

JEFFERSON COUNTY GOVERNMENT

Detailed Bid Specifications

TYPE I - 4WD AMBULANCE New or Used

Bid Opening Timeline

Please mail or deliver sealed bids clearly titled "Ambulance Bid" by no later than Wednesday, June 8, 2022 at 3:00 PM to:

Jefferson County Commission
Commission Office
124 E Washington St
Charles Town, WV 25414

Bids will be opened in public at the Commission Office on Wednesday, June 8, 2022 at 3:01PM.

Intent of this Bid

This Request for Proposal (RFP) is intended to provide vendors with a common, uniform set of specifications to assist them in the development of their bids and to provide a uniform method for the bidding agency to fairly evaluate bids and subsequently select a vendor from which to purchase these ambulances.

The following specification describes new or used ambulances that are expected to be acquired by this purchaser over a 24-month period from the date of proposal acceptance by the Jefferson County Government, County Commission. The specification describes the needs of this purchaser as far as chassis configuration and module body design. A state of the art vehicle is required. However, manufacturers that utilize prototype equipment will not be considered. The builder's manufacturing history shall be supported by documentation where applicable, and by the reference section within this specification. The benchmark for the initial configuration of this ambulance shall be the current GSA triple K spec. However, most requirements in this specification exceed the federal specifications because of the specific needs of this purchaser. Please note that the following specifications represent minimum general terms or requirements. While it is not the intent of this purchaser to preclude any qualified bidder from submitting a proposal, it must be clear that any bidder deviating in any substantial manner from these specifications may be rejected as being non-compliant.

In responding to this RFP, vendors should follow the prescribed format and use the forms included, thus providing Jefferson County with data that is easily compared with data submitted by other vendors in order to fairly and objectively evaluate the proposal.

The bidding agency assumes no responsibility for conclusion or interpretations derived from the information presented in this RFP, or otherwise distributed or made available during this procurement process. In addition, the bidding agency will not be bound by or be responsible for any explanation, interpretation, or conclusions of the RFP or any documents provided by the bidding agency other than those given in writing by the bidding agency through the issuance of addenda. In no event may a vendor rely on any oral statement by the bidding agency or its agents, advisors, or consultants. It is the full responsibility of the vendor to thoroughly investigate the needs and requirements of the bidding agency not necessarily assumed in this RFP and to submit a bid for: TYPE I AMBULANCE.

Bidders are encouraged to contact Director Bob Burner to set an appointment to see/discuss the current or required layout of ambulances to ensure that the appropriate bid is submitted.

The Jefferson County Government, County Commission, in their judgment, reserves the right to qualify, disqualify and award the bid to the contractor they see most meets the qualifications of the bid spec.

NOTE: That certain Exceptions to make and model may be made for USED VEHICLES with comparable equipment / specifications. No exceptions will be made for NEW VEHICLES.

I. Instructions, Requirements, and Details

A. VENDOR PROPOSALS DUE BACK

All proposals offered under this specification are due back to the JCC office before Wednesday, June 8, 2022 at 3:00PM, at which time each proposal will be opened and the review process started. Proposals may be mailed or hand delivered to:

Jefferson County Commission
Commission Office
124 E Washington St
Charles Town, WV 25414

Proposals should be sealed and clearly marked "Ambulance Proposal".

B. INSTRUCTIONS FOR BIDDERS

This specification establishes standards for the design, construction and performance of a Type I ambulance. The completed vehicle and components must comply with the current version of Federal Specification KKK-A-1822 unless specifically requested otherwise in the following document. As the criteria for compliance with KKK-A-1822 are well established, this document will not contain redundant references to their content.

****Is this paragraph understood? Yes No Bidder's initials: _____**

C. SPECIFICATION BID REQUIREMENTS

1. Bidders shall also indicate in the "yes/no" column if their bid complies on each item and section specified. Exceptions shall be allowed if they are equal to or superior to that specified and provided they are listed and fully explained on a separate page titled "exceptions". This page shall reference the exact section and letter of the RFP that is subject of the variance. (Example: II, a)
2. Bids will not be accepted after the date and time stated in the invitation to bid.
3. Payment shall be made in accordance with these specifications and the Bid Proposal submitted by the Bidder. Payment will be made upon acceptance of the vehicle(s) and equipment specified in this document.
4. Bids received shall be evaluated by the Purchaser. This evaluation will be based on, but not limited to, completeness of proposal, exceptions, price, and delivery schedule.
5. Bid Proposals taking total exception to these specifications will not be accepted.
6. Any exception to the provisions in these specifications must be marked in the body of this document and itemized on a separate attached page(s) titled EXCEPTIONS.
7. Referenced by section number and paragraph, a detailed explanation of the exception shall be provided along with by the bidder's alternative proposal.
8. Bids not following this format shall be rejected without consideration. NO EXCEPTIONS TO THIS REQUIREMENT.
9. The contractor shall indemnify and save the Purchaser harmless from any and all claims, liability, losses, and causes of actions which may arise out of the fulfillment of this agreement. The Bidder shall pay all claims and losses of any nature whatsoever in connection therewith, and shall defend all suits, in the name of the Purchaser when applicable, and shall pay all costs and judgments which may ensue thereafter.
10. Failure to deliver any part of the order to the terms required may be considered by the purchaser as a breach of contract. In such case the vehicle(s) and equipment may be rejected and the purchaser shall retain the right to require forfeiture of the full amount of the Performance Bond (if required) as liquidated damages.

11. When submitting their Bid Proposal, bidders must return all pages of these specifications as part of the Bid Proposal as it will form the contract between the contractor and the purchaser. Caution should be taken by the bidder that all questions are answered in the spaces provided and that all information requested is provided.

12. It is the bidder's responsibility to be familiar with all federal, state, and local laws, ordinances, codes, and regulations concerning the submission of this bid and the work it effects. Ignorance of said enactments shall not relieve the bidder of responsibility to comply or complete the bid work.

13. In the event a clarification is requested on the contents of this specification, the question shall be addressed to:

Director Bob Burner
419 Sixteenth Ave
Ranson, WV 25438
304-728-3310
304-728-6221 (fax)

14. When a bidder requests clarification, a copy of the request and this agency's reply will be forwarded to all bidders.

15. The vehicle(s) shall, at the time of delivery, conform to the minimum requirements of the latest standards covering vehicles of this type. This shall include federal, state and local requirements.

16. This purchaser is seeking quality equipment. Bidders are asked to bid only the product of the highest level of quality represented by that bidder.

17. By signing this document, the bidder agrees that this bid is made without any understanding, agreement, or connection with any other person, firm, or corporations making a bid for the same purpose, and that this bid is in all respects fair and without collusion or fraud.

18. It is the intent of this agency to enter into a contract with the successful bidder to allow that contract to be extended for 1 year in order to add additional units to the contract. Unless submitting a bid for a prior year, used Type I ambulance, this contract shall allow for chassis model year increases, only if and when the successful bidder provides documentation from its chassis supplier on their letterhead indicating an increase to the chassis.

19. This contract shall allow any other agency within the state of this contract, or any other state outside of this state to purchase off of contract. However, prospective purchasers shall enter into separate agreements for product being offered. The bidding agency does not control this contract outside of what it is intended on.

20. Latest literature and detailed specifications on the unit proposed shall be included with the proposal submittal.

****Is this section understood and agreed to? Yes ____ No ____ Bidder's initials: _____**

D. TYPE OF BIDS TO BE SUBMITTED

1. The information requested within the bid must be furnished in full. Any bidder not completing this proposal or not furnishing any required information will not be considered. If a bidder will not furnish a material or fabrication process exactly as described in this specification, then that differences must be designated in the list of exceptions. If a substitution is being proposed, then the bidder must note the section to which the alternative is being proposed and provide technical data, supported by an engineer, supporting the fact that the substitute is equal to or better than the item as specified on the exceptions page. If this data is not submitted with the bid, then the bid shall be rejected as being non-compliant. Bidder added narrative describing a substitution as being clarification, exceeding, being equal to, etc. will not be accepted. Statements such as these, with or without the technical data described in this section, will cause the bid to be rejected as being noncompliant.
2. This purchaser reserves the right to require samples of any deviating material to be provided for evaluation.

Is this section understood and agreed to? Yes ____ No ____ Bidder's initials: _____

E. GENERAL REQUIREMENTS

1. Payment shall be made on delivery of the purchased item, or upon completion of all work contracted for (whichever occurs later) and to performed to the satisfaction of the purchaser.
2. All bid prices shall quote F.O.B. destination basis, at the purchaser's specified location. Bid prices shall be complete and include all warranties and equipment specified. After bid, allowances will not be made for incorrect or incomplete bid proposals.
3. All prices, terms, and conditions must be specified on the Bid Proposal Form.
4. ** This bid is for no less than one and no more than three units.**

Is this section understood and agreed to? Yes ____ No ____ Bidder's initials: _____

F. INSPECTION TRIPS –Applicable to New Vehicles

1. PREBUILD MEETING

- a) There shall be a required prebuild meeting at a Jefferson County facility before any construction can begin.
- b) The prebuild meeting shall be conducted at the “primary builder”, of the apparatus. No meeting shall take place at the dealerships place of business. This is the only method that will be the only acceptable way to conduct the pre-construction meeting. NO EXCEPTIONS.
- c) At least three department personnel along with a representative or dealer of the successful bidder shall attend.
- d) At this meeting all parties shall again go over the specifications to insure that the apparatus is built to meet or exceed all requirements.
- e) After this meeting the representative of the successful bidder shall present the department with detailed drawings and work order to be used in the production of the apparatus being bid.

2. MID POINT INSPECTION

- a) There shall be a midpoint inspection trip at the factory of the successful bidder. The inspection trip shall consist of three members from the department who shall inspect the progress of the apparatus to insure compliance to all specifications.

3. PRE DELIVERY INSPECTION (FINAL)

- a) There shall be a pre delivery inspection trip at the factory of the successful bidder. The inspection trip shall consist of three members from the department along with the representative of the successful bidder to insure compliance to all specifications.

4. Expenses

- a) All expenses relating to the Prebuild, Mid-Point, and Final inspection trips shall be at the cost of the successful bidder and be at no cost to the department. This is to include all meals and lodging while at the inspection along with travel allowances for fuel for any factory under 500 road miles from (Bidding Agency) and/or round trip coach air flight, for up to three representatives for any factory that is over 500 road miles from (Bidding Agency) facility.

5. NOTE

a) Under no circumstances shall the completed ambulance leave the manufacturer's facility unless everything is completed at the factory. Bidders that make allowances for units to be completed at their service facility or office shall not be acceptable to this bidding agency. NO EXCEPTIONS.

Is this section understood and agreed to? Yes ___ No ___ Bidder's initials: _____

G. ONE MONTH SERVICE CALL -Applicable to New Vehicles

1. After the vehicle has been in service for approximately one month, the successful vendor shall send a trained factory employed personnel to bidding agency, for a service and warranty review.
2. The factory technician shall check all operating systems and repair or replace any items found defective or in need of re-work.
3. Should a problem occur before the one month service call, the bidding agency will require immediate service from the factory technician, at the department's location. NO EXCEPTIONS

Is this section understood and agreed to? Yes ___ No ___ Bidder's initials: _____

H. BID PRICE TIME WINDOW

1. Bid prices shall be valid for at least ninety days from the date of the Bid Opening, or as otherwise specified on the Bid Proposal Form.

Is this section understood and agreed to? Yes ___ No ___ Bidder's initials: _____

I. CHASSIS MANUFACTURE CERTIFICATIONS-Applicable to New Vehicles

1. This agency seeks the highest level of quality assurance and liability protection. To insure that these standards are met, bidders must submit documentation substantiating that they are a current member of the Ford QVM (Qualified Vehicle Modifier) program.
2. QVM certification applies even in cases where the chassis bid is not a Ford Motor Company product. They must be able to show that they have been factory trained. Bids not meeting this requirement cannot be considered.

Do you meet requirements of this section? Yes ___ No ___ Bidder's initials: _____

J. WARRANTY –Applicable to New Vehicles

1. The proposal shall include all warranties that are required in the following detailed specifications. The minimum acceptable warranty periods are noted below. In the blank lines the bidder shall note the terms of the warranty that apply to the manufacturer being proposed.

2. Bidding Agency shall provide a minimum 36 month/36,000 mile Limited Warranty on the vehicle conversion, which covers defective parts and/or components, improper choice of materials, parts and/or components, improper design or engineering and poor or improper workmanship or quality control techniques. This warranty shall cover the complete vehicle, exclusive of the chassis, and shall include any and all costs for labor and parts or materials required to correct deficiencies. It is not the intent of this requirement that items such as light bulbs, or equipment installed in or on the vehicles which are covered by their own separate and specific warranty statements, be included in this warranty.

3. State the General warranty terms you are bidding:

Number of years _____ Mileage_____

4. Since it is the purpose of these specifications to provide for a modular body that will offer many years of service, the manufacturer of the vehicle(s) bid shall warranty the structural modular body for the life of the unit. This warranty shall be in writing and shall be included with the Bid Proposal. Bidders who fail to meet this requirement shall not be considered responsive.

5. State the Structural warranty terms you are bidding:

Number of years _____ Mileage limitations (if applicable) _____

6. There shall be a 6 year/72,000 mile electrical warranty provided on the ambulance conversion electrical system. Lifetime Electrical Warranty will not be accepted unless it covers the entire electrical system. A copy of the warranty statement shall be submitted with this Bid Proposal.

7. State the Electrical warranty terms you are bidding:

Number of years _____ Mileage limitations _____

8. A 7 year paint warranty shall be provided on the paint and its application. A copy of the painter's warranty statement shall be included with this Bid Proposal. All warranties shall begin at the acceptance of the vehicle(s) by the purchaser.

9. State the Paint warranty terms you are bidding:

Number of years _____ NO MILEAGE LIMITATIONS? ____ YES ____ NO

10. For verification of the completed warranty terms stated above the bidder must include printed manufacturer's warranty certificates that meet or exceed the minimum required periods stated below.

Are the manufacturers warranties included? Yes ____ No ____

11. All warranties shall be from the manufacturer as opposed to a distributor or service center. This is necessary for the protection of the purchaser, and to guarantee a certain known level of service and warranty. If, however, the bidder feels that it is necessary to modify the manufacturer's warranties, then the bidder shall state why this modification is necessary. In addition, the bidder shall provide a full descriptive warranty certificate describing the warranty modification and the fact that it takes specific precedence over the warranty offered by the manufacturer. If no such certificate is provided, then the modified warranty shall be considered invalid and the manufacturer's warranty shall remain in force. If the manufacturer states that no party is permitted to modify its warranty, then any warranty modification provided by the bidder, despite being in writing, shall automatically be rejected.

Does the bidder conform to the above-written section? Yes ____ No ____

12. In order to simplify the evaluation process the following questions must be answered and this section must be initialed by the bidder.

a) Are the warranties pro-rated in any manner? Yes ____ No ____

If yes, explain:

b) Are the warranties transferable? Yes ___ No ___

If yes, explain:

c) Has the bidder modified the manufacturer's warranties?

Yes ___ No ___

If yes, explain:

If yes was chosen above, has the bidder included modified written warranties?

Yes ___ No ___

If no, explain:

If 'yes' was chosen above, has the bidder included financial statements for the last 5 years of the warranty modifier? Yes ___ No ___

If no, explain:

_ m. Bidder shall initial that this section is understood and has been answered truthfully.

13. Note: Bidders, who are found to be untruthful in this, or in any other section of this bid, will have their bid automatically rejected.

Do you meet requirements of this section? Yes ___ No ___ Bidder's initials: _____

K. PRODUCT LIABILITY INSURANCE -Applicable to New Vehicles

1. Proof of current liability insurance shall be supplied. The proof of insurance shall bear the insurance carrier's name, address, and phone number. The proof shall also bear the name and address of the insured. This document shall contain the coverage schedule, explaining the type of insurance, the policy number, the effective date of coverage, the policy expiration date, and the individual limits. The minimum amount of coverage shall be as follows.

2. Commercial General Liability - Aggregate policy limit of ten million dollars.

3. Automotive Liability - Any Hired and Non owned Autos

4. Combined Single Limits of One million dollars.

5. Garage Liability - Any Auto

6. Auto only - Each accident: limit of one million dollars.

7. Workers Compensation and Employer's Liability -

a) *Each Accident: limit of five hundred thousand dollars.*

b) *Disease policy: limit of five hundred thousand dollars.*

c) *Disease - Each Employee: limit of five hundred thousand dollars.*

8. Automotive Damage, Physical Liability Damage

9. Comprehensive Deductible:

Since these specifications describe an emergency vehicle that may be used under adverse conditions, this agency seeks to reduce its future liability exposure. Therefore, all bidders responding to these specifications shall submit a proper and verifiable Certificate of Insurance. This shall certify that the manufacturer of the bid vehicle has in force, Product Liability insurance in the minimum amount of ten million dollars.

10. The amount of Product Liability must be adhered to by both manufacturer and dealer, who will be providing the bid.

11. Bidders failing to submit proof of the above requirement cannot be accepted and their Bid Proposal will be rejected.

Do you meet requirements of this section? Yes ___ No ___ Bidder's initials: _____

L. STATE AND LOCAL LICENSES

1. All bidders must have any and all current licenses required by state law to do business in the state in which this agency resides.

Do you meet requirements of this section? Yes ___ No ___ Bidder's initials: _____

M. MISCELLANEOUS REQUIREMENTS –Applicable to New Vehicles

1. The bidding agency has concerns with bidders not having the completed unit built by the manufacturer. With that said, the bidding agency will not accept units that are not built and completed at the manufacturer's facility. This will eliminate split responsibility into service and warranty repairs. Add-on equipment shall be furnished by the manufacturer and not their representatives, to avoid warranty issues. If the bidder makes any claim to adding equipment at the dealership, then your bid will be considered non-responsive and rejected. NO EXCEPTION.

Do you agree to this section? Yes ___ No ___ Bidder's initials: _____

2. It is the intent of this agency to have the vehicle completed and ready for service once it leaves the ambulance manufacturer's facility. NO EXCEPTIONS.

Do you agree to this section? Yes ___ No ___ Bidder's initials: _____

3. All equipment furnished shall be guaranteed to be new and of current manufacture; meet all requirements of this specification; and be in proper operating condition at the time of delivery. All parts shall be of high quality workmanship and construction.

Do you agree to this section? Yes ___ No ___ Bidder's initials: _____

4. No part or attachment shall be substituted or applied contrary to the manufacturer's recommendations and standard practices.

Do you agree to this section? Yes ___ No ___ Bidder's initials: _____

N. SERVICE AVAILABILITY –Applicable to New Vehicles

1. Service will be a major factor in this proposal. Convenience and experience will be determining factors in defining acceptable service. A service facility within a radius as described below will be required. Personnel performing the service shall be trained by the manufacturer with emphasis in the area of electrical service. In order to evaluate the proposed service facility, the following information shall be provided on the appropriate lines.

Radius from Purchaser: Not more than _____ miles.

Facility Name (If not the manufacturer): _____

Address: _____

City: _____ State: _____ Zip Code: _____

Contact: _____

Phone: Toll Free Preferably: _____

Training Description: _____

Do you meet requirements of this section? Yes ___ No ___ Bidder's initials: _____

O. DRAWINGS, PHOTOGRAPHS AND/OR DOCUMENTS

1. Bidders shall include with the Bid Proposal: literature, photographs or similar documents which describe or depict the manufacturer's type and model proposed; a complete set of the manufacturer's specifications for the type and model proposed; and one set of drawings-for New Vehicles and Photographs for Used Vehicles. These drawings and/ or photographs shall consist of: four exterior views; front, rear, curbside and street side and four interior views; front, rear, curbside and street side, showing the location of all requested features attached thereto.

2. NOTE FOR NEW VEHICLES: the drawings submitted by the bidder must show the design, layout, and features specified in this document. Submitting a manufacturer's "generic" or "standard feature" drawings, or photocopies of the reference drawings provided with this document, shall NOT be acceptable. Bidders not including the required drawings will be considered nonresponsive and will, therefore, be rejected.

Are the required drawings included with this bid? Yes ___ No ___ Bidder's initials: _____

3. The bidder shall utilize these specifications and return their proposal in the same format as the specifications provided. Failure to submit the bid specifications in the same format will be grounds for rejection.

Are your specifications in the same format? Yes ___ No ___ Bidder's initials: _____

IT IS AGREED BY THE UNDERSIGNED BIDDER THAT THE SIGNING AND DELIVERY OF THIS BID REPRESENTS THE BIDDER'S ACCEPTANCE OF THE TERMS AND CONDITIONS OF THE FOREGOING SPECIFICATIONS AND PROVISIONS, AND IF AWARDED THE BID BY THIS AGENCY, WILL REPRESENT THE AGREEMENT BETWEEN THE PARTIES.

Sign in ink in the space provided below. UNSIGNED bids will be considered incomplete and will be subject to rejection.

Name of Firm: _____

Signed (in ink):

_____ (Signature of Officer of Company)

Title: _____

Date Signed: _____

Street Address:

Mailing Address:

City: _____

State: _____

Zip Code: _____

Phone Numbers:

Phone: _____

Fax: _____

Email Address:

_____ @ _____

Ambulance Manufacturer:

Model Year: _____

Model Designation: _____

Delivery will be made within ____ days of receipt of chassis by the Manufacturer

TO BID AMOUNT: _____ \$ _____

II. SPECIFICATIONS –

This section is applicable to NEW VEHICLES.

A. CAB & CHASSIS

1. Chassis shall be current model year Ford F450 CHASSIS 4WD.
2. Failure of the bidder to provide the chassis exactly as specified will be grounds for rejection of the bidder's proposal as being non-responsive. Exceptions will be made only if the bidder can prove that a required feature is unavailable from the chassis O.E.M.

B. CHASSIS WARRANTY

1. The chassis manufacturer's standard vehicle warranty policies shall apply.

C. SPARE TIRE

1. A spare tire and rim shall be ordered with the chassis and shipped loose with the delivery of the completed unit.

D. RUNNING BOARDS/ CAB STEPS

1. .125" thick aluminum diamond plate and installed under the driver and passenger entry doors. They shall be of a design that allows step-up/step-down access for ease of entry and egress.

Above section bid exactly as written: Yes ____ No ____

E. WHEEL INSERTS

1. A set of Phoenix Stainless Steel wheel inserts shall be provided for the front and rear wheels. The wheel inserts shall be Ford QVM and match to fit the chassis.
2. Braided stainless steel air stem extensions shall be furnished for the inside dual rear wheels to allow these wheels to easily be checked and filled with air.

Above section bid exactly as written: Yes ____ No ____

F. AIR HORNS

1. Dual Buell Strombos air horns shall be provided and mounted under passenger seat area of chassis. The system shall include one 10" trumpet, one 12" trumpet, a 1.1 cfm compressor, a 6" diameter x 25" long steel air tank and a 12V DC stainless steel solenoid. The air horns will be activated by a momentary switch on the cab console.

Above section bid exactly as written: Yes ___ No ___

G. CHASSIS LIQUID SPRINGS SUSPENSION

1. A Liquid Springs suspension system shall be provided and installed on the rear axle of the chassis. It shall include a 12V PUMP, main hydraulic tank, and low pressure indicator kit. The system shall be wired to kneel whenever the left leaf of the rear entry door is open. When the door is closed with the ignition on, the system shall automatically return to ride height.

Above section bid exactly as written: Yes ___ No ___

P. EXHAUST SYSTEM

1. The exhaust system shall conform to the chassis manufacturer's requirements.

Above section bid exactly as written: Yes ___ No ___

Q. SPLASH GUARDS / MUD FLAPS

1. There shall be provided a set of splash guards installed in the front wheel wells of the cab. The splash guards shall be constructed of aluminum and shall be securely fastened to the inside of the wheel well.

2. Additionally, there shall be provided a set of heavy duty rear mud flaps. The flaps shall be made of thick rubber material and shall be as wide as the dual rear wheels.

3. The mud flaps shall be securely fastened to the module body using stainless steel fasteners.

Above section bid exactly as written: Yes ___ No ___

R. CUSTOM CENTER CONSOLE – CAB

1. There shall be provided a custom center console in the cab, which shall replace the OEM center console, and shall be located between the driver and passenger seats. The console shall come complete with the necessary switch panels and other controls as required by these specifications.
2. The switch panel shall incorporate rocker style switches, door and compartment indicator lights, voltmeter and amp gauges. The switches shall be aligned so that the “off” position is down or towards the rear of the cab.
3. The console shall be constructed to make the maximum use of the space available. As the department requires, the console shall contain room for various map books and glove boxes.
4. The front console shall have two cup holders.
5. The console shall be covered with a scorpion paint-type material.
6. The console shall have alarm with a red light for open compartment.
7. The console shall house a 110v outlet for the mobile data computer.
8. The cab shall also house the Brigade Backeye or equivalent system.
9. There shall also be a 110-volt outlet inside console to connect power to mobile data computer. Should be wire hole through passenger side of console.
10. NOTE: Exact layout to be determined by the purchasing agency.

Above section bid exactly as written: Yes ____ No ____

S. BODY CONSTRUCTION OVERVIEW

1. The dimensions of the patient module shall be in accordance with manufacturer's specifications with minimum dimensions of 150" in length, 96" in width, and 72" headroom.
2. The ambulance body shall be constructed of custom designed aluminum extrusions and aluminum plate. The ambulance body shall be designed and engineered specifically as an emergency vehicle and shall be built to meet the heavy duty requirements of emergency service.
3. The body shall be of welded construction for maximum strength and integrity for the entire life of the ambulance. The aluminum extrusions shall be custom designed structural shapes that are an alloy of 6061 and heated to a temper of T6 hardness.
4. The aluminum shapes shall be designed with a force fit interlocking system that shall eliminate any vibration to the welded structural members. The interior structural members, sides and roof shall be spaced a minimum of 14 inches on center. The floor structure shall be a minimum 14 inches on center. The floor, roof, and sides shall be of a cage-type construction that is built to form an independent structure.
5. The exterior walls shall be constructed of a minimum of .125 inch thick aluminum plate 3003 alloy with a heat treated plate that is stretch leveled to a tolerance of +/- 0.003 inches. The exterior walls shall interlock into place.
6. All exterior compartments shall be separate and individual components and no two compartments shall share a common wall.

Above section bid exactly as written: Yes ____ No ____

T. BODY TO CHASSIS MOUNTING

1. OEM 2" high "High Hat" laterals with 2" x 2" x 4" x 3/16" thick structural steel angle welded to each end are attached laterally to the chassis on Ford OEM rubber body mounting bushings.
2. The frame spacers are to be supported by outriggers made of 5" x 5" x 5" x 3/8" thick steel angles which are bolted to the outer side of the chassis frame rails with three (3) 1/2" Grade 5 bolts each. Additionally, steel surfaces that will come into contact with aluminum floor structure components are to be covered with PVC tape to prevent contact between the dissimilar metals.

3. The floor structure is to be bolted in place with not less than twelve 1/2" Grade 5 T-head bolts through holes in the 2" x 2" aluminum longitudinal floor framing members and steel angle brackets welded to the ends of steel lateral frame spacers. This design allows the body to be removed and remounted without disturbing the finish floor in the interior patient compartment.

Above section bid exactly as written: Yes ____ No ____

U. VEHICLE LOWER RUB RAIL

1. The lower rub rail shall be of a polished aluminum "C" channel that is 2" wide x 3" high. The "C" channel shall have a recessed section that will have reflective striping applied. The extruded rub rails shall be installed on lower sides of the modular body using stainless steel fasteners and rubber spacers between the rail and body.

2. Since "C" Channel is readily available to all manufacturers there shall not be an exception to this section. The safety in adding the reflective striping along with the ease or replacement is the preferred and acceptable method.

Above section bid exactly as written: Yes ____ No ____

V. ROOF RADIUS

1. The roof radius shall be an extruded aluminum shape with an alloy and temper of 6061-T6 with an ultimate strength of 42,000 PSI.

2. The shape shall be a four inch radius with a built-in inner structural connector to form a one piece side and roof structure.

3. The roof radius shall incorporate a built-in drip molding to aid in the channeling of water.

Above section bid exactly as written: Yes ____ No ____

W. ROOF CONSTRUCTION

1. The roof shall be constructed of 0.125" thick aluminum plate. The roof structure shall consist of 2" x 3" 6063-T5 aluminum tubing that shall span the full width of the body and have a bow effect to facilitate water runoff from the roof.
2. Roof structure that is less than 0.125" thick will not be accepted.
3. The roof tubes shall be welded to the roof and to the inner structural connector of the radius. The aluminum plate sheet roof shall be completely welded to the roof radii.

Above section bid exactly as written: Yes ___ No ___

X. CORNER RADIUS

1. The corner radius shall be of the same heavy duty construction as the roof radius, except there shall be a built-in drip molding. The corner radius shall be a three inch radius.
2. All corners shall be a semi-hollow shape for structural strength and shall give a smooth exterior appearance without the need for bending or forming sheet metal.

Above section bid exactly as written: Yes ___ No ___

Y. SIDE STRUCTURE

1. The sides shall be constructed with four corner radii. The radii shall be a three inch arc shape with interlocking edges on both sides. The extrusions shall be of an alloy of 6061 with a heat treated temper of T6.
2. The corner and roof shall be designed to work as a system that has a double gusset connector in each corner joint.
3. The roof, corner and sides shall be folded or welded and made seamless as permitted.
4. The sides shall be of a 'jig-locked' style construction. The jig shall hold the corners and body side panels in place while an inner 6063-T5 structure is welded into place. The members shall be located 14 inches on center and welded to the roof rail and inner structure connector that shall be the roof members.
5. The exterior aluminum panels .125" shall interlock with the roof, corner and specially designed extruded aluminum compartment door frames and shall be constructed of a 6063-T5 material. The door frame extrusion shall be designed to match fit the exterior compartment doors. The frame shall be a full ¼" thick to allow for taping for door hinges.
6. The door frame shall have an exterior trim edge that shall channel any water away from the compartment openings.

Above section bid exactly as written: Yes ____ No ____

Z. FLOOR STRUCTURE

1. The floor structure shall consist of 2" x 3" x 0.125" structural 6063-T5 aluminum tubing. The tubing shall be located on 12 inch centers.
2. These tubes shall extend the full width of the body between compartment boxes. The floor tubes shall be completely welded to the side structure channels.
3. An aluminum moisture shield, with a minimum thickness of 0.063", shall be provided above the floor tubes.
4. The entire underside of the modular body shall be sealed.

Above section bid exactly as written: Yes ____ No ____

AA. COMPARTMENT CONSTRUCTION

1. All exterior compartments shall be constructed of 0.125" smooth aluminum plate. All corners and seams shall be completely welded to prevent outside elements from entering the compartment.
2. Each compartment shall be finished with scorpion liner or comparable.
3. Additionally, large compartments shall be vented with a four inch aluminum vent.

Above section bid exactly as written: Yes ____ No ____

BB. DOOR CONSTRUCTION

1. All door edges and frames shall be constructed of a specially designed extruded aluminum shape of 6063-T5 alloy and temper. All door frames shall be welded to the exterior sheets and to the side structure channels.
2. The exterior sheets shall fit into the door frame and shall be welded to the frame from the inside of the door body. The door edges shall all be welded together and then welded to the outer panels.
3. Exterior door panels shall be 0.125" thick 5052-H32 aluminum plate with an ultimate strength of 38,000 PSI. The panel shall fit into the door edge extrusion and shall be welded to the extrusion from the inside of the door.
4. The entry door inner liner shall be constructed of 0.100". The liners shall be fastened to the door extrusions with stainless steel screws. Locking type washers shall be provided on each screw to minimize vibration back-out. The liner shall be removable for access to the latching mechanism. Inner door panels that are one piece will not be acceptable.

Above section bid exactly as written: Yes ____ No ____

CC. DRIP RAIL

1. Every compartment door opening shall have a built in integral drip rail. This method is preferred due to the, add on drip rails having to be re-glued or replaced

Above section bid exactly as written: Yes ____ No ____

DD. LOCKING PULL HANDLES LATCHES

1. There shall be provided locking grabber latches on each exterior door. The door handle shall be bolted into place to allow for easy repair or replacement if damaged. The latches shall be controlled with connecting rods. These should also be combination style locking type.
2. A remote momentary toggle switch with a rubber boot shall be provided to control the cab and module door locks. It shall be mounted on front of chassis end grille area.
3. NO CABLES SHALL BE NEEDED OR SUPPLIED.
4. The handles shall be chrome Eberhard "EASY GRABBER SERIES 2100" grabber with large, easy to use handles. Bidders offering other than these style door handles need to describe the alternate. These handles are available to all manufacturers.

Above section bid exactly as written: Yes ____ No ____

EE. STAINLESS STEEL DOOR HINGES

1. There shall be provided a stainless steel continuous hinge on each of the exterior doors. The hinges shall extend the full length of the door and shall contain a minimum 1/4" stainless steel pin.
2. All hinges shall be bolted to the door and door frame using 1/4" stainless steel bolts for easy removal if damaged. The hinge shall be separated from the door and frame by a Mylar strip which shall act as a corrosion barrier.

Above section bid exactly as written: Yes ____ No ____

FF. DOOR HOLD BACKS

1. There shall be provided a gas style hold openers on each exterior compartment and side entry door. The door opener shall be bolted to the door using factory hold brackets.

Above section bid exactly as written: Yes ____ No ____

GG. CAST DOOR GRABBERS

1. There shall be provided a four set of cast door grabbers installed on the rear entry doors. The cast grabbers shall consist of two parts: a loop and receiver.
2. The loop shall be installed on the lower portion of the rear entry door. The corresponding receiver shall be installed on the rear wall.
3. When the rear doors are opened, the door grabbers shall securely hold the doors open.

Above section bid exactly as written: Yes ____ No ____

HH. MODULE AND ENTRY DOOR INSULATION

1. There shall be provided a combination of fiberglass batt insulation, polystyrene plank foam insulation, and flexible foil faced bubble wrap insulation.
2. The module side walls, flooring, and ceiling shall be a combination of 2.5” thick batt fiberglass insulation and also silver flexible foil faced bubble wrap insulation. The insulation must meet ASTM E84 20/30 guidelines for flame and smoke.

Above section bid exactly as written: Yes ____ No ____

II. FLOOR INSULATION

1. The ambulance flooring system shall be insulated with 1-1/2” thick expanded Polystyrene plank foam insulation. The foam panels shall be cut to closely fit the spaces between the structural framing and shall be attached to the underside of the floor skin with a spray adhesive suitable for use on EPS insulation.
2. After the insulation is in place, an aluminum weather shield (.060” aluminum) cover is to be bonded to the entire bottom side of the floor framing to protect the insulation from road splash.
3. Addition Blue Block Foam will be applied to the module interior to extra insulation.
4. The doors shall incorporate minimum 1.5” thick high density rigid polystyrene foam insulation. NOTE: All insulation including batt, foil bubble wrap, and rigid polystyrene must be installed, but not covered for inspection at the midpoint inspection trip. NO EXCEPTIONS.

Above section bid exactly as written: Yes ____ No ____

JJ. FENDER FLARES

1. A polished aluminum fender flair shall be installed around the rear wheel well openings. They will be installed so as not to interfere with tire rotation, movement, or replacement. A layer of butyl self-sealing tape will be applied between the fender flares and the body panels for corrosion protection.

Above section bid exactly as written: Yes ____ No ____

KK. FUEL FILL BEZEL

1. The fuel tank fill will be protected by a cast aluminum fuel fill guard with polished flanges.

Above section bid exactly as written: Yes ____ No ____

LL. REAR BUMPER

1. The rear bumper sub-structure must be constructed from 1-1/2" x 3" steel channels and 10 gauge steel plate. The components must be fully welded and coated with automotive water based undercoating to prevent rust, and then bolted to the OEM frame rails.
2. Aluminum diamond plate bumper pods, approximately 23" wide x 11" deep x 4" high shall be constructed to fit over the outboard ends of the sub-structure and must be bolted in place using stainless steel fasteners.
3. The middle portion of the bumper assembly (approximately 48" wide) shall incorporate a fold up section of aluminum grip strut material. The hinge must be stainless steel and installed so that the step folds toward the body to facilitate stretcher loading.

Above section bid exactly as written: Yes ____ No ____

MM. MODULE UNDERCOATING

1. A non-flammable / non-combustible water based automotive undercoating shall be applied to the underside of the body.
2. Manufacturers must not undercoat the underside of the body until after final inspections, this will allow for inspection of the under body without the undercoating applied. If manufacturers undercoat prior to this inspection, it will be grounds for non-acceptance of the vehicle.

Above section bid exactly as written: Yes ___ No ___

NN. EXTERIOR COMPARTMENTS

1. COMPARTMENT 1

- a) *This compartment shall be located on the forward driver's side of the ambulance body. The compartment shall be 80" High x 22" Wide x 20" Deep. The compartment floor shall be of a 'sweep out' style.*
- b) *The compartment shall be designed to house an oxygen cylinder and shall contain an approved oxygen cylinder retention system. There shall be proved access to this compartment from within the patient compartment.*
- c) *The compartment shall have a single, vertically hinged door with a "scorpion" style interior surface and a LED strip compartment light that activates upon opening of the compartment door.*
- d) *In addition there shall be one Stair Chair Recessed Pocket in the forward area to accommodate the departments Stryker Stair Chair. (may be alternately located in Compartment #4.)*

Above section bid exactly as written: Yes ___ No ___

2. COMPARTMENT 2

- a) *The street side #2 exterior storage compartment just aft #1 shall be constructed using .090" smooth aluminum and shall be sized 40.25H x 35.00W x 19.25D. It will have an adjustable shelf and will house the vacuum pump and Kussmaul inverter. The floor of this compartment will be dished approximately 3" to increase vertical storage capabilities.*

Above section bid exactly as written: Yes ____ No ____

3. COMPARTMENT 3

a) This compartment shall be located after the rear wheel well. The street side-rear exterior storage compartment shall be constructed using .090" smooth aluminum and shall be sized 40.25H x 35.00W x 19.25D. The floor of this compartment will be dished approximately 3" to increase its vertical storage capabilities and will also have an adjustable shelf.

Above section bid exactly as written: Yes ____ No ____

4. COMPARTMENT 4

a) There shall be a compartment immediately after the curbside wheel well area. This compartment shall be fabricated of .090" smooth aluminum. This compartment shall be sized 81.50H x 20.75W x 22.00D. This compartment will house the backboards and stair chair (alternate). The floor of this compartment will be dished approximately 3".

Above section bid exactly as written: Yes ____ No ____

5. COMPARTMENT 5

a) This compartment shall be located on the forward passenger's side of the ambulance body. The compartment shall be 74" High x 22" Wide x Full Depth (ALS). The lower section of the ALS will be for locking drug box storage and will be accessible from the interior of the patient module only. This will be configured at later meeting.

Above section bid exactly as written: Yes ____ No ____

6. COMPARTMENT 6

a) *A storage compartment made of smooth aluminum shall be located on the curbside of the ambulance, forward of the side entry door. The floor of the compartment shall be sweep-out design and the door shall be right side hinged with a single Nader pin and rotary latch. The size shall be 16.75H x 22.00W x 19.50D. This will house batteries if needed.*

Above section bid exactly as written: Yes ___ No ___

OO. SIDE ENTRY DOOR

1. A side entry door to the patient compartment shall be provided, sized and located in first meeting. It shall have a full length stainless steel hinge, with pin not less than 1/4" in diameter, on the forward edge of the door and a stainless steel spring controlled door check which will hold the door at not less than 90 degrees when open. The curbside entry stepwell shall be a double step due to the drop skirt making the initial step lower and therefore not ergonomic for entry into the vehicle. The steps shall be approximately equal in rise and run.

Above section bid exactly as written: Yes ___ No ___

PP. REAR ENTRY DOORS

1. Double leaf rear entry doors to the patient compartment shall be provided, sized and located in first meeting. They shall have full length stainless steel hinges with pins not less than 1/4" in diameter.
2. One pair of Cast Products "Grabber" door hold open devices shall be installed on the exterior of the doors to hold them open when necessary. The devices shall be located on the approximate horizontal centerline of each door. The rubber insert into the "female" side of the hold open device shall be replaceable.

Above section bid exactly as written: Yes ___ No ___

QQ. ENTRY DOOR GRAB BARS

1. A 1.25" diameter stainless steel grab bar with 120 degree "V"-style bend shall be provided and installed on the inside of each entry door.

Above section bid exactly as written: Yes ____ No ____

RR. ENTRY DOOR FINISHES and COMPONENTS

1. ENTRY DOOR UPPER LINERS

a) Above the kick plate, the entry doors shall be finished using vinyl wrapped and 1/8" aluminum panel. The vinyl shall match the seating color selection and the padding shall be approximately 1/4" thick. The upper liner shall be secured to the inside of the entry doors using stainless steel screws. Locking type washers shall be provided to prevent back-out due to vibration.

Above section bid exactly as written: Yes ____ No ____

2. CENTER DOOR LINER

a) An aluminum plate covered in matching formica shall be utilized and attached to each entry door. The cover shall be secured to the inside of the center of each entry door with stainless steel screws and a "J" channel slot so that it allows easy removal to access the door latching mechanism. Locking type washers shall be provided to prevent back-out due to vibration.

Above section bid exactly as written: Yes ____ No ____

3. ENTRY DOOR KICK PLATES

a) A piece of .063" smooth aluminum plate will be installed on the lower inside portion of each door to serve as a kick panel and attached with stainless steel screws. These shall also have reflective striping.

Above section bid exactly as written: Yes ____ No ____

4. SIDE ENTRY DOOR WINDOW

a) *A 19" x 18" black aluminum framed window is to be centered in the entry door, with the top of the window about 6" down from the top of the door. The dark tinted window shall be capable of opening via a sliding section of the glass. The sliding section must be positively latched when in the closed position to prevent it from being opened from the outside. It must also include a sliding screen section to cover the opening.*

Above section bid exactly as written: Yes ___ No ___

5. REAR ENTRY DOOR WINDOW

a) *Two 9" wide x 18" high black aluminum framed windows are to be centered in the entry door. The window shall be single piece fixed glass.*

Above section bid exactly as written: Yes ___ No ___

SS. INTERIOR CABINETRY

1. CONSTRUCTION REQUIREMENTS

a) *In general, the interior of this ambulance shall incorporate features to mitigate injuries to passengers caused by sudden hard braking or accident impact. Exposed edges shall be protected by radius or chamfer trim and, where possible, corners shall be rounded with radius trim. All devices and equipment will be mounted as flush as possible with its surrounding surface. Padding shall be installed in areas where features may obstruct head movement as attendants work within the patient compartment.*

b) *The layout of interior cabinetry for this ambulance shall be as indicated in prebuild meeting. As stated earlier in this document, the bidder must supply drawings which will be considered when determining whether a particular design meets those needs.*

c) *The cabinets in this vehicle shall be constructed and placed with the industry standard. Locations will be determined at prebuild meeting. There shall be 1 CPR seat located on street side of body and have storage underneath.*

Above section bid exactly as written: Yes ___ No ___

2. CABINET DOORS

a) All cabinets along the street and curb side of the vehicle shall have a mitered framed, sliding transparent Plexiglas door assembly. Each door shall be fitted with a full length, extruded aluminum door handle. The door pull extrusion shall also add bend resistance to the door. The door track/frame extrusion shall incorporate a rubber track to prevent the door from sliding free during transit. Additionally the corners of the assembly shall have supporting corner angle. All extrusions shall be anodized and color shall be clear.

Above section bid exactly as written: Yes ____ No ____

3. CABINET RESTOCKING FEATURES

a) The streetside and curbside upper cabinets shall have gas filled restocking features installed to allow the cabinets to be opened in the upright position for ease of loading supplies.

Above section bid exactly as written: Yes ____ No ____

4. INTERIOR SHELVING

a) All shelving in the interior module shall be aluminum and painted white with a black rubber edge. The shelving shall have adjustable struts that are bolted in and not screwed. No wood is desired or will be acceptable. NO EXCEPTIONS.

Above section bid exactly as written: Yes ____ No ____

TT. GRAB BAR ABOVE COT

1. One 1.25" diameter x 72" long stainless steel yellow grab bar shall be provided and installed on the ceiling above the primary cot. The grab bar will include one welded intermediate stanchion and all fastening points shall fall on roof tubes or backer plates for added strength and support.

Above section bid exactly as written: Yes ____ No ____

UU. PADDED TRIM

1. To mitigate injury to passengers, trim pieces consisting of PVC covered with 1/4" high density foam and wrapped with heavy duty vinyl to match seating upholstery will be installed:

- a) At the vertical outside corner of the cabinet forward of the attendant seat.*
- b) At the upper horizontal and vertical corners above the action area*
- c) Above the side entry door.*
- d) Above the rear entry doors*
- e) On the bottom of the bench side cabinet.*
- f) Any other place that presents a hazard to the occupants.*

Above section bid exactly as written: Yes ____ No ____

VV. FLOOR COVERING

1. There shall be provided a heavy duty commercial grade vinyl floor covering the interior patient compartment. The floor covering shall be Lonseal II heavy-duty safety vinyl. The floor covering shall be constructed of multiple layers composed of polyvinyl chloride (PVC) resin, plasticizers, fillers and pigments. The floor shall be heavy duty insulated and sound proofing. The flooring shall extend the full length and width of the patient compartment consisting of a minimum of 3/4 inch plywood, seven ply exterior grade. The flooring shall be covered with a no wax commercial heavy duty vinyl covering diamond shape Lon plate or similar product (Gunpowder Gray #424TX). The framing system and framing welding techniques shall be in accordance with manufacturer's specifications. Aluminum sub floor shall be 1/8 inch between the frame and plywood floor shall be installed. The vinyl flooring is to be extended up the sidewall a minimum of three inches (3").
2. Flooring shall meet or exceed all ASTM and / or NFPA Standards as pertains to friction, flame spread, smoke density, abrasion resistance, flexibility and chemical resistance.
3. The sub flooring shall be made of 3/4" marine grade plywood.

Above section bid exactly as written: Yes ____ No ____

WW. CEILING HEADLINER

1. The ceiling will be finished with 1/8" Luan backed glossy white commercial grade plastic laminate panels. Any seams shall be trimmed to prevent sagging and provide a clean attractive appearance. The ceiling panel shall be mechanically attached to the roof structure but all fasteners shall be hidden.
2. Headliners with padded vinyl or un-backed fiberglass, masonite or pressboard materials will not be acceptable due to their potential for contamination, tears, cracking and spalling, thus involving costly repairs.
3. Along the longitudinal center of the ceiling, a padded cover shall be installed to close-off the electrical wiring chase. It must be covered with vinyl to match the upholstery.

Above section bid exactly as written: Yes ____ No ____

XX. CABINET LAMINATE COLOR

1. The laminate color for the outside finish of all cabinets shall be white. The laminate color for the inside finish of the cabinetry shall be white.
2. Exact color shall be determined at the pre-build conference.

Above section bid exactly as written: Yes ____ No ____

YY. ACTION AREA (Driver and Passenger Side Split)

1. This area shall have inside / outside access to the on board medical oxygen cylinder.
2. This area shall have a countertop equivalent to stainless steel.
3. *The area for the switch panel shall be located on the forward passenger side of the module just inside the side module door. The area shall contain a switch panel that controls the lighting, AC/Heat, exhaust fan and other specified equipment. With the switch panel being located on the attendant side of the module it allows the paramedic to stayed seated while using the switches on the passenger side wall.
4. The action area shall also contain connections for a suction device, oxygen regulators and electrical connections. There shall be provided a LED under counter light located underneath the overhead cabinets. There shall also be provided access to compartment through a window covered with a hinged Plexiglas door.
5. The action area shall have a counter top that provides the maximum sized work area possible.

Above section bid exactly as written: Yes ____ No ____

ZZ. OXYGEN VIEWING PORT

1. There shall be a contoured Plexiglas viewing door on the forward section of the Action Area allowing access to the main oxygen storage cylinder. The door shall wrap around the corner of the wall and have a hinge.

Above section bid exactly as written: Yes ____ No ____

AAA. OFFICER'S SEAT

1. Rear facing automotive style attendant's seat with at least a three point harness featuring seamless vinyl design shall be provided and installed adjacent to the Action Area. This seat shall be of a type that has integrated child safety seating and hardware installed behind the fold down cushion. Color to match interior vinyl.

Above section bid exactly as written: Yes ____ No ____

BBB. ALS CABINET

1. This cabinet is located in the front of the module on the passenger side to the right of the outside door. The cabinet shall have four doors with Plexiglas inserts in the upper doors only.
2. Additionally, the upper section shall be accessible from outside. The exact layout shall be determined at the pre-build meeting. The cabinet shall be approximately 50" Tall x 30" Wide x 24" Deep.

Above section bid exactly as written: Yes ____ No ____

CCC. GLOVE BOX CABINET (Optional)

1. A cabinet shall be built and installed above the side entry door to house four boxes of protective gloves. The cabinet shall have a single, clear Plexiglas door with three oval cutouts to allow gloves to be removed without opening the door. The cabinet door is to be secured as such to prevent opening when gloves are removed through cutouts.
2. The bottom edge of the glove box shall be covered by padded vinyl trim to protect occupants.

Above section bid exactly as written: Yes ____ No ____

DDD. SQUAD BENCH AREA (ALS action shelving)

1. The squad bench area is located on the passenger side of the module. It shall have 1 movable and pivoting chair with standard harness. There shall be locking switch for all doors to secure the occupants inside.
2. The front end of this area will have an ALS action cabinet with numerous drawers to incorporate the heart monitor secured, IV supplies, pharmaceutical agents, sharps and garbage.
3. Design and specs to be determined at prebuild meeting.

Above section bid exactly as written: Yes ____ No ____

EEE. SHARPS DISPOSAL (Inside ALS action area)

1. A sharps drop shall be provided in a drawer at front end of attendant seat in ALS cabinet. A vinyl biohazard sticker shall be applied to the drawer in accordance with OSHA regulations.

Above section bid exactly as written: Yes ____ No ____

FFF. TRASH DISPOSAL (Inside ALS action area)

1. A trash drop shall be provided in a drawer at front end of attendant seat in ALS cabinet. A vinyl biohazard sticker shall be applied to the drawer in accordance with OSHA regulations.

Above section bid exactly as written: Yes ____ No ____

GGG. COT FASTENER SYSTEM

1. A Stryker Performance-LOAD system shall be provided.
2. Special Instructions: Distance from the back door to the end of the stretcher shall be determined during pre-build meeting.

Above section bid exactly as written: Yes ____ No ____

HHH. IV HOLDER

1. There shall be provided four each Cast folding IV hangers, swing down type IV holders for two IV bags. The IV hangers shall be mounted in a location to be determined at the pre-build conference.

Above section bid exactly as written: Yes ____ No ____

III. 12 VOLT DC ELECTRICAL SYSTEM

1. The electrical system and associated equipment shall comply with all Federal Motor Vehicle Safety Standards, Federal Motor Carrier Safety Regulations, and shall also conform to all applicable SAE recommended standards and practices.
2. The apparatus body and accessory electrical equipment shall be served by circuits separate and distinct from the chassis circuits. All wiring shall be permanently color coded and marked to identify each wire for its entire length.
3. Wiring shall be routed in conduit or loom that is rated to a minimum of 300° Fahrenheit and shall include a service loop of wire that will permit replacement of wire terminals. All conduits, looms and wiring harnesses shall be securely fastened to the body or frame with insulated metal cable straps.
4. All electrical system components and wiring shall be located and installed in such a manner that facilitates easy removal and servicing.

Above section bid exactly as written: Yes ____ No ____

JJJ. MODULE POWER DISCONNECT SWITCH

1. a. An "On/Off" style master module disconnect switch shall be installed on the main cab console. The switch must be capable of carrying the load of both OEM batteries when in the "On" position, as well as completely disconnecting both batteries when in the "Off" position. This switch shall NOT disconnect battery power to the chassis circuits, but to the module, or converter added circuits only. The switch shall be recessed as to not interfere with anything. Switches that have multi-position settings allowing power from either battery independent of the other will be unacceptable. When left on there should be audible alarm with a red light.

Above section bid exactly as written: Yes ____ No ____

KKK. 12 VOLT OUTLETS

1. Two 12VDC power socket outlets shall be provided and will be configured at prebuild meeting.

Above section bid exactly as written: Yes ____ No ____

LLL. SIRENS & SPEAKERS (Whelen or Code 3)

1. Whelen model #295HFSA7 siren shall be installed in the console located in the cab. It shall be wired so that it will operate when the ignition switch is "On". The siren shall be capable of powering two 100 watt speakers. There will also be a console toggle switch that activates the siren/horn over ride so the audible signal can be changed on the steering wheel horn.
2. Whelen Howler with speaker installed in front of chassis.
3. One pair of Whelen siren speakers shall be installed in the front bumper outer edges. Each speaker shall be rated for not less than 100 watts.

Above section bid exactly as written: Yes ____ No ____

MMM. EMERGENCY LIGHTING (Whelen or Code 3)

1. There shall be provided a complete LED emergency lighting system. This lighting system shall equivalent to the following minimum:

a) *Front: Six Whelen M9 series L.E.D. flashing lights shall be provided and installed on the upper front wall of the ambulance body, below the drip rail. The LED color (from passenger side to driver's side) will be: Red / Red-Clear / Red / Spot/Flood\ Red \ Red-Clear \ Red.*

b) *Intersection: Two Whelen M7 series Super L.E.D. warning lights shall be installed, one on each chassis fender with Clear Lens. The LED colors (from passenger side to driver's side) will be: Red / Clear*

c) *Chassis grille: Two Whelen M4 series L.E.D. lights shall be mounted in, or near, the chassis grille in Cast Products aluminum bezels with clear lens. The LED colors (from passenger side to driver's side) will be: Red / Clear*

d) *Rear: Seven Whelen M9 series Super L.E.D. lights shall be provided and installed on the Rear wall of the ambulance body, three below the drip rail. Led Color Red-Amber-Red, Two Red/Amber Split each side of rear doors*

e) *Side of module: Four Whelen M9 series LED flashing lights shall be provided and installed on the upper curbside and street side wall of the ambulance body, below the drip rail.*

f) *All clearance and marker lighting will be in accordance with FMVSS requirements.*

g) *Each flange shall be fabricated of polished aluminum and shall have a fifteen-degree forward tilt design.*

h) *One Whelen AFM1660 flasher installed.*

i) *In addition to the above specified warning lights, an Opticom traffic light preemption warning light system shall be installed on the front wall of the ambulance module as indicated in the attached prints. The system shall include a strobe light emitter with chrome plated housing and a remote preemption power supply. The system will be wired to a switch in the cab console labeled: OPTICOM*

Above section bid exactly as written: Yes ____ No ____

NNN. SCENE LIGHTS (Whelen or Code 3)

1. There shall be provided seven Whelen Pioneer Surface Mount Dual LED Spot/ Flood light. The lights shall be located each side and rear of the ambulance. There shall also be one Whelen Pioneer Surface Mount Dual LED Spot/ Flood on front of Module.
2. The right side scene lights shall activate upon opening of the curb side door. The rear scene lights shall activate by opening the rear door or upon putting the vehicle in reverse. The street side and curbside scene lights of the ambulance shall be wired to operate in conjunction with the opening of the respective side compartment doors.
3. Each flange shall be fabricated of polished aluminum and shall have a fifteen-degree forward tilt design.

Above section bid exactly as written: Yes ____ No ____

OOO. DRIVERS CONTROL CONSOLE

1. There shall be provided a Jotto style control console.
2. All corners of the drivers control console shall be free of sharp edges and the console shall be fastened to the cab floor in such a manner as to allow for quick and easy removal for access to components below.
3. In addition the console shall house other on board meters such as voltmeters, amp meter as well as the electronic sirens and the subsequent mounting of agencies mobile radios.
4. Unit shall be equipped with a custom console for radios, siren, glove box holders, drink holders, and clip board holders, etc.
5. A 12 volt power socket outlet shall be provided on the passenger side to accommodate GPS technology without utilizing the chassis provided socket.
6. There shall be a drawing provided for customer approval before construction.

Above section bid exactly as written: Yes ____ No ____

7. There shall be provided a custom control panel fabricated from aluminum and mounted in the center console area. All switches shall be rocker style and shall contain switches for the following applications:

- a) *Master Switch*
- b) *Emergency Lights Switch(s)*
- c) *Scene Light Switch(s)*
- d) *Door Open Indicator*
- e) *Compartment Open Indicator*
- f) *Module Disconnect Switch*
- g) *Other Indicators and/or Switches as Necessary*
- h) *All switches shall be lighted and properly identified.*
- i) *All switches shall have their orientation as to the off position to the rear or down.*

Above section bid exactly as written: Yes ____ No ____

PPP. REAR BRAKE, BACK UP AND TURN SIGNAL LIGHTS

- 1. There shall be provided a set of Whelen 600 series LED Red tail lights on the rear lower riser of the ambulance body.
- 2. There shall be provided a set of Whelen 600 series LED back-up lights on the rear lower riser of the ambulance body.
- 3. All tail lights shall come complete with chrome bezels. NO EXCEPTIONS

Above section bid exactly as written: Yes ____ No ____

QQQ. LICENSE PLATE HOLDER

- 1. A cast aluminum license plate bracket with polished flanges shall be recessed into the rear riser. It shall be provided with two LED license plate lights.

Above section bid exactly as written: Yes ____ No ____

RRR. BACK UP ALARM

1. An audible alarm shall be installed to activate when the vehicle is placed into reverse gear. There shall be installed on the front console and wired through the vehicle electrical system, a momentary cutoff switch to disable the alarm. The switch shall automatically reset each time the vehicle is placed into reverse gear.

Above section bid exactly as written: _____

SSS. PATIENT COMPARTMENT LIGHTS

1. INTERIOR DOME LIGHTING
 - a) *General lighting for the patient compartment shall be as follows: Eight overhead L.E.D. dome lights shall be mounted, four over the squad bench side and four over the primary cot side. These lights must be recessed into the ceiling headliner, protruding not more than 1 1/2".*
 - b) *These lights are to be controlled by switches in the attendant's switch console. Additionally, all eight shall automatically light on their "low" setting when either the side or rear entry doors are opened.*
 - c) *Any lighting system using a rheostat to control lamp intensity is NOT acceptable to this agency.*
 - d) *Three 12 volt florescent type lights are to be installed adjacent to the LED ceiling lights as space allows. These are to be controlled by a separate switch in the action area panel.*

Above section bid exactly as written: Yes ____ No ____

TTT. STEPWELL LIGHT

1. There shall be provided an LED step well light located at the curbside entry interior door step well.

Above section bid exactly as written: Yes ____ No ____

UUU. CHECKOUT TIMER SWITCH

1. A 60 minute spring wound mechanical timer(s) shall be provided and installed to control the squad bench side LED lights specified above. The timer shall be installed in the curbside wall adjacent to the side entry door.

Above section bid exactly as written: Yes ____ No ____

VVV. ACTION AREA LIGHT

1. There shall be provided a 12 inch fluorescent light mounted above the work surface, underneath the overhead cabinets.
2. The action area light shall be controlled by a switch located in the switch panel.

Above section bid exactly as written: Yes ____ No ____

WWW. COMPARTMENT LIGHTS

1. There shall be provided LED strip lights in each exterior compartment that activates upon opening of the compartment doors.

Above section bid exactly as written: Yes ____ No ____

XXX. RADIO PRE-WIRE

1. There shall be provided two 12 volt lead for the future installation of a department supplied radio.
2. Additionally there shall be provided a 25 amp power supply for department add on equipment.
3. Exact layout and location of radio pre wire shall be determined during pre-construction meeting.

Above section bid exactly as written: Yes ____ No ____

YYY. RADIO CONDUIT

1. A three inch conduit will be supplied and run in a location to be determined at the prebuild meeting.

Above section bid exactly as written: Yes ____ No ____

ZZZ. ANTENNA COAX PRE-WIRE

1. There shall be supplied a minimum of two each coax pre-wires (RG-58 Shielded Coax) that shall run from an antenna on the cab roof and from the box roof. They terminate at radio location.
2. Exact layout and location of antenna pre-wires shall be determined during prebuild meeting.

Above section bid exactly as written: Yes ____ No ____

AAAA. HEATING / AIR CONDITIONING DUCTED SYSTEM

1. Heating and air conditioning for the patient compartment will be provided by a combination heat/ac unit.
2. The heater portion will have a BTUH capacity of 35,000, the air conditioner will have a BTUH capacity of 32,000. A three-speed blower fan capable of 650 CFM on the highest setting will be included. These are the minimum requirements.

3. To reduce the potential for condensate leakage, dual 3/8" ID drain hoses shall be installed on the AC drain pan. The drain hoses shall terminate below and outside the ambulance body.
4. The combo system shall be provided with an electrically controlled water shutoff valve which shall close to stop the flow of hot water to the heater whenever the air conditioning is operating.
5. The combo heat/air conditioning unit shall be installed and shall be ducted along the centerline of the patient compartment ceiling, on either side of the center wiring chase. An insulated collector box shall be mounted directly to the heat/AC unit with a total of eight separate outputs. Each output shall be connected to a 2" diameter plastic flexible duct run installed above the ceiling, and be connected to a single heat/AC vent mounted in the ceiling headliner. A total of eight of these round low-profile adjustable vents shall be installed in the ceiling as indicated in the attached drawings. Each vent shall swivel 360 degrees to direct air flow as needed, and each shall have the ability to close and restrict the air flow from that vent up to 90% of capacity. The system shall be capable of providing in excess of 80 percent of the total air flow capability of the blower fan.
6. It is important that this feature be installed entirely above the ceiling level, except for the low profile vents, so that headroom height is not affected. Designs that require the ductwork be installed in only one side of the patient compartment or below the ceiling level are not desired by this agency.

Above section bid exactly as written: Yes ___ No ___

BBBB. THERMOSTAT

1. A hose-line digital low voltage heating and air conditioning thermostat shall be provided to control the specified environmental systems. The thermostat shall be installed in the action area as indicated in the attached prints.
2. The AC/HEAT System shall be certified to meet the KKK guidelines.

Above section bid exactly as written: Yes ___ No ___

CCCC. EXHAUST FAN

- 1. The patient compartment of this ambulance will be ventilated with fresh outside air via one static intake vent and one power exhaust vent. The system shall be capable of completely exchanging the air volume within the patient compartment every two minutes. The location of the intake and exhaust vents shall be as indicated in the attached drawings.

Above section bid exactly as written: Yes ___ No ___

DDDD. OXYGEN SYSTEM

- 1. This ambulance shall incorporate an on-board piped medical oxygen system in accordance with the guidelines put forth in KKK-A-1822, as currently amended.
- 2. The system shall consist of a supply cylinder (when indicated below), low pressure, electrically conductive (green) hose approved for medical oxygen, and self-sealing oxygen outlets as indicated below. Industrial or welding oxygen hose is not acceptable. Medical certified hose and components must be utilized throughout.
- 3. The oxygen system shall be piped to Ohio-type oxygen outlets located in the following areas:
 - a) *I. There shall be two "Ohio" style type wall outlets (oxygen) in the action area and one "Ohio" style type wall outlet (oxygen) located at curbside wall above squad bench located at the head. There shall be one "Ohio" style type wall outlet (oxygen) located above the head of the stretcher in the ceiling.*

Above section bid exactly as written: Yes ___ No ___

EEEE. SPECIAL CABINET PORTABLE OXYGEN STORAGE

- 1. There shall be a cabinet constructed below the pass thru window in the bulkhead floor area to accommodate two "D" Cylinders with regulator installed. The cabinet shall be designed so that it does not allow the cylinders to rattle. The cabinet shall be enclosed with a door that can be secured.

Above section bid exactly as written: Yes ___ No ___

FFFF. OXYGEN REGULATOR

1. One main oxygen tank regulator for large “H” and “M” oxygen cylinders with outlet pressure of 40-60 psi shall be provided.
2. The entire system shall be tested after installation. Testing shall include a minimum four hour nitrogen leak test.
3. Additionally there shall be provided an oxygen wrench on tethered line mounted in the oxygen bottle compartment.

Above section bid exactly as written: Yes ____ No ____

GGGG. MAIN OXYGEN CYLINDER BRACKET

1. There shall be a Universal Zico Cylinder Bracket QRM-V O2 bottle mount to allow the department to utilize both “M” cylinder and “H” Cylinder bottles. There will be stainless steel straps.

Above section bid exactly as written: Yes ____ No ____

HHHH. SUCTION SYSTEM

1. ASPIRATOR
 - a) *A RICO RS4X disposable aspirator will be installed in the action area and connected to the vacuum inlet by a quick connect coupler. A semi rigid pharyngeal suction tip and 10 feet of clear plastic tubing will be included.*
 - b) *The system shall be located in the Action Area. Additionally, the system shall be connected to the 12 volt electrical system and be controlled by a switch in the Action Area.*

Above section bid exactly as written: Yes ____ No ____

III. VACUUM PUMP

1. A Gast electric vacuum pump shall be installed in the streetside #2 compartment. This pump will be activated by a switch in the attendant's switch console. It will be protected from damage by shifting equipment by means of a fabricated expanded aluminum mesh guard.

Above section bid exactly as written: Yes ___ No ___

IIII. VACUUM OUTLET

1. One Ohio style quick disconnect vacuum outlet shall be provided and installed in the Action Area.

Above section bid exactly as written: Yes ___ No ___

KKKK. 110 VOLT AC WIRING AND COMPONENTS

1. This vehicle shall be furnished with a two wire plus ground 110 volt AC wiring system completely separate from its 12 volt DC system. It must comply with Article 551 of the National Electrical Code and is to be used for powering maintenance devices, battery chargers, etc. while on standby.
2. The 110 volt system must include two 15 amp GFI circuit breakers mounted in a circuit breaker box located in the electrical cabinet. One breaker shall control and protect the 110 volt outlets located in the patient compartment. The second breaker will control the OEM engine block heater connection and can be used as a "summer switch" to turn off the engine block heater when operation is not desired. Systems that require unplugging the block heater are not acceptable. These circuits shall be powered from the shoreline inlet included in this specification.

Above section bid exactly as written: Yes ___ No ___

LLLL. SHORE POWER

1. A Kussmaul "Auto Eject" system inlet, or "shoreline inlet", shall be installed. It must contain a male inlet connection rated and labeled for 20 amps, be suitable for wet conditions, and be protected by a yellow spring loaded plastic cover. A properly sized female mating plug must also be provided for connection to this agency's wiring.
2. To protect this device from arcing during connection or disconnection, a time delay and interrupter device shall be installed.

Above section bid exactly as written: Yes ____ No ____

MMMM. INVERTER PRE-WIRE

1. Wiring will be furnished and installed for an inverter in compartment #2.

Above section bid exactly as written: Yes ____ No ____

NNNN. INVERTER / BATTERY CHARGER

1. A Vanner brand 1050 watt inverter with a 55 amp battery charger and internal transfer switch shall be provided and connected to wiring provided in compartment #2. It shall be UL listed, KKK certified and wired to power the interior 110 volt receptacles.

Above section bid exactly as written: Yes ____ No ____

0000. 110 VOLT RECEPTACLES HOSPITAL GRADE

1. Four hospital grade 110 volt AC duplex receptacles with green internal pilot lights and stainless steel face plates shall be installed in the patient compartment as follows: one in the action area; one in the curbside front inside/outside upper (ALS) cabinet; one on the streetside wall in the monitor/defibrillator shelf area, and one on the curbside wall adjacent to the bench and curbside entry door.
2. All 110V AC duplex wall outlets shall be GFI protected with energized indicator light and wired to shoreline.

Above section bid exactly as written: Yes ____ No ____

PPPP.PATIENT COMPARTMENT CLOCK

1. One 12 volt Intellitec "Emergency Time Manager" digital clock shall be provided in the action area. It shall feature a digital display of time (hours: minutes), a sweep second hand, elapsed time counter (hours: minutes), preset alarm intervals at one minute, two minutes, five minutes and ten minutes and shall have approximate dimensions of 4.75" high x 6.75" wide x 1" deep. 12 volt power to this clock shall be constant.

Above section bid exactly as written: Yes ____ No ____

QQQQ. AMBULANCE BODY AND CHASSIS PAINTING

1. Prior to applying the first coat of primer, all removable hardware items such as doors, handles, hinges, grab rails, lights, etc. shall be removed.
2. The entire body shall be fully ground smooth and sanded to eliminate any visible welded deflections.
3. The entire module shall be degreased. Degreaser shall be applied to manufacturer’s recommendations. Body to be inspected for flaws and imperfections and to assure built to ordered specifications. All surfaces shall be sanded with 150 grit paper and all imperfections repaired. The priming and final coat of paint shall conform to the paint manufacturer’s guidelines. Paint shall be PPG urethane.
4. The doors and ambulance body shall be painted separately.
5. The main body color shall be oxford white (Ford YZ). The paint finish shall be laid onto the body in a flat, orange peel free, minor like shine on all four sides.
6. Roof color to match main body paint. There will be no unpainted surfaces on the roof. NO EXCEPTIONS.
7. Exact paint codes shall be determined during the prebuild meeting.

Above section bid exactly as written: Yes ____ No ____

RRRR. PAINT SCHEME AND LETTERING

1. Paint Stripe and Lettering to be determined at the prebuild meeting. Bidder must provide pricing and it will be the responsibility of each bidder to insure that their bid contains the correct information.

Above section bid exactly as written: Yes ____ No ____

SSSS. AMBULANCE MARKING PACKAGE

1. The vehicle shall be supplied with lettering and Star of Life symbol decal package as described in Federal Specifications KKK-A-1822D 3.16.4. The “ambulance marking package” is to be installed per department required locations.
2. Decals: Install 32” Star of Life decal on Module Roof.

Above section bid exactly as written: Yes ____ No ____

TTTT. FIRE EXTINGUISHER

1. There shall be one Five pound (5#) A-B-C type fire extinguisher provided and shipped loose with the vehicle on delivery.

Above section bid exactly as written: Yes ____ No ____