

# **MONROE COUNTY**

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## **MONROE COUNTY BOARD OF COMMISSIONERS**

**INVITATION TO BID**

**FOR**

**PURCHASE OF TWO AMBULANCES**

**FOR**

**MONROE COUNTY GOVERNMENT**

**BID NUMBER – CGD1114-01-20**

**Monroe County Department of Finance  
103 College Street South Ste 9  
Madisonville, Tennessee 37354  
(423) 442-9383**

**Monroe County Board of Commissioners**  
**Madisonville, Tennessee 37354**  
**(423) 442-9383**

**Bid Prepared By:**

**Invitation to Bid Number:**

**Monroe County Finance Department**

**CGD1114-01-20**

**January 23, 2020**

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Sealed bids, subject to the specifications and conditions contained herein and attached hereto, will be received in the Finance Department, J.P. Kennedy Building, until, but no later than **10:00 A.M. (EST.)** local time prevailing, **January 23, 2020**, and then publicly opened and read for the Purchase of Two Ambulances for Monroe County Government, as authorized by the Monroe County Board of Commissioners.

No bid can be withdrawn after the scheduled closing time for receipt of bids for sixty (60) calendar days.

To be considered, your bid must be submitted on the copy of this Invitation to Bid. Bidders shall sign this form in the space provided and submit bid document to Monroe County Department of Finance, 103 College Street South Ste. 9, Madisonville, TN 37354. Bids shall be returned in the enclosed bid envelope, properly completed and sealed. Bids will not be accepted via fax machine or e-mail.

Time is of the essence and bids received after the announced time and date for submittal, whether by mail or otherwise, will be rejected. The date and time stamp in the Finance Department shall determine the time of receipt. Bidders are responsible for ensuring that the Finance Department personnel stamp their bids before the deadline indicated. Late bids received will be so noted in the bid file in order that the vendor's name will not be removed from any future bid/vendor list.

If you desire not to quote on the Invitation, please forward your acknowledgment of NO BID. Return of the "Terms and Signature Sheet" with authorized signature and indication of NO BID is appropriate. Failure to comply may cause for removal of your company's name from the bid list for subject commodity.

It is the policy of Monroe County, Tennessee to ensure compliance with Title VI of the Civil Rights Act of 1964; 49 CFR, Part 21. No person shall be excluded from participation in or be denied the benefits of, or be subjected to discrimination under any program or activity receiving federal financial assistance on the grounds of race, color, sex, disability, or national origin.

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party hereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to § 12-12-106

**1. Award**

Owner reserves the right to reject any or all Bids/Proposals, including without limitation, nonconforming, nonresponsive, unbalanced, or conditional Bids/Proposals. Owner further reserves the right to reject the Bid/Proposal of any Bidder whom it finds, after reasonable inquiry and evaluation, to not be responsible. Owner may also reject the Bid/Proposal of any Bidder if Owner believes that it would not be in the best interest of the Project to make an award to that Bidder. Owner also reserves the right to waive all informalities not involving price, time, or changes in the Work and to negotiate contract terms with the Successful Bidder. More than one Bid/Proposal for the same work from an individual or entity under the same or different names will not be considered. Reasonable grounds for believing that any Bidder has an interest in more than one Bid/Proposal for the Work may be cause for disqualification of the Bidder and the rejection of all Bids/Proposals in which that Bidder has an interest. If the Contract is to be awarded, Owner will award the Contract to the Bidder whose Bid/Proposal is the best interest of the Project. Disputes arising from the award of the Bid/Proposal must be submitted in writing to the Monroe County Purchasing Agent and received no later than three (3) calendar days from contract award date. In the event no funds are appropriated by Monroe County for the goods and services specified or insufficient funds exist for future orders, Monroe County is under no obligation to make a contract award, contract renewal, or purchase.

**2. Preparation of Bid/Proposal**

- (A) Vendors are expected to examine all Bid/Proposal documents. Failure to do so will be at the vendor's risk.
- (B) Each vendor shall furnish all information required by the request. The vendor shall sign the Bid/Proposal documents; erasures or other changes shall be initialed by the person signing the offer.
- (C) Unit price shall include freight unless otherwise specified in the request. In case of discrepancy between any unit price and an extended price, the unit price shall govern.
- (D) Vendors must state a definite time for delivery of supplies or for performance of services unless otherwise specified in the invitation.
- (E) Delivery time, when stated as a number of days, will include Saturdays, Sundays, and holidays.

**3. Availability of Requested Items**

Vendors must accept responsibility for verifying availability of specified items prior to submission of the Bid/Proposal. Vendor shall notify the County no less than 96 hours prior to the Bid/Proposal deadline per Tennessee Code Annotated (T.C.A.) § 12-4-126 if specified items are discontinued, replaced, or will not be available for an extended period of time.

**4. Restrictive or Ambiguous Specifications**

It is the responsibility of the prospective vendor to notify Monroe County Purchasing if there is a question as to the specifications or Bid/Proposal procedures being formulated in a manner that would unnecessarily restrict competition. Any such question must be received no less than 96 hours prior to the Bid/Proposal deadline per T.C.A. § 12-4-126. These requirements also apply to specifications or procedures that are in error or ambiguous.

**5. Delivery**

Delivery will be f.o.b. destination unless otherwise specified in the bid document. This will apply to regular and normal stock items and special items which must be ordered direct from manufacturer.

**6. Federal Tax and State Sales Tax**

Purchases by the County are not subject to any state sales or federal excise taxes. Exemption certificates shall be furnished by the County upon the Contractor's request.

**7. Addenda**

No modifications to the Bid/Proposal shall be binding upon the County unless made in writing by an authorized representative of the Monroe County Purchasing Department. Bid/ Proposal addenda, if issued, are posted on the County's website: [www.monroetn.com](http://www.monroetn.com). Prior to submitting a Bid/Proposal, it is the responsibility of the vendor to ascertain that they have received all addenda issued and Bid/Propose accordingly. No addenda will be issued later than 48 hours prior to Bid/Proposal deadline per T.C.A. § 12-4-126.

**8. Submission of Bid/Proposal**

- (A) Bid/Proposal shall be enclosed in a sealed envelope and addressed to the Monroe County Purchasing Department, 103 South College Street, Madisonville, TN 37354. The name and address of the vendor shall be identified on the face of the envelope along with the Bid/Proposal number and title. Bids/Proposals for construction projects exceeding \$25,000 must include the required contractor license information on the face of the envelope per T.C.A. § 62-6-119.
- (B) Monroe County does not accept Bids/Proposal by facsimile or any electronic transmission. See Clause 9 under Terms and Conditions of the request for Bid/Proposal regarding Bid/Proposal modifications or withdrawal.
- (C) Samples of items, when required, must be submitted within five (5) calendar days and at no expense to the County unless otherwise specified by the County. If not consumed by testing, samples will be returned at vendor's request and expense unless otherwise specified in the Invitation.

**9. Modification or Withdrawal of Bids**

Bids/Proposal may be modified or withdrawn by signed written notice to Monroe County Purchasing or in person by an authorized vendor representative provided the modification or withdrawal is received prior to the Bid/Proposal deadline. A vendor representative making a modification in person shall have proper identification and shall initial the charge. The vendor representative shall sign a receipt for the withdrawal of a Bid/Proposal. A telegraphic notice with an authorized signature would be acceptable for Bid/Proposal modification or withdrawal. It is the vendor's responsibility to confirm receipt of the modification or withdrawal. The telegraphic communications shall not reveal the Bid/Proposal price but shall provide the addition, subtraction or other modifications so that the final prices or terms will not be known by the County until the sealed bid is opened.

**10. Late Bids/Proposal**

It is the responsibility of the vendor to deliver their bids or proposal modification on or before the deadline date and time. The time of record will be the date/time stamp of the Monroe County Finance Department. Late Bids/Proposals will not be considered or returned.

**11. Qualifications of Vendors**

In evaluating Bids/Proposals, Owner will consider whether or not the Bids/Proposals comply with the prescribed requirements, and such alternates, unit prices and other data, as may be requested in the Bid/Proposal Form or prior to the Notice of Award. Owner will consider the qualifications of Bidders/Proposers and may consider the qualifications and experience of Subcontractors, Suppliers, and other individuals or entities proposed for those portions of the work which the identity of Subcontractors, Suppliers, and other individuals or entities must be submitted. Owner may conduct such investigations as Owner deems necessary to establish the responsibility, qualifications, and financial ability of Bidders, proposed Subcontractors, Suppliers, individuals, or entities proposed for those portions of the Work in accordance with the Contract Documents. The County may make such investigations as are deemed necessary to determine the ability of the vendor to perform the work and the vendor shall furnish all such information and data for this purpose as the County may request. The County reserves the right to reject any Bid/Proposal if the evidence submitted by or investigation of such vendor fails to satisfy the County that such vendor is properly qualified to carry out the obligations of the contract and to complete the work contemplated therein.

**12. Subcontracts**

The vendor is specifically advised that any person, firm, or other party to whom it is proposed to award a subcontract under this contract must be acceptable to and approved by the County.

**13. Non-Collusion**

The requirements of State and Federal Antitrust Law, as well as the terms and conditions of the Bid/Proposal, require that all decisions made as to matters concerning this Bid/Proposal be made on an individual firm basis. By signing this Bid/Proposal, the vendor certifies that no company employees, agents, or representatives colluded in any respect with any other person or firm as to the terms and conditions of the company's Bid/Proposal. Any concerted activity with respect to this Bid/Proposal will be reported to the Antitrust Division of the Office of Attorney General, State of Tennessee

**14. Compliance with Applicable Laws**

The vendor shall comply with all laws relating to the manufacture, sale and purchases of items or services by County Governments insofar as they pertain to the purchase made under this contract.

**15. Bid/Proposal Acceptance**

Bid/Proposal prices quoted shall be subject to acceptance by the County for a period of sixty (60) calendar days from the Bid/Proposal deadline, unless vendor indicates otherwise in their Bid/Proposal. If awarded the Bid/Proposal within the time frame specified, vendor agrees to furnish all services described or specified

**16. ACCEPTANCE OF BID CONTENT**

The successful contractor's bid content shall become a contractual obligation if procurement action ensues. Failure of the successful proposer to accept these obligations in a contractual agreement may result in cancellation of the award.

**17. Notification to County**

If no Bid/Proposal is to be submitted in response to this Bid/Proposal, it is not necessary to return the request; however, notice should be given to the County if the recipient wishes to remain on the County's vendor list for future solicitations.

**18. Standard Contract**

Monroe County reserves the right to incorporate standard county contract provisions into any contract negotiated as a result of any Bids/Proposals submitted in response to the Request for Bid.

**19. News Releases**

News releases pertaining to this procurement or any part of the Bid/Proposal shall not be made without the written approval of the County Purchasing Director.

**1. Definitions**

- A. The “County” is Monroe County, Tennessee, and includes its designated representatives.
- B. The “Contractor” is those mentioned as such “contractor, seller, vendor, supplier”, in the contract and includes their designated representatives.
- C. The “Specifications” include instructions to vendors, the terms and conditions of purchase, the definitions and the technical specifications of the work.
- D. A “Subcontractor” is a person, firm or corporation having a contract with the Contractor to furnish labor and materials or both, or who perform services of the project.
- E. “Calendar Days” are consecutive days, as occurring on a calendar without regard to the day of the week, month, year, or holidays.
- F. The National Institute of Governmental Purchasing (NIGP) Online Directory of Procurement Terms, at [www.nigp.org](http://www.nigp.org), will govern on questions as to any other definition in this contract.

**2. Contract Terms**

Upon award, the performance of the contract shall be covered solely by the terms and conditions set forth herein. Authorization to furnish goods/services will be made via purchase order, or blanket order as appropriate, signed by the County Purchasing Agent and Finance Director or other designated personnel. Any language contained on any invoice, shipping order, bill of lading or other document furnished by the seller at any time and the acceptance by the County of any goods/services to be furnished hereunder accompanied by any such document shall not be construed as an acceptance by the County of any terms or conditions contained in such document which are inconsistent with the terms and conditions set forth in this Invitation. Any different or additional terms contained in the seller’s acceptance are hereby objected to.

**3. Contract Modification**

The contract expresses the complete agreement of the parties. Any changes hereto must be in writing and signed by the County Purchasing Agent. No other individual is authorized to modify the contract in any manner.

**4. Delivery Requirement**

To insure adequate service level to the people, Monroe County requires that all goods or services ordered will be delivered when specified. Time is, therefore, the essence of this contract. If deliveries are not made or services performed at the time agreed upon, the County reserves the right to cancel and purchase elsewhere and hold seller accountable therefore.

**5. Transportation Charges**

When terms of delivery or conditions of this order are f.o.b. destination, all transportation charges shall be paid by the seller.

**6. Packaging**

The County will not be liable for any charges for packaging, crating, carting, drayage, or storage in excess of the purchase price of this order unless stated otherwise herein.

**7. Quantities**

The County assumes no obligation for articles or materials shipped in excess of the quantity ordered hereunder. Any unauthorized quantity is subject to the County’s rejection and return at seller’s expense.

**8. Indemnification and Insurance**

If any work covered by this contract is to be done on the County’s premises, Contractor agrees to carry liability and Worker’s Compensation insurance satisfactory to the County and to indemnify the County against all liability, loss and damage arising out of any injuries to persons and property caused by the Contractor, his employees or agents. The Contractor will furnish written evidence of such insurance coverage.

**9. Inspection and Acceptance**

The Contractor shall be responsible for all material or service until they are delivered and accepted. No material or service received by the County pursuant to this contract shall be deemed accepted until the County has had reasonable opportunity to inspect said material or service. All material discovered to be defective or does not conform to any warranty of the seller herein, upon initial inspection or at any later time if the effects contained in the material were not reasonably ascertainable upon inspection, may be returned at the seller’s expense for full credit or replacement. No goods returned as defective will be replaced without buyer’s written authorization. Such return shall in no way affect the County’s discount privileges or exclude any other legal, equitable or contractual remedies the County may have therefore. Performance of services shall be completed to the County’s satisfaction.

**10. Warranty**

The seller expressly warrants that all goods and work covered by this contract will conform to each and every specification, drawing, sample or other description which is furnished to or is adopted by the County and that they will be fit and sufficient for the purpose intended, merchantable, of good material and workmanship, and free from defect. Such warranty shall survive delivery and shall not be deemed waived either by reason of the County’s acceptance of said goods or work or by payments for them.

**11. Invoices**

Invoices shall be submitted to address as noted on Purchase Order. Invoices shall contain the following information: purchase order number, item number, contract description of supplies or services, quantities, unit prices and extended totals. Delay in receiving invoices and errors in omissions on statements or invoices will be considered just cause for withholding settlement without losing privileges.

**12. Notice and Service Thereof**

Any notice to any contractor from the County relative to any part of this contract will be in writing and considered delivered and the service thereof complied when said notice is posted with said contractor or his authorized representative.

**13. Acts of God**

Neither party shall be liable for delays, or defaults in the performance of this contract due to Acts of God or the public enemy, riots, strikes, fires, explosions, accidents, governmental action of any kind or any other causes of similar character beyond their control and without their fault or negligence.

**14. Patents**

The seller guarantees that the articles described herein and the sale or use of them will not infringe upon any U.S. or foreign patent. The seller covenants that he will, at his own expense, defend every suit which may be brought against the County, or those selling or using the County's product (provided seller is promptly notified of such suit and all papers therein are delivered to the seller) for any alleged infringement of any patent by reason of the sale or use of such articles and seller agrees that he will pay all costs, damages and profits recovered in any such suit.

**15. Bankruptcy or Insolvency**

In the event of any voluntary or involuntary proceedings by or against either party in bankruptcy or insolvency, or for the appointment of a receiver, trustee or an assignee for the benefit of creditors of the property of seller, or in the event of breach of any of the terms hereof including the warranties of the seller, the County may cancel this contract or affirm the contract and hold the seller responsible for damages.

**16. Public Notice – Title VI of the 1964 Civil Rights Act**

“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 or activity receiving federal financial assistance.”

Anyone who believes that an agency or local government receiving federal financial assistance has discriminated against someone on the basis of race, color, or national origin has a right to file a complaint within 180 days of the alleged discrimination. Inquiries and charges of violations concerning Title VI should be directed to the Human Resource Director of Monroe County.

**17. Non-Conflict**

No employee, officer or agent of Monroe County shall participate in the selection, or award of, or administration of a contract if a conflict of interest, real or apparent, would be involved.

**18. Provisions Required by Law Deemed Inserted**

Each and every provision of law and clause required by law to be inserted in this contract will be deemed to be inserted herein and the contract will be read and enforced as though it were included herein, and if through mistake or otherwise any such provision is not inserted, or is not correctly inserted, then upon application of either party the contract will forthwith be physically amended to make such assertion or correction.

**19. Termination of Contract**

The County reserves the right to terminate the contract at any time if any of the provisions of the contract are violated by the contractor or by any of his subcontractors, in the sole judgement and discretion of the Purchasing Agent. In the event of such termination, the Contractor shall be liable for any excess cost incurred by County. If the contract is so terminated the County may purchase, upon such terms and in such manner as the County Purchasing Agent may deem appropriate, supplies or services similar to those so terminated and the Contractor will be liable for excess cost occasioned thereby. In the event the contract is terminated by the County for due cause, the vendor may be barred from bidding on County contracts for a period of 12 months.

The Contract may be cancelled without cause by either party with the giving of written notice of no less than 60 calendar days.

# **SPECIFICATIONS**

## Monroe County Ambulance Bid Specifications

EMERGENCY MEDICAL VEHICLE – Type I Ford F-350 Diesel

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# Ambulance Bid Specifications

EMERGENCY MEDICAL VEHICLE – Type I Ford F-350 Diesel

## **SCOPE & GENERAL REQUIREMENTS**

This specification describes a commercial cab chassis with a transferable modular body converted into a Type I, 4X2 ambulance configuration as defined in the currently approved Federal Specification for Star-of-Life Ambulance KKK-A-1822 inclusive of all GSA change notice requirements through CN #11. Unless otherwise specified, this vehicle shall be manufactured in accordance with these current requirements along with the design and safety requirements of the National Highway Traffic Administration and the U.S. Department of Transportation. Documentation shall be submitted with the bid that validates the manufacturer's current and full compliance with the current KKK-A-1822 requirements or submits proof of the manufacturer's intent to have this testing completed prior to delivery of the proposed new ambulance. The completed vehicle shall not be accepted if not in full compliance. The ambulance described herein shall be type and model tested to and in compliance with the National Truck Equipment Association's Ambulance Manufacturing Division, Standards 001 – 027 and all currently required SAE test requirements. Certifications must be current to manufacturer's most recent manufacturing/engineering design criteria.

The standard for the configuration and design of this ambulance exceeds the current KKK Federal Specification due to the requirements of this department. Manufacturers who are unwilling or unable to meet the requirements herein will not be considered.

The primary manufacturer shall submit proof that it is a 'member in good standing' with the Ambulance Manufacturers Division (AMD) of the National Truck Equipment Association (NTEA).

The purpose of these specifications is to provide a set of minimum general requirements and test parameters for the manufacture of an emergency medical care ambulance that meets the needs and desires of this agency. The bidder is responsible for understanding that this specification establishes the essential criteria for design, performance, equipment and appearance of the ambulance or rescue vehicle. This specification requires an all-aluminum modular exterior and interior wall structure. The compartment and cabinet sizes are critical and changes will not be allowed. While it is not the intent of this specification to preclude any qualified bidder, it must be clear that any bidder deviating in any substantial manner from these specifications will be rejected as non-compliant.

This is an engineer, design, construct and delivery type specification and it is not the intention of this agency to write out vendors or manufacturers of similar or equal equipment of the types specified. It should be noted, however, that this specification is written around specific needs of this agency. With the intent to standardize certain components, therefore, in numerous places we have named specific brands of components. This has been done to establish a certain standard of quality. Other brands will be accepted providing the vendor provides documentation in the bid that the particular brand offered meets or exceeds the quality of the actual brand called for in the specification.

Does Your Bid Comply?                      Yes \_\_\_\_\_      No \_\_\_\_\_

All bid prices shall be complete and include warranty and delivery of the completed vehicle to the purchaser. Payment shall be made in accordance with the terms, and conditions of these specifications. Payment will be made upon delivery and acceptance of the vehicle(s) and equipment specified herein.

All bid prices and conditions must be specified on the Bid Proposal Form. Bid prices shall be valid for 30 days from the date of the bid opening, or as otherwise specified in the bid proposal. Payment in full will be made as each unit is received, inspected and found to comply with these specifications. The vehicles(s) shall be free of damage and properly invoiced.

Does Your Bid Comply?                      Yes \_\_\_\_\_      No \_\_\_\_\_

By submission of this signed bid response, the bidder certifies under penalty of perjury, that to the best of his/her knowledge that the pricing in this bid response has been prepared independently without collusion, consultation, communication, or agreement for the purpose of restricting competition, as to any matter relating to such pricing with any other bidder or competitor. The bidder also acknowledges that the pricing quoted has not been discussed with or disclosed by the bidder prior to the opening of the bid, either directly or indirectly.

Does Your Bid Comply?                      Yes \_\_\_\_\_      No \_\_\_\_\_

## **1.0 MANUFACTURER**

1.1 Shall be a modified vehicle up fitter approved by the OEM chassis manufacturer whose chassis is used to complete this Specified vehicle. Additionally, and regardless of the OEM Chassis supplier, the manufacturer shall hold current acceptance in the Ford Motor Company Qualified Vehicle Modifier Program, and shall submit documentation indicating acceptance by Ford Motor Company as a QVM Modifier as part of the bid proposal. This acceptance ensures the integrity of the “conversion” of a vehicle into an ambulance regardless of chassis make.

1.2 Shall submit a copy of current certification of compliance with current Federal Specification KKK-A-1822 requirements for the type vehicle described herein, as prepared by an ISO/IEC 17025 certified and/or in industry accepted independent, third-party testing laboratory.

1.3 Shall carry not less than ten million dollars (\$10,000,000.00) in product liability insurance.

1.4 Shall employ full-time Parts personnel.

1.5 Shall employ a full-time Electrical Engineer.

1.6 Shall employ a full-time Service/Warranty Representative.

1.7 Shall furnish custom Computer Aided Design (CAD) interior and exterior construction drawings specific to the vehicle to be produced under this Specification. Drawing dimensions must comply with AMD Standard 019- Measuring Guidelines: Cabinets and Compartments.

The drawing package shall include the following:

1. Street side Exterior Detail
2. Curbside Exterior Detail
3. Front & Rear Exterior Detail
4. street side Interior Detail
5. Curbside Interior Detail
6. Front & Rear Interior Detail
7. Overhead Floor Layout Detail
8. Overhead Ceiling Layout Detail

1.8 Shall furnish custom CAD electrical illustrations (including physical layouts of switch panels and electrical component mounts) and electrical schematics specific to the vehicle to be produced under this Specification.

1.9 Shall furnish proof of manufacturing complete ambulance packages for a minimum of 15 years.

Does Your Bid Comply? Yes \_\_\_\_ No \_\_\_\_

The ambulance and the allied equipment required by this specification shall be the manufacturer's current commercial ambulance model of the type and class specified. The ambulance shall be complete with the required options and accessories as specified herein. Items will be furnished with such modifications as may be necessary and specified to enable the ambulance to function reliably and efficiently in a strenuous, sustained operation. The design of the vehicle and the specified options shall permit accessibility for servicing, replacement and adjustment of components and accessories with minimum disturbance to other components and systems. The term "heavy-duty" as used, shall describe equipment or items that are in excess of the usual quality or capacity that is normally supplied with standard production vehicles or components.

This department requires that the manufacturer of the ambulance be a 100% American owned company. American owned defines the manufacturer as well as the majority equity owners of the manufacturer as US companies, individuals and/or stockholders.

The ambulance and the allied equipment required by this specification shall be the manufacturer's current commercial ambulance model of the type and class specified.

Does Your Bid Comply? Yes \_\_\_\_ No \_\_\_\_

The bidder shall be obligated to provide an estimated delivery time from award of bid and a selection of flooring, upholstery and graphics design and colors for the customer to make the appropriate selections. These color selections shall become a part of the customer's order and the bidders manufacturing document.

Does Your Bid Comply? Yes \_\_\_\_ No \_\_\_\_

Bidder must furnish all information as requested. Additionally, the bidder shall supply descriptive literature and complete specifications covering the products offered. Bids not meeting this requirement will be rejected. No Exceptions.

Does Your Bid Comply? Yes \_\_\_\_ No \_\_\_\_

The bidder's proposal packet shall include copies of all warranties listed in these following detailed specifications. The minimum acceptable required warranties are: Conversion Warranty, Electrical Warranty, Modular Structural Warranty and Paint Warranty. The bidder shall include a copy of these warranties within the proposal package. If the bidder does not include a copy of the warranties, the bid will automatically be rejected.

Does Your Bid Comply?                      Yes \_\_\_\_\_      No \_\_\_\_\_

## **2.0 CHASSIS**

2.1 TYPE I AMBULANCE: The apparatus shall be a Type I, Class 1, 2-door, current year model Ford F-350 Chassis Cab with a transferable, modular ambulance body.

Does your bid comply?                      Yes \_\_\_\_\_      No \_\_\_\_\_

2.2 AMBULANCE CHASSIS: The chassis provided shall be equipped with a K76 dual alternator package, PTO power take off engine control provisions. The chassis shall be designed to meet the demands and duty cycles inherent in Emergency Medical Vehicles.

Does your bid comply?                      Yes \_\_\_\_\_      No \_\_\_\_\_

2.3 PTO/ENGINE CONTROL: An O.E.M. PTO engine control shall be provided. The throttle shall be programmed for charge protect. The throttle control module shall be located in the console base.

Does your bid comply?                      Yes \_\_\_\_\_      No \_\_\_\_\_

2.4 GROSS VEHICLE WEIGHT RATING (GVWR): The GVWR of the chassis supplied shall be 13,200 pounds.

Does your bid comply?                      Yes \_\_\_\_\_      No \_\_\_\_\_

2.5 FRONT AXLE WEIGHT RATING (GAWR-F): The GAWR-F shall be rated at no less than 5,600 pounds.

Does your bid comply?                      Yes \_\_\_\_\_      No \_\_\_\_\_

2.6 REAR AXLE WEIGHT RATING (GAWR-R): The GAWR-R shall be rated at no less than 9,750 pounds.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

2.7 REAR AXLE TYPE AND RATIO: The axle type shall include the GTY wide track option and shall have a limited slip differential with a 3.73:1 gear ratio.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

2.8 ENGINE: A V-8, 397HP @ 3,000 rpm / 765 lb.-ft. of torque @ 1,600 rpm 6.6L Duramax diesel engine shall be provided. The engine package shall include the OEM engine block heater (K05) for the Duramax diesel engine. The engine performance shall comply with or exceed KKK-A-1822F and AMD Standards 005- 12-Volt DC Electrical System Test, 014- Engine Cooling System Test, 017- Road Test and 022- Cold Engine Start Test.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

2.9 TRANSMISSION: An Allison 1000 - 6-speed, electronically controlled with overdrive, electronic engine grade braking and tow/haul mode transmission shall be provided. Includes (KNP) external transmission oil cooler. (Requires (LGH) Duramax 6.6L Turbo Diesel V8 engine. Required with (YF2) Ambulance Package.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

2.10 BATTERIES/ALTERNATORS: The chassis shall be equipped with a TUV dual battery option with batteries mounted to provide easy access for servicing. The batteries shall be at least 730 CCA, 70-Amp Hr. each. The chassis shall also include a KHB dual alternator package and each alternator shall be rated at 150 AMPS AND 220 AMPS each.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

2.11 BRAKES: 4-wheel anti-lock, power assisted hydraulic brakes shall be supplied by the O.E.M. The brakes shall be 4-wheel Disc type. The parking brake shall be an independent mechanical brake, provided by the O.E.M. An exhaust brake shall be an integral part of the OEM chassis exhaust system.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

2.12 TIRES: All tires shall be identical make, tread type, size and load range. For aforementioned GVWR the tires shall be LT235/80R17E. A label with the recommended tire pressure shall be located above each wheel opening, unless specified otherwise by the purchaser. All tires shall be balanced per KKK-A-1822F 3.6.10.

2.13 STAINLESS STEEL WHEEL INSERTS: Stainless Steel Wheel Inserts shall be installed. Both rear wheels shall have braided valve extenders installed. Wheel inserts shall not be attached to the wheels utilizing the OEM lug nuts.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

2.14 MUD FLAPS: Heavy duty rubber Mud Flaps shall be provided behind the rear dual wheels.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

2.15 SPARE TIRE: One (1) spare tire and wheel assembly shall be supplied. When the tire is to be carried on the unit, the tire holds down and O.E.M. jack and tire tools shall be provided with the spare.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

2.16 OCCUPANT RESTRAINT SYSTEM: The front, forward facing cab seats shall be equipped with O.E.M. installed Type II lap and shoulder belt assemblies.

The seat belts shall have pre-tensioners built into the seatbelt assembly to take up belt slack during a frontal collision. The seat belt assemblies shall meet or exceed F.M.V.S.S. 208 and 209. Any transition trim panels installed in the cab shall not interfere with the swivel arc of the shoulder rings.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

2.17 SUPPLEMENTAL RESTRAINT SYSTEM: An O.E.M. air bag shall be installed on the driver and passenger side. Permanent or quick release ambulance conversion components shall not interfere with air bag deployment. The air bags must be completely operational. Modifications by the secondary manufacturer are not acceptable.

Does your bid comply? Yes\_\_\_\_\_ No\_\_\_\_\_

2.18 FUEL TANK: The fuel capacity shall be at least 40 U.S. gallons. The fuel range shall be at least 250 miles per KKK-A-1822F 3.4.8.

Does your bid comply? Yes\_\_\_\_\_ No\_\_\_\_\_

2.19 CAB SEATS: O.E.M. High back, stain-resistant cloth covered bucket type seats shall be provided in the cab. The seats shall adjust forward and aft. Seat base must be O.E.M. After-market seats and/or bases are not acceptable due to certified requirements regarding S.R.S. (Air bag) deployment geometry. The seats shall be moisture repellant in case of contact with blood or body fluids.

2.20 CAB STEREO: An O.E.M. AM/FM/CD in dash radio shall be included with the chassis.

Does your bid comply? Yes\_\_\_\_\_ No\_\_\_\_\_

2.21 MIRRORS: Dual, heated/power adjustable mirrors that are electrically controlled shall be provided.

Does your bid comply? Yes\_\_\_\_\_ No\_\_\_\_\_

2.22 DOOR LOCKS: The cab doors shall have O.E.M. power door locks. A momentary rocker type switch shall active (Lock/Unlock) both cab doors. The chassis shall be equipped with a remote keyless entry system including two transmitters and a panic button.

Does your bid comply? Yes\_\_\_\_\_ No\_\_\_\_\_

2.23 TRIM PACKAGE: The highest-level trim package shall be supplied from the O.E.M. The package shall include high quality chrome-like bright work on the grille face. Chrome plated steel bumper(s) shall also be supplied by the O.E.M. Argent or painted bumpers are not acceptable. The O.E.M. grille work shall remain O.E.M.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

2.24 RUNNING BOARDS: Running boards shall be constructed of .125 aluminum diamond plate and provide "splash guard" components to protect the running board surfaces from front wheel wash. The running boards shall be CNC cut, formed and punched with a computer-generated pattern designed to provide a skid resistant step surface. The splashguards and support members shall be fully welded and undercoated.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

2.25 UNDERCOATING: Chassis and module shall be fully undercoated in accordance with the chassis manufacturer's guidelines.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

2.26 WINDSHIELD SUN VISORS: OEM, stain resistant cloth covered sun visors shall be installed over the driver's and passenger's sides of the windshield.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

### **3.0 MODULE CONFIGURATION**

3.1 OVER ALL LENGTH: The overall length of the vehicle shall not exceed two hundred eighty-three inches (283"). The finished vehicle shall meet or exceed KKK-A-1822F 3.4.10.4 for Angle of Departure, Ramp Break Over and Angle of Approach.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

3.2 MODULE LENGTH: The module length shall be at least one hundred fifty (153") inches.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

3.3 MODULE WIDTH: The module width shall comply with State requirements regarding width of vehicles permitted on its roads and highways. The module shall be ninety-four (94") inches wide, excluding lights and accessories. The rear wheels of the chassis shall not extend further than 2.5" from the vertical sidewall and be covered by fender flares as cited in Item 10.5 of this Specification.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

3.4 PATIENT COMPARTMENT HEADROOM: The headroom within the module shall be seventy (70") inches. The measurement shall be taken from the center of the patient compartment floor to the ceiling panel.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

3.5 BULKHEAD CONFIGURATION: The bulkhead shall be a solid wall broken only by a 17" W x 14"H rough pass-thru opening. There shall be a sliding Lexan window of at least 150 square inches of viewing area. The window shall be transparent and shatterproof.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

3.6 COMPARTMENT CONFIGURATION: The minimum compartment dimensions are shown in the CAD drawings attached to the Specification.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

3.7 SPARE TIRE STORAGE: A full size, fully inflated spare tire matching the wheels and tires mounted on the chassis shall be shipped loose. An O.E.M. jack and tire tools shall also be provided and shipped loose.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

#### 4.0 MODULE CONSTRUCTION - GENERAL

The ambulance body shall be all aluminum. The body structure shall be manufactured by the OEM ambulance manufacturer, not an outside vendor. This Agency will not accept bids from ambulance manufacturers that sub-contract the manufacture the ambulance body being bid.

Does your bid comply?      Yes \_\_\_\_\_      No \_\_\_\_\_

4.1 BODY STRUCTURE ALLOY: The side, roof, front and rear sheets shall be derived from .090 thick 5052-H-32 Aluminum sheet. The roof sheet shall be one piece, from roof rail to roof rail. The side, roof and floor structure and structural shapes shall be 6005-T61 and/or 6061-T6 extruded structural aluminum.

All frame and structural members shall be MIG (metal inert gas shielded) welded together to form a "roll cage" type structure. No rivets, screws, adhesive or other mechanical fasteners shall be used for the attachment of any structural or frame member used to form this critical structure.

Does your bid comply?      Yes \_\_\_\_\_      No \_\_\_\_\_

4.2 BODY WARRANTY: The body shall carry a 15-year warranty following the date of delivery to the end user. The warranty shall cover repairs or replacement of body elements or components that fail due to structural defects in materials and workmanship. "Life Time Warranties" shall not be acceptable, unless the protection coverage is CLEARLY specified and attached in its entirety, with the bid. Hollow, no content and/or unclear "Life Time Warranties" are not acceptable.

Does your bid comply?      Yes \_\_\_\_\_      No \_\_\_\_\_

4.3 STRUCTURAL INTEGRITY: The body shall be capable of providing impact, deformation and penetration resistance in the event of a collision. The body structure shall be capable of passing a stand-alone static load test on a type-tested body. The test shall be conducted in accordance to AMD Standard 001. The test weight shall be applied at no less than 2.5 times the curb-weight of the finished vehicle to both the top and either the street side or curbside of the ambulance module.

Does your bid comply?      Yes \_\_\_\_\_      No \_\_\_\_\_

4.4 BODY PANEL MANUFACTURE: Each body panel, front wall, rear wall, two side walls, and roof panel, shall be manufactured utilizing .090" aluminum sheet, 2"x2"x.125" and 1"x2"x.125" extruded aluminum framework with voids between the tubular structure filled with 2" thick block polystyrene and covered with .125" laminated Luan. These panel components shall be integrated utilizing high strength adhesives. The aluminum sheet shall be attached to the wall structure with a Methacrylate adhesive with at shear and tensile strength of approximately 2,215 psi and a tensile modulus of 157,090 psi. The block foam and ply shall be attached with a urethane adhesive with a minimum tensile strength of 300 psi. The entire assembly shall be vacuum cured to form a solid, penetration resistant composite body panel. In no case shall screws, rivets, VHB tape or any other mechanical fasteners be used to attach the skin to these structural members.

The two body side panels shall overlap the front and rear wall by ¾" and the four vertical corners shall be full-seam welded top to bottom on the outside and interval/stitch-welded every 5" along the inside. The roof panel shall overlap the front rear and side walls by ¾" and all four sides along the exterior roofline shall be full-seam, full perimeter welded roof panel to walls and interval/stitch-welded every 5" inside.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

4.5 MODULE INSULATION: The insulation material shall be 2" thick, 1-lb. density polystyrene block insulation. The insulation shall be permanently bonded to the exterior skin and interior wall liner and provide full perimeter, void less insulation front wall, side walls and roof.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

4.6 REMOUNTABLE: The body shall be designed to be remounted to like chassis with same cab-to-axle dimensions.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

4.7 WELD QUALITY: All welds within the modular body shall meet American Welding Society codes for structural and sheet welding. All weld sites shall be cleaned prior to welding. All welds shall be free of cracks, cavitation's, oxidation and foreign substances. All MIG welds shall be shielded with Argon, during the process.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

## 5.0 FLOOR CONSTRUCTION

5.1 FLOOR MEMBERS: The floor shall be at the lowest level permitted by clearances and shall meet the floor height requirements of KKK-A-1822F, 3.4.10.6. The lateral and longitudinal floor structure shall consist of 2" x 2" x .250" 6061-T6 primary members and 2" x 2" x .125" and 1" x 2" x .125" - 6005-T61 secondary structural aluminum tubing. The finished assembly shall be securely welded to the wall structures and exterior compartments. There shall be .50" aluminum plates welded into the floor structure to facilitate mounting of the Technician's seat base and cot retention hardware. The floor weight bearing capability shall be compliant with AMD Standard 020- Floor Distributed Load Test, S4.3 Bariatric Load.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

5.2 MOISTURE BARRIER: Over the floor substructure there shall be applied a moisture barrier of .060-inch-thick aluminum skin. This skin shall be attached to the floor structure by a full bed application of a high-performance elastomeric adhesive/sealant. This adhesive bed shall be adequate to eliminate any material vibration and to completely seal the patient compartment from fumes and moisture penetrating the interior.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

5.3 CARBON MONOXIDE PROTECTION: To prevent carbon monoxide penetration into the patient compartment, it is imperative that the entire underside of the modular body be sealed. All hollow corner structural materials shall be sealed with either expansion moisture resistant, closed cell foam or sealed metal plates. This completed vehicle shall be compliant with AMD Standard 007- Patient Compartment Carbon Monoxide Test.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

## 6.0 SIDE STRUCTURE

SHEET: The skin covering the front, sides, and rear walls shall be a single aluminum sheet with an alloy and temper strength of 5052 H32 for strength, ease of welding, and corrosion resistance. Modular bodies fabricated from "multi-piece" front, rear or side skins are not acceptable to this agency.

These panel components shall be integrated utilizing high strength adhesives. The aluminum sheet shall be attached to the wall structure with a Methacrylate adhesive with at shear and

tensile strength of approximately 2,215 psi and a tensile modulus of 157,090 psi. The block foam and ply shall be attached with a urethane adhesive with a minimum tensile strength of 300 psi. The entire assembly shall be vacuum cured to form a solid, penetration resistant composite body panel. In no case shall screws, rivets, VHB tape or any other mechanical fasteners be used to attach the skin to these structural members.

Does your bid comply?      Yes \_\_\_\_\_      No \_\_\_\_\_

6.1      **SIDE STRUCTURAL MEMBERS:** The side assembly shall be reinforced vertically with square aluminum extruded structural on an average of twelve (12) inch centers. These structural members shall be 2" x 2" x .125" 6005-T61 extruded structural tubing. To minimize the possibility of the extrusion bending, twisting or suffering other deformation when stressed, the extrusion shall be designed that each boxed formed corner extrusion on the sides, front, rear, and roof overlap the opposing extrusion, thus allowing for full length vertical welds on the entire outside of the body and the inside of the body. There shall be 4" x .50" aluminum plates welded into the curbside wall structure to facilitate the mounting of the seat belt assemblies. These structures shall be MIG welded together to form the body's roll cage and corner impact protection

Does your bid comply?      Yes \_\_\_\_\_      No \_\_\_\_\_

6.2      **CORNER SIDEWALL ASSEMBLY:** The four full-welded vertical corner seams and four full-welded horizontal roof seams shall be covered with .125" extruded aluminum, radius corner extrusion bonded with Lord's 406-17 acrylic adhesive with a tensile strength of 4,650 psi and an elastic modulus of 130,000 psi creating an integrated corner support column. The cast aluminum corner caps shall be seam-welded in place. All exterior body holes for lighting or other appliances shall be routed, drilled or punched prior to prime and paint process to assure complete coverage of raw metal on edges of holes.

Does your bid comply?      Yes \_\_\_\_\_      No \_\_\_\_\_

## **7.0      ROOF CONSTRUCTION**

7.1      **PERIMETER EXTRUSIONS:** The roof's substructure assembly shall consist of perimeter extrusions, lateral roof bows, and interconnecting corner caps.

Does your bid comply?      Yes \_\_\_\_\_      No \_\_\_\_\_

7.2 ROOF SHEET: The roof skin shall have an alloy and temper strength of 5052 H32. The skin shall be attached to the lateral roof bows with a combination high strength urethane and Methacrylate adhesives applied prior to a vacuum bonding process to provide even and consistent adhesion of the wall skin to the structural extrusions. In no case may screws, rivets or other mechanical fasteners be used to attach the skin to the lateral roof bows.

Does your bid comply? Yes\_\_\_\_\_ No\_\_\_\_\_

7.3 ROOF BOWS: The lateral roof bows shall be 2" x 2" x .125" primary and 1" x 2" x .125" secondary extruded 6005-T61 structural aluminum tubing. These structures shall be MIG welded together to form the body's "roll cage". These structural members shall be located so that the roof skin is supported on a minimum "center" distance of 14 inches. The roof bows shall interconnect with the roof side rails and be continuously welded at all contact points. In no case shall a lateral roof bow have free span of more than 42 inches. There shall be eight (8) .125" aluminum plates welded into the roof structure to facilitate mounting of the patient compartment dome lights. There shall also be .250" aluminum plates welded into the roof structure to facilitate mounting of the overhead grab rail and a cargo net at the head of the squad bench. There shall be 1" x 2" x .125" tubing welded into the roof structure to provide secure mounting support for four CPI model 2008 folding IV hangers and for mounting potential recessed fluorescent fixtures.

Does your bid comply? Yes\_\_\_\_\_ No\_\_\_\_\_

7.4 ROOF CORNERS: The roof rail extrusions shall be welded together along the roof bow mating walls at the corners. In addition, the outer surfaces of the roof rail extrusions shall be continuously MIG welded to cast aluminum corner castings. The castings shall have integral flanges behind the weld sites to interlock the joint.

Does your bid comply? Yes\_\_\_\_\_ No\_\_\_\_\_

## 8.0 DOOR CONSTRUCTION

8.1 DOOR SKIN: The door skin shall be .090 thick 5052-H32 aluminum sheet CNC cut and formed to create a robust, crevice free environment to mirror the mating surface of the door jamb extrusions and to provide optimum paint adhesion and corrosion resistance. The formed edges shall not have elongation cracks due to forming but shall have edges uniformly rounded for strength and aesthetic appeal. The forming process will produce a door with an integral surface for mounting a pliable air core rubberized neoprene gasket around the full perimeter of the door that will seat and seal against the mating surface on the door jamb. The CNC process will provide the cut-out for windows, latches, door panel mounting holes and hinge mounting points all machined into the finished raw door. The CNC cut, fold and weld process provides a guaranteed consistent tolerance within 1/5,000<sup>th</sup> of an inch which yields a finished product that is consistently repeatable and easily replaceable in the event of damage.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

8.2 DOOR PANELS: The inside door panels shall be made of .090" aluminum sheet laminated to match the interior of the unit. There shall be an aluminum diamond plate kick panel installed to protect the lower portion of the entry doors. Exposed, raw, sheared, unfinished sheet-metal edges are not acceptable. The panels shall be fastened to the door with Phillips head stainless steel, #10-32 machine screws with rubber washers to assist in cushioning the impact of door closure. The kick panel shall measure approximately 8" x 20".

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

8.3 DOOR JAMB: The door jamb shall be an extruded aluminum extrusion measuring approximately 2.725" x 3" with no less than .1875" wall thickness to accommodate rigid fastening of compartment door hinges, and the TriMark cage nut assemblies that are used to secure nadir pens. The corners of the extruded door jamb shall be CNC mitered, fixture fit and welded full perimeter to hold the door opening square. The mounting and access points for the nadir pens shall be CNC routed for precision and repetitive consistency. The door jamb shall have a full perimeter flange that shall be secured to the body side skin with 3M panel bond adhesive rated at no less than 2,150PSI. The jamb shall also be secured with ¼" x 20 Type "F" self-tapping, stainless steel sheet metal screws installed around the full perimeter of the framed door opening into the wall structure that is welded into place around the door opening in the side wall structure. The jamb shall be CNC cut to accommodate the consistent placement of the TriMark cage nuts used to mount the Nader pins and for consistently locating the door hinge.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

8.4 HINGE: All doors shall have stainless steel, continuous, piano hinges. The pin diameter shall be .250" and staked into place to prevent drifting out of the hinge leaves. The knuckle lengths shall be 1". Alternating mounting slots shall be incorporated in the hinge to facilitate fine adjustment. The hinge attachment bolts shall be ¼" x 20 x 1" long stainless-steel Type "F" pan head screws. The screws shall be spaced 4 inches apart on each leaf for the full length of the hinge. The tapping points along the door and jamb shall be designed in and CNC placed for consistently repetitive production and ease of replacement. The hinges for each individual door shall be identically cut for all common door heights and the CNC process used to fabricate the door and jamb shall insure that all of the door components are easily replaceable and interchangeable.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

8.5 LATCHES: All exterior door latches shall be TriMark two stage, rotary type latches with an OEM installed emergency release mechanism that meets FMVSS 206 requirements for door locks and door retention components. The latches shall be through bolted to the door with 5/16 UNC countersink, machine type bolts and lock nuts that comply with the latch manufacturer's requirements. All entry doors shall have two rotary latches per door. To assure uniform latch timing and functional door reliability, only straight, 3/16" diameter rods shall connect the latches to the handle. All latch timing shall be set at the handle site. Other than at the latch site, bends in door latch rods are NOT acceptable.

The Nader pins for each door latch shall be installed through the door jamb into TriMark cage nut assemblies designed to be through bolted into the door jamb extrusion with grade 8 machine type bolts per the manufacturer's requirements. The cage nut assembly will support the mounting nut should the Nader pin need to be removed for maintenance or service.

All single, short compartment doors shall have one rotary latch. All double doors or tall compartment doors shall have two rotary latches per door. All Nader pins shall be headed to prevent the door(s) from opening under impact.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

8.6 EXTERIOR HANDLES: TriMark powder coated black finished, free floating exterior paddle handles shall be provided to open all doors. Blind fasteners shall be used to fasten the handles to the door. Exposed fasteners to the outside are unacceptable for security reasons. Paddle handles shall have an isolation gasket between the paddle body and the door skin. All door skin surfaces shall be CNC cut to produce a uniform fit and shall be painted prior to installation of the hardware. The handle shall be long enough to accommodate four gloved fingers for door actuation. All paddles on single doors and leading double doors shall be locking type and keyed the same. Trailing doors shall have non-locking paddle handles mounted on the interior door panel. The inner side of all exterior handles shall have a strip of 3M Safety Grip material installed to provide a slip resistant surface in bad weather. When locked, the paddle handle shall “float” to prevent unnecessary pressure being applied which may damage the handle and function as a signal that the handle is locked.

The rotary latches for each door shall be fit with metal rods, individually clipped to both the latches and the paddle handles. The rods shall be designed to be adjustable; however, they will be secured when adjusted so that they cannot voluntarily move. The door latching assemblies as a whole shall be fully tested to comply with FMVSS 206 requirements including 30G testing, no exceptions. A copy of the testing certificate validating the door system and testing shall be provided with the bid.

Does your bid comply?      Yes\_\_\_\_\_      No\_\_\_\_\_

8.7 INTERIOR HANDLES: TriMark powder coated black matching interior paddle handles shall be supplied on all module entry doors. The interior handles shall be powder coated black.

Does your bid comply?      Yes\_\_\_\_\_      No\_\_\_\_\_

8.8 WINDOWS: All entry doors shall be equipped with an upper window. The curbside entry door shall have a fixed pane window with a nominal area of 320 square inches. The rear access doors shall each have a fixed pane window with a nominal area of 320 square inches. All windows shall have anodized frames and blind inner mounting ring screws, fastened from the inside. The exterior portion of the frame shall have a full perimeter seal mated against the door skin. All glass shall be dark tinted safety glass compliant with FMVSS 205.

Does your bid comply?      Yes\_\_\_\_\_      No\_\_\_\_\_

8.9 DOOR CHECKS: All doors shall be equipped with a door check (hold open). The curbside entry door and exterior compartment doors shall have a gas strut mounted type of door check. The gas strut shall keep positive pressure on the door in the open and closed position. Door check brackets shall be bolted through overhead structure to provide a solid attachment to the door frame. All doors shall open 90 to 110 degrees, unless otherwise specified by the user.

Rear access doors shall open at least 150 degrees. The door checks shall be two pieces, heavy duty grabber type assemblies. The door shall have a ½” thick cast aluminum loop that plunges into a positive rubber/cast aluminum socket mounted on the body. Each component of the door checks shall be insulated from the skin with a rubber gasket. Each door-check component shall be rigidly mounted on the door or body by ¼” x 20 stainless steel machine screws tapped in ¼” aluminum plates permanently mounted behind the skin to stabilize the grabber.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

8.10 ENTRY DOOR ASSIST HANDLES: All entry doors shall be equipped with two-point, 1” diameter stainless steel, “handicap” style grab handles to aid in door closure and entry assistance. The handles shall run horizontally, directly above the inside door paddle handle. The assist handles shall be fastened directly to the horizontal door structure that is welded into the door assembly.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

8.11 DRIP RAILS: A drip rail shall be provided over each compartment to prevent water roll off from spilling into the opened compartment door. Drip rails shall be attached with double-sided adhesive for ease of replacement. Full height compartments are exempt because the perimeter roof rail drip rails cover these compartments.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

## 9.0 COMPARTMENT CONSTRUCTION & CONFIGURATION

9.1 MATERIALS: All exterior compartment walls, back and floor shall be constructed of smooth aluminum and coated with a rubberized polyurethane coating, Herculiner or equivalent. The ceilings and floor components shall be CNC cut, formed and welded to provide overlapping joints. The floors and ceilings are both welded and seam sealed as necessary to the walls and back prior to applying the rubberized coating. The compartment shall be designed so that the floor to the compartment will be below the lower edge of the door jamb.

Does your bid comply? Yes\_\_\_\_\_ No\_\_\_\_\_

9.2 COMPARTMENT CONFIGURATION: The exterior compartments on this vehicle shall be as illustrated in the drawings attached to this Specification:

Drawing A- Curbside

Drawing B- street side

9.4 #1 OXYGEN COMPARTMENT: An M-size cylinder retention bracket shall be provided to secure a vertically stored cylinder. The retention bracket shall be through bolted to the compartment wall backed by ½" aluminum plate with four 3/8-16 grade 8 bolts with grade 8 nuts. The retention bracket shall be powder coated steel and remain rust free for the life of the ambulance. The oxygen cylinder shall be attached to the bracket with three (3) spring-buckle, webbed retention straps. The retention bracket shall be in compliance with AMD Standard 003-Oxygen Tank Retention System Static Test.

Compartment #1 shall be approximately: 16.75" W x 69.75"H x 15.75" D

Does your bid comply? Yes\_\_\_\_\_ No\_\_\_\_\_

9.4 #2 STORAGE COMPARTMENT: This compartment shall be located just aft of the O2 compartment on the streetside of the module. It shall be configured for general storage or as specified by this agency. An adjustable shelf made of aluminum diamond plate shall be installed in compartment #2.

Compartment #2 shall be approximately: 30.75" W x 34.75"H x 15.75" D

Does your bid comply? Yes\_\_\_\_\_ No\_\_\_\_\_

9.5 #3 STORAGE COMPARTMENT: This compartment shall be located aft of the rear wheel well on the street side of the module. It shall be configured for general storage or as specified by this agency.

Compartment #3 shall be approximately: 30.75" W x 34.75"H x 18.5" D

Does your bid comply? Yes\_\_\_\_\_ No\_\_\_\_\_

9.6 #4 INSIDE/OUTSIDE COMPARTMENT: This compartment shall be located at the forward most curbside of the module. It shall be configured to provide exterior access to the interior ALS cabinet and the battery storage area located below the floor level of the ALS storage. There shall be a separate access door located below the floor level for maintenance and service to the vehicle's battery storage area.

Compartment #4 shall be approximately: 18.125" W x 58" H

Does your bid comply? Yes\_\_\_\_\_ No\_\_\_\_\_

9.7 #6 BACKBOARD STORAGE COMPARTMENT: This compartment shall be located at the curbside rear of the module. It shall be configured for vertical storage of the backboards.

Compartment #6 shall be approximately: 12.5" W x 75.75"H x 20.25" D

Does your bid comply? Yes\_\_\_\_\_ No\_\_\_\_\_

9.7A #7 GENERAL STORAGE COMPARTMENT: This compartment shall be located at the curbside rear of the module between the rear backboard storage compartment and the rear wheelwell. It shall be configured for general storage.

Compartment #7 shall be approximately: 23" W x 24"H x 14" D

Does your bid comply? Yes\_\_\_\_\_ No\_\_\_\_\_

9.3 VENTILATION: All compartments shall have louvered ventilation to the exterior of the vehicle. Each compartment shall include an automotive style vent located below the floor line in a position to allow ventilation below the vehicle and not into the compartment walls. Oxygen cylinder compartment shall be louvered through the door with a minimum of 9 square inches of free-vented area in compliance with KKK-A-1822F, 3.11.3.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

9.5 STEP WELL: An intermediate step to the patient compartment floor shall be provided at the curbside entry door. The step well shall be rubberized polyurethane coated aluminum with a removable Dri-Deck insert on the lower step. The step shall have a tread dimension of not less than 10 inches. The step well shall be illuminated by an LED light head located on the forward wall of the step well.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

## **10.0 CORROSION: Anti-electrolysis procedures**

10.1 EXTERIOR FASTENERS: Dissimilar metal contact is known to cause corrosion at fastener sites. All exterior device fasteners, especially light fasteners, shall not contact the painted aluminum surface. All fasteners that are not aluminum or plastic bodied are considered dissimilar. Each hole drilled after the prime and paint process shall be treated with an electrolysis corrosion control compound, ECK or equivalent prior to installation of the mounting screws. All mounting screws shall be stainless steel and shall be coated with the electrolysis corrosion control compound prior to installation.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

## 11.0 REAR BUMPER

11.1 FRAMING: The rear step bumper shall meet or exceed KKK-A-1822F 3.9.6 and be compliant with AMD Standard 018. The bumper shall be a minimum 1/8" welded tubular steel frame with a 1/4" flange designed to be bolted directly to the chassis frame without cutting, drilling or welding. The frame shall be bolted with a minimum four 1/2" steel bolts, washers and nylon lock washers on each side. In addition, the bumper will be configured so that the bottom of the bumper shall be mounted below the body skirt-line. The steel bumper frame shall be powder coated black for a durable, corrosive resistant finish.

Does your bid comply?      Yes \_\_\_\_\_      No \_\_\_\_\_

11.2 CENTER STEP: A flip up step shall be provided to allow closer access to the patient compartment floor. The step shall be as wide as the rear access door jamb. The step shall have a grip strut surface for aggressive traction. Snow and ice shall not compromise the level of traction on the center step. A stainless-steel piano hinge shall have a staked in, 1/4" diameter pin, one-inch knuckles and Type-F 1/4"-20 stainless steel bolts every four inches.

Does your bid comply?      Yes \_\_\_\_\_      No \_\_\_\_\_

11.3 OUTER BUMPER PODS: The step bumper shall have an aesthetically pleasing appearance. The outer bumper pods shall be polished aluminum diamond plate. The outer corners shall be rounded to eliminate sharp corners around the working area. Each pod shall have a heavy-duty rubber rear dock bumper attached to further protect the bumper.

Does your bid comply?      Yes \_\_\_\_\_      No \_\_\_\_\_

## 12.0 BODY PROTECTION

12.1 FRONT OF BODY: The front of the body shall have protection plates made of aluminum diamond plate fitted between the contour of the cab and the corner posts. The corner posts shall have 12" high formed diamond plate protection panels.

Does your bid comply?      Yes \_\_\_\_\_      No \_\_\_\_\_

12.2 REAR OF BODY: An aluminum diamond plate kick panel shall run from rear corner post to corner post and house a recessed, cast aluminum, license plate holder. The kick panel shall be 12" in height and shall extend downward from below the rear door jamb to the bottom edge of the body. The corner posts shall have 12" high formed diamond plate protection panels.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

12.3 LOWER BODY RUB RAILS: The entire skirt-line of the body, forward and aft of the rear wheels shall have extruded aluminum "C" channel skirt rails installed to protect the edge of the lower body. Each rail shall be chamfered 45 degrees at each end. The rails shall be mounted with ¼" x 20 stainless steel machine screws through 1/8" nylon spacers to prevent contact between the rub rail and the modular body. There shall be a ¾" white reflective stipe installed down the center of the rub rail, full length.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

12.4 REAR ENTRY DOOR: At the rear entry doors, a full width, formed, stainless steel threshold protection plate shall be provided to prevent the cot frames from causing damage to the body and the entry level floor. The threshold shall have a high-quality anti-skid material applied in full width strips to provide a slip resistant step into the patient compartment.

12.5 SIDE ENTRY DOOR: An aluminum diamond plate threshold shall be installed at the transition point between the side entry step well and the patient compartment floor. The threshold shall have a high-quality anti-skid material applied in full width strips to provide a slip resistant step into the patient compartment. A three-hole glove box holder shall be installed above the side entry door.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

12.6 FENDER FLARES: The rear fender flares shall be roll formed stainless steel. The fender flares shall be through bolting around the wheel well opening with ¼"-20 stainless steel pan head bolts coated with an anti-corrosion chemical.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

## 13.0 CABINETRY

13.1 SUBSTRATES: The interior cabinets and components shall be constructed of high quality, domestic grade plywood. The exposed layers shall be hard wood on both sides of the sheet. The layers shall be free of voids between layers. Cabinet interiors shall be made from 3/8" or 1/2" thick, 5-ply plywood determined by the application for each. Bench lids, doors and the primary cabinet fascia shall be made from 3/4" thick, 7-ply plywood.

Does your bid comply?      Yes\_\_\_\_\_      No\_\_\_\_\_

13.2 CABINET INTERIOR FINISH: Cabinet interior shall be laminated with white colored, high impact, abrasion resistant laminate. The contact adhesive shall be a high bond contact adhesive, specifically designed to bond plastic laminates to wood. Painted cabinet interiors are not acceptable.

Does your bid comply?      Yes\_\_\_\_\_      No\_\_\_\_\_

13.3 FLOOR AND SUBSTRATE: The sub floor of the module shall be 3/4" thick, 7-ply, marine grade plywood. The vinyl floor covering shall be LonPlate Diamond Plate.

Does your bid comply?      Yes\_\_\_\_\_      No\_\_\_\_\_

13.4 LAMINATE: A high impact, phenol backed, high impact, and abrasion resistant laminate shall be used. The laminate shall be selected from the ambulance manufacturer's samples. The material shall be standard grade. This material as well as all interior components shall meet or exceed F.M.V.S.S. #302 (Burn Rate of Interior Components).

Does your bid comply?      Yes\_\_\_\_\_      No\_\_\_\_\_

13.5 CABINET ASSEMBLY: To maximize fastener bite, cabinet substrate parts shall be stapled with pneumatic fired equipment. Staples shall be placed on two-inch intervals along the corner joints. In addition to staples, the entire cabinet assembly must be screwed together with a minimum #8 screw size and a length not less than 2 times the thickness of the pierced substrate. Screw heads shall be counter-sink type and driven flush. Cabinet fascia shall be CNC cut or drop cut to eliminate the use of cleats or stick built components. The use of stick-built components or dowel pin type assembly to create cabinet components will not be acceptable.

Does your bid comply?      Yes\_\_\_\_\_      No\_\_\_\_\_

13.6 CABINET TRIM: All trim throughout the interior conversion shall be anodized aluminum or formed stainless steel. All exposed corners within the patient compartment shall have either padded or rounded corners. Excess adhesive-sealant shall be removed. Intermittent placement of screws is not acceptable due to cleaning difficulty inherent in screw head design.

Does your bid comply? Yes\_\_\_\_\_ No\_\_\_\_\_

13.7 FIT AND FINISH: Mitered joints throughout the interior conversion shall have a gap-less, hairline fit. Openings and misalignments at the corners are not acceptable. Misapplied trim to cover manufacturing mistakes is not acceptable solutions to poor design and/or workmanship. Doors shall be warp free. Sliding polycarbonate door assemblies shall be scratch free and all edges shall be smooth and free of saw marks and sharp edges. Cabinet to cabinet joints shall not require more than 7/32" diameter wetting to create a finished/well-fit look. Cabinets shall fit tightly against the ceiling without the use of vinyl covered trim pieces to cover the seam between cabinets and ceiling.

Does your bid comply? Yes\_\_\_\_\_ No\_\_\_\_\_

13.8 FUNCTION: Doors and drawers shall fit the opening. Flush fitting doors shall have even door to opening spacing around the perimeter. All doors shall open and close bind-free. Drawers shall slide in and out freely, without drag. All drawers shall be mounted on side mounted, full-extension drawer slides, rated at no less than 75 pounds per pair. All hinged wood-core doors shall have positive latches.

Does your bid comply? Yes\_\_\_\_\_ No\_\_\_\_\_

13.9 SLIDING POLYCARBONATE DOORS: Polycarbonate shall hereinafter be identified as "Lexan". All interior cabinets requiring the sliding, transparent Lexan door assembly shall have a mitered, anodized aluminum frame. The Lexan shall be a minimum of 3/16 inch thick.

Each door shall be fitted with a full height, extruded aluminum door handle. The door pull extrusion shall also stiffen the ends of the doors. The door track/frame extrusion shall incorporate a flocked natural rubber track insert to prevent the doors from sliding free during transit. All extrusions shall be anodized.

Does your bid comply? Yes\_\_\_\_\_ No\_\_\_\_\_

13.9 HINGED ACRYLIC DOORS: All interior cabinets requiring a hinged, transparent Acrylic door assembly shall have a ½” smoked acrylic door installed.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

#### 14.0 CABINET CONFIGURATION

14.1 STREET SIDE: As required by the purchaser, an inset CPR seat shall be provided on the street side. The cabinets shall be easily accessible over the primary cot. The cabinet configuration and dimensions will be described in the CAD drawings attached to this Specification.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

14.2 CURB SIDE: A two position squad bench shall be installed. Two sets of EVS V-4 four-point belts shall be supplied. The belts shall restrain two seated occupants or one secondary patient, on a back board. All seat belts and anchorages shall comply with F.M.V.S.S. 209 and 210. A padded back and head rest shall be supplied for all seated personnel along the squad bench. The cabinet configuration and dimensions shall comply with the drawings attached. Squad bench lid shall utilize gas struts as support when opened and shall have a positive paddle latch to hold the lid in the closed position. A Cargo style net shall be installed at the head of the squad bench.

Located in the forward section of the squad bench shall be a separate locking door with a drop-in area for sharps and trash containers. Access to these containers shall be through a flip up Lexan lid – red in color and marked with the “BIOHAZARD” symbol.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

14.3 RIGHT FRONT CABINET: The right front cabinet is hereinafter known as “ALS Cabinet”. The ALS cabinet shall be finished in color keyed laminate. There shall be one lower locking storage area and one center open storage area with one adjustable shelf. The upper cabinet area shall house the A/C-Heater evaporation unit. All areas in the center and lower ALS Cabinet shall be accessible from the exterior of the vehicle which will have a full height locking door.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

14.4 STREETSIDE WALL CABINETS: Cabinet "A" shall be located to the rear of the CPR seat and above the Lifepak action area. The cabinet shall have sliding Lexan doors and shall include 1 adjustable shelf. Cabinet "A" shall be approximately 15"H x 42.75" W x 18" D

Cabinet "B" shall be located aft of the rear monitor shelf, below cabinet "A". The cabinet shall have sliding Lexan doors and shall include 1 adjustable shelf. Cabinet "B" shall be approximately 20"H x 20.25" W x 18" D.

Cabinet "C" shall be located above the action area for storage of medical tubing, air ways, and ventilation face masks. This cabinet will hereinafter be described as the "Action Area Overhead cabinet". The Action Area Overhead cabinet shall have the dimensions as shown on the attached CAD drawings. The Action Area Overhead cabinet will include 1 adjustable shelf. Cabinet "C" shall be approximately 16.25"H x 39.25" L x 15" D.

The CPR seat shall be approximately 32" W. The seating area shall be equipped with a hinged lid for access to the storage area below the seat. The seat/lid shall include a 2" cushion approximately 18" x 26" and shall be secured by a TriMark powder coated black, recessed latch. The back wall of the seating area shall include a formed, progressive foam backrest designed for the EVS/V-4 seat belt system to absorb energy in the event of an accident. Unless otherwise specified, an automotive style EVS V-4 harness/belt assembly shall be provided. Under no circumstances will a two-point belting system be acceptable.

Does your bid comply?      Yes\_\_\_\_\_      No\_\_\_\_\_

14.5 ACTION AREA COUNTERTOP: The countertop surface shall be color coordinated laminate. The edge of the action area shall have a lip to prevent items from sliding to the floor. Action areas will be located on both sides of the CPR seat. The action area forward of the CPR seat will hereinafter be called the EMSP Action Area and the action area to the rear of the CPR seat will hereinafter be called the LifePak Action Area. The LifePak Action Area shall be approximately 21.5" W x 22.5" H or as shown on the attached CAD drawings.

Does your bid comply?      Yes\_\_\_\_\_      No\_\_\_\_\_

14.6 TECHNICIAN'S SEAT: The Technician's seat shall be steel framed, high back contoured style captain's chair with four-point harness belt assembly. A child safety seat shall be incorporated in the design. The seat shall be color matched to other upholstery within the patient compartment. The seat base shall be a black, powder coated steel box. The Technician's seat shall be fastened with Grade 8 fasteners through the top of the seat base which is secured with Grade 8 fasteners through the floor and through ¾" aluminum mounting plates welded into the floor structure.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

14.7 PASS-THRU CABINETS: Located in the pass-thru of the module behind the Technician's Seat shall be two additional storage cabinets. These cabinets shall each be designated as general storage. The upper cabinet "D" shall be approximately 23"H x 21.25" W x 17.25" D. The lower cabinet "E" shall be approximately 23"H x 21.25" W x 17.25" D. Cabinet "E" shall include the onboard battery charger, the pre-wire for the inverter and the vacuum pump.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

14.8 PASS-THRU OVERHEAD CABINET: Located above the pass-thru area shall be one cabinet designated for the 12VDC electrical control panels. The cabinet shall be fitted with hinged ¾" plywood door and Southco chrome flip latches to secure the door. The latch on the cabinet shall be locking.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

14.9 OCCUPANT HEAD CLEARANCE ZONES: All designated occupant seating positions in the vehicle described in the Specification shall be in compliance with AMD Standard 025- Measuring Guidelines: Occupant Head Clearance Zones.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

## 15.0 UPHOLSTERY

15.1 UPHOLSTERY MATERIALS: All padding and upholstered seating shall be covered in vacuum formed vinyl. Sewn, exposed seams in the seat covers and cushions are not acceptable.

The color shall be selected by the purchaser to coordinate with the laminate selected.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

15.2 SEAT / BACKREST CORE MATERIAL: The foam shall meet Federal Specification KKK-A-1822F 3.11.4. All seating and trim materials shall meet or exceed FMVSS 302- Flammability of Interior Materials.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

## 16.0 INTERIOR HARDWARE

16.1 OVERHEAD ASSIST RAIL: This rail shall be naturally accessible to assist working attendants in maintaining their balance. The rail shall meet or exceed Federal Specification KKK-A-1822F and comply with AMD Standard 008- Patient Compartment Grab Rail Static Load Test. The rail shall be approximately 1.25" diameter, handicap style, brushed stainless steel and 72" long. The rail shall be located over the primary patient.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

16.2 COT RETENTION DEVICE & PRIMARY COT: Unless otherwise specified, the main cot retention device shall be a Stryker Performance Load, removable mount located in the center position. The purchaser shall specify the model of cot to be retained by the device. The installed cot retention device shall be in compliance with AMD Standard 004.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

16.3 PRIMARY COT: The successful bidder shall be responsible for supplying a Stryker, Power Pro XT Model 6506 Cot. The cot shall be equipped with the following options. Heavy Duty 3 stage IV pole, removable O2 bottle holder at foot end, Dual Wheel locks, Head end storage flat.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

## 17.0 OXYGEN, VACUUM SYSTEMS

17.1 MAIN OXYGEN SUPPLY: Accommodation shall be made to carry and secure one (1) M-sized oxygen cylinder. The cylinder and its retention components shall be located in the streetside front exterior compartment as specified in 9.3 of this Specification.

The retention bracket shall be positioned so that the cylinder's main valve and regulator are visible through a Lexan viewing window in the forward end of the EMSP Action Area.

The Oxygen System shall also include a 50 PSI, pre-set Oxygen Regulator.

Does your bid comply?      Yes\_\_\_\_\_      No\_\_\_\_\_

17.2 OXYGEN OUTLETS: The oxygen supply system shall be installed in the patient compartment in compliance with KKK-A-1822E. Unless otherwise specified, the system shall consist of three Ohio style oxygen outlets in raised trim rings. Two outlets shall be located on the action wall and one outlet shall be located on the forward end of the curb side wall above the squad bench. This system shall be set up so a change in outlet style is readily made by just removing the front plate, thereby not compromising integrity of the system with field changes.

Does your bid comply?      Yes\_\_\_\_\_      No\_\_\_\_\_

17.3 OXYGEN HOSES: All oxygen system service hoses, fittings and devices shall be made of non-ferrous materials. Hoses used to pipe Medical Oxygen shall be ¼" inside diameter with an abrasion resistant, green colored, electrically conductive outer jacket. All hoses shall withstand a system test pressure as prescribed in Federal Specification KKK-A-1822F 4.4.1 and AMD Standard 015- Ambulance Main Oxygen System Test. Each ambulance shall be tested. "Type Testing/Certification" is not acceptable.

Does your bid comply?      Yes\_\_\_\_\_      No\_\_\_\_\_

17.4 VACUUM (SUCTION) SYSTEM: A 12-Volt DC electric vacuum pump shall be installed in the lower pass-thru cabinet forward of the Technician’s Seat. The pump shall meet performance guidelines set forth by Federal Specification KKK-A-1822F 3.12.2 and AMD Standard 021-Aspirator System Test, Primary Patient. A variable vacuum regulator and gauge panel shall be installed in the action area control panel. The vacuum regulator shall control the vacuum pressure delivered to a Rico RS-4X collection system with a disposable collection canister. The Vacuum gauge shall not be mounted on the collection canister but on the Action Area wall and be hard-plumbed to the electric vacuum pump. Each ambulance shall be tested. “Type Testing/Certification” is not acceptable.

Does your bid comply?      Yes \_\_\_\_\_      No \_\_\_\_\_

## 18.0 ELECTRICAL SYSTEM – 12-Volt Direct Current

The 12 VDC Electrical system installed in this vehicle must comply with AMD Standard 005- 12-Volt DC Electrical System Test. This electrical System shall be covered under the manufacturer’s Warranty for a period of 72 months (6 yrs.) or 72,000 miles which ever shall occur first.

18.1 BODY GROUNDING: A minimum of (2) two 2” wide braided ground straps shall be bolted through the chassis frame and the floor structure of the modular body. The bolts shall be 3/8” diameter. A flat washer shall be provided under the head of the bolt, over the strap lug and an internal tooth lock washer shall be installed under the lug to preclude loosening. Chassis frames with asphalt/wax coating or E-coating shall have grounding sites prepared by lightly grinding or sanding the coating away to reveal raw metal.

Does your bid comply?      Yes \_\_\_\_\_      No \_\_\_\_\_

18.2 GENERAL GROUNDS: To comply with federal specification KKK-A-1822F 3.7.12 plus enhance ground quality and reduce trouble shooting time, all devices wired within the ambulance conversion shall be centrally grounded on a ground bar located in the Electrical Cabinet. The ground bar is grounded to the chassis frame by a 2AWG cable and attached in the same manner as the braided body ground cables. Each device shall have a separate ground wire routed to a central buss bar then grounded via fine strand cable to the module body.

Does your bid comply?      Yes \_\_\_\_\_      No \_\_\_\_\_

18.3 12 VOLT WIRE: All wires within the ambulance harnesses shall meet Federal Specification KKK-A-1822F 3.7.2 and 3.7.2.1. All wire insulation shall be GXL cross-linked polyethylene.

Permanent wire identification and wire function shall be stamped on 4" centers along the full length of the wire. Wire conductors shall be stranded copper. Single strand copper conductors are not acceptable due to vibration concerns and stiffness which promotes loosening of the terminals.

Does your bid comply? Yes\_\_\_\_\_ No\_\_\_\_\_

18.4 WIRE PROTECTION: All wire within the conversion shall be protected and run in split convoluted loom with a melting temperature of 300 degrees Fahrenheit. All wire harnesses shall be clamped and routed to eliminate possibility of damage due to cut/chaffed wire. Grommets made of rubber or plastic shall be used where harnesses pass through metal or wood. Large holes and irregular shaped wire passages shall use automotive edge trim to protect the wire conduit/loom. Wire harnesses shall be neatly clamped into protective routing areas away from heat sources, unfriendly edges or moving devices.

Does your bid comply? Yes\_\_\_\_\_ No\_\_\_\_\_

18.5 CIRCUIT BREAKERS: All conversion 12VDC circuits shall be protected by non-proprietary, manual reset, circuit breakers. The trip value for the breaker shall not exceed 80% of the amperage rating of the weakest component in the circuit. Branch circuit wire sizes shall be rated 125% of the expected load per KKK-A-1822F 3.7.2.1.

Does your bid comply? Yes\_\_\_\_\_ No\_\_\_\_\_

18.6 12 VOLT DC OUTLETS: Two 12 Volt DC, 20 Ampere, cigarette style outlets shall be supplied; one (1) in the action area and one (1) in the ALS compartment. Each outlet shall be separately protected and shall be electrically isolated from other electrical functions on the vehicle. The outlets shall be wired per Federal Specification KKK-A-1822F 3.7.7.3.

Does your bid comply? Yes\_\_\_\_\_ No\_\_\_\_\_

## 19.0 ELECTRICAL SYSTEM- 125 VOLT Alternating Current

19.1 The 125 VAC Electrical System described in this Specification shall comply with AMD Standard 009- 125-Volt AC Electrical Systems Test. This electrical System shall be covered under the manufacturer's Warranty for a period of 72 months (6 yrs.) or 72,000 miles which ever shall occur first.

19.2 PRIMARY SHORELINE INLET: The 110V electrical system shall be furnished with a 125VAC 20-amp straight blade shore power inlet incorporating a male plug and shall be located on the street side of the module aft of the #1 compartment and above the #2 compartment. The inlet shall have a spring-loaded, weather proof cover. The circuit shall be ground fault and circuit breaker protected incorporating a toggle switch control (GFI) with a UL approved QO type single phase load center located behind the driver seat in the cab. All 125VAC wiring shall be 12 gauge. All 125-volt AC wiring connections shall be made in UL approved junction boxes. A battery charger pigtail with female plug will be routed to the battery charger prewire area.

A permanent, aluminized vinyl label, stating voltage and amperage shall be located above the inlet in compliance with KKK-A-1822F 3.7.8, 3.7.8.1.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

19.3 INVERTER: The vehicle shall include a Vanner, 1050-Watt inverter with a 55- amp battery charger built into the unit. The inverter shall include a wired connection to the shoreline inlet and output wiring to all 125 Volt AC outlets provided in the vehicle. There shall be a single on/off switch located on the rear action panel. This inverter shall be in accordance to KKK-A-1822F 3.7.8.3 and Section 250-6 (Portable and Vehicle Mounted Generators) of the National Electrical Code (NEC).

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

19.4 125 OUTLET No.1: A 125 Volt, Hospital grade, Straight blade outlet shall be provided on the wall of the main Action Area. The outlet must be grounded and protected by a G.F.I. (Ground Fault Interrupter) Breaker. The outlet must illuminate a green indicator light when power is applied to the outlet.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

19.5 125 OUTLET No. 2: A 125 Volt, Hospital grade, Straight blade outlet shall be provided in the ALS cabinet. The outlet shall be grounded and protected by a G.F.I. (Ground Fault Interrupter) Breaker. The outlet must illuminate a green indicator light when power is applied to the outlet.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

19.6 125 OUTLET No. 3: A 125 Volt, Hospital grade, Straight blade outlet shall be provided in the Lifepak Action Area if so configured. The outlet shall be grounded and protected by a G.F.I. (Ground Fault Interrupter) Breaker. The outlet must illuminate a green indicator light when power is applied to the outlet.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

## 20.0 ENVIRONMENTAL

20.1 REAR AIR CONDITIONING: The design of the environmental system is to provide optimal air flow and distribution of conditioned air to the module interior. Conditioned air shall be discharged from one vent area and shall be distributed through five vents evenly spaced across the face of the upper section of the ALS cabinet. The module shall have an additional, self-contained A/C evaporator unit complete with dual blower, motor driven, high output fans. The fans shall be three speeds and shall contain a 720 CFM fan. The A/C unit shall also incorporate a hot water heater core for heat. All heater hoses shall be 3/4-inch QVM approved Nomex for improved circulation. The hot water flow shall be controlled by one (1) vacuum actuated inline water valve and supported by an inline water pump. All A/C fittings shall be ferruled, banded, or snap ring type. Clamps will not be acceptable.

The valves shall operate with the heater/defrost controls. The unit shall be rated at least 32,000 British Thermal Units (BTU) in A/C Mode and 36,000 BTU in Heater Mode. The Vehicle A/C – Heater system must meet or exceed federal specification KKK-A-1822F 3.13.1 thru 3.13.3 and must be compliant with AMD Standards 011- Equipment Temperature Test, 012- Interior Climate Control Test.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

20.2 REAR AC CONTROLS: An ON/OFF switch shall be located in the action area. The aforementioned switch will not control fan speed, but indicate the selection of Heat/Off/Cool. A separate three-speed fan speed control switch shall be located in the action area control panel. Temperature settings shall be controlled by a simple rheostat-controlled thermostat mounted on the Action Area switch panel.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

### 20.3 HVAC SYSTEM INSTALLATION & WARRANTY:

The auxiliary heating and air conditioning system shall be installed in the ambulance at the ambulance manufacturer's facilities by technicians employed by the manufacturer of the HVAC equipment. Said technicians shall document the installation on forms provided by the HVAC manufacturer and on forms required by the ambulance manufacturer. Warranty on the installation of, and the equipment content and performance of the equipment, shall be the sole responsibility of the HVAC manufacturer.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

## 21.0 CONSOLES, SWITCH PANELS

21.1 CAB CONSOLE: The driver's control console shall be ergonomically designed, powder coated aluminum console. The console shall be designed in a 3D program, CNC cut, formed and welded to provide a controlled, repeatable process to fit in the area rear of the OEM dash and between the driver and passenger seats. Edges shall be rounded so there are "NO" sharp and/or other unfriendly corners. The body of the console shall be color black. The console shall be removed for maintenance and service. The console shall include an electronic siren and a contoured switch panel.

The siren control head and contoured switch panel shall be within easy reach of the passenger and driver.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

21.2 A switch panel made from a thick, composite/acrylic sheet shall be installed on the forward end of the floor console. All switches and controls shall have back lighted legends indication function and status. The Switch Panel shall have the following minimum controls and indicators:

- |                                       |                            |
|---------------------------------------|----------------------------|
| 1. Compartment Open indicator         | 8. Rear Flood Switch       |
| 2. Battery On indicator               | 9. Right Flood Switch      |
| 3. Door Open indicator                | 10. Back-Up Alarm Switch   |
| 4. MASTER Emergency Switch, red bezel | 11. Spare                  |
| 5. Primary Secondary Mode Switch      | 12. Digital Volt/Amp Meter |
| 6. Siren/Horn Switch                  |                            |
| 7. Left Flood Switch                  |                            |

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

21.3 SWITCH PANEL, ACTION AREA: A switch panel made from a thick, composite/acrylic sheet shall be installed on the outboard wall of the Action Area. All switches and controls shall have back lighted legends indication function and status. The Switch Panel shall have the following minimum controls and indicators:

- |                                      |                             |
|--------------------------------------|-----------------------------|
| 1. Dome Lights, Cot Switch (Hi/Lo)   | 6. AC/Heat Selector Switch  |
| 2. Dome Lights, Bench Switch (Hi/Lo) | 7. AC/Heat Fan Speed Switch |
| 3. Vacuum System Switch, red bezel   | 8. Digital Clock            |
| 4. Exhaust Vent Switch               | 9. Spare Switch             |
| 5. Inverter                          | 10. Thermostat              |

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

## 22.0 VISUAL CONSPICUITY - EXTERIOR LIGHTING

22.1 WARNING LIGHTS: The warning light system shall meet or exceed KKK-A-1822F as demonstrated with the documentation provided by the lighting manufacturer.

Unless otherwise specified, the warning lights shall be configured like, and flash in compliance with, KKK-A-1822F 3.8.2.1, and Table 1.

22.2 DUAL MODE FLASHERS: A dual mode Primary/Secondary flasher shall be provided for the vehicle emergency warning light system as required in KKK-A-1822F. Lights shall be configured as depicted in the attached drawings and as described below:

22.2.1 FRONT WALL: The front wall shall be configured with seven Whelen 900 Series LED warning lights mounted on the front of the body. These LED lights shall be configured RED/WHITE/RED/WHITE/RED/WHITE/RED along the upper edge of the front wall. These lights shall be wired to flash in primary/secondary modes or as required by the purchaser. The lenses shall be clear

22.2.2 WARNING LIGHTS- DRIVER SIDE: There shall be (2) Whelen 900 Series Red LED warning lights mounted on the driver side of the module. (1) In the upper forward and (1) in the upper rearward corners of the module. The lenses shall be clear.

22.2.3 WARNING LIGHTS- PASSENGER SIDE: There shall be (2) Whelen 900 Series Red LED warning lights mounted on the passenger side of the module. (1) In the upper forward and (1) in the upper rearward corners of the module. The lenses shall be clear.

22.2.4 WARNING LIGHTS– REAR: The ambulance shall be equipped with (2) Whelen 900 Series red LED warning lights positioned on the upper outboard module corners and (1) Whelen 600 Series amber LED centered above the rear doors on the rear wall. The LED's shall be configured as follows: Red/ /Amber/ /Red. The lenses shall be clear.

22.2.5 REAR MID-BODY WARNING LIGHTS: This unit shall be equipped with (2) Whelen 900 Series Red LED warning lights mounted on the rear of the module set to show through the rear door windows when the rear doors are open. These LED lights shall wire to function as brake lights when not in emergency mode. The lenses shall be clear.

22.2.6 GRILLE LIGHTS: This unit shall be equipped with (2) Whelen LINZ6R Series Red Super LED warning lights mounted on the upper chrome cross bar of the OEM grille in compliance with the OEM chassis manufacturer's guidelines and the lighting requirements of KKK-A-1822F. These LEDs shall function in the primary mode only. The lenses shall be clear.

22.2.7 INTERSECTION LIGHTS – CAB: This unit shall be equipped with (2) Whelen 700 Series Red LED warning lights mounted in the forward area of the chassis front fenders in compliance with the OEM chassis manufacturer's guidelines and the lighting requirements

of KKK-A-1822F. These warning lights shall function in the primary mode only. The lenses shall be clear.

Does your bid comply?      Yes\_\_\_\_\_      No\_\_\_\_\_

22.3 TAIL LIGHTS: Tail light configuration shall be Whelen 600 Series LED Tail/Brake, Turn Signals and Back-up Lights installed w/ chromed bezels. These lights shall be stacked vertically above the diamond plate rear kick plate in the order presented above.

Does your bid comply?      Yes\_\_\_\_\_      No\_\_\_\_\_

22.4 I.C.C. LIGHTS: 3/4" round LED clearance lights shall be provided per FMVSS and D.O.T. Standards. The lights shall indicate the height and width of the vehicle and define the vehicle centerline. These lights will be mounted on the uppermost margins of the front and rear body. The lights shall be mounted in rubber grommets and the mounting location for each light shall be prepared prior to the paint process to reduce the possibility of paint break and resulting corrosion. Drilling or tapping through a painted body shall not be acceptable. There shall be five (5) amber clearance lights (Optronics LED model MCL11CAB) forward facing and five (5) red clearance lights (Optronics LED model MCL11CRB) rear facing. Additionally, there shall be two (2) matching amber D.O.T. marker/directional lights mounted one (1) each side of the module on the rear corner extrusions and two (2) matching red D.O.T. marker lights mounted one (1) each side of the module on the rear corner extrusions. The D.O.T. marker lights shall be located approximately 48" above ground level.

Does your bid comply?      Yes\_\_\_\_\_      No\_\_\_\_\_

22.5 LICENSE PLATE LIGHT: The license plate holder shall be a cast aluminum housing that is near flush mounted on the rear of the module. The housing shall be mounted in the lower diamond plate kick panel below the street side B/T/T lighting. There shall be two (2) LED lights installed to provide illumination to the license plate with the chassis park light circuit on.

Does your bid comply?      Yes\_\_\_\_\_      No\_\_\_\_\_

22.6 SCENE LIGHTS: Two Whelen 900 series LED scene lights shall be provided on each side of the module. The curbside lights shall come on when the curbside entry door is opened.

The streetside and curbside scene lights may be turned ON/OFF with (2) two separate, right and left scene rocker switches located on the cab console switch panel. There will be a momentary disconnect switch located at the side entry door for disabling the scene lights during the daylight hours.

Does your bid comply? Yes\_\_\_\_\_ No\_\_\_\_\_

22.7 LOAD LIGHTS: Two Whelen 600 series LED load lights shall illuminate the rear of the module. Both rear lights shall come on with the opening of the leading rear access door. These rear load lights will also activate when the vehicle transmission is placed in reverse or when the rear load switch in the cab console switch panel is activated. There will be a momentary disconnect switch located on the wall at the curb side rear entry door for disabling the load lights during the daylight hours.

Does your bid comply? Yes\_\_\_\_\_ No\_\_\_\_\_

22.8 PERIMETER LIGHTING CERTIFICATION: To assure that the exterior work lighting is adequate to perform EMS functions in a variety of settings which may require exterior illumination, the Scene and Load lights installed on this vehicle shall comply with AMD Standard 024- Perimeter Illumination Test.

Does your bid comply? Yes\_\_\_\_\_ No\_\_\_\_\_

22.9 COMPARTMENT LIGHTING: The compartments shall be illuminated with near flush mounted LED Compartment lights. The lights shall function each time the compartment door is opened and extinguish when the door is closed. The lights shall be located: (1) Ceiling of Compt #1; (2) in Compt #2- (1) URH, (1) LLH; (1) in ceiling of Compartment #3; (2) in Compt #4/5; (1) in Compt #6.

Does your bid comply? Yes\_\_\_\_\_ No\_\_\_\_\_

## 23.0 AUDIBLE CONSPICUITY

23.1 ELECTRONIC SIREN: The ambulance shall be equipped with an ignition powered Whelen 295SLSA1 200-watt siren mounted in the engine cover console.

There shall be a set of CPI polished cast aluminum 100-watt speakers mounted through the bumper on the outboard ends. The siren speakers shall not block air-flow into the grille per the OEM chassis manufacturer's guidelines. The siren and speakers shall meet or exceed KKK-A-1822F 3.14.4 and be compliant with AMD Standard 023- Siren Performance Test and AMD Standard 006- Patient Compartment Sound Level Test.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

23.2 BACK UP ALARM: The apparatus shall include a minimum 97 decibel back up alarm device. The alarm shall be automatically activated by shifting the vehicle transmission into reverse. The backup alarm shall include a rocker type cut-off switch located in the cab console Switch Panel. The alarm device shall be provided as required in KKK-A-1822F 3.15.2 and shall be compliant with SAE Standard J994.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

## 24.0 INTERIOR LIGHTING

24.1 ACTION AREA LIGHTING: A 12-volt LED light shall be provided directly over the forward, street side work surface. A near flush, 18-inch type fixture shall be provided. The light shall have an on-off rocker switch on the body of the light housing.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

24.2 STEPWELL ILLUMINATION: A 12 VDC LED light shall illuminate the curbside stepwell per Federal Specification KKK-A-1822F 3.10.12.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

24.3 PATIENT COMPARTMENT DOME LIGHTS: The patient compartment shall have eight 8” dual intensity LED dome lights in the ceiling. The lights shall be arranged in two longitudinal rows of (4) lights each. The streetside row shall provide light directly over the patient; the curbside row shall provide light directly over the aisle and squad bench. The four curbside lights shall be activated when the side or rear module entrance doors are opened on a five-minute timer circuit. The dome lights and configuration shall meet KKK-A-1822F 3.8.4, 3.8.4.1 and be compliant with AMD Standard 016- Patient Compartment Lighting Level Test.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

24.4 CHECK-OUT TIMER: A 5-minute check-out timer shall activate by opening the rear or side entry door when the battery switch is off. The curbside bank of dome lights shall turn on in the “high” mode. Following the first 5-minute cycle the lights will deactivate. The cycle can be reactivated by closing, then re-opening the side or rear entry door.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

24.5 FIFTEEN MINUTE TIMER: A 15-minute check-out timer shall be activated by a momentary switch housed in a switch panel next to the side entry door.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

## 25.0 COMMUNICATIONS EQUIPMENT

25.1 COMMUNICATIONS RADIO ANTENNA PRE-COAX: The vehicle shall be equipped with two (2) RG58-U coaxial cables with termination location to be determined by the purchaser. A 12VDC power and ground lead shall also be provide for each coaxial cable. There shall be an 18” service loop at the starting point and a 36” termination loop. The radio power wires shall originate in the power distribution area and will be labeled appropriately for future installation by a radio technician.

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

25.2 Can your company install radio equipment that Monroe County has purchased and manufacturer will ship to your company’s location?

Does your bid comply? Yes \_\_\_\_\_ No \_\_\_\_\_

## **26.0 PAINT, LETTERING, DECALS, MISCELLANEOUS**

26.1 100% PAINTFILM COVERAGE: All stages of primer and paint shall cover all weather-exposed surfaces. Hinge mating surfaces on the doors and jambs shall be painted. Bare aluminum and primer-only preparation is not acceptable under door hinges. Doors shall be painted without actuation handles installed. All body cutouts for emergency lighting, shoreline receptacle, etc., shall be cut prior to initiating the prime/paint process to assure complete coverage of all exposed, raw metal.

All of the module entry and compartment doors shall be removed prior to painting and be painted separately, at the same time and identically to the module process to insure complete coverage and electrolysis protection between the stainless-steel hinge and the aluminum door and frame surfaces.

To reduce the risk of breaking paint and to provide a for a more consistently robust paint application, all light holes, the license plate bracket hole, gas filler bracket hole, all door window and handle holes and exhaust fan and any other option required mounting holes shall be cut in the module prior to beginning the paint process. Intersection light holes shall be cut in the chassis fenders and cut out must be coated with a corrosion resistant material to comply with Ford QVM requirements to prevent oxidation and rusting of the OEM metal surface.

The manufacturer's standard paint process shall provide that all surface body welds and imperfections be ground flush and body filled as needed to provide a smooth even surface that facilitates a flat smooth paint finish.

The entire exterior surface of the module shall be sanded with an air powered DA sander and a minimum 150 grit sand paper and then the module shall be washed with DX-330 cleaner/degreaser to remove any metal, oil or contaminant residue prior to the application of the seam seal process.

All exterior body seams shall be sealed with 3M panel bond/seam sealer to provide a smooth application environment for the prime and paint processes and to prevent future contamination, oxidation and corrosion.

The entire exterior surface of the module shall be coated with a primary coat of PPG "Delfleet" etch-coat primer, flash dried and then coated with a high-performance PPG "Delfleet" primer sealer and baked to dry. The primer sealer coat shall be sanded to a flat smooth finish to eliminate all nibs and imperfections, inspected and etch primer/sealer applied where necessary and washed with DX330 to provide a clean, smooth surface prior to the application of the base coat application.

The entire exterior surface of the module shall be coated with an application of PPG "Delfleet" color mixed base coat. The base coat shall be baked to dry and inspected for imperfections. Minor surface repairs shall be utilized to provide a smooth surface prior to the application of the clear coat material. The entire exterior surface of the module shall be coated with an application of a PPG - "Delfleet" clear coat finish that will provide a robust, durable finish. The clear coat finish shall be baked per PPG "Delfleet" process instructions prior to the finished surface process application.

After the clear coat process is completed, the entire exterior surface of the module shall then be sanded with a minimum 1200 grit sand paper and then buffed using 3M Perfect-It III buffing compound to provide a clean, high gloss final surface finish.

Without exception, the manufacturer shall monitor the entire application process. The inspection process shall provide mil-thickness measurements at numerous random locations across the body to ensure that the total paint process shall provide a minimum of 5 mils dry build, without runs or sags, after the completion of the final sand and buff process.

Does your bid comply?      Yes\_\_\_\_\_      No\_\_\_\_\_

26.2 PAINT AND COLORS: Unless otherwise specified, the module shall be painted white to match chassis. All chassis and/or body paint, other than standard white, shall be specified by the purchaser. All striping and/or lettering, in addition to any "Ambulance" and "Star-of-Life" decals shall be specified by the purchaser. Any painting performed by the manufacturer, of the body and/or chassis, shall be covered under warranty for a period of not less than four (4) years / forty-eight (48) months, and shall be sanctioned by the paint manufacturer.

Does your bid comply?      Yes\_\_\_\_\_      No\_\_\_\_\_

26.3 LETTERING & DECALS: Federal Specification KKK-A-1822F "Star-of-Life" and "Ambulance" lettering shall be installed. The completed vehicle shall be lettered to match that of the current fleet of vehicles currently in service at Monroe County EMS.

The following labels shall be provided as standard.

Notice: This vehicle Equipped with 12VDC charging System (Mounted in cab)

'Shore Inlet 125VAC 60 HZ'

'125VAC Outlet'

'12VDC Outlet'

'Diesel Only' or 'Gasoline Only' (per chassis requirements)

'No Smoking/Oxygen Equipped'

(2) 'Fasten Seat Belt' signs provided: (1) located in the cab and (1) in the module.

Does your bid comply?      Yes \_\_\_\_\_      No \_\_\_\_\_

26.4 FIRE EXTINGUISHERS: In compliance with the Federal Specification KKK-A-1822F, there shall be two (2) 5lb. ABC rated fire extinguishers with mounting brackets. These extinguishers shall be shipped loose with the completed ambulance for installation by this agency.

Does your bid comply?      Yes \_\_\_\_\_      No \_\_\_\_\_

## **27 REFERENCES AND STANDARDS**

### **27.1 MANUALS**

An Owner's Manual copied onto a CD along with the OEM chassis manufacturers supplied items shall be provided with each vehicle. The information on the disc consists of the following items:

1. Chassis Warranty Card & Owner's Information
2. Chassis Maintenance and Operating Tips
3. Extra Set of Keys
4. 15 Year Module Warranty
5. 1 Year/12,000 mile Conversion Warranty
6. 6 Year/72,000 mile Electrical Warranty
7. 4 Year Paint Warranty
8. Care and Maintenance Instruction
9. Heater/AC Information & Warranty

10. OEM Chassis Manual
11. Schematics for Standard Systems:
  - Charging System
  - Power Distribution
  - Front Switch Panel
  - Rear Switch Panel
  - Climate Control System
  - OEM Drawings
  - Wire Harness list
  - Circuit Diagrams for all Systems
12. Conversion Component Information
13. Operations Manual
14. Warranty and Parts List - Siren, Etc.

Does your bid comply?      Yes \_\_\_\_\_      No \_\_\_\_\_

## 27.2 VEHICLE DRAWINGS

The following drawing views shall be provided:

1. Street side Exterior Detail
2. Curbside Exterior Detail
3. Front & Rear Exterior Detail
4. Street side Interior Detail
5. Curbside Interior Detail
6. Front & Rear Interior Detail
7. Overhead Floor Detail
8. Overhead Ceiling Detail

Does your bid comply?      Yes \_\_\_\_\_      No \_\_\_\_\_

**Any additional questions concerning specifications or bid packet may be directed to Randy White, Monroe County EMS Director at 423-572-2508 or at [randy.white@monroetn.com](mailto:randy.white@monroetn.com)**

**Pricing**

Price should be quoted as of January 2020.

**TOTAL PRICE**\_\_\_\_\_

**PLEASE INDICATE THE NUMBER OF DAYS REQUIRED TO DELIVER THE SPECIFIED VEHICLE AFTER AWARD OF BID IN THE SPACE PROVIDED BELOW.**

**Delivery Days**\_\_\_\_\_

**WARRANTIES: Please specify warranties on ambulance in space provide below.**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Invoicing**

Invoices must contain date and location supplies were delivered and the purchase order number for that particular order. Invoices will be paid within thirty (30) days once received. **The vendor is not to fulfill any orders for the County without a purchase order in place.**

**Response Submission**

In order to facilitate the bid evaluation process, one (1) original and one (1) exact copy of the bid must be submitted to the Purchasing Department. All bids must be packaged, sealed, and show the following information on the outside of the package:

Company’s Name and Address  
Bid Number and Title and Bid Due Date and Time

Submit to:  
Monroe County Finance Department  
Attn: Jessi Soileau  
103 College Street South, Ste. 9  
Madisonville, TN 37354

**Must be Included in Bid Package**

- 1. One original and one copy of bid
- 2. W-9
- 3. Three References
- 4. Litigations

**References**

The vendor must be able to provide a list of three (3) references, including the name, complete address, contact person, phone number, and length of time services have been provided for other local government or school organizations or corporations for which the vendor provided ambulances for the past five years.

Name: \_\_\_\_\_ Address: \_\_\_\_\_  
Contact Person: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
Period of time services were provided: \_\_\_\_\_

Name: \_\_\_\_\_ Address: \_\_\_\_\_  
Contact Person: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
Period of time services were provided: \_\_\_\_\_

Name: \_\_\_\_\_ Address: \_\_\_\_\_  
Contact Person: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
Period of time services were provided: \_\_\_\_\_

**Monroe County reserves the right to reject any and all bids and to negotiate with an applicant prior to entering into a contract. Any award pursuant to the terms and provisions hereof shall be in the best interest of Monroe County.**

**Litigations**

The prospective ambulance vendor shall identify by name, docket number, and Court, all litigations to which the prospective ambulance vendor and/or vendor’s firm has been a party from January 2005 to present.

NO \_\_\_\_\_  
YES \_\_\_\_\_

Name of Case (include case or docket number): \_\_\_\_\_

Court in which case is filed: \_\_\_\_\_

Description of claims that are subject to any litigations:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Decision/Verdict of case if concluded:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**BIDDER INFORMATION:**

Name of Bidder: \_\_\_\_\_

(Typed or Printed: Firm, Corporation, Business or Individual)

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

Business has been in business under its present name since: \_\_\_\_\_

At this present time we understand all requirements and state that as a serious bidder we will comply with all the stipulations included in this package.

The above named bidder affirms and declares:

1. That the bidder is of lawful age and that no other person, firm or corporation has any interest in this Bid/Proposal or in the contract proposed to be entered into.
2. That this Bid/Proposal is made without any understanding, agreement, or connection with any other person, firm or corporation making a proposal for the same purpose, and is in all respects fair and without collusion or fraud.
3. That the bidder is not in arrears to Monroe County upon debt or contract and not a defaulter, as surety or otherwise, upon any obligation to Monroe County.
4. That no officer or employee whose salary is payable in whole or in part from the County Treasury shall be or become interested, directly or indirectly, surety or otherwise in this proposal, in the performance of the Contract, in the supplies, materials, equipment and work or labor to which they relate, or in any portion of the profits thereof.

BIDDER: \_\_\_\_\_

BY: \_\_\_\_\_

(Authorized Signature in Ink)

PRINTED NAME OF SIGNER: \_\_\_\_\_

TITLE OF SIGNER: \_\_\_\_\_

DATE SIGNED: \_\_\_\_\_

PHONE NUMBER OF SIGNER: \_\_\_\_\_

**ALL VENDORS MUST SUBMIT A W-9 FORM WITH THEIR BID RESPONSE**