The doors shall be lockable from the inside and outside.

All doors shall shut on molded, air-core, automotive type door seals to prevent any water from leaking into the vehicle interior. Each door shall have an access port adjacent to the rotary locks.
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FENDERETTES - POLISHED ALUMINUM  Y___N___
Polished aluminum fenderettes shall be installed around the rear wheel well openings.

HOLD-OPEN - REAR DOORS - GRABBERS  Y___N___
Door grabbers (1 pair) with hard rubber inserts shall be installed on the rear doors, permitting a door hold open position of 180 degrees.

SWITCH DOOR UNLOCK - HIDDEN IN FRONT GRILLE AREA  Y___N___
An exterior hidden door unlock switch shall also be included and located in the front grille area.

LOCKS POWER - PASSAGE, COMPARTMENTS, KEY FOBS  Y___N___
Power door locks shall be included on module passage doors and five (5) outside storage compartments. The locks shall be activated from the interior of the rear door and the curbside doorway, as well as the OEM chassis cab door switches. A keyless entry system shall be installed. The system shall operate with the OEM key fobs to lock/unlock all chassis and module doors.

MUD FLAPS, REAR - BLACK RUBBER FIBERGLASS REINFORCED  Y___N___
Black rubber, fiberglass reinforced mud flaps with a minimum 1/4" thickness shall be bolted to the underside of the module behind the rear wheels. The width and length of the flaps shall provide adequate coverage of the rear dual wheels of the chassis.

REAR STEP/BUMPER - FLIP-UP CENTER SECTION - STAR PUNCHED AND ANODIZED  Y___N___
The rear bumper shall be affixed to the chassis frame. The bumper shall be constructed with a hinged center section. Two (2) steel braces shall secure the step to the chassis frame. The outer 17” on each end of the bumper shall be constructed from heavy gauge stamped polished stainless steel bumper parts and shall provide smooth rounded corners. The step shall be constructed of star punched .125” thick aluminum diamond plate. Two (2) rear LED step illumination lights shall be provided. All diamond plate surfaces shall be bright dip anodized. Rear step installation shall comply with AMD standard 018. A strip of black PVC shall be installed on the face of the step to protect the patient cots during loading.

RUB RAILS, ANODIZED ALUMINUM  Y___N___
Bright dip anodized polished aluminum rub rails shall be installed on the lower sides of the body below the outside compartment sill areas. The rub rails shall be offset 3/16” from the body to facilitate wash down of road debris.

STEPWELL, CURBSIDE DOORWAY - MID STEP AREA  Y___N___
An aluminum diamond plate step well and mid-level step shall be installed in the curbside doorway threshold area.
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STONE GUARDS, MODULE FRONT - ANODIZED DIAMOND PLATE (24" H)  Y___N___
Bright dip anodized aluminum diamond plate stone guards shall be installed on the lower 24" of the module front, one (1) each side. These stone guards shall be 14" wide.

KICKPLATE/THRESHOLD, REAR DOORWAY - ANODIZED DIAMOND PLATE  Y___N___
A bright dip anodized aluminum diamond plate kick plate shall be installed at the rear exterior doorway, providing a kick / scuff plate at the rear of the vehicle above the rear step.

TOW HOOKS, MODULE REAR  Y___N___
Two (2) tow hooks shall be provided in the rear step area and shall be securely fastened to the vehicle frame.

WINDOWS, PASSAGE DOOR - (CURB SLIDING, REAR FIXED)  Y___N___
The curbside passage door shall have a 16" x 23" operable (sliding) window with removable screen. Each rear passage door shall have a 19" x 18" non-operable window. The distance between the rear window glass shall not exceed 6" to assure maximum vision to the rear. The windows shall have a 69% dark tint and shall be secured with black oxide coated fasteners. No warning lights shall be blocked from view when the curbside or rear doors are open.

OUTSIDE STORAGE #1 - STREETSIDE FORWARD - OXYGEN STORAGE  Y___N___
#1 (forward street side compartment) shall have an 77.00" high x 18.25" wide clear door opening with 86.75" high x 24.50" wide x 20.75" deep interior dimensions. This compartment shall provide storage for one (1) "H" oxygen cylinder towards rear of the compartment. The compartment door shall be held open with a spring loaded gas cylinder. A locking handle shall be installed on the exterior of the door keyed the same as all other exterior compartments. A spring-loaded, hinged acrylic door shall be provided to allow access from inside the patient compartment to the oxygen cylinder valve. A 9-square inch vent shall be provided in the oxygen storage compartment to permit leaking gas to dissipate to the exterior of the vehicle. The oxygen cylinder shall be secured with a minimum of four (4) restraining devices, meeting AMD standard 003, oxygen tank retention system requirements. A cylinder changing wrench shall be provided and secured inside the oxygen cylinder compartment. The oxygen cylinder shall be provided by the purchaser.

OUTSIDE STORAGE #2 - STREETSIDE CENTER  Y___N___
#2 (street side center compartment) shall have a 44.25" high x 39.50" wide clear door opening with double doors and shall have 47.75" high x 45.50" wide x 20.75" deep interior dimensions. One (1) fusee holder shall be installed on the inner door skin of the forward compartment door. The compartment shall have double doors held open with a spring loaded gas cylinders. An exterior handle shall be installed on each door. A locking handle shall be installed on the forward door.
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2015 Emergency Rescue Ambulance
Bid Specifications - Ford F450 4x4 Chassis

SHELLE TRACK - EXPOSED - OUT-SIDE STORAGE #2 Y___ N___
Unistrut 1-1/4” x ¾”, 19 gauge channel shall be installed in outside storage compartment #2. These exposed tracks shall be welded in place and coated with Gatorhyde for a cleaner look and no exposed fasteners.

SHELF ONE (1) IN OUT-SIDE STORAGE #2 Y___ N___
One (1) adjustable shelf with sprayed on polyurethane material shall be provided and installed in outside storage compartment #2.

OUTSIDE STORAGE #3 - STREETSIDE REAR - TALL DOOR - EXTERIOR ACCESS Y___ N___
#3 (street side rear compartment) shall have a 63.50” high x 28.75” wide clear door opening with 65.25” high x 32.50” wide x 20.75” deep interior dimensions. This compartment shall have outside access only. The compartment door shall be held open with a spring loaded gas cylinder. A locking handle shall be installed on the exterior of the door.

SHELLE TRACK - EXPOSED - OUT-SIDE STORAGE #3 Y___ N___
Unistrut 1-1/4” x ¾”, 19 gauge channel shall be installed in outside storage compartment #2. These exposed tracks shall be welded in place and coated with Gatorhyde for a cleaner look and no exposed fasteners.

SHELF ONE (1) IN OUT-SIDE STORAGE #3 Y___ N___
One (1) adjustable shelf with sprayed on polyurethane material shall be provided and installed in outside storage compartment #3.

OUTSIDE STORAGE #4A BOARD/SCOOP, #4B W/INSIDE/OUTSIDE ACCESS Y___ N___
#4 (rear curbside compartment) shall have split compartments (#4A / #4B), with a 73.00” high x 24.75” wide clear door opening: compartment #4A shall have 82.75” high x 15.00” wide x 20.75” deep interior dimensions. This compartment shall provide storage for backboards and a scoop stretcher.
Compartment #4B shall have 82.75” high x 13.50” wide x 20.75” deep interior dimensions, equipped with three (3) adjustable shelves and stair chair storage only below the shelves. The compartment door shall be held open with a spring loaded gas cylinder. A locking handle shall be installed on the exterior of the door.

OUTSIDE STORAGE #5 - CURBSIDE FORWARD Y___ N___
#5 (forward curbside compartment) shall have a 69.50” high x 17.50” wide clear door opening. The compartment shall be split into two (2) compartments. #5A provides inside/outside storage and shall have and shall have two (2) adjustable shelves. (Reference the lower front wall cabinet in patient compartment specification for interior dimensions). #5B shall have 19.00” high x 20.25” wide x 18.00” deep interior dimensions. The compartment door shall be held open with a spring loaded gas cylinder. A locking handle shall be installed on the exterior of the door.
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ROUNDED INTERIOR CORNERS Y__ N__
Interior vertical edges shall have rounded corners in the following locations: forward and aft edges of the CPR seat, the wall at the aft end of the squad bench, the partition opening cabinet edges and the upper front wall cabinet.

LATCHES CABINET - CHROME / STAINLESS STEEL Y__ N__
The ACP (attendant control panel) door, the PDQ (power distribution quarters) door, and the radio cabinet door shall be secured with chrome locking lever latches, all remaining interior hinged cabinet doors and drawers shall be secured with Southco stainless steel locking flush pull latches.

CABINET - LEFT WALL, UPPER REAR #1 - RESTOCKING HINGE (UP) Y__ N__
The left wall, upper rear interior cabinet (#1) shall have a door opening of 10.75" high x 31.00" wide with interior dimensions of 13.25" high x 33.00" wide x 17.25" deep. This cabinet shall be enclosed by one (1) set of sliding acrylic doors attached to a flip-up restocking frame with gas filled hold-open shocks. The cabinet shall contain a center divider with one (1) adjustable shelf, each side.

CABINET - LEFT WALL, UPPER OVER PANEL #2 RESTOCKING HINGE Y__ N__
The left wall, upper interior cabinet (#2) above the attendant control panel shall have a door opening of 10.75" high x 45.00" wide with interior dimensions of 13.25" high x 47.00" wide x 17.25" deep. The cabinet shall be enclosed by one (1) set of sliding acrylic doors attached to a flip-up restocking frame with gas filled hold-open shocks. The cabinet shall contain a center divider with one (1) adjustable shelf, each side.

CABINET - LEFT WALL, LOWER REAR #3/#4 - DIMENSIONS Y__ N__
The left wall, lower rear interior cabinets (#3/#4) shall each have a door openings of 15.75" high x 13.75" wide and inside dimensions of 17.50"h x 15.50"w x 17.25"d. Each cabinet enclosed with 3/8" thick, hinged acrylic doors and each equipped with one (1) adjustable shelf.

CABINET - LEFT WALL, #6 - FORWARD ACTION AREA - DIMENSIONS Y__ N__
A cabinet (#6) shall be installed at the forward end of the primary action area. Inside dimensions of 17.00"h x 13.00w and inside dimensions of 18.75"h x 14.75"w x 8.75"d. Cabinet shall be enclosed sliding acrylic doors and equipped with two (2) adjustable shelves.

PRIMARY ACTION AREA Y__ N__
The primary action area shall be located beside the attendant seat with work area dimensions of 48.50" wide x 17.00" deep.
A slide-out drawer with hinged plexi-glass writing table shall be provided in the street side wall beside the attendant seat. The drawer shall be constructed of .090" thick aluminum.

The table writing surface shall be constructed of 1/4" clear plexi-glass which measures 14.25" wide x 11.25" deep. The drawer interior dimensions shall be 4.50" high x 14.50" wide x 13.25" deep. The drawer shall be secured with one (1) latch. The writing surface shall be installed on top of the drawer with a hinge.

The front wall, upper interior cabinet (#1) shall have a door opening of 14.25" high x 25.50" wide with interior dimensions of 16.00" high x 27.25" wide x 20.50" deep. This cabinet shall be enclosed by one (1) set of sliding acrylic doors. The compartment shall contain one (1) adjustable shelf.

The front wall lower cabinet (#2) shall have a door opening of 11.50" high x 25.25" wide with interior dimensions of 13.25" high x 31.50" wide x 21.50" deep. This cabinet shall provide inside access only and be enclosed with solid aluminum doors, secured with a Simplex combination lock on the right door and a stainless steel, non-locking flush pull latch on the left door. One (1) clear light mounted in a removable panel will provide illumination in this compartment. There shall be no shelving or partitions within this cabinet.

The front wall lower cabinet (#3) shall have a door opening of 30.50" high x 25.25" wide with interior dimensions of 32.25" high x 31.50" wide x 21.50" deep. This cabinet shall provide inside/outside access and shall have two (2) adjustable shelves on Unistrut adjustable track brackets. Two (2) clear lights mounted in a removable panel will provide illumination in this compartment. There shall be aluminum beveled ramp edging installed on two edges of each shelf. This compartment shall be enclosed by one (1) pair of 3/8" thick, hinged acrylic doors. Each door shall have a full length hinge, a full length handle, and a locking stainless steel flush pull latch.

The #4 lower center front wall cabinet shall have a door opening of 18.00"h x 16.25"w and inside dimensions of 18.00"h x 16.25"w x 20.00"d. Cabinet shall be enclosed with dual hinged solid aluminum doors, each secured with one (1) stainless steel flush pull latch and equipped with one (1) adjustable shelf.

The compartment below the power distribution cabinet (PDQ) shall have a door opening of 9.00 high x 11.75" wide with interior dimensions of 9.00" high x 11.75" wide x 21.50" deep. The compartment shall have a vented, hinged aluminum door secured by a chrome locking lever latch. Door to open towards rear of the ambulance module.
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PASS THROUGH - CAB TO MODULE

Y___ N___
A window opening shall be provided in the rear of the cab to accommodate pass-through communications to the patient compartment. A bellows shall be provided to connect the cab to the module.

CABINET - RIGHT WALL, REAR WITH (1) DOOR, INSIDE/OUTSIDE

Y___ N___
A storage compartment (#1) shall be provided to the rear of the squad bench and shall be constructed of .125" thick aluminum. The compartment shall face the patient compartment aisle and have a door opening of 30.00" high x 7.25" wide with access to the rear outside storage compartment. The compartment shall be enclosed by a 3/8" thick, hinged acrylic door and latch.

CABINET - RIGHT WALL, BEHIND SQUAD BENCH #3 & # 4 - DIMENSIONS

Y___ N___
Two (2) cabinets shall be installed on the curbside below the roof rail. Door openings of 6.25"h x 29.25"w and a 10.25" depth. Each cabinet shall be enclosed by one (1) top hinged acrylic door, each secured with a stainless steel locking lever latch. The compartments shall be equipped without dividers or shelves.

HEAT/AIR CONDITIONING, PROAIR 4X4 AC/HEAT CORE

Y___ N___
A ProAir IW-3856 580 CFM heater/air conditioner system with 56,000 BTU heating capacity and 38,000 BTU cooling capacity utilizing a 4x4 AC/Heat core and with a 10-speed blower controlled through, the pulse-width-modulated output of the microprocessor based electrical system, shall be provided for high volume air movement with minimal noise. The heater/air conditioner air return shall be filtered to minimize contamination of the heater/air conditioner cores. The cab and module environmental systems shall be simultaneously capable of heating in the front while cooling in the rear and vice-versa. A thermostatically controlled rear system shall be provided for heating and air conditioning the patient compartment.

The temperature, whether heating or cooling, shall be controlled by a thermostat built into the attendant control panel screen, located in the street side cabinet and from the cab master control console screen. Heating and cooling may be selected automatically or manually. The heater/air conditioner system shall function only when the ignition system and the module power switch are on. The rear heater shall have EPDM/Nomex heater hoses. The rear air conditioner shall have barrier air conditioner hoses for R-134A refrigerant. Full module HVAC controls shall be located on both the rear ACP screen and the cab MCC screen.

The module heat and ac system shall be installed in the upper portion of the front wall. Four (4) adjustable heat/ac vents shall be located below the heater/ac.

ATTN SEAT - EVS HiBAC, INTEGRAL CHILD, SWIVEL BASE

Y___ N___
A rear facing EVS HiBAC attendant seat shall be installed at the head of the patient cot. The seat shall be equipped with a sliding swivel base and incorporate an integral child safety restraint system. The seat shall be covered with color coordinated vinyl and equipped with an automatic retracting safety seat belt.
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2015 Emergency Rescue Ambulance Bid Specifications - Ford F450 4x4 Chassis

CPR SEAT - WIDE - W/HINGED SEAT BOTTOM - STORAGE BELOW  

Y___N___  

A 30" wide CPR seat shall be installed on the street side of the patient compartment aft of the main action area counter. The seat, backrest, and sides of the seat shall be covered with color coordinated, cushioned vinyl. The bottom seat cushion shall be hinged with a storage area located below. The interior of the storage area shall be sprayed with sound absorbing polyurethane material. An automatic latching fastener shall be installed to secure the CPR seat lid in the closed position. The seat shall be equipped with a red automatic locking, retractable seat belt.

SQUAD BENCH BASE STORAGE (COMPARTMENT #2)  

Y___N___  

A storage area shall be provided in the squad bench base (compartment #2). The interior dimensions of the storage area shall measure 14.25" high x 77.00" wide x 21.00" deep. The squad bench base shall be constructed of .090" thick aluminum for maximum storage capacity and minimum weight. The interior of the squad bench shall be sprayed with sound absorbing polyurethane material.

CABINET CONSTRUCTION - INTERIOR - ALUMINUM  

Y___N___  

All interior cabinets shall be constructed of .090" thick welded aluminum. Wood products shall not be used in the construction of any interior cabinet. All cabinet exteriors, interiors, drawer fronts, drawer interiors, and aluminum doors shall be sealed with a washable sprayed-on multi-use polychromatic coating.

RECESSED ADJUSTABLE SHELF TRACK - CABINETS  

Y___N___  

Unistrut 13/16" x 13/32", 19 gauge channel shall be installed in the interior cabinets that contain adjustable shelves. The track shall be welded in and recessed to reduce the number of fasteners and provide a cleaner look.

CABINET DOORS - BRONZE ACRYLIC  

Y___N___  

All sliding cabinet doors shall be nominally 1/4" thick light bronze acrylic material. The sliding cabinet doors shall be installed in aluminum track lined with PPL inserts to eliminate rattle and prevent the doors from opening during transit. An edge mounted aluminum handle shall be installed on each sliding cabinet door.

CABINETS/ WALLS - POLYCHROMATIC COATING - MARBLE STONE  

Y___N___  

All exposed side walls, the partition wall (on the patient compartment side only), the headliner, along with the cabinet and drawer fronts, aluminum doors, cabinet and drawer interiors shall be covered with a washable #20-63 Marble Stone sprayed-on multi-use polychromatic coating, to create a laminate-free interior.

COUNTER TOP - SOLID ACRYLIC - RAVEN BOULDER (BLACK)  

Y___N___  

A Meganite solid acrylic counter top, Raven Boulder (black) #810, with a 1/2" lip shall be installed to prevent equipment from sliding off. The solid acrylic counter top shall be provided on both the primary and secondary action area counters, fore and aft of the CPR seat.
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UPHOLSTERY - SPRADLING "ARCTIC" CHARCOAL #9017
Y___ N___
All cushions, head pads and seats shall be covered with Spradling International "Arctic" Charcoal #9017 expanded vinyl upholstery material. The arctic vinyl and all foam cushion material shall comply with FMVSS #302 flame spread requirements.

LONPLATE II, NON-SLIP EMBOUT-SIDE STORAGeed SM. GRID - GUNMETAL #424
Y___ N___
The floor in the patient compartment shall be covered with Lonseal brand "Lonplate II" non-slip; small grid (embOut-Side Storageed) Gunmetal #424, resilient sheet vinyl flooring material, which shall be coved 3-inches up the wall on the street side, and to the top of the squad bench base on the curbside. The flooring material shall be stripped and waxed before delivery.

ASPIRATOR / SUCTION - IMPACT #324 SELF-CONTAINED - RECESSED
Y___ N___
An Impact #324 suction system with built-in pump shall be recessed into the street side lower interior wall near the attendant seat. This system shall be self-contained and shall include a 6 foot section of suction tubing, and two (2) 1200 ml disposable canisters. A strap shall be installed to secure tubing. The disposable canisters shall contain a bacterial filter and overflow shutoff valve. The system shall be activated by a switch on the attendant control panel. The aspirator pump exhaust shall be vented to the exterior of the vehicle. The pump performance shall comply with KKK-A-1822F requirements.

ASSIST HANDLES, (2) 'V' STAINLESS STEEL, (4) BLACK URETHANE
Y___ N___
A total of six (6) assist handles shall be provided: two (2) 1-1/4" diameter stainless steel 'V' handles, one (1) on each rear passage door; and four (4) 10-7/8" black vulcanized rubber with steel core assist handles, two (2) handles at the rear doorway, one (1) at the curbside doorway, and one (1) on the curbside sliding door.

BAR - "A" - AT HEAD OF SQUAD BENCH w/ SHARPS/WASTE CONTAINMENT
Y___ N___
A 1-1/4" diameter stainless steel a-bar shall be installed at the forward end of the squad bench. The top horizontal bar shall be padded. The A-bar system shall pivot to allow better access to a patient on the squad bench. Sharps and waste containment shall be provided on the "A" bar.

CLOCK - TRIN TEC, 8" 12/24 HR, QUARTZ BATTERY - REAR HEADPAD
Y___ N___
A Trin Tec 8" diameter, 12/24 hour battery operated quartz clock shall be installed in the headpad above the rear module passage doors.

COT FASTENER - STRYKER, TWO-POSITION, SIDE/CENTER
Y___ N___
A Stryker crash stable, two position - side- and center -cot fastener shall be installed on the module floor for a Stryker cot. 3/8" thick aluminum tapping plates shall be installed below the aluminum floor to secure the cot floor mounting plates.
EMBLEMS / SIGNS - REAR PATIENT COMPARTMENT

Two (2) "No Smoking / Oxygen Equipped / Fasten Seat Belts" signs shall be provided. One (1) sign shall be installed in the cab and one (1) above the oxygen outlets in the patient compartment street side cabinet.

EXHAUST VENTILATOR, 3-SPEED - MULTIPLEX ELECTRIC SYSTEM

A three-speed, 300 CFM (minimum) exhaust fan meeting KKK-A-1822F requirements shall be provided and located in the street side cabinet in the patient compartment. The exhaust fan shall be pulse width modulated from a switch on the attendant control panel vista screen. The exhaust system shall have a louvered grille inside and a chrome vent outside. The exhaust system shall vent through the side of the vehicle, not through the roof.

F W #521 STORAGE BRACKET FOR "D", OR JUMBO "D" CYLINDER (2) - OUTSIDE STORAGE #1

Two (2) Ferno Washington #521 crash stable storage brackets shall be installed, each for one (1) "D", or Jumbo "D" oxygen cylinder on the forward wall of the #1 outside storage compartment and above the fire extinguisher.

FIRE EXTINGUISHER - (1) ABC DRY CHEM 5 LB. WITH BRACKET

One (1) ABC Dry-Chemical, 5 lb. fire extinguisher and mounting bracket shall be installed in the #1 outside storage compartment and located below the Ferno 521 oxygen tank brackets.

FLOOR CONSTRUCTION- PATIENT COMPARTMENT, NON-WOOD COMPOSITE

The sub-floor in the patient compartment shall be constructed of .125" thick aluminum over .125" and .190" thick reinforcing hat sections and mounting laterals. The aluminum sub-floor shall be covered with a single piece of 3/4" non-wood composite material. All corner molding, edging and trim shall be anodized aluminum or stainless steel and shall be sealed to prevent fluids from seeping under the cabinets.

Wood floors are not satisfactory and shall not be accepted by the purchaser.

FLOORING - COVE

The patient compartment floor radius shall be coved with pre-formed floor coving material. The coving shall be installed behind the vinyl floor covering, along both the street side and curbside walls.

GLOVE DISPENSER - (3) BOX - ABOVE ENTRY DOOR - CURBSIDE

A three (3) - box glove dispenser unit, with a clear plexi hinged access panel with three (3) cut-outs, shall be recessed above the curbside entry door. The dispenser shall be 8.25" high x 33.50" wide with interior dimensions of 5.38" high x 30.25" wide x 3.25" deep.
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GRAB RAILS, 1-1/4" DIAMETER, (96") OVER COT & (64") SQ BENCH

Two (2) 1-1/4" diameter stainless steel grab rails shall be installed on the ceiling of the patient compartment. One (1) 64" rail shall be installed over the squad bench area and one (1) 96" rail shall be installed over the patient cot area for attendant/patient balance control. The 96" grab rail will be attached to the ceiling with three (3) mounting brackets that secure it to the super structure of the module. Installation of each grab rail shall comply with AMD-008 requirements.

HEADLINER - REAR PATIENT COMPARTMENT

The headliner in the patient compartment shall be one-piece, seamless, .090 thick aluminum finished with sprayed-on multi-use polychromatic coating.

I V HANGERS - CEILING RECESSED - CAST PRODUCTS #IV2008-1 (2)

Two (2) Cast Products #IV2008-1 recessed, dual, ceiling I.V. hangers shall be provided. One (1) installed near the street side above the cot area, and one (1) near the curbside above the squad bench area.

OXYGEN OUTLETS (3) WALL/(1)CEILING - OHIO MEDICAL TYPE

Four (4) Ohio Medical flush mounted, quick release outlets shall be installed. Two (2) in the forward street side cabinet action area, one (1) shall be installed in the wall above the squad bench and one (1) shall be installed in the ceiling above the head end of the cot.

FLOW METER, OXYGEN - THORPE STYLE

One (1) Thorpe style oxygen flow meter (15LPM) shall be shipped loose with the completed vehicle.
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OXYGEN SYSTEM, ELECTRIC - MULTIPLEX ELECTRIC SYSTEM  Y__ N__
A 12 VDC controlled electric O2 system operated through the v-mux multiplex electrical system shall be provided and installed.

The oxygen system shall be completely installed and include a pre-set oxygen regulator with a cylinder pressure gauge and a 200 PSI safety valve with all necessary piping and connections. The oxygen system shall be completely low pressure, and the regulator shall be fastened directly to the cylinder. The regulator shall be set to operate at approximately 50 PSI. The oxygen cylinder shall be installed so the system may be easily turned on and off at the main cylinder valve from the patient compartment. The oxygen cylinder shall be provided by the purchaser.

The oxygen system monitor shall be readily available to the attendant while seated at the head of the cot as part of the microprocessor based electrical system. Flexible conductive oxygen hose with a minimum 900 lbs. burst rating shall be installed between the regulator and the oxygen receptacles. The system shall be tested and tagged in conformance with NFPA-56-F and KKK-A-1822F.

The electric oxygen system shall be provided with an on/off switch on the attendant control panel screen. The emergency manual bypass valve shall be located near the oxygen storage compartment in the patient compartment.

PADDED EDGING PROTECTION  Y__ N__
Padded corner edging shall be installed where necessary on exposed corners and edges in the patient compartment for patient and attendant protection.

PADS, HEAD AND BACK  Y__ N__
Vinyl upholstered, foam cushioned head/back pads shall be installed as follows: the lower edge of the upper front wall cabinet (above the partition doorway or window), above the rear doors, above the side door, on the street side wall behind and each side of the CPR seat, and on the curbside wall behind the squad bench. The pads shall be covered with a flame retardant color coordinated vinyl upholstery material.

RADIO SPEAKERS, REAR (OEM RADIO & ACP FADER CONTROL)  Y__ N__
Two (2) stereo speakers shall be installed in the rear head pad over the door. The fader control for the rear speakers shall be provided through the OEM radio and a fader control located in the ACP.

SHARPS AND TRASH CONTAINERS - ACCESS THRU SQUAD BENCH LID - DELETED  Y__ N__

SQUAD BENCH FACE - VINYL FLOORING MATERIAL  Y__ N__
The face of the squad bench shall be covered with vinyl flooring material.

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DOOR PANELS - MODULE PASSAGE DOORS - FULL LENGTH - W/ACCESS PANELS  Y__N__
The inner door panels shall be manufactured from aluminum, and covered with a washable sprayed-on multi-use polychromatic coating. The panels shall run the full length of the door and will contain a removable latch access panel.

STAINLESS STEEL WALL PROTECTION - INTERIOR STREETSIDE  Y__N__
A brushed stainless steel panel shall be provided on the street side wall from the bottom of the CPR seat cushion down to the flooring material to protect this area when the cot is taken in or out of the vehicle.

TURTLE TILE - SKID-RESISTANT MAT, CURB SIDE STEPWELL  Y__N__
Skid resistant charcoal gray turtle tile matting shall be installed in the curbside step well.

PPG PAINT PROCEDURE  Y__N__
All non-anodized aluminum module body surfaces shall be completely chemically steam cleaned, filled with premium body filler as needed, sanded smooth and primed with F-3993 epoxy primer and then primed again with F-4930 high solid primer.

The cured primer surface shall be DA sanded with 320 grit and cleaned with DX-330. F-4930 high solid primer shall then be applied, where needed, as a sealer.

CLEAR COATING - MODULE PAINT  Y__N__
The entire module shall be clear-coated, using a PPG process, sprayed over the final paint coat.

BUFFING, PAINT - MODULE  Y__N__
The paint on the module sides shall be buffed to a high shine using a recommended paint buff system.

PAINT CAB ALL ONE OEM SOLID COLOR, PLUS OEM CLEAR COAT - VERMILLION OEM RED  Y__N__
The entire cab shall be sprayed one-color and then clear coated. Paint to be Ford Vermillion red to match the standard Ford OEM chassis color (No charge option)

PAINT MODULE ALL ONE SOLID COLOR, PLUS CLEAR COAT - RED  Y__N__
The entire module shall be sprayed one-color and then clear coated. The PPG paint code and color will be provided at the pre-construction meeting.

BLACK REFLECTIVE MATERIAL IN RUB RAILS  Y__N__
Rub rails shall incorporate a 5/8” wide black reflective scotchlite safety accent stripe.
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DOOR REFLECTIVITY

| Y | N |
---|---|
Reflective material (25" x 2.5" red/silver chevron style) meeting FMVSS 108 requirements shall be installed on the lower interior stainless steel panel of each rear door and hinged side door.

If a sliding side door is provided, it shall have a 1.50" x 40.00" white reflective stripe installed on the rear facing edge.

KKK-A-1822F COMPLIANCE

| Y | N |
---|---|
A KKK-A-1822F compliance sticker, electrical load analysis sticker, and payload sticker shall be installed in the oxygen compartment. Any deviations from KKK-A-1822F shall be listed in the vehicle delivery packet with a notation on the-compliance sticker.

VEHICLE MANUALS (1) PACKAGE SET

| Y | N |
---|---|
One (1) Delivery Manual Package shall be supplied with the vehicle, and shall include the following items:

- Ambulance manufacturer parts, service and operation manuals
- OEM chassis owner's guide
- Complete 12 VDC and 125 VAC wiring schematics for all included standard and optional systems
- Multiplex Electrical system programming - electronic media

WARRANTIES

| Y | N |
---|---|
MANUFACTURER WARRANTIES: The ambulance manufacturer shall provide Warranty coverage as follows:

A. Structural Module Warranty - Limited **Life Time**

B. Ambulance Conversion Warranty - 2 Years/30,000 Miles

C. Electrical Warranty (Multiplex-based systems) - 7 Years/84,000 Miles

D. PPG Paint Warranty - This pro-rated warranty covers the areas of the ambulance body finished with specified PPG products for a period of 7 years from the date of manufacture or 84,000 miles whichever occurs first. The first four years or 48,000 miles are covered at 100% parts and labor. The fifth year or up to 60,000 miles is covered at 75% parts and labor, and the sixth and seventh years or up to 84,000 miles are covered at 50% parts and labor. Paint repairs must be pre-approved by the Manufacturer/PPG and performed by the Manufacturer or Authorized Service Center.

NOTE: Copies of these Warranties shall be provided to the purchaser in the bid response.
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GRAPHICS & LETTERING - PURCHASER SUPPLIED/INSTALLED

The Shelby Township Fire Department will provide and install their own graphics. There is no need to include this pricing in your bid.

RADIO INSTALL

The Shelby Township Fire Department will provide and install their own radios. It is only necessary to provide the proper hot/ground wiring, antennas and cables per the specification. There is no need to include the pricing for the install of the radios in your bid.
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TRADE-IN VEHICLE #1 – 2005 Wheeled Coach Ambulance on a 2005 C-4500 chassis
VIN# 1GDE5V1265F527741 with approximately 111,000 miles at time of bid

Bidder has had the opportunity to view this vehicle and has included pricing in the pricing form above.

TRADE-IN VEHICLE #2 – 2005 Wheeled Coach Ambulance on a 2005 C-4500 chassis
VIN# 1GDF5V12X5F527905 with approximately 115,000 miles at time of bid

Bidder has had the opportunity to view this vehicle and has included pricing in the pricing form above.
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2015 Emergency Rescue Ambulance
Bid Specifications - Ford F450 4x4 Chassis

PRICE WORKSHEET COMPLETED AND SIGNED  Y  N

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<td>TYPE I F-450 4X4 Emergency Rescue Ambulance Meeting the Attached Specifications</td>
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<td>2</td>
<td>TYPE I F-450 4X4 Emergency Rescue Ambulance Meeting the Attached Specifications (Price for a second identical vehicle)</td>
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</tbody>
</table>

The undersigned acknowledges that this proposal is subject to the General Conditions and the General Specifications included in the contract documents:

___________________________________
Bidder/Company Name

___________________________________
Company Address

___________________________________
Signature

___________________________________
Title

___________________________________
Telephone Number