



WHITE COUNTY, TENNESSEE  
DEPARTMENT OF FINANCE  
COURTHOUSE ROOM 204  
1 EAST BOCKMAN WAY  
SPARTA, TENNESSEE 38583  
PHONE (931)-836-3216 FAX (931)-836-3343  
finance@whitecountyttn.gov

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## **BID PACKAGE**

**For**

**WHITE COUNTY, TENNESSEE**

**2014 WHITE COUNTY CDBG AMBULANCES PROJECT**

CDBG Project No. **41112-44511**

### **CONTENTS**

Information to Bidders

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### **BID OPENING:**

Date: March 19, 2015

Time: 2:00 P. M.

Place: White County Finance Dept.  
Courthouse Room 204  
One East Bockman Way  
Sparta, TN 38583

(931) 836-3216



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## **ADVERTISEMENT FOR BID**

### **WHITE COUNTY FY 2014 CDBG AMBULANCES PROJECT CDBG Project No. 41112-44511**

Take notice that the Director of Finance for White County shall accept sealed written bids submitted to the office of the Director of Finance, Room 204, White County Courthouse, Sparta, Tennessee, 38583, no later than 2:00 P.M. central time, March 19, 2015, at which time the bids will be opened and considered for the purchase of a new commercially produced, surface medical care vehicle. Interested bidders may visit [whitecountyttn.gov/bids](http://whitecountyttn.gov/bids) for additional information. The owner (White County) further reserves the right to reject any and all bids, to waive any and all informalities and to negotiate contract terms with the successful bidder, and the right to disregard all nonconforming, non-responsive or conditional bids.



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## **Invitation to Bid**

### **Description of items/services for bid:**

The White County Government is soliciting bids for the purchase of two or more new commercially produced, surface medical care vehicles.

### **General Requirements:**

Proposals, bids, or responses will be accepted by the White County Department of Finance no later than **2:00 p.m. March 19, 2015** (local time). Every document must be enclosed in an envelope clearly marked as a bid document. Any response, bid or proposal received after the above deadline shall be considered late, and will not be opened or considered. Bid prices must be valid for no less than thirty (30) days from the date of the bid.

If you wish to view White County's existing fleet of ambulances, please contact the EMS Department at (931) 836-2899.

All documents shall be submitted to the following address:

Chad S. Marcum, Director of Finance  
White County Department of Finance  
Courthouse Room 204  
1 East Bockman Way  
Sparta, Tennessee 38583

### **Item for Bid:**

- Purchase of commercially produced, surface medical care vehicles (ambulances)
- 2015 Type I – Cab Chassis with modular ambulance body
  - See remaining specification details on sheets attached.

White County is requiring that all proposed vehicles be in accordance with the Ambulance Design Criteria of the National Highway Traffic Administration. These bid specifications are based on the Federal Ambulance Specification KKK-A-1822. The purpose of these bid specifications are to provide a minimum list of specifications and test parameters for the construction of an emergency medical care vehicle that meets the needs and desires of White County.

White County's intent is to purchase an ambulance with the highest level of quality and engineering excellence. Therefore, White County has designed these specifications to meet this goal as well as to standardize certain components; therefore, in numerous places we have made reference to specific brands of components. This has been done to



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establish a certain level of quality expected in the components, and in no way is an attempt by White County to write out venders of similar or equal equipment components.

The county makes no claim that potential issues or improvements are included in the specifications supplied herein. Any valid concern by any bidder will be considered, however only minor specification exceptions or alternates of equal or better performance (as determined by White County). A bid that takes total exception or makes an offering of a standard or stock unit will be considered as an invalid bid proposal.

White County is requiring that the ambulance vehicle, chassis, body, equipment, devices, medical accessories, and electronic equipment proposed under this bid be standard commercial products, which meet or exceed the requirements of these bid specifications. The ambulance shall comply with all Federal Motor Vehicle Safety Standards (FMVSS) and Federal regulations applicable or specified for the year of manufacture. The chassis, components, and optional items shall be represented in the manufacture's current technical data. Materials used in the construction shall be new and not less than the quality conforming to current engineering and manufacturing practices. Materials shall be free of defects and suitable for the ambulance's intended service.

The ambulance specified 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) as well as the KKK\_A-1822F Section 4 standards for electrical loads. This KKK-A-1822F Section 4 test results should be documented and displayed in the oxygen compartment. All results should 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.

White County requires that any prospective company have the ability to build a complete ambulance within their plant facility, except for the chassis. The company must have significant experience in the building of modular ambulance bodies. The company shall be a member of the Ford Motor Company's and/or the General Motor Company's Chassis Bailment Pool (or approved equal), regardless of the chassis specified within this bid. The bidder shall provide a current bailment pool account number to the county upon request. The company must all be a member, in good standing, of the Ford Motor Company Qualified Vehicle Modifier Program (QVM) (or approved equal) regardless of the chassis specified. Additionally, the prospective remount company must supply, with their bid, proof of \$10,000,000 current product liability coverage.

To ensure quality, service, and full compliance to any and all warranties, the vehicle, with the exception of the chassis, must be constructed by the ambulance manufacturer responding to this invitation to bid. Additional elements constructed and installed "in-house" are required to ensure service and parts availability. Subcontractors or lease/rental agreements to outside agencies fail to meet this requirement. The ambulance



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manufacturer responding to this invitation to bid must construct the modular body; apply paint; construct and install interior cabinetry; install and test wiring harnesses, circuit boards, and oxygen systems; and assemble and install all upholstery for seat cushions, head pads, and backrests.

White County is concerned with awarding this bid to the most qualified responsive bidder. Therefore, please include as part of your bid document proof of workers compensation insurance, product liability insurance, and garage keepers liability insurance. Additionally, please include a copy of your current Motor Vehicle Dealers License.

**Delivery is requested after July 1, 2015 but no later than October 1, 2015.** Since delivery will factor into the selection of the successful bidder, any date or schedule submitted as part of the bid document will automatically become binding upon the successful bidder. White County reserves the right to charge the successful bidder \$100.00 per calendar day for each day that delivery is not made after the specified delivery date according to the delivery schedule. Delivery delays due to component supply problems or chassis delivery problems to the manufacture shall not penalize either the dealer or the manufacture. *By submitting a bid, the bidder implies this clause is understood and agreed too.*

Payment will only be made to the successful bidder after delivery of the ambulance and upon a thorough inspection by White County EMS personnel. If the vehicle is found to not be in compliance with any of the specifications of this bid or is found to be defective or damaged in any manner, payment will not be made until the deficiencies are corrected.

White County is requiring that a performance bond be produced by the successful bidder, upon award of the bid. The bond must be equal to 100% of the contract price. Bid bonds and payment bonds are not required for this bid.

White County is soliciting a quality, state-of-the-art, and reliable emergency medical vehicle. Therefore acquisition price, while an extremely important factor, will not be the only criteria used when selecting the successful bidder.

**Any clarifications or alternate specifications should be clearly identified in the space provided within this document. Any exception to the specifications not noted, will be considered by White County as an acceptance of the specification.**



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## Bidding Procedures

**Bid Limit:** White County requires all purchases over \$10,000 to be acquired by sealed competitive bids. Exceptions: Fuel, emergency purchases, and any items excluded by statute

**Location:** All bids must be submitted to the White County Finance Dept. at or before the announced deadline.

Courthouse Room 204  
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**Bid Document:** For certain projects the Owner will supply a bid form to be completed by the bidder. When such forms are issued, only bids returned with the proper forms will be accepted. Envelopes must be sealed and marked as a bid document. Any bid may be withdrawn prior to the day, date and time as set forth in the "bid invitation". On construction related bids, the envelope must contain the following information visible from the outside: TN License number, expiration date, classifications and limitations.

**Facsimile transmissions:** Electronic transmissions will not be accepted except when in the course of the bidding process addendums or other notifications of errors on behalf of the owner places an undue hardship upon prospective bidders. Written notification by the owner must precede the acceptance of Facsimile transmissions.

**Bid Bond:** For construction related bids, in excess of \$25,000 dollars, the owner requires a bid bond equal to five percent of the total price of the bid. Contracts for the services of a construction manager shall require a bid bond in the amount of ten percent. The owner may request bonds on other services as determined by the Finance Department.

**Performance Bond:** For construction related bids, in excess of \$25,000 dollars, the owner requires a performance bond equal to one hundred percent of the contract price. The owner may request bonds other services as determined by the Finance Department.

**Payment Bond:** For construction related bids, in excess of \$25,000 dollars, the owner requires a payment bond equal to one hundred percent of the contract price except as stipulated under T.C.A. 12-4-201. The owner may request bonds other services as determined by the Finance Department.

**Disclosures by bidders:** For construction bids in excess of \$25,000 interested bidders must include the following information on the outside of the envelope containing the bid document: Name, License number, Expiration date thereof, and license classification of the contractors applying to bid as stated in T.C.A. 62-6-119. For construction bids less than \$25,000, the name only is required. White County maintains a drug-free workplace and requires all bidders for construction contracts to comply with T.C.A. 50-9-114.

**Laws and Regulations:** The bidder's attention is directed to the fact that all applicable state laws, municipal ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the project shall apply to the contract throughout, and they will be deemed to be included in the contract the same as though herein written out in full. Bidders may be required to provide proof of valid business license and Workers Compensation Insurance if required by law.

**Sub-contracts:** The Bidder is specifically advised that any person, firm, or other party to whom it is proposed to award a sub-contract under this contract must be acceptable to the Owner.



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**Award of Contract:** The owner (White County) further reserves the right to reject any and all bids, to waive any and all informalities and to negotiate contract terms with the successful bidder, and the right to disregard all non-conforming, non-responsive or conditional bids. White County may conduct such investigations as it deems necessary to assist in the evaluation of any bid to establish the responsibility, qualifications, and financial ability of the bidder, proposed sub-contractors and other persons and organizations to perform the work in accordance with the contract documents to the bidder who does not pass any such evaluation to the owner's satisfaction. The contract shall be awarded to the lowest, best and most responsible bidder, whose evaluation by the owner indicates to the owner that the award will be in the best interest of White County. It is also understood that the "apparent low bidder" will be announced at the bid opening; however the "successful bidder", who may or may not be the lowest bidder, will not be announced until all issues, which include, but are not limited to quality, service, conformity to specifications, etc. have been resolved and until a period of review has been completed by the County. White County does not enter into contracts which provide for mediation or arbitration.

**Construction Contracts – Retainage:** The Owner will retain five percent of funds on contracts over \$500,000 dollars per T.C.A. 66-11-144.

**Title VI of the Civil Rights Act of 1964:** All interested parties, without regard of race, color or national origin, shall be afforded the opportunity to bid and shall receive equal consideration. Title VI states "No person in the United States shall, on the ground of race, color or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program activity receiving Federal financial assistance." White County strives to protect individuals' civil rights through active compliance with the requirements of Title VI.

**Warranty:** The vendor shall provide warranty information on the equipment, components and items bid with the bid submittal.

**Payments:** Invoices that are submitted by the awarded bidder are required to provide accurate and current addresses. Payment terms shall be specified in the bid response, including any discounts for early payment. The Finance Department of White County discourages the practice of picking up checks in person, unless there is an emergency situation.

**Errors in Bids:** When an error is made in extending total prices, the unit bid price will govern. Carelessness in quoting prices or in preparation of bid otherwise, will not relieve the bidder. Erasures or changes to bids must be initialed. Any alteration, erasure, addition to or omission of required information, change of the specifications or bidding schedule, is made at the risk of the bidder.

**Taxes:** White County is tax exempt.

**Tie Bids:** If two or more bidders submit identical bids and is equally qualified; selection shall be made at the discretion of the county based on performance.

**Contractors, Subcontractors and employees:** If work is to be performed during regular school hours when children are present, the White County reserves the right to require background checks, dress codes and certain ethical standards of all employees on school property.



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Project: Purchase of 2015 Type I Ambulance

Bid Date: March 19, 2015; 2:00p.m. central time

**Bid Form**

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Phone Number: \_\_\_\_\_

Email Address: \_\_\_\_\_

Contact: \_\_\_\_\_

**Bid:** 2015 Type I Ambulance, with delivery to Sparta, Tennessee

Bid Amount: \_\_\_\_\_ Dollars per ambulance.

(\$ \_\_\_\_\_) per ambulance.

**Bid is:** \_\_\_\_\_ As per specifications, taking no exceptions

\_\_\_\_\_ Taking only the exceptions noted

**Delivery Schedule:** \_\_\_\_\_

(See delivery clause above.)

**All responses must be accompanied by the attached form indicating all exceptions and deviations to the specifications as well as any other documentation requested.**

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_



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## **2015 Type I Ambulance** **Detailed Specifications**

### Section I: Chassis

Minimum technical specifications for an all-aluminum Type I ambulance module and a 2015 Ford F-350 4x4 DRW cab chassis with 165" wheel base (or equivalent). Vehicle must comply with Federal and State laws and regulations and all safety regulations as applicable on date of delivery concerning automotive equipment and conditions and will be complete with standard equipment and all extra equipment as specified.

1. 2015 Ford F-350 4x4 Dual Rear Wheel Cab Chassis, 165" WB (or equivalent)
  - a. 643A – Preferred equipment package
  - b. XLT Trim level package
  - c. 98R Operator commanded regeneration (OCR)
  - d. Chassis should be equipped with the ambulance prep package – 47L
2. Axels and Suspension
  - a. Axle – Front, mono-beam with coil spring suspension
  - b. Axle – Rear, limited slip (4.10 ratio) wide track
  - c. Front and rear stabilizer bars
  - d. Heavy duty gas shock absorbers
  - e. Rear auxiliary springs
  - f. Dual rear wheels
3. Electrical – Dual 12-volt batteries rated at 1500 cold cranking amps, securely installed in Ford (or equivalent) OEM locations.
4. Alternator – Dual OEM 125 amp alternators with internal voltage regulators
5. Engine
  - a. 6.7L 4 Valve OHV Power Stroke (or equivalent) Diesel V-8
  - b. OEM engine block heater
6. High-Idle Speed Control, Automatic – The vehicle should be equipped with a powertrain control module capable of monitoring the vehicle's voltage and applying an elevated engine RPM as needed to maintain proper vehicle voltage. This feature should operate only when the transmission is in neutral or park and the parking brake has been engaged. This should disengage when the service brake pedal has been depressed, the transmission is placed in gear, or the parking break is disengaged.
7. Fuel Tank – Single rear tank with a minimum capacity of 40 gallons
8. Tires and Rims
  - a. Seven (7) LT245/75R17E radial tires (two front/four rear)
  - b. Standard 17" OEM steel vented rims
  - c. Stainless steel full wheel simulators for front and outside rear wheels
  - d. Valve extensions for inner dual rear tires
  - e. Spare tire, rim, and applicable changing tools must be included
9. Transmission
  - a. Torqshift 6 speed automatic heavy-duty transmission with overdrive
  - b. Electronic Shift-On-The-Fly (ESOF) (or equivalent)
10. Brakes – 4-wheel disc anti-lock braking system (ABS)
11. Air Conditioning and Heating
  - a. Factory standard air and heat
  - b. Heavy-duty cooling package
  - c. Heavy-duty radiator
  - d. Heat cut-off valves should be accessible
12. Glass
  - a. Factory standard tinted glass supplied as part of air conditioning package



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- b. Glass must meet all requirements of KKK-A-1822 and those of the Federal Motor Vehicle Safety Standards
  13. Horn – OEM dual electric horns
  14. Mirrors
    - a. Manually telescoping trailer tow mirrors with power heated glass
    - b. Built-in manual convex mirror
  15. Radio – Standard AM/FM/CD/MP3 Stereo with built-in clock and auxiliary input jack
  16. Seats – OEM Cloth 40/20/40 split bench, lap and shoulder belts for driver and passenger
  17. Towing – OEM front tow hooks (2)
  18. Floor mats – Insulated, rubber floor mats in cab (no carpeting)
  19. Headliner – color coordinated molded cloth
  20. Airbags – Driver and passenger, frontal and side air bag/curtain
  21. Console – black vacuum formed ABS center floor console, between cab seats, with angled surface to accommodate the Weldon Vista (or approved equal) display (as specified below) as well as a siren and a radio. Must include storage well for maps and reports and two (2) drink holders.
  22. Paint Color – Oxford White Clear Coat
  23. Additional Features:
    - a. Cruise control
    - b. Tilt wheel
    - c. Power door locks and windows (auto-lock disabled)
    - d. Interval select windshield wipers
    - e. Chrome front bumper
    - f. Black door handles
    - g. Vendor vents – front
    - h. Chrome grille – 2 bar
    - i. Dual beam headlamps, roof/marker clearance lights
  24. Weight Ratings:
    - a. Front gross axel weight rating – 5,940
    - b. Rear gross axel weight rating – 9,750
    - c. Gross vehicle weight rating – 14,000
  25. Additional Add-ons – the following should be installed:
    - a. Wheel liners – Phoenix (or equivalent) stainless steel wheel covers
    - b. Mud flaps – Appropriate, custom mud flaps (additional specifications below)
    - c. Running boards – Highly polished aluminum diamond plate running boards. A Grip-Strut (or equivalent) section should be incorporated into the running board to be used during vehicle entry and exit. A self-draining splash shield should be installed to prevent debris from coming through this section.
    - d. Backup alarm – OSHA approved, with disable switch and automatic reset
    - e. Heat shields – installed above the exhaust system as recommended by manufacturer

The chassis suspension should be modified as necessary to insure the proper loading and unloading height of the ambulance is achieved.

#### Section II: Box Module

1. Dimensions – please provide your proposed module's exact dimensions
  - a. Length: 144” – 150”
  - b. Width: 94” – 96”
  - c. Height: 106” – 112”
  - d. Interior Headroom: Not less than 68”
2. Module Internal Structure



- a. Connection
    - i. Connection with chassis frame shall be made with grade 8 bolts (or equivalent) through OEM rubber insulating spacers installed on outriggers at multiple locations on the rails.
    - ii. Bolts must be properly torqued and secured with Loctite (or equivalent).
    - iii. The method used for fastening the module to the frame MUST be one approved by the chassis manufacturer.
  - b. Construction – please include clear photos of interior structure construction being proposed with your bid
    - i. The module must 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.
    - ii. Roll-cage type interior structure, aluminum partition, and module should be welded together into a single unit.
    - iii. Module roof should be designed in such a way as to facilitate water runoff.
    - iv. Roof, floor, sides, and exterior doors should be fabricated from .125” (minimum) thick flat aluminum sheet stock.
    - v. All exterior joints must be continuous full seam welded.
    - vi. No VHB bonding tape or other adhesives should be used in the module construction
    - vii. Side walls should include vertical and horizontal supports and should be securely welded together. Tack welding or taping is not allowed.
      1. Supports should be fabricated to a .125” (minimum) thickness.
  - c. Certified Welders – AWS Aluminum Certified Welders must construct the module. Please include AWS certificates with bid packet.
3. General Module Construction
- a. Sound Deadening – Audioguard (or equivalent) acoustic coating should be applied to help reduce structure-born vibrations and associated sound transmission. The entire floor, left wall, ceiling, left and right panels forward of the partition should be covered at the manufacturer’s recommended thickness
  - b. Ceramic Thermal Barrier – Temp-Coat (or equivalent) ceramic thermal barrier coating shall be applied to the interior of the module roof after the spray foam application. Material shall be applied to meet or exceed the manufacturers recommended thickness.
  - c. Corrosion Minimization Procedures –
    - i. All unpainted exterior aluminum parts shall be bright dip anodized after fabrication to retain the finish and increase corrosion resistance.
    - ii. 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 (or equivalent) corrosion inhibitor spray.
  - d. Exterior Doors –
    - i. Rear Passage:
      1. There should be a 49.00” wide x 59” high rear door opening (minimum) 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.

2. 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 (or equivalent). The doors shall be lockable from the inside and outside.
3. 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.

ii. Curbside Passage:

1. The module body should 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 should not extend out more than 6" from the module when in the open position and should be flush in the closed position.
  - a. The door should operate on a casters and tracks for ease of operation.
  - b. The door should be held closed with rotary latches and locking tabs (or equivalent).
  - c. The door should have a system to prevent the door from self-closing, when unit is parked on an incline.
  - d. A chrome locking handle should be installed on the exterior of the door and should be lockable from the inside and outside.
  - e. The door should shut on a molded air-core, automotive type door seal to prevent any water from leaking into the vehicle interior.
  - f. A drip rail must be installed above the door.
2. Please submit documentation listing the number of sliding doors placed in ambulances by your company with the past five (5) years.
3. Curbside stepwell with skid resistant charcoal gray turtle tile matting

iii. Construction:

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



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2. Door gaskets should be attached to the interior side of the door skin.
  3. The inner door panels should be manufactured from aluminum, and covered with a washable sprayed-on multi-use polychromatic coating. The panels should run the full length of the door and contain a removable latch access panel.
  - iv. Rear Door Grabbers – Door grabbers (1 pair) with hard rubber inserts should be installed on the rear doors, permitting the door hold open position of 180 degrees.
  - v. Module Door Locks – Manual. All keyed alike.
  - vi. Door Windows –
    1. Curbside passage door should have a 16” x 23” (size is approximate) operable (sliding) window with removable screen.
    2. Rear passage doors should have 19” x 18” (size is approximate) non-operable windows.
      - a. The distance between the rear window glass shall not exceed 6” to assure maximum vision to the rear.
    3. All module windows should have approximately a 69% dark tint and shall be secured with black oxide coated fasteners.
    4. No warning lights should be blocked from view when the curbside or rear doors are open.
  - vii. Reflectivity - 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 sliding door is not available). If a sliding side door is provided, it should have a 1.50” x 40.00” white reflective stripe installed on the rear facing edge.
  - viii. Kick Plate - A bright dip anodized aluminum diamond plate kick plate should be installed at the rear exterior doorway, providing a kick / scuff plate at the rear of the vehicle above the rear step.
  - ix. Handles - Eberhard #EMC-1-2110 (or equivalent) chrome “free-floating” handles should be installed on each exterior module door. The handles shall be large enough to accommodate a gloved hand.
  - e. Insulation - 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.
  - f. Outside Storage Compartments
    - i. All exterior compartments should include:
      1. Sound absorbing slip resistant polyurethane material sprayed on the inside of all compartments and compartment shelving, slide out trays and closeouts.
      2. Baffled seep holes provided to prevent water from splashing or seeping into the exterior compartments.



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3. Full-length, two-way adjustable, stainless steel hinges on all exterior compartment doors with 3/16" stainless steel hinge pins.
  4. Compartment doors should be installed, flush with the module body.
  5. When double doors are provided, each door should have an exterior handle, but only the forward door should be lockable. (rear-ward door is secured when forward door is locked). All exterior compartments and passage doors shall be keyed alike.
  6. Lockable, Eberhard "free-floating" type chrome plated handles (or equivalent) with rotary locks. A gasket shall be installed under each handle to protect the paint.
  7. Drip rails shall be installed above all exterior compartment doors.
  8. Sweep-out design to aid in facilitation of the routine care and cleaning of the vehicle.
  9. All exterior compartment floors should be constructed flush with the bottom of the door frame.
  10. Interior door skins for all outside storage compartments should be constructed of .063" (minimum) thick aluminum diamond plate.
- ii. Threshold - Each exterior storage compartment with a hinged door should have a stainless steel lower threshold at the door opening to protect the paint as equipment is installed and removed from the compartment.
  - iii. Outside Storage – Street Side Forward
    1. Backboard storage
    2. Dimensions of approximately 83.75" high x 16.00" wide clear door opening and interior dimensions of 84.75" high x 22.75" wide x 18.50" deep. The compartment door should be held open by a spring loaded gas cylinder. A locking handle should be installed on the exterior of the door.
  - iv. Outside Storage – Street Side Rear
    1. Stair-chair storage
    2. Dimensions of approximately 41.25" high x 26.00" wide clear door opening with 46.25" high x 32.25" wide x 18.50" deep interior dimensions. The door should be held open with a spring loaded gas cylinder. A locking handle should be installed on the exterior of the door.
  - v. Outside Storage – Curbside Rear
    1. Oxygen Cylinder storage
    2. Dimensions of approximately 62.25" high x 9.50" wide and interior dimensions of 63.00" high x 12.00" wide x 15.00" deep. The compartment must provide storage for either an "M" or "H" type cylinder. A spring-loaded, hinged acrylic door shall be provided to allow access from inside the patient compartment to the oxygen cylinder valve. Restraining devices must meet AMD standard 003, oxygen tank retention system requirements. A cylinder changing wrench should be provided and



- secured inside the oxygen compartment. An exterior locking handle should be installed on the door. A nine (9) square inch (minimum) vent should be provided in the oxygen compartment to dissipate any leaking oxygen gas. The oxygen cylinder will be provided by White County.
- vi. Outside Storage – Hinged Door with Eberhardt Locking Latch (or equivalent)
    - 1. ALS
  - g. Lowered Module Sides – Module sides to be as low as possible and still comply with KKK-1822-F ramp break over angle.
  - h. Fenderettes – Polished aluminum fenderettes shall be installed around the rear wheel well openings.
  - i. Mud Flaps – 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.
  - j. Rear Bumper – 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” minimum 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.
  - k. Rub Rails - Bright dip anodized polished aluminum rub rails shall be installed on the lower sides of the body below the outside compartment sill areas.
    - i. Offset 3/16” from the body to facilitate wash down of road debris.
    - ii. 5/8” wide black reflective Scotchlite (or equivalent) safety accent stripe
  - l. Stone Guards – 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” (minimum) wide.
4. Exterior Paint –
- a. Unit must be painted via a PPG Paint Procedure (or equivalent)
  - b. All non-anodized aluminum module body surfaces should 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.
  - c. The cured primer surfacer 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.
  - d. Paint Color – the entire module should be painted with PPG Delfleet low voc polyurethane paint (or equivalent), to match the OEM chassis color, at a dry thickness of no less than 2 to 2.5 mils.
  - e. The entire module should be clear-coated, using a PPG (or equivalent) process, sprayed over the final paint coat.
  - f. The paint on the module sides shall be buffed to a high shine using a recommended paint buff system.
5. Interior Construction –
- a. Cabinet Construction –



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- i. Constructed of .090" thick welded aluminum. Wood products shall not be used in the construction of any interior cabinet.
  - ii. Cabinet exteriors, interiors, drawer fronts, drawer interiors, and aluminum doors must be sealed with a washable sprayed-on multi-use polychromatic coating.
  - iii. Cabinets should be welded, not bolted, to the structure.
  - iv. Cabinets should be covered with a sprayed-on multi-use polychromatic coating (see "Walls" below)
  - v. Recessed Adjustable Shelf Track –
    1. Unistrut 13/16" x 13/32", 19 gauge channel (or equivalent) should be installed in the interior cabinets that contain adjustable shelves.
  - vi. Cabinet Doors –
    1. All sliding cabinet doors should be nominally 1/4" thick light clear acrylic material.
    2. The sliding cabinet doors should be installed in aluminum track lined with PPL inserts to eliminate rattles and prevent the doors from opening during transit.
    3. An edge mounted aluminum handle should be installed on each sliding cabinet door.
    4. Flip-up restocking frames are requested on any cabinet doors that has both the ability and practicality of having one.
  - vii. Cabinet Latches – The attendant control panel door and power distribution quarters door should be secured with chrome locking lever latches.
  - viii. Cabinet – Left Wall – Upper Rear
    1. Dimensions of approximately a door opening of 25.50" high x 37.50" wide with interior dimensions of 27.50" high x 39.50" wide x 16.25" deep.
    2. One (1) set of sliding acrylic doors
    3. Contain two (2) adjustable shelves.
  - ix. Cabinet – Left Wall – Attendant Control Panel
    1. The color micro-processor screen should be installed on a hinged access panel
    2. Secured with two (2) latches
    3. Located to the immediate right of the attendant's seat.
  - x. Cabinet – Left Wall – Upper Front
    1. Dimensions of approximately a door opening of 5.25" high x 30.00" wide with interior dimensions of 9.25" high x 33.75" wide x 13.00" deep.
    2. One (1) set of sliding acrylic doors attached to a flip-up restocking frame with gas filled hold-open shocks
    3. Contain one (1) adjustable shelf.
  - xi. Cabinet – Left Wall – Lower Front
    1. Under the action area
    2. Dimensions of approximately a door opening of 13.75" high x 32.25" wide with interior dimensions of 17.50" high x 34.25" wide x 16.25" deep.
    3. One (1) set of sliding acrylic doors.
  - xii. Cabinets – Front Wall – Uppers



1. Dimensions of approximately a door opening of 10.25" high x 38.00" wide with interior dimensions of 13.25" high x 39.75" wide x 17.00 deep.
  2. One (1) set of sliding acrylic doors
  3. Stationary divider in the center of the cabinet.
- xiii. Cabinet – Front Wall – Lower
1. Dimensions of approximately a door opening of 45.25" high x 20.25" wide with interior dimensions of 50.75" x 24.75" wide x 17.50" deep
  2. Two (2) adjustable shelves on Unistrut (or equivalent) adjustable track brackets.
  3. Aluminum beveled ramp edging installed on the edge of the shelves.
  4. The module heat and ac system should be installed next to the lower front wall cabinet. A minimum of Four (4) adjustable heat/ac vents shall be installed in a stack configuration inboard of the lower front wall cabinet.
  5. One (1) pair of 3/8" thick hinged acrylic doors shall be installed on the lower front wall cabinet. Each door should have a full length hinge, a full length handle, and a latch.
- xiv. Drug Box (Narcotics Box) – should be a cabinet inside of a cabinet with aluminum flip down door and locking lever. Must be in close proximity to the attendant's chair for easy access.
- xv. Rounded interior corners are requested were applicable
- b. Flooring –
- i. Sub-floor in the patient compartment should be constructed of .125" thick aluminum over .125" and .190" thick reinforcing hat sections and mounting laterals.
  - ii. Aluminum sub-floor should 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.
  - iii. Wood floors are not satisfactory for the purpose of this bid.
  - iv. Floor radius should be coved with pre-formed floor coving material. The coving must be installed behind the vinyl floor covering, along both the street side and curbside walls.
  - v. The floor in the patient compartment should be covered with Lonseal "Lonplate II" non-slip; small grid (embossed) Mica (gray) #421, resilient sheet vinyl flooring material (or equivalent), 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 should be stripped and waxed before delivery.
- c. Walls – 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 must be covered with a washable #20-63 Marble Stone (or equivalent) sprayed-on multi-use polychromatic coating, to create a laminate-free interior.
- i. 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.



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- d. Counter Tops – All should be recessed 3/4” to prevent equipment from sliding off. All counter top work surfaces should be finished with white multi-use poly-chromatic spray coating prior to being clear coated.
  - e. Crawl-Through – a crawl-through area should be provided between the patient compartment and the cab area. The area should be covered with a sprayed-on multi-use poly-chromatic coating.
  - f. Seating –
    - i. Attendant Seat – a rear facing EVS HiBAC attendant seat (or equivalent) shall be installed at the head of the patient cot.
      - 1. Equipped with a sliding swivel base
      - 2. Incorporated integral child safety restraint system
      - 3. Covered with color coordinated vinyl
      - 4. Equipped with an automatic retracting safety seat belt
    - ii. Squad Bench – a squad bench should be installed on the curb side of the module.
      - 1. Lid area should be approximately 16.00” wide x 72.00” long with a padded cushion of approximately 15.25” wide x 61.75” long.
      - 2. Cushion should be covered with color coordinated vinyl upholstery material and must be one-piece
      - 3. Full length continuous hinge.
      - 4. Cushion upholstery shall be sewn with seams only at the vertical corners to minimize entrapment of fluids
      - 5. Automatic latching fastener shall be installed to secure the squad bench lid in the closed position
      - 6. Provisions must be made for the trash containers to be installed in the squad bench base
        - a. 8 qt. trash container installed in the forward end of the squad bench base. The containers shall be access through the squad bench lid, and covered with a 3/8” thick clear acrylic hinged lid with a biohazard warning label.
      - 7. Automatic locking, retractable red seat belts shall be provided for three (3) people while seated on the squad bench or for one (1) person lying down.
      - 8. Two (2) spring loaded type hold -opens shall be installed, one (1) each end of the squad bench lid.
      - 9. Squad bench face should be covered with vinyl flooring material.
      - 10. A storage area should be provided in the squad bench base. The interior dimensions of the storage area shall measure approximately 15.50” high x 72.00” wide x 18.50” 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.
      - 11. A removable net shall be installed at the forward end of the curbside squad bench. The net shall be black in color and constructed of safety belt webbing material. The net shall be anchored to the curbside wall, ceiling, and the forward end of the squad bench into .50” thick aluminum



- tapping plates. The net shall be removable for cleaning, via the use of seatbelt type buckles.
- iii. CPR Seat – Fixed
    - 1. A CPR seat should 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 seat shall be equipped with a red automatic locking, retractable seat belt.
    - 2. Storage shall be provided for beneath the CPR seat.
  - iv. Padding – 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.
    - 1. Padded corner edging should be installed where necessary on exposed corners and edges in the patient compartment.
  - g. Upholstery - All cushions, head pads and seats shall be covered with Spradling International “Arctic” Charcoal #9017 expanded vinyl upholstery material (or equivalent).
    - i. The arctic vinyl and all foam cushion material shall comply with FMVSS #302 flame spread requirements.
6. Electrical System – Microprocessor based, multiplex system required
- a. Weldon V-MUX (or approved equal) is being specified throughout this bid, as it is a non-proprietary system.
    - i. Any other electrical system proposed by bidders, whether proprietary or not, must meet or exceed the detailed specifications of the Weldon V-MUX system and must be preapproved, in writing, by White County prior to the bid date.
    - ii. All bidders must supply with their bid a listing of not less than 100 ambulances produced with the electrical system they are proposing, within the last eight (8) years. This list should include the production date and purchaser’s agency name.
    - iii. Load management, load shedding, power modulation, load sequencing capabilities, and on-board diagnostics are required.
    - iv. Two (2) color control consoles (Vista) (or approved equal)
    - v. Three (3) control nodes (Hercules) (or approved equal)
    - vi. Cab warning display with video input and monitoring
  - b. Daytime running lamps – operable when vehicle is placed in drive (unless standard on chassis)
  - c. Master Control Console – Vista IV (or approved equal) push button floor mounted in cab. Should house siren and 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.
    - i. Warning Display – integrated into the cab display console and program to provide visual and audible indications for parking brake set/release condition, patient status alarm, outside storage compartment “door open” warnings, low voltage alarm, and low oxygen pressure alarm.



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- d. Attendant Control Panel – Vista IV (or approved equal) push button with color microprocessor screen which controls all equipment installed in the patient compartment
- e. Electrical Compartment – PDQ should hold electrical components and must be lockable. Compartment should be located behind attendant’s seat.
- f. Spare Circuit – a spare 15 amp circuit should be provided
- g. Wiring Harness Connectors – connected via quick connect circular plug connectors
- h. Radio Tie-In Points – installed and labeled in the lower area of the electrical compartment and should be comprised of insulated terminal stud blocks with one “battery hot” and one “ignition hot.”
- i. Emergency Master Switch – A single emergency master switch should be supplied for activating all the emergency warning lights and should be provided on the master control console screen. The emergency master switch will activate the module power automatically.
- j. Control Panel Switches – dimmable perimeter backlighting
- k. Module Power Switch – located on both master control and attendant control panels
- l. Module Disconnect – an In-Power disconnect with a built-in adjustable timer should be installed to keep the module power switch engaged for five minutes, after the ignition is switched to the off position. This disconnect should also be activated from the side and rear doorways to turn on the fluorescent check-out lights.
- m. Voltmeter – should be provided for on the master control screen
- n. Flashing Headlights – the high beams should be programed through the multiplex system to alternate flash (wig-wag), activated by a switch on the master control console screen, with the ignition on and the module power and emergency master switches enabled. The flashing lights should be disabled when the low or high beams are activated or when the transmission is placed in neutral/park position.
- o. Park Override – reactivate all lights disabled when the transmission is placed in neutral/park position.
- p. Load Manager Sequential Switching System – The load manager-sequential switching system should be controlled by the microprocessor based electrical system. The emergency master switch should control the sequential switching of the emergency lights and/or other warning devices. The load manager should 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.
- q. Warning Lights Switch – All flashing module warning lights should be operated from a single switch on the master control console screen.
- r. Front Clear Disable Switch – All forward facing clear warning lights should be disabled from a single switch on the master control console screen.
- s. Curbside Scene Lights – Should activate when the curbside door is in the open position. A disable switch should be available at the curbside door area to disable the lights.
- t. Rear Scene Lights – Should activate when the rear doors are in the option position. A disable switch should be available at the rear door area to disable the lights.
- u. Reverse (Transmission) Functions – Activation of the rear outboard warning lights, the rear side warning lights, the rear scene lights, and the



rear side scene lights, when the transmission selector lever is placed into “reverse” position.

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

7. Electrical (General)

a. Circuits –

- i. All electrical circuits should have wiring and circuit protection suitable to the demand and must meet the national electric code (NEC) wiring requirements.
- ii. All added on wiring (18 GA through 10 GA) shall be color coded and stamped with code numbers and functions at least every 4” for easy identification (all other wiring shall be color coded). SLX high temperature thermoplastic cross link wire, or equivalent, should be used.
- iii. SGX insulated cable, or equivalent, shall be used for all under hood / underbody battery and charging system cable. High temperature (375°F) thermoplastic loom must be used on all harnesses.

- b. Ground Fault Circuit Interrupter – 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.

c. Outlets –

i. 125VAC – Four (4) Interior Duplex

- 1. Four (4), 2-wire +plus ground 125 VAC hospital-grade duplex outlets must be installed in the patient compartment with wiring connected to the shoreline.
  - a. Two (2) outlets should be installed in the street side cabinet action area, one (1) forward and one (1) rearward, to supply 125 VAC to the monitoring equipment.
  - b. One (1) outlet should be installed in the lower front wall cabinet
  - c. One (1) outlet should be installed in the curbside wall above the squad bench.
  - d. An indicator lamp must be located within each 125 VAC outlet as a line monitor to indicate a live circuit. The outlets should be labeled, “125 VAC”.

ii. 12VDC – Two (2) Interior Powerpoint

- 1. Two (2) 12 VDC power point outlets should be installed in the patient compartment,
  - a. One (1) in the front wall equipment area
  - b. One (1) in the attendant control panel area in the street side cabinet.
  - c. The outlets should be labeled, “12 VDC”. A Schottky, or equivalent, diode medical isolator must be provided to protect the 12 VDC outlets.



- d. Receptacle Shoreline Inlet –
    - i. A Kussmaul (or equivalent) super auto eject shoreline inlet receptacle with yellow cover must be installed on the module exterior (forward street side) near the driver's door.
    - ii. The receptacle should be equipped with an integral dynamic disconnect.
    - iii. The 125 VAC, heavy duty 20-amp circuit breaker must have GFCI protection and should be connected to the lighted 125 VAC patient compartment outlet(s) and to the engine block heater (with a block heater circuit breaker in the load center).
    - iv. A mating connector should be supplied and shipped loose with the completed ambulance.
  - e. Outlet 125VAC – 4 Outlet Power Strip
    - i. One (1) Tripp-Lite (or equivalent) 9 inch metal power strip shall be provided and installed. The outlet strip shall contain four (4) NEMA 5-15R-HG hospital-grade outlets with 1.28” center to center spacing and two (2) 15-amp resettable circuit breakers. The install location should be set at ACP area counter level.
  - f. Inverter – A Vanner (or equivalent) 20-1050CUL-DC, 1050 watt inverter with battery conditioner/charger, with remote switch, shall be provided and installed.
8. Lighting – interior, exterior, and emergency
- a. A switch shall be located at the curb and rear entry doors that will allow activation of the V-MUX (or approved equal) 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 bank of 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.
  - b. Eight (8) Tecniq (E08-LC10-1) 18 LED dome lights (or equivalent), should be provided in the patient compartment. The dome lights must 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.
  - c. Two (2) Tecniq (E30-L010-1) 21 LED lights (or equivalent) shall be mounted on the angled panel above the street-side interior cabinets. These lights should be three way switched from the attendant control panel and the master control console.
  - d. The vehicle shall have five (5) amber Tecniq LED (S33-AA00-1) clearance / ICC lights (or equivalent) on the front of the module near the roof line.
  - e. Each outside storage compartment should be equipped with one (1) or more clear Truck-Lite (or equivalent) brand lights, activated by magnetic switch.
  - f. Seven (7) Whelen 600 series super LED warning lights (or equivalent) with chrome bezels shall be installed on the module front. There must be six (6) red with clear lens and one (1) clear lights. The lights shall operate from a switch on the master control console, labeled “Flashers”.
  - g. One (1) pair each of Whelen 600 series LED stop/tail lights, turn lights, and LED back-up lights (or equivalent) with chrome bezels shall be installed on the rear of the module.
  - h. The vehicle shall have five (5) red Tecniq LED (S33-RR00-1) clearance / ICC lights (or equivalent) on the rear of the module near the roof line.



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- i. Four (4) Whelen 600 red super LED (or equivalent) warning lights with clear lens, two (2) Whelen LED scene/load lights (or equivalent), and one (1) Whelen 600 series amber super LED (or equivalent) warning light with clear lens should be installed on the rear of the module. The lights should have chrome flanges and shall be operated from switches on the master control console labeled “Flashers” and “Rear Scene Lights”.
  - j. One (1) Whelen OACOEDCR LED license plate light (or equivalent) with 45 degree angled chrome-plated bezel shall be installed on the rear of the module, lower left side.
  - k. The vehicle shall have two (2) red Tecniq LED (S33-RR00-1) clearance / ICC lights (or equivalent): one (1) red on each side at the rear of the vehicle which will also function with the turn signals.
  - l. Four (4) LED scene lights (or equivalent) with chrome flanges shall be installed, two (2) each module side, inboard of the warning lights. These lights should operate from switches on the master control console labeled “Left Scene Light” and “Right Scene Light”.
  - m. Four (4) Whelen 900 series red super LED warning lights (or equivalent) 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”.
  - n. Two (2) Whelen 700 series red super LED (or equivalent) warning lights with clear lenses, chrome flanges and water-proof 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”.
  - o. Two (2) Whelen 500 series red super LED warning lights (or equivalent), 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 “Flashers”.
  - p. Two (2) Whelen 500 series red super LED warning lights (or equivalent), with clear lens, chrome flanges and water-proof connectors, shall be mounted on the front chassis fenders, one (1) on each side. The lights shall operate from a switch on the master control console labeled “Flashers”.
9. Heat/Air Conditioning
- a. High capacity 620 CFM heater/air conditioner system
  - b. 60,000 BTU heating capacity
  - c. 38,000 BTU cooling capacity
  - d. 10-speed blower
  - e. Controlled through, the pulse-width-modulated output of the microprocessor based electrical system, installed for high volume air movement with minimal noise.
  - f. The heater/air conditioner air return must be filtered to minimize contamination of the heater/air conditioner cores.
  - g. The cab and module environmental systems should be simultaneously capable of heating in the front while cooling in the rear and vice-versa.
  - h. Thermostatically controlled rear system for heating and air conditioning the patient compartment, built into the attendant control panel screen and cab master control screen.
  - i. Heating and cooling should be able to be selected automatically or manually
  - j. The heater/air conditioner system shall function only when the ignition system and the module power switch are on.
  - k. The rear heater shall have EPDM/Nomex (or equivalent) heater hoses.



- l. The rear air conditioner shall have barrier air conditioner hoses for R-134A refrigerant.
        - m. Full module HVAC controls shall be located on both the rear ACP screen and the cab MCC screen.
10. Siren – Whelen 295-HFSA 7 (or equivalent) – Remote with Microphone
  - a. A Whelen 295-HFSA7 (or equivalent) 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.
  - b. Two (2) Whelen SA315 speakers (or equivalent), 100 WATT, flush mount in front bumper opening.
  - c. Remote amplifier
  - d. Six function siren, radio repeat, and public address
  - e. Duel and mono mode operation
  - f. 12 tones: air horn, wail, piercer, manual coast to stop, manual, mechanical coast to stop, hi/low, yelp 249, warble, whoop, mechanical tone
11. Radio Antenna – Three (3) radio antenna bases, with attached coax cables should be installed on the module roof as follows:
  - a. One should terminate at the PDQ
  - b. One should terminate behind the driver seat in chassis cab
  - c. One should terminate at center console in chassis cab
  - d. Access to the antenna base should be made through an adjacent interior light or equivalent access point.
12. Cot – Ferno brand (or equivalent)
  - a. A Ferno (or equivalent) cot rear capture/safety hook should be provided and installed.
  - b. A Ferno (or equivalent) crash stable, single-position (center mount) cot fastener should be installed on the module floor to accommodate a Ferno (or equivalent) series cot.
  - c. A Ferno (or equivalent) brand cot is requested to be installed in the ambulance upon delivery
13. Oxygen System/Connections –
  - a. One (1) Ohio Medical (or equivalent) flush mounted, quick release oxygen outlet shall be installed in the ceiling above the head of cot in the center mount position.
  - b. Three (3) Ohio Medical (or equivalent) flush mounted, quick release wall outlets shall be installed. Two (2) in the forward street side cabinet action area and one (1) shall be installed in the wall above the squad bench.
  - c. System should 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.
  - d. System should be completely low pressure, and the regulator shall be fastened directly to the cylinder.
    - i. 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.
    - ii. The oxygen cylinder will be provided by White County.
  - e. The oxygen system monitor must 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.



- f. The system shall be tested and tagged in conformance with NFPA-56-F and KKK-A-1822F.
- g. The manual O2 system shall have flexible conductive oxygen hose with a minimum of 900 lb. burst rating installed between the O2 storage compartment and the oxygen receptacle(s).
  - i. The system shall be tested and tagged in conformance with NFPA-56-F and KKK-A-1822F.

14. Miscellaneous

- a. Aspirator/Suction –
  - i. Rico RS-4X (or equivalent) suction system
  - ii. 12 VDC electric vacuum pump
  - iii. Installed on action wall counter near attendant's seat
  - iv. Activated by a switch on the attendant's control panel
  - v. Vacuum pump exhaust must be vented to exterior of vehicle
- b. Assist Handles –
  - i. A total of six (6) 10-7/8" black vulcanized rubber with steel core assist handles installed as follows:
    - 1. One (1) handle on each rear door, total of two (2)
    - 2. One (1) on the curbside door
    - 3. One (1) at the curbside doorway
    - 4. Two (2) at the rear doorway.
- c. Grab Rails –
  - i. One (1) 1-1/4" diameter x 96" long stainless steel grab rail shall be installed on the ceiling for attendant/ patient balance control
    - 1. Attached to the ceiling with three (3) mounting brackets that secure it to the super structure of the module.
    - 2. Installation of the grab rail shall comply with AMD-008 requirements.
- d. IV Hangers –
  - i. Two (2) Perko #1309 (or equivalent) I.V. hangers shall be installed as follows:
    - 1. One (1) shall near the street side cabinet
    - 2. One (1) above the squad bench.
  - ii. A Velcro strap should be provided at each position to stabilize the bag or bottle.
- e. Emblems/Signage Inside –
  - i. Two (2) signs total, each of which display the following:
    - 1. "No Smoking"
    - 2. "Oxygen Equipped"
    - 3. "Fasten Seat Belts"
  - ii. One (1) sign shall be installed in the cab and one (1) above the oxygen outlets in the patient compartment street side cabinet.
- f. Dry Erase Board –
  - i. A 12.50" x 35" dry erase board installed on the curbside wall
- g. Glove Dispenser –
  - i. A single box glove dispenser unit, with a clear plexi hinged access panel with cut-out, shall be recessed on the rear passage doors, one each door.
- h. Custom Graphics Package – prospective bidders are encouraged to contact White County for specific details regarding graphics requested. The graphics supplied on this ambulance must match the existing White County Fleet which includes, but is not limited to, the following:



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- i. Striping – An 11” orange Scotchlite (or equivalent brand) reflective stripe must be installed as per Tennessee EMS regulations
  - ii. Custom Lettering – Apply KKK, DOT, Ambulance, and Star of Life decals as per Tennessee EMS regulations. This includes a new roof star of life reflective decal. A painted-on, simulated star-of-life will not be acceptable. Appropriate unit numbering must be placed on the roof, sides, and rear as per TN EMS regulations
15. Rear View Camera – A color camera system connected to the cab Vista (or approved equal) 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 (or approved equal) screen. This camera image shall automatically be displayed on the MCC Vista (or approved equal) when the vehicle is placed in reverse. The Vista (or approved equal) should resume normal operation when the vehicle is taken out of reverse.

### Section III – Warranty

The manufacturing company must provide a standard manufacturer’s warranty, which at a minimum must include:

1. A warranty on the ambulance conversion is required. The manufacturing company shall warrant to the original retail purchaser (White County) that, for a period of thirty-six (36) months or thirty-six thousand (36,000) miles from the point of delivery, whichever occurs first, that ambulance conversion shall be free of substantial defects in manufacturing materials and manufacturing workmanship, which are attributable to the manufacturing company’s work and which arise during the normal course of the ambulance’s use and service. A copy of the manufacturing company’s warranty statement must be included as part of the bid document.
2. A seven (7) year or eighty-four thousand (84,000) mile warranty on the ambulance electrical multiplex-based wiring system is required. The warranty period should start only upon acceptance of the ambulance by White County. The electrical components manufactured and installed by the chassis manufacturer should not be included in this specific warranty by the ambulance manufacturer. A copy of the electrical warranty statement must be included as part of the bid document.
3. A lifetime ambulance module structural warranty is requested. A copy of the structural warranty must be included as part of the bid document.
4. A seven (7) year or eighty-four thousand (84,000) mile warranty on the PPG paint is required. A copy of the paint warranty must be included as part of the bid document.

The ambulance manufacturer responding to this invitation to bid must have a comprehensive ambulance service and repair facility in the middle/middle-east area of Tennessee so as to quickly administrate warranty repairs as needed. This facility must be within 150 miles of Sparta, Tennessee. The manufacturer must have authorized factory trained service specialist and carry the necessary inventory levels to affect prompt repair. The manufacturer shall have the right to contract with a local agency, properly equipped and trained to handle warranty and repair issues. Such contracted local agency must have trained emergency vehicle technicians on staff. A signed letter from the contracted facility granting their agreement as a repair facility for the manufacturer must be included as part of the bid documents.

Please list the location of comprehensive service and repair facility to be utilized by White County:

Business Name: \_\_\_\_\_

Street Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_



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Section IV – KKK-A-1822F Compliance

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.

Section V – Manuals

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

1. Ambulance manufacturer parts, service and operation manuals
2. OEM chassis owner's guide
3. Complete 12 VDC and 125 VAC wiring schematics for all included standard and optional systems
4. Multiplex electrical system programming on electronic media

Section V – References

Please provide at least three references for ambulance manufacturing you have completed within the six months for ambulance services. Tennessee services are preferred.

Service Name: \_\_\_\_\_

Contact Name and Title: \_\_\_\_\_

Street Address: \_\_\_\_\_

City/State/Zip Code: \_\_\_\_\_

Phone: \_\_\_\_\_

E-Mail: \_\_\_\_\_

Service Name: \_\_\_\_\_

Contact Name and Title: \_\_\_\_\_

Street Address: \_\_\_\_\_

City/State/Zip Code: \_\_\_\_\_

Phone: \_\_\_\_\_

E-Mail: \_\_\_\_\_

Service Name: \_\_\_\_\_

Contact Name and Title: \_\_\_\_\_

Street Address: \_\_\_\_\_

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Phone: \_\_\_\_\_

E-Mail: \_\_\_\_\_



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Exceptions or Clarifications – Please note any exceptions taken or clarifications being made to the specifications outlined in this invitation to bid. Please reference the specification being addressed and clearly detail the proposed exception or clarification.

Section Number	Item Number	Exception/Clarification



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