

## ALEXANDRIA FIRE DISTRICT

### REQUEST FOR BID ON AN EMERGENCY MEDICAL TRANSPORT UNIT

Sealed bids are required from reputable companies who BUILD/SELL Emergency Medical Transport Unit.

#### 1. INTENT OF SPECIFICATIONS

It shall be the intent of these specifications to cover the furnishing and delivery of a complete EMTU. These detailed specifications cover the requirements as to the type of construction, finish, equipment and tests to which the EMTU shall conform. Minor details of construction and materials, which are not otherwise specified, are left to the discretion of the contractor.

Images and illustrative material in this specification are as accurate as known at the time of publication, but are subject to change without notice. Images and illustrative material is for reference only, and may include optional equipment and accessories and may not include all standard equipment.

#### 2. INSTRUCTIONS TO BIDDERS

The purchaser's standards for bidding automotive EMTU must be strictly adhered to, and all bid forms and questions must be complete and submitted with the bid. **Omissions and variations shall result in immediate rejection of the bid.**

Bids shall only be considered from companies that have an established reputation in the field of EMTU construction and have been in business for a minimum of 20 years. Furthermore, in order to insure fair, ethical, and legal competition, neither the original equipment manufacturer (O.E.M.) nor parent company of the O.E.M. shall have ever been fined or convicted of price fixing, bid rigging, or collusion in any domestic or international EMTU market (no exception).

If a bidder represents more than one EMTU company or brand of EMTU's, they must bid each company separately.

Each bidder shall furnish satisfactory evidence of their ability to construct the EMTU specified.

Any EMTU manufacturer or their parent company who has had a

performance bond called in the last 10 years, shall not be eligible to bid. Any bids from these manufactures shall be immediately rejected (no exception).

Each bid shall be accompanied by a set of manufacturer's set of specifications consisting of a detailed description of the EMTU, construction methods, and equipment proposed to which the EMTU furnished under contract shall conform. These specifications shall indicate size, type, model and make of all components parts and equipment, providing proof of compliance with each and every item in the departments advertised specifications. A letter only, even though written on company letterhead, shall not be sufficient. **An exception to this requirement shall not be acceptable.**

In accordance with the current edition of DOT Requirements and KKK regulations, along with any mandatory Commonwealth of Kentucky KBEMS regulations, the proposal shall specify whether the fire department or emergency medical transport unit dealership shall provide required loose equipment.

3. Each bid shall be in strict compliance with our specifications and shall be accompanied by a detailed drawing and description of the work to be performed. Bidder shall acknowledge receipt of all addendum with bid.

The purchaser will utilize this advertised specification to compare all submitted bid proposals. To facilitate comparison, all bid proposal specifications shall be submitted in the same sequence as the advertised specification. Any bidder who fails to submit a set of bid proposal specifications, or who photo copies and submits these specifications as their own construction details will be considered non responsive. This shall render such proposal ineligible for award.

The purchaser's specification shall, in all cases, govern the construction of the EMTU, unless a properly documented exception or deviation was approved. Any bid indicating that the manufacturer's proposal shall supersede the purchaser's specification will be considered a complete substitute and immediately rejected.

THE PURCHASER HAS THE RIGHT TO REJECT ANY BIDS WHICH DOES NOT MEET THESE SPECIFICATIONS AND IS THE SOLE DECIDER TO DEEM WHICH BID IS IN THE BEST INTEREST OF THE PURCHASER.

4. The Bidder shall specify on a separate sheet provided, any exceptions

to the bid.

### **EXPLANATION OF EXCEPTIONS**

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

### **EXCEPTIONS**

These specifications are based upon design and performance criteria which have been developed by the fire district as a result of extensive research and careful analysis. Subsequently these specifications reflect the only type of EMTU that is acceptable at this time and all specifications herein contained are considered as minimum. Therefore exceptions to the specifications may not be accepted.

Bidders shall indicate in the "yes/no" column if their bid complies on each item (paragraph) specified.

If a product brand name is specified and is commercially available to all bidders, an exception to such items is not acceptable and such bid may be rejected.

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. All deviations, no matter how slight, shall be clearly explained on a separate sheet, in the bid sequence, citing the page and paragraph number(s) of the specifications, how the proposal deviation is different, how the deviation meets or exceeds the specifications and why it is necessary, and entitled "EXCEPTIONS TO SPECIFICATIONS". The buyer reserves the right to require a bidder to provide proof in each case that a substituted item is equal to that specified. The buyer shall be the sole judge in determination of acceptable substitutes.

Proposals that are found to have deviations without listing them or bids taking total exceptions to these advertised specifications will be

rejected (no exception).

Bids not including all exceptions is a material breach and shall result in the bid being immediately rejected (no exception).

5. The Emergency Medical Transport Unit shall be assembled in its entirety within the continental United States. The Emergency Medical Transport Unit shall be of the latest production model and shall be equipped with all of the latest standard equipment and markings and all DOT required equipment including the items specified. The vehicle shall also comply with all KKK regulations and have all required KBEMS equipment along with any equipment as mandated by this bid.
6. Bids may not be withdrawn after the opening.
7. The names and locations of any sub-contractors the Bidder will use must be disclosed in the bid.
8. Time of completion must be submitted with the bid.
9. The successful Bidder will meet with the Chief of the Fire District and committee representatives of the Fire District prior to the commencement of construction for a final design approval of this Emergency Medical Transport Unit.
10. The Bidder at his expense will bring the Chief or his representative and two members of the Fire District to the factory for an inspection of the vehicle prior to painting, which is approximately the midway point in construction. The Bidder at his expense prior to delivery will bring the Chief or his representative and two members of the Fire District to the factory to inspect the vehicle after the vehicle has been painted and lettered. The purpose of these meetings is to inspect the vehicle and to specify where the Bidder will install specific equipment and various compartments prior to delivery and to ensure that the vehicle is being built in accordance with these specifications.
11. The Bidder must furnish with the bid satisfactory evidence of the Bidders ability to build said Emergency Medical Transport Unit and shall include the names of fire departments within 150 miles of Campbell County, Kentucky, where Emergency Medical Transport Unit have been sold within the last five (5) years. The Bidder will also supply information as to where similar units with similar cabs and chassis are being utilized within the continental United States with contact information including names, addresses and phone numbers of individuals within those departments.
12. The Bidder shall give individual cost for each numbered line item listed within this bid.

The Bidder will also on that document, where the specifications call for some type of unit, the Bidder will on that sheet of paper specify the make of the unit, the model of the unit and the cost of the unit being provided within the specifications. Where alternates are listed, the individual cost for each alternate shall be supplied. This information shall be supplied on the separate questionnaire sheets attached. The Fire District reserves the right after acceptance of a bid but prior to signing any contract to delete any specific line item in the bid so that the Fire District can stay within its budget.

13. The Emergency Medical Transport Unit shall be designed and constructed for use in the service intended with a minimum of maintenance.

#### 14. **GENERAL DESIGN AND CONSTRUCTION**

The cab, chassis and body are to be entirely designed, assembled and painted by the prime vehicle manufacturer, which minimizes third party involvement on engineering, design, service and warranty issues.

All bidders shall provide a list of the company, manufacturing location, and engineering source for each individual major component, including but not limited to the welded cab assembly, the pump house module assembly, the chassis assembly, body and electrical system. EMTU using any subcontracted cab, chassis, pump module, electrical system or body will not be acceptable.

The EMTU shall be designed with due consideration to distribution of load between the front and rear axles. Weight balance and distribution shall be in accordance with the recommendations of the National Fire Protection Association.

The bidder shall make accurate statements as to the EMTU weight and dimensions.

#### 15. **DELIVERY**

EMTU, to insure proper break in of all components while still under warranty, **shall be delivered under its own power** - rail or truck freight shall not be acceptable.

16. A qualified delivery engineer representing the manufacturer shall deliver the EMTU and remain in the community for sufficient time, at least three consecutive days, to instruct Fire District personnel in operation, care and maintenance of the equipment delivered. The training shall consist of a minimum of eight (8) hours per day for each of the three days the engineer is at the fire station and install all

equipment.

17. The Bidder, if his bid is accepted, shall defend any and all suits and assume liability for the use of patented device or article forming a part of the EMTU furnished under the contract.
18. The successful Bidder shall furnish a Commonwealth of Kentucky Certificate of Title and a Bill of Sale in the name of the Alexandria Fire District at no extra cost.
19. The Bidder shall be obligated if his bid is accepted to complete the work within the time that he has specified. In the event that the work is not completed within that time period there shall be a penalty. The penalty shall be one percent (1%) of the cost of the EMTU, per day. The penalty shall be deducted from the payment to the Bidder by the Fire District when the Vehicle is finally delivered and accepted. There shall also be a penalty in the same amount in the event that after delivery the vehicle is removed from service for repair that is covered by the warranty, during the first 90 days of service.
20. **PERFORMANCE BOND REQUESTED**

A performance bond shall be included. If requested at a later date, one shall be provided to you for an additional cost and the following shall apply:

Yes \_\_\_\_  
No \_\_\_\_

The successful bidder shall furnish a Performance Bond (Bond) equal to 100 percent of the total contract amount within 30 days of the notice of award. Such Bond shall be in a form acceptable to the Owner and issued by a surety company included within the Department of Treasury's Listing of Approved Sureties (Department Circular 570) with a minimum A.M. Best Financial Strength Rating of A and Size Category of XV. In the event of a bond issued by a surety of a lesser Size Category, a minimum Financial Strength rating of A+ is required.

Bidder and Bidder's surety agree that the Bond issued hereunder, whether expressly stated or not, also includes the surety's guarantee of the vehicle manufacturer's Bumper to Bumper warranty period included within this proposal. Owner agrees that the penal amount of this bond shall be simultaneously amended to 25 percent of the total contract amount upon satisfactory acceptance and delivery of the vehicle(s) included herein.

Notwithstanding anything contained within this contract to the contrary, the surety's liability for any warranties of any type shall not exceed three (3) years from the date of such satisfactory acceptance

and delivery, or the actual Bumper to Bumper warranty period, whichever is shorter.

21. In the event that there are any questions concerning these specifications the Bidder is directed to contact in writing to the Fire District Acting Fire Chief, Timothy Ford, [tford@afdky.org](mailto:tford@afdky.org) Alexandria Fire District, 7951 Alexandria Pike, Alexandria, Kentucky 41001. A copy of all correspondence will be submitted to the Fire District Attorney, Thomas A. Wietholter, at 600 Vine Street, Suite 2500, Cincinnati, Ohio 45202 or by email to [tawietholter@woodlamping.com](mailto:tawietholter@woodlamping.com).

22. Bidders shall make all investigations necessary to thoroughly inform themselves regarding the content of the written specifications, drawings, and instructions supplied herein. No Pleas of ignorance by the Bidder pertaining to the content of the specifications, drawings, scheduled, or instructions will be considered by the purchaser on the deadline, if bid submission has occurred. Failure or omission on the part of the Bidder to make the necessary examinations and investigations into the content of the specifications AND make all clarifications or explanations of exceptions and conditions that exist or that may exist hereafter shall NOT be accepted as a basis for making variations to the requirements of the purchaser or compensation to the Bidder. All drawings supplied with the bid shall be "D" sized drawings. Standard 8 1/2" x 11" drawings are not deemed sufficient. Proposals that do not include the drawings meeting the criteria set forth in the engineering support section will be considered nonresponsive and will, therefore, be rejected. Likewise, bids stating that drawings will be furnished at a later date will be rejected on the basis of noncompliance.

Yes \_\_\_\_  
No \_\_\_\_

The Bidder shall also be responsible for ensuring that the vehicle being bid will fit into the Fire District fire station 7951 Alexandria Pike, Alexandria, Kentucky 41001, where it is to be located without the need to modify the vehicle or the fire station so that the vehicle can easily ingress and egress the station, and the floor will hold the weight.

23. The intent of the specifications supplied herein is to purchase an Emergency Medical Transport Unit with the highest level of quality and engineering excellence. The intent of the vehicle is to function as an Emergency Medical Transport Unit as defined by the Commonwealth of Kentucky ambulance licensing body. The Emergency Medical Transport Unit must function geographically in the area surrounding the City of Alexandria and the Alexandria Fire District, including all of Campbell, Kenton, Pendleton and Boone counties in Kentucky.

Yes \_\_\_\_  
No \_\_\_\_

24. The purchaser makes no claim that potential issues or improvements

are included in the specifications supplied herein. The purchasers will consider any valid concern by any Bidder and will consider only minor specification exceptions or alternates of equal or better performance, provided that the exception is steered toward meeting the intent AND the exceptions are submitted with the final bid proposal on or before the bid deadline.

Yes \_\_\_\_  
No \_\_\_\_

25. On the right side of the specifications, the Bidder shall indicate whether the bid complies or does not comply with that section of the bid. This section must be filled out along with the questionnaire at the back of these specifications.

26. **QUALITY AND WORKMANSHIP**

All steel welding shall follow American welding Society D1.1-2004 recommendations for structural steel welding. All aluminum welding shall follow American welding Society and ANSI D1.2-2003 requirements for structural welding of aluminum. All sheet metal welding shall follow American Welding Society B2.1-2000 requirements for structural welding of sheet metal. Flux core arc welding to use alloy rods, type 7000, American welding Society standards A5.20-E70T1. Employees classified as welders are tested and certified to meet the American Welding Society codes upon hire and every three (3) years thereafter. The manufacturer shall be required to have an American welding Society certified welding inspector in plant during working hours to monitor weld quality or current standard at date of contract.

Yes \_\_\_\_  
No \_\_\_\_

The manufacturer shall also be certified to operate a Quality Management System under the requirements of ISO 9001. These standards sponsored by the International organization for Standardization (ISO) specify the quality systems that shall be established by the manufacturer for design, manufacture, installation and service. A copy of the certificate of compliance shall be included with the bid.

Yes \_\_\_\_  
No \_\_\_\_

27. **LIABILITY**

The successful bidder shall defend any and all suits and assume all liability for the use of any patented process including any device or article forming a part of the EMTU or any appliance furnished under the contract.

Yes \_\_\_\_  
No \_\_\_\_

28. **INSURANCE PROVIDED BY BIDDER:**



**COMMERCIAL GENERAL LIABILITY INSURANCE**

Yes \_\_\_  
No \_\_\_

The successful bidder shall, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of commercial general liability insurance:

Each Occurrence	\$1,000,000
Products/Completed Operations Aggregate	\$1,000,000
Personal and Advertising Injury	\$1,000,000
General Aggregate	\$2,000,000

Yes \_\_\_  
No \_\_\_

Coverage shall be written on a Commercial General Liability form. The policy shall be written on an occurrence form and shall include Contractual Liability coverage for bodily injury and property damage subject to the terms and conditions of the policy. The policy shall include Owner as an additional insured when required by written contract.

Yes \_\_\_  
No \_\_\_

**29. COMMERCIAL AUTOMOBILE LIABILITY INSURANCE**

Yes \_\_\_  
No \_\_\_

The successful bidder shall, during the performance of the contract, keep in force at least the following minimum limits of commercial automobile liability insurance and coverage shall be written on a Commercial Automobile liability form:

Each Accident Combined Single Limit: \$1,500,000

Yes \_\_\_  
No \_\_\_

**30. UMBRELLA/EXCESS LIABILITY INSURANCE**

Yes \_\_\_  
No \_\_\_

The successful bidder shall, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of umbrella liability insurance:

Aggregate:	\$3,000,000
Each Occurrence:	\$3,000,000

Yes \_\_\_  
No \_\_\_

The umbrella policy shall be written on an occurrence basis and at a minimum provide excess to the bidder's General Liability and

Automobile Liability policies.

The required limits can be provided by one (1) or more policies provided all other insurance requirements are met.

Yes \_\_\_  
No \_\_\_

Coverage shall be provided by a carrier(s) rated A- or better by A.M. Best.

All policies shall provide a 30-day notice of cancellation to the named insured. The Certificate of Insurance shall provide the following cancellation clause: Should any of the above described policies be cancelled before the expiration date thereof, notice shall be delivered in accordance with the policy provisions.

Yes \_\_\_  
No \_\_\_

Bidder agrees to furnish owner with a current Certificate of Insurance with the coverages listed above along with the bid. The certificate shall show the purchaser as certificate holder.

Yes \_\_\_  
No \_\_\_

**31. INSURANCE PROVIDED BY MANUFACTURER**

**32. PRODUCT LIABILITY INSURANCE**

Yes \_\_\_  
No \_\_\_

The manufacturer shall, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of Product Liability insurance:

Yes \_\_\_  
No \_\_\_

Each Occurrence:	\$1,000,000
Products/Completed Operations Aggregate	\$1,000,000

Yes \_\_\_  
No \_\_\_

Coverage shall be written on a Commercial General Liability form. The policy shall be written on an occurrence form. The manufacturer's policy shall include the owner as additional insured when required by written contract between the Owner and a Pierce authorized dealer.

Yes \_\_\_  
No \_\_\_

**33. UMBRELLA/EXCESS LIABILITY INSURANCE**

The manufacturer shall, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of umbrella liability insurance:

Yes \_\_\_  
No \_\_\_

Each Occurrence:	\$25,000,000
Aggregate:	\$25,000,000

Yes \_\_\_  
No \_\_\_

The umbrella policy shall be written on an occurrence basis and

provide excess to the manufacturer's General Liability/Products policies. Yes \_\_\_  
No \_\_\_

The required limits can be provided by one (1) or more policies provided all other insurance requirements are met. Yes \_\_\_

Coverage shall be provided by a carrier(s) rated A- or better by A.M. Best. No \_\_\_

All policies shall provide a 30-day notice of cancellation to the named insured. The Certificate of Insurance shall provide the following cancellation clause: Should any of the above described policies be cancelled before the expiration date thereof, notice shall be delivered in accordance with the policy provisions. Yes \_\_\_  
No \_\_\_

Manufacturer agrees to furnish owner with a current Certificate of Insurance with the coverages listed above along with the bid. The certificate shall show the purchaser as the certificate holder. Yes \_\_\_  
No \_\_\_

**34. SAFETY CERTIFICATION**

The verification of construction techniques used throughout the building process must be furnished by the manufacturer/Bidder. The installation method and construction techniques associated with seatbelt retention, cabin construction and installation, oxygen cylinder retention and module to chassis mounting system must be verified through a controlled Sled test that simulates an actual impact condition. This test must be performed, under both side and frontal impact conditions, to a minimum force of 30 G's. All tests must be performed by a testing agency that is independent of the manufacturer. Yes \_\_\_  
No \_\_\_

The Bidder must provide proof of this process having been performed. The Bidder must do this by supplying a statement from the testing facility showing the name of the facility, the address, the date of testing, the G forces used, the type of testing used and who can be contacted at that facility to verify that the testing was performed on the module type being bid by the Bidder to this Fire District. Yes \_\_\_  
No \_\_\_

The Bidder will supply the following information for the following specific areas:

35. Body to chassis mounting, date of test, force applied, name of the testing company and the individual signing off on the test results. Yes \_\_\_  
No \_\_\_

36. Access door latching, date of test, force applied, name of the testing company and the individual signing off on the test results. Yes \_\_\_  
No \_\_\_

Driver and all passengers seatbelt, date of test, force applied, name of the testing company and the individual signing off on the test results.

The Bidder will supply any and all other data showing all other testing that has been performed on the Quint or any components.

Yes \_\_\_  
No \_\_\_

The Fire District also desires to have the Certificate of the registered professional engineer provided who certified these tests and that the vehicle passed these tests. All tests listed above shall be done to a load of 30 G's and be a Dynaslide or impact testing run.

Yes \_\_\_  
No \_\_\_

**37. OXYGEN CYLINDER MOUNT MAINTAINED**

Date of test, for supplies, name of the testing company and the individual signing off on the test results.

Yes \_\_\_  
No \_\_\_

**38. OXYGEN CYLINDER MOUNT PORTABLE TEST FOR SUPPLY**

Name of the testing company and the individual signing off on the test results.

Yes \_\_\_  
No \_\_\_

**39. ATTENDANT SEAT MOUNT**

Date of test for supply, name of the testing company and the individual signing off on the test results.

Yes \_\_\_  
No \_\_\_

**40. ATTENDANCE SEAT BELT**

Date of test for supply, name of the testing company and the individual signing off on the test results.

Yes \_\_\_  
No \_\_\_

**41. CPR SEAT**

Date of test for supply, name of the testing company and the individual signing off on the test results.

**42. SQUAD BENCH SEAT**

Date of test for supply, name of the testing company and the individual signing off on the test results.

Yes \_\_\_  
No \_\_\_

**43. RETENTION OF MAIN CABIN**

Date of test for supply, name of the testing company and the individual signing off on the test results.

Yes \_\_\_  
No \_\_\_

**44. CRASH RESTRAINT WALL AT HEAD OF BENCH**

Date of test for supply, name of the testing company and the individual signing off on the test results.

Yes \_\_\_  
No \_\_\_

The Bidder will supply any and all other date showing all other testing that has been performed on the EMTU box or any components in that box not listed otherwise else in this paragraph.

Yes \_\_\_  
No \_\_\_

**45. DEMO BID ACCEPTED**

A Bidder may submit a separate bid of a demo unit that their company has already manufactured and is being used to demonstrate the craftsmanship of the Bidders company or is a market unit. If a demo bid is submitted all warranties must apply as if the unit was built as a new unit.

Yes \_\_\_  
No \_\_\_

A demo shall be bid as a separate alternate bid to the primary bid pursuant to the specifications. Where a demo is bid the Bidder shall articulate within his bid packet all areas in which the demo complies with the Fire District bid specifications and all areas where the demo either exceeds or is deficient in those areas from the Fire District's specifications. A separate questionnaire must be submitted with Demo Bid.

Yes \_\_\_  
No \_\_\_

**46. DRUG FREE WORKPLACE**

The Bidder shall conduct business as a Drug Free Work-place. The Bidder/manufacture shall provide notice to their employees as required under the Drug-Free Workplace Act of 1988. A copy of the Bidder's Drug-Free Workplace policy shall be furnished to the purchaser upon request.

**47. PRODUCT TESTING**

The Bidder shall be a member in good standing with the National Truck Equipment Association (N.T.E.A.). The Bidder shall supply a letter with the bid response to verify current membership.

**48. NON-COLLUSIVE BID CERTIFICATION**

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

Yes \_\_\_  
No \_\_\_

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

Yes \_\_\_  
No \_\_\_

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

Yes \_\_\_  
No \_\_\_

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

Yes \_\_\_  
No \_\_\_

**52. DEBARMENT STATUS**

Yes \_\_\_  
No \_\_\_

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

Yes \_\_\_  
No \_\_\_

Yes \_\_\_  
No \_\_\_

**53. ACCEPTANCE OR REJECTION**

The Purchaser reserves the right to accept or reject any and all bids on such basis, as deems to be in the best interest of the purchaser and is not bound to accept the lowest bid.

Yes \_\_\_  
No \_\_\_

The Purchaser reserves the right to reject any specific line item of the bid in its sole discretion to meet the financial limitations of the Fire District and in the best interest of the purchaser and is not bound to accept all line items bid.

**54. BID PROPOSAL TIME LIMITS AND BID WITHDRAWALS**

Yes \_\_\_  
No \_\_\_

All bids submitted to the purchaser shall remain in effect for a period of (60) sixty calendar days.

Yes \_\_\_  
No \_\_\_

**55. SOUND REDUCTION**

The cab of the vehicle shall be equipped with the latest in sound proofing. In addition to the normal sound proofing the cab shall be equipped with sufficient additional sound proofing to insulate the crew from noise above 90 decibels.

Yes \_\_\_  
No \_\_\_

**56. TRADE-IN VALUE**

The Fire District requests that Bidders also supply a trade in value that they are willing to pay for the Fire District's current 2012 Braun/Kenworth Emergency Medical Transport Unit. That unit is available for viewing at the Fire District's main fire station at 7951

Yes \_\_\_  
No \_\_\_

Alexandria Pike, Alexandria, Kentucky 41001.

57. **WARRANTIES**

Yes \_\_\_

No \_\_\_

MANUFACTURER WARRANTIES: The Emergency Medical Transport Unit manufacturer shall provide warranty coverage as follows:

Yes \_\_\_

No \_\_\_

58. Lifetime Structural Warranty

59. 6 year/75,000 mile electrical warranty (Relay-based system)

Yes \_\_\_

60. 7 year/84,000 mile electrical warranty (Multiplex-based system)

No \_\_\_

61. 7 year Paint warranty

62. 7 year paint application warranty

63. 7 year paint discoloration warranty

Yes \_\_\_

No \_\_\_

The manufacturer shall warrant any part that is added to the motor, transmission or drivetrain to the same extent as the chassis manufacturer's warranty. The Bidder shall specify the warranties on the chassis in their bid.

Yes \_\_\_

No \_\_\_

Warranties shall not be prorated during the life of the warranty.

NOTE: Copies of these warranties shall be provided to the purchaser in the bid response.

Yes \_\_\_

No \_\_\_

64. **FORCE MAJEURE**

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

Unforeseeable cause beyond the control or acts of God, or of the public enemy, acts of the purchaser, acts of another contractor in the performance of a contract with the purchasers, fire, flood, epidemics, quarantine and;

Yes \_\_\_

No \_\_\_

This Unit shall be new, of the latest production model, with latest standard equipment including items specified.

Proven in service; experimental or untried equipment not acceptable.

Fabricated in a first-class workmanlike manner from good quality material applicable to the service intended, requiring a minimum of maintenance.

**65. COMMONWEALTH OF KENTUCKY AND OSHA SAFETY REQUIREMENTS**

Guarantee compliance with those in effect on the date of the bid document, and defend and hold harmless from all claims, fines, levies, and judgments if equipment without modification is properly used and maintained.

Yes \_\_\_  
No \_\_\_

**66. COMMONWEALTH OF KENTUCKY CERTIFICATE OF TITLE**

If required by Kentucky Law, furnish in name of Alexandria Fire District, at no additional cost.

Yes \_\_\_  
No \_\_\_

**67. SPECIAL TOOLS**

Furnish, if required, for maintenance and service.

Yes \_\_\_  
No \_\_\_

**68. CONSTRUCTION**

Easy handling, vehicle, including nuts and bolts, automotive accessory mountings, parts, connectors, and adjustments in accordance with applicable SAE standards and Recommended Practices.

Yes \_\_\_  
No \_\_\_

**69. PAINTING AND LETTERING**

First-Class job presenting a smooth, durable, lustrous finish. The Bidder shall bid the painting and lettering to comply with the Fire District paint scheme that has been adopted as the standard paint scheme and lettering scheme for the Alexandria Fire Protection District. This paint scheme and lettering scheme can be viewed on the Fire District Rescue Truck No. 120.

Yes \_\_\_  
No \_\_\_

Lettering and company number shall be of standard Fire District Type and size now in use by the Fire District.

Yes \_\_\_  
No \_\_\_

**Red/fluorescent yellow green striping** shall be installed on the rear vertical surface of the unit. This shall be of a chevron design, dimensions and exact install location shall be determined at a preconstruction meeting.

Yes \_\_\_  
No \_\_\_

70. Latches, handles, grab bars, rails, and exterior light fixtures shall be chrome plated or stainless steel or powder coat. Protective rings, plates, garnish rings, thread caps and plugs shall be chrome plated, stainless steel, no aluminum is acceptable.

Yes \_\_\_  
No \_\_\_

**71. Tread Plate:**

Non-skid aluminum tread plate on walk areas, steps, kick plates, splash guards.

Yes \_\_\_  
No \_\_\_

Yes \_\_\_  
No \_\_\_

Yes \_\_\_  
No \_\_\_



**72. Metal Work:**

Shall be free from all sharp projections.

Yes \_\_\_

No \_\_\_

**73. Parts List and Manuals:**

Furnish to the Fire District two (2) complete sets of all parts lists, shop repair and maintenance manuals including engine and transmission assembly drawings, wiring diagrams, installation instructions, available accessory equipment lists, recommended spare parts lists, and operator's instructions manuals with this vehicle.

Yes \_\_\_

No \_\_\_

**74. AFTERMARKET SUPPORT WEBSITE**

A Customer Service website shall provide authorized dealers access to comprehensive information pertaining to the maintenance and service of their customer's Emergency Medical Transport Unit. This tool shall provide the authorized dealer the ability to service and support their customers to the best of their ability with factory support at their fingertips.

Yes \_\_\_

No \_\_\_

This website shall also be accessible to the end user through the guest login. Limited access is available and vehicle specific parts information accessible by entering a specific VIN number. All end users should see their local authorized dealer for additional support and service.

Yes \_\_\_

No \_\_\_

The website shall provide the following to the designated individuals:

- Authorized dealer only - ability to access truck detail information on the major components of the vehicle, warranty information, available vehicle photographs, vehicle drawings, sales options, applicable vehicle software downloads, etc.

Yes \_\_\_

No \_\_\_

- Authorized dealer and customer - parts look-up capability, with the aid of digital photographs, part drawings, and assembly drawings.

- Authorized dealer only - ability to electronically submit warranty claims directly to the factory for reimbursement.

Yes \_\_\_

No \_\_\_

- Authorized dealer only - accessibility to multiple dealer reports that allow the dealership to maintain communication with the customer on the status of orders, claims, and phone contacts.

Yes \_\_\_

No \_\_\_

- Authorized dealer and customer - access to all currently published Operation and Maintenance and Service publications.

- Authorized dealer only - access to manufacturer Service Bulletins and Work Instructions containing information on current service topics

Yes \_\_\_

and recommendations provided.

No \_\_\_\_

- Authorized dealer and customer - access to upcoming training classes offered by the manufacturer.

Yes \_\_\_\_

No \_\_\_\_

- Authorized dealer only - access to interactive electronic learning modules (Operators Guides) covering the operation of major vehicle components.

- Authorized dealer only - access to customer service articles, corporate news, quarterly newsletters, and key contacts.

**75. MANUALS AND SERVICE INFORMATION**

The manufacturer shall supply at time of delivery, complete operation and maintenance manuals covering the complete Emergency Medical Transport Unit as delivered. A permanent plate shall be mounted in the driver's compartment which specifies the quantity and type of fluid required including engine oil, engine coolant, transmission.

Yes \_\_\_\_

No \_\_\_\_

Furnish to the Fire District two (2) complete sets of all parts lists, shop repair and maintenance manuals including engine and transmission assembly drawings, wiring diagrams, installation instructions, available accessory equipment lists, recommended spare parts lists, and operator's instruction manuals with this vehicle.

**76. PERFORMANCE TESTS AND REQUIREMENTS**

A road test shall be conducted with the Emergency Medical Transport Unit fully loaded and a continuous run of ten (10) miles or more shall be made under all driving conditions, during which time the Emergency Medical Transport Unit shall show no loss of power or overheating. The transmission drive shaft or shafts, and rear axle shall run quietly and be free from abnormal vibration or noise throughout the operating range of the Emergency Medical Transport Unit.

Yes \_\_\_\_

No \_\_\_\_

77. The Emergency Medical Transport Unit, when fully equipped and loaded, shall have not less than 25 percent nor more than 50 percent of the weight on the front axle, and not less than 50 percent nor more than 75 percent on the rear axle.

Yes \_\_\_\_

No \_\_\_\_

78. The Emergency Medical Transport Unit shall be capable of accelerating to 35 mph from a standing start within 25 seconds on a level concrete highway without exceeding the maximum governed rpm of the engine.

Yes \_\_\_\_

No \_\_\_\_

79. The service brakes shall be capable of stopping a fully loaded vehicle in 35 feet at 20 mph on a level concrete highway. The brake system shall conform to Federal Motor vehicle Safety Standards (FMVSS) 121. Yes \_\_\_  
No \_\_\_

80. The Emergency Medical Transport Unit, fully loaded, shall be capable of obtaining a speed of 65 mph on a level concrete highway with the engine not exceeding the governed rpm (full load).

81. The Emergency Medical Transport Unit when fully equipped and loaded from a standing start at the intersection of 1998 and the AA Highway shall proceed from a fully stopped position at the intersection shall proceed up the AA Highway towards the City of Alexandria. The vehicle shall attain a speed of not less than 60 mph two-thirds of the way up the hill and shall maintain or exceed that speed to the exit ramp to the City of Alexandria, without exceeding the maximum governed RPM of the engine. Yes \_\_\_  
No \_\_\_  
Yes \_\_\_  
No \_\_\_

**82. FAILURE TO MEET TEST**

In the event the Emergency Medical Transport Unit fails to meet the test requirements of these specifications on the first trial, second trials may be made at the option of the bidder within 30 days of the date of the first trial. Such trials shall be final and conclusive and failure to comply with these requirements shall be cause for rejection. Failure to comply with changes to conform to any clause of the specifications, within 30 days after notice is given to the bidder of such changes, shall also be cause for rejection of the Emergency Medical Transport Unit. Permission to keep or store the Emergency Medical Transport Unit in any building owned or occupied by the purchaser or its use by the purchaser during the above-specified period with the permission of the bidder shall not constitute acceptance. Yes \_\_\_  
No \_\_\_  
Yes \_\_\_  
No \_\_\_  
Yes \_\_\_  
No \_\_\_

**83. SERVICE AND WARRANTY SUPPORT (DEALERSHIP)**

TO INSURE FULL SERVICE AFTER DELIVERY, THE SELLING BIDDER/DEALERSHIP MUST BE CAPABLE OF PROVIDING SERVICE WHEN REQUIRED. Yes \_\_\_  
No \_\_\_

The bidder/dealership shall show that the company is in position to render prompt service and to furnish replacement parts. Yes \_\_\_  
No \_\_\_

Each bidder/dealership must be able to display that they are actively in the Emergency Medical Transport Unit service business by operating Yes \_\_\_  
No \_\_\_

in conjunction with a factory authorized service center and parts repository capable of satisfying the warranty service requirements and parts requirements of the vehicle(s) being purchased.

Yes \_\_\_\_  
No \_\_\_\_

The bidder/dealership must state the location of this authorized service center. This service center must have a staff of factory-trained mechanics, well versed in all aspects of service for all major components of the Emergency Medical Transport Unit. The service center must be within ten (10) miles of the Fire Department.

Yes \_\_\_\_  
No \_\_\_\_

**84. SERVICE AND WARRANTY SUPPORT (MANUFACTURER)**

To provide an additional layer of service support, the successful manufacturer must also own a least two separate service facilities, one located in the northern portion of the US to service both Canada and the northern US states and one in the south to service the southern states.

Yes \_\_\_\_  
No \_\_\_\_

The manufacturer shall stock 1 million parts equating to \$5,000,000 of inventory dedicated to service and replacement parts to ensure quick response and minimize down time. Furthermore, the manufacturer shall house the inventory in a dedicated facility, with a dedicated shipping area that ensures service parts are given priority.

Yes \_\_\_\_  
No \_\_\_\_

The bidder shall provide detailed documentation of service and replacement part resources.

Yes \_\_\_\_  
No \_\_\_\_

Parts identification shall be provided to both the dealer and the Fire Department through an on line web based application for the specific truck reflected in this specification. Access will be granted using the specific VIN number of the vehicle. The online web application will provide the ability to view complete bills of materials, digital photographs, parts drawings, assembly drawings, and access to all current operation, maintenance and service publications.

Yes \_\_\_\_  
No \_\_\_\_

The manufacturer must also maintain a 24 hour/ 7 day a week, toll free emergency hot line.

Yes \_\_\_\_  
No \_\_\_\_

The manufacturer shall employ a staff of adequate size (a minimum of 30 personnel) specifically dedicated to providing customer support and parts for the fielded fleet of vehicles it has produced.

Yes \_\_\_\_  
No \_\_\_\_

The manufacturer must be capable of providing both in-house and on-site service for the Emergency Medical Transport Unit.

The manufacturer shall offer regional factory hands-on repair and

maintenance training classes.

**85. MISCELLANEOUS**

Yes \_\_\_

No \_\_\_

Vehicle and compartments in accordance with applicable Federal Motor Vehicle Safety Standards, Commonwealth of Kentucky Motor Vehicle Laws, OSHA regulations. Where these laws are standards and disagree with this specification, the law, standards govern.

**86. APPROVAL DRAWING:**

Yes \_\_\_

No \_\_\_

A drawing of the proposed Emergency Medical Transport Unit shall be provided for approval before construction begins. The sales representative shall also have a copy of the same drawing. The finalized and approved drawing shall become part of the contract documents. This drawing shall indicate the chassis make and model, location of the lights, siren, horns, compartments, major components, etc.

Yes \_\_\_

No \_\_\_

Yes \_\_\_

No \_\_\_

A "revised" approval drawing of the Emergency Medical Transport Unit shall be prepared and submitted by the manufacturer to the purchaser showing any changes made to the approval drawing.

**87. DRAWING:**

Yes \_\_\_

No \_\_\_

The Bidder shall supply a drawing of the layout of the proposed vehicle with his bid.

The drawings shall include detailed dimensions of the cab, chassis, vehicle structure, each external compartment of the vehicle, any compartment in the cab. The drawings shall be of sufficient size as to be easily read and understood.

Yes \_\_\_

No \_\_\_

**88. COMPARTMENTS (EXTERIOR):**

As large as possible. Waterproof with flush or semi-flush reinforced doors. Semi-flush doors protected with top drip moldings. Stainless steel piano hinges On doors. Doors remain open when placed in this position. Minimum storage area to be 50 cu ft.

Yes \_\_\_

No \_\_\_

Positive type door latches that will not open by vibrations and adequately protected from outside interference.

The Alexandria Fire District has established with its current EMS units a standardized location for placing various equipment in the outside storage compartments. It is the desire of the Alexandria Fire District for the bidder to come as close as possible to the outside compartment

Yes \_\_\_

No \_\_\_

locations and sizes that presently are utilized for the purpose of standardization of equipment location on all EMS units within the Fire District.

89. The Bidder shall certify that the weight of the vehicle and the weight distribution of the vehicle, when fully loaded with three (3 ) firefighters, patient and fully loaded with all equipment carried by the Alexandria Fire District, does not exceed the gross vehicle weight and axle ratios found in this bid. Fully loaded includes all equipment, fuel, batteries, personnel and gear. Yes \_\_\_  
No \_\_\_
90. The Bidder shall supply a list of all civil lawsuits that the Bidder has been named in, including date of filing, case number, case jurisdiction and outcome of the case for the last five (5) years. Yes \_\_\_  
No \_\_\_
91. The Bidder shall certify that the engine as listed is capable of meeting all federal and state EPA and OSHA regulations. Yes \_\_\_  
No \_\_\_
92. The Bidder will specify any discounts that the Fire District could receive for a prepayment of the cost of the unit. The Bidder will specify how much of a discount for a 100% prepayment, a 75% prepayment, 50% prepayment and 25% prepayment, if any discounts are given for those prepayments of the cost of this unit. These discounts will be listed by the Bidder on the coversheet under No. 7. Yes \_\_\_  
No \_\_\_
93. The Emergency Medical Transport Unit in question shall be equipped with a diesel engine of not less than 475 rated horsepower and at least 1,000 ft. pounds of torque. Yes \_\_\_  
No \_\_\_
94. **TIRE, SPARE** Yes \_\_\_  
No \_\_\_  
A spare front tire mounted on the same rim as all other tires will be shipped loose with the vehicle.
95. **VALVE EXTENSIONS** Yes \_\_\_  
No \_\_\_  
Deluxe type air max AMH-1 valve extensions shall be provided to properly inflate the inner dual rear tires. If air max AMH-1 extenders are not available from the manufacturer, the manufacturer shall specifically designate the make and model of the air extender being provided.
96. **FUEL TANK** Yes \_\_\_  
No \_\_\_  
The fuel tank shall be not less than forty-five (45) U.S. Gallon Capacity. The fuel tank shall be located on the driver side of the vehicle.

The vehicle fuel tank shall be full at time of delivery. Should the fuel tank be installed under the driver's door, the fuel tank shall be covered in polished aluminum tread plate and shall have steps installed for easy ingress and egress from the vehicle. The maximum height from the ground for the first step shall be no more than 14".

97. **GAUGES**

Yes \_\_\_  
No \_\_\_

The cab shall be equipped with at least the following gauges, the gauges will be individually illuminated and will be individual gauges.

- a) Temperature of engine in degrees Fahrenheit
- b) Fuel in tank in U.S. gallons
- c) Oil pressure of engine in P.S.I.
- d) Primary Air Pressure of air system in P.S.I.
- e) Secondary Air Pressure of air system in P.S.I.
- f) Voltage gauge of electrical system
- g) Amp. gauge of electrical system
- h) Tack, gauge to record engine speed in R.P.M.
- i) Miles per hour gauge with mileage counter to tenths of a mile
- j) Temperature of transmission in degrees Fahrenheit
- k) DEF
- l) Gauge to show gallons in tankHour meter to record engine time
- m) Discharge rate of on board battery charger

98. **BATTERY CONVERTER / CHARGER**

Yes \_\_\_  
No \_\_\_

A *PROGRESSIVE DYNAMICS* #PD9140, 40 AMP, 115 VAC TO 12 VDC converter with #PD9105 automatic charge wizard shall be connected to the shoreline.

99. **REGULATOR**

Yes \_\_\_  
No \_\_\_

Shall be compatible with alternator.

100. **ALTERNATOR**

Yes \_\_\_  
No \_\_\_

The successful Bidder shall provide an alternator or alternators capable of producing sufficient electric power that when all lights and other electrical equipment on the chassis, all lights and all electrical equipment inside the cab and all lights and all electrical equipment in all compartments are all turned on and operating simultaneously, including emergency lighting, sirens, etc., the alternators, at a minimum, shall only be operating at eighty percent (80%) of its/their capacity and continue to operate at that level of performance for two (2) hours sustained time period.

101.       **HOSES** Yes \_\_\_  
No \_\_\_

All hoses that go to, or come from the engine, that have water flowing through them, shall be made of silicone.

102.       **COOLING SYSTEM** Yes \_\_\_  
No \_\_\_

The cooling system shall not have aluminum or an aluminum alloy or plastic in contact with the cooling water. The cooling system shall be of sufficient capacity to prevent engine overheating under all operating conditions.

103.       **BRAKES** Yes \_\_\_  
No \_\_\_

**BRAKES – All WHEEL ABS**

The chassis shall have heavy-duty, Power brakes. An all-wheel “Front and Rear Axles” anti-lock brake system

**PARKING BRAKE:**

Vehicle standard type on rear axle.

104.       **ENGINE** Yes \_\_\_  
No \_\_\_

Bidder shall supply a diesel engine of at least 475 SAE with torque of at least 1,000 SAE. The motor must be capable of operating in all weather conditions and with a four-wheel drive drivetrain.

It shall be water cooled. The engine shall be equipped with the following equipment: a dry type air cleaner, fuel filter, replaceable oil filter of the full flow-by pass type, thermostat that will operate with permanent type antifreeze, emergency low oil pressure warning light.

105.       **EXHAUST SYSTEM** Yes \_\_\_  
No \_\_\_

The muffler and tail pipe shall extend to an area on the right/curb side of the unit and behind the patient entry door with an attachment to fit the fire station exhaust system.

106.       All window glass on the chassis cab shall be tinted. Yes \_\_\_  
No \_\_\_

107.       **HORNS – ELECTRIC** Yes \_\_\_  
No \_\_\_

Shall have two electric horns activated on the steering wheel.



108.       **AIRHORNS** Yes \_\_\_  
No \_\_\_
- Two 12” air horns shall be installed in the front of the vehicle. The exact location to be determined at the Prebuild meeting. There shall be installed in the cab of the vehicle a button to activate the air horns on the passenger side of the vehicle on dash. The air horns shall also be activated with the electric horns from the steering wheel, with a switch.
109.       **LIGHTS, CHASSIS EXTERIOR** Yes \_\_\_  
No \_\_\_
- Chassis manufacturer’s standard exterior lights, two (2) headlights, front turn signals, front identification market lights and a heavy-duty turn signal flasher.
110.       **LIGHT, CAB DOME** Yes \_\_\_  
No \_\_\_
- Shall have a cab door-activated courtesy light consisting of dual adjustable map / reading lights.
111.       **DECONTAMINATION** Yes \_\_\_  
No \_\_\_
- The interior of the vehicle cab compartment shall be constructed in such a way that in the event it becomes contaminated from any chemical, biological substance it may be decontaminated without the necessity of removing and replacing any of the compartments or seating within the interior of the cab.
112.       **AUTOMATIC DROP CHAINS** Yes \_\_\_  
No \_\_\_
- Automatic drop chains shall be installed by the manufacturer. The chains shall be air operated with a built in air compressor supplying the air on spot or equal drop chains to be supplied.
113.       **STABILIZER BARS, FRONT & REAR** Yes \_\_\_  
No \_\_\_
- Shall have heavy duty OEM stabilizer bars on the front and rear.
114.       **WIPERS – INTERMITTENT** Yes \_\_\_  
No \_\_\_
- Multi-speed electric wipers with washers, and intermittent operation feature shall be included on the chassis.
115.       **BACKUP ALARM** Yes \_\_\_  
No \_\_\_
- An (OSHA Approved) back up alarm with disable switch shall be installed for silent backing. The disable switch shall be located on the MCC (Master Control Console). The back-up alarm system shall

automatically reset to the "On" mode when the transmission is taken out of reverse.

116. **MIRRORS, EXT. POWER WITH/CONVEX & HEAT**

Yes \_\_\_  
No \_\_\_

Shall have mirrors with power adjust flat heated glass and manual adjust convex glass.

117. **MUD FLAPS, REAR AND FRONT**

Yes \_\_\_  
No \_\_\_

Black rubber-reinforced mud flaps, 1/4 inch thickness, 24 inches x 20 inches shall be bolted to the underside of the body behind the rear wheels and behind the front wheels and 1 across entire rear of vehicle.

118. **ELECTRICAL SYSTEM**

Yes \_\_\_  
No \_\_\_

It shall be a 12 volt system, with electrical circuits. Switch mounted near center of dash.

All circuits shall be equipped with circuit breakers. All wiring shall be color coded. All circuit components, except circuit breakers, shall be rated at 125% of anticipated load. Wire size for ambulance circuits shall be of sufficient gauge to carry a minimum of 125% of anticipated load.

All electrical components, electronic equipment and devices used and installed on the unit shall be electromagnetic radiation suppressed, filtered or shielded to prevent interference to radio and telemetry equipment aboard the vehicle. The RFI of the completed unit shall not exceed the maximum limits of SAF J551.

119. **DAYTIME RUNNING LAMPS**

Yes \_\_\_  
No \_\_\_

Headlights shall be activated at 30% intensity, for daytime operation, when transmission is placed in drive, as a feature of the multiplex system.

120. **SHORELINE INLET RECEPTACLE, HEAVY-DUTY, 20 AMP AUTO EJECT**

Yes \_\_\_  
No \_\_\_

An auto-eject shoreline inlet receptacle with yellow cover shall be installed on the module exterior (forward streetside) near the driver's door. The 115Vac, heavy duty 20 AMP receptacle shall have circuit interrupt, connected to the lighted patient compartment outlet(s) and to the engine block heater (with a block heater summer/winter switch in the power distribution quarters. A mating connector shall be shipped loose.

121. **FLASHLIGHT (2)** Yes \_\_\_  
No \_\_\_

Two (2) rechargeable flashlight and 12 volt charger base shall be installed in a designated location to be determined at the preconstruction conference. Streamlight LED with battery pack and charger Orange (2).

122. **STONE GUARDS, MODULE FRONT - DIAMOND PLATE** Yes \_\_\_  
No \_\_\_

Anodized aluminum diamond plate stone guards shall be installed on the lower 24 inches of the front of the patient box corners.

123. **(1) RADIO ANTENNA BASE AND RADIO** Yes \_\_\_  
No \_\_\_

- a) Harris Dual Band Antenna
- b) Harris Dual Band Dual Head Radio Mobile
- c) The antenna bases, with attached coaxes shall be installed on the rooftop, on patient box. The coaxes shall terminate in the cab, behind the seats. Access to the antenna bases shall be through two (2) designated module interior dome lights.
- d) There shall be installed in the cab two (2) portable radio chargers at least equivalent to the portable radios currently used by the department. The mobile radio shall be equipped with three (3) David Clark headsets. The headsets shall be capable of being used as either an intercom between the individuals in the cab and patient compartment or with the radio. All David Clark headsets shall be wire type. There shall be a connection for headsets at a location near the patient area to be determined at the pre-bid conference.
- e) There shall be installed in the chassis cab a speaker connected to the mobile radio with its own separate volume control.

124. **LIGHTBAR WHALEN LED OR EQUAL** Yes \_\_\_  
No \_\_\_

A Whalen 4500 Plus Super LED lightbar shall be mounted on the front of patient box. There shall be red LED lights.

There shall be a separate switch on the center of the dashboard labeled "cab warning light" when the switch is activated all lights on this lightbar shall be activated.

125. **LIGHTBAR REAR** Yes \_\_\_  
No \_\_\_

On the rear of the unit there shall be installed a Whalen 4500 Plus Super LED lightbar with red and amber lights, an on-off switch in the cab shall be designated for this light bar.

126. Two (2) Whalen SC6 CS lights shall be installed immediately above the front wheels of the unit on the cab and passenger sides and Yes \_\_\_  
No \_\_\_

Whalen SC6 CS lights immediately above the rear wheels on the body of the vehicle both sides.

127. There shall be installed on the front of the cab one on each side of the center point of the cab two Whalen C6 SC lights in red. they shall have their own separate on-off switch
- Yes \_\_\_  
No \_\_\_

128. **EMERGENCY LIGHTS PATIENT BOX**
- Yes \_\_\_  
No \_\_\_

There shall be installed on each corner of the patient box a Whalen C6 SC light for a total of eight lights, the two on the rear of the box shall be placed in a location so that when the rear patient doors are open, the lights can be seen through the door windows. The two on the front of the patient box shall be placed below the lightbar. The lights on the rear of the unit shall also activate when the brakes are activated.

There shall be installed on the rear of the vehicle a Whalen Traffic Advisor split style. It shall be a model TA 4437M2 with a separate control switch in the cab.

Yes \_\_\_  
No \_\_\_

129. **LIGHTS, ICC – CHASSIS CAB**
- Yes \_\_\_  
No \_\_\_

Amber ICC lights shall be provided on the front forward edge of the of the chassis cab roofline. These ICC lights shall be installed by the manufacturer.

130. **SIREN, WHALEN 295-HFSA7-REMOTE WITH MICROPHONE OR EQUAL**
- Yes \_\_\_  
No \_\_\_

A Whalen 295-HFSA7 dual remote siren shall be flush mounted in the master control center located in the cab. The siren shall be capable of hands-free operation and be equipped with a noise cancelling microphone.

131. **SIREN SPEAKERS**
- Yes \_\_\_  
No \_\_\_

The successful bidder shall place and install two Whalen SA 315P siren speaker in the front bumper of the vehicle with one (1) on each side. The speakers shall be capable of producing 100 watts of audible sound, each.

132. **MINI-LED RUNNING BOARD LIGHTS**
- Yes \_\_\_  
No \_\_\_

Four (4) mini-LED running board lights shall be installed on each side of the unit. Two (2) red and two (2) white that have alternate flash and operate with other emergency lights. The exact location of the lights and their installation will be addressed as the pre-construction meeting.

**133. BACKUP CAMERA**

Yes \_\_\_  
No \_\_\_

A backup camera shall be installed with a warning device to sound in the cab area (driver area) anytime an object is 12 feet. The camera shall be equipped with a minimum 6" monitor for the driver.

**134. ELECTRICAL WIRING DIAGRAMS**

Yes \_\_\_  
No \_\_\_

Two (2) electrical wiring diagrams, prepared for the model of chassis and body, shall be provided.

**135. FRONT DRIVE AXLE**

Yes \_\_\_  
No \_\_\_

The front axle shall comply with DOT Regulations with automatic HUBS.

**136. FRONT SHOCK ABSORBERS FOR 4 x 4 UNIT**

Yes \_\_\_  
No \_\_\_

Heavy-duty telescoping shock absorbers shall be provided on the front suspension.

**137. FRONT TIRES**

Yes \_\_\_  
No \_\_\_

Per DOT Regulations and manufacture requirements for a 4 x 4 vehicle.

The tires shall be mounted on steel disc wheels with a ten (10) stud, 8.86" bolt circle.

**138. REAR AXLE DRIVE AXLE**

Yes \_\_\_  
No \_\_\_

Per DOT Regulations.

**139. TOP SPEED OF VEHICLE**

Yes \_\_\_  
No \_\_\_

A rear axle ratio shall be furnished to allow the vehicle to reach a top speed of at least 70 mph.

**140. REAR SUSPENSION**

Yes \_\_\_  
No \_\_\_

Per DOT Regulations.

**141. REAR TIRES**

Yes \_\_\_  
No \_\_\_

Mud and snow radials shall be four (4) tires 315/80R19.50 radials with 20 ply G289 WHA tread, rated for maximum axle load and 70 mph maximum speed.

All tires shall be mounted on steel disc wheels with a ten (10) stud 8.86"

bolt circle.

**142. TIRE BALANCE**

Yes \_\_\_

No \_\_\_

All tires shall be balanced with Counteract balancing beads. The beads shall be inserted into the tire and eliminate the need for wheel weights.

**143. TIRE PRESSURE MANAGEMENT**

Yes \_\_\_

No \_\_\_

There shall be a RealWheels LED AirSecure™ tire alert pressure management system provided, that shall monitor each tire's pressure. A sensor shall be provided on the valve stem of each tire for a total of six (6) tires.

The sensor shall calibrate to the tire pressure when installed on the valve stem for pressures between 10 and 200 psi. The sensor shall activate an integral battery operated LED when the pressure of that tire drops 5 to 8 psi.

Yes \_\_\_

No \_\_\_

Removing the cap from the sensor shall indicate the functionality of the sensor and battery. If the sensor and battery are in working condition, the LED shall immediately start to flash.

Yes \_\_\_

No \_\_\_

**144. AIR COMPRESSOR**

Yes \_\_\_

No \_\_\_

The air compressor shall be a Bendix®, Model BA-921, with 15.80 cubic feet per minute output at 1,250 rpm. Air Tank with draw valve accessible on driver side of vehicle and self-purging drain valve.

**145. DIESEL EXHAUST FLUID TANK**

Yes \_\_\_

No \_\_\_

In accordance with DOT Regulations.

An air to fuel cooler shall be installed in the engine fuel return line.

**146. TRANSMISSION**

Yes \_\_\_

No \_\_\_

An electronic, torque converting, automatic transmission shall be provided.

A transmission temperature gauge, with red light and audible alarm, shall be installed on the cab instrument panel.

**147. TRANSMISSION COOLER**

Yes \_\_\_

No \_\_\_

An externally mounted Modine bar plate transmission oil cooler shall be provided using engine coolant to control the transmission oil temperature. The internal bar plates shall be constructed of stainless

Yes \_\_\_

No \_\_\_

steel. The cooler's housing shall be constructed of 1020 steel, coated to protect from corrosion. The cooler shall be tagged with information including OEM part number, vendor serial number and date / lot code.

An externally mounted Modine bar plate transmission oil cooler shall be provided using engine coolant to control the transmission retarder oil temperature. The internal bar plates shall be constructed of stainless steel. The cooler's housing shall be constructed of 1020 steel, coated to protect from corrosion. The cooler shall be tagged with information including OEM part number, vendor serial number and date / lot code.

Yes \_\_\_  
No \_\_\_

**148. STEERING**

Steering gears, with integral heavy-duty power steering, shall be provided. All power steering lines shall have wire braded lines with crimped fittings.

A tilt and telescopic steering column shall be provided to improve fit for a broader range of driver configurations.

Yes \_\_\_  
No \_\_\_

**149. STEERING WHEEL**

The steering wheel shall be manufacture standard steering wheel.

Yes \_\_\_  
No \_\_\_

**150. LIFT AND TOW MOUNTS**

Mounted to the frame shall be lift and tow mounts. The lift and tow mounts shall be designed and positioned to adapt to certain tow truck lift systems.

The lift and tow mounts with eyes shall be painted the same color as the frame.

Yes \_\_\_  
No \_\_\_

**151. TOW HOOKS**

No tow hooks are to be provided. This truck shall be equipped with a lift and tow package with integral tow eyes.

Yes \_\_\_  
No \_\_\_

**152. FENDER LINERS**

Full circular inner fender liners in the wheel wells shall be provided on the rear wheels.

Yes \_\_\_  
No \_\_\_

**153. FENDER CROWNS**

Black rubber fender crowns shall be installed at the cab wheel openings.

Yes \_\_\_  
No \_\_\_

The fender crowns shall have a radius outside corner that allows the fender crown to extend beyond the side wall of the front tires and also allow the crew cab doors to open fully.

**154. ENGINE COMPARTMENT LIGHTS**

Yes \_\_\_  
No \_\_\_

There shall be one (1) Whelen, Model 3SC0CDCR, 12 volt DC, 3.00" white LED light(s) with Whelen, Model 3FLANGEC, chrome flange kit(s) installed under the cab to be used as engine compartment illumination.

These light(s) shall be activated automatically when the cab is raised.

**155. SEAT UPHOLSTERY**

Yes \_\_\_  
No \_\_\_

All seat upholstery shall be manufacturer standard.

**156. CAB DOME LIGHTS**

Yes \_\_\_  
No \_\_\_

There shall be two (2) dual LED dome lights with black bezels provided. Two (2) lights shall be mounted above the inside shoulder of the driver and officer.

The color of the LED's shall be red and white.

The red LED's shall be controlled by the door switches and the lens switch.

The color LED's shall be controlled by the lens switch.

In order to ensure exceptional illumination, each white LED dome light shall provide a minimum of 10.1 foot-candles (fc) covering an entire 20.00" x 20.00" square seating position when mounted 40.00" above the seat.

**157. OPEN DOOR INDICATOR LIGHT**

Yes \_\_\_  
No \_\_\_

There shall be two (2) indicator lights provided and located in clear view of the driver, warning of any open passenger or equipment compartment door(s):

- One (1) light shall indicate status of doors on the driver's side of the vehicle
- One (1) light shall indicate the status of the passenger side and rear compartment doors



158. **CAB SWITCH PANELS**

Yes \_\_\_  
No \_\_\_

The built-in emergency light switch panel shall have a master switch plus individual switches for selective control. The switch panel shall be located in the "overhead" position above the windshield in the middle to allow for easy access. Switches shall be rocker type with an indicator light, of which is an integral part of the switch.

159. **SPARE CIRCUIT**

Yes \_\_\_  
No \_\_\_

There shall be two (2) pair of wires, including a positive and a negative, installed on the EMTU.

The above wires shall have the following features:

Yes \_\_\_  
No \_\_\_

- The positive wire shall be connected directly to the battery power
- The negative wire shall be connected to ground
- Wires shall be protected to 15 amps at 12 volts DC
- Power and ground shall terminate officer side dash area
- Termination shall be with heat shrinkable butt splicing
- Wires shall be sized to 125 percent of the protection

The circuit(s) may be load managed when the parking brake is set.

160. **RADIO / INTERCOM INTERFACE CABLE**

Yes \_\_\_  
No \_\_\_

The EMTU manufacturer shall supply and install one (1) radio interface cable from radio to all David Clark Headsets before delivery of the vehicle.

161. **POWER AND GROUND STUDS**

Yes \_\_\_  
No \_\_\_

There shall be two (2) studs provided in the primary power distribution center for two-way radio equipment.

The studs shall consist of the following:

Yes \_\_\_  
No \_\_\_

- 12-volt 150-amp battery switched power
- 12-volt 75-amp direct battery power

Yes \_\_\_  
No \_\_\_

There shall also be two (2)12-volt ground studs located in or adjacent to the power distribution center.

162. **EMI/RFI PROTECTION**

Yes \_\_\_  
No \_\_\_

The electrical system proposed shall include means to control undesired electromagnetic and radio frequency emissions. State of the art electrical

system design and components shall be used to ensure radiated and conducted EMI (electromagnetic interference) and RFI (radio frequency interference) emissions are suppressed at their source.

The EMTU proposed shall have the ability to operate in the electromagnetic environment typically found in fire ground operations. The contractor shall be able to demonstrate the EMI and RFI testing has been done on similar EMTU and certifies that the vehicle proposed meets SAE J551 requirements.

Yes \_\_\_  
No \_\_\_

EMI/RFI susceptibility shall be controlled by applying immune circuit designs, shielding, twisted pair wiring and filtering. The electrical system shall be designed for full compatibility with low level control signals and high powered two-way radio communication systems. Harness and cable routing shall be given careful attention to minimize the potential for conducting and radiated EMI-RFI susceptibility.

Yes \_\_\_  
No \_\_\_

163. **ELECTRICAL**

Yes \_\_\_  
No \_\_\_

All 12-volt electrical equipment installed by the EMTU manufacturer shall conform to modern automotive practices. All wiring shall be high temperature crosslink type. Wiring shall be run, in loom or conduit, where exposed and have grommets where wire passes through sheet metal.

Automatic reset circuit breakers shall be provided which conform to SAE Standards. Wiring shall be color, function and number coded. Function and number codes shall be continuously imprinted on all wiring harness conductors at 2.00" intervals. Exterior exposed wire connectors shall be positive locking, and environmentally sealed to withstand elements such as temperature extremes, moisture and automotive fluids.

Electrical wiring and equipment shall be installed utilizing the following guidelines:

- All holes made in the roof shall be caulked with silicon, rope caulk is not acceptable. Large fender washers, liberally caulked, shall be used when fastening equipment to the underside of the cab roof.
- Any electrical component that is installed in an exposed area shall be mounted in a manner that shall not allow moisture to accumulate in it. Exposed area shall be defined as any location outside of the cab or body.
- Electrical components designed to be removed for maintenance shall not be fastened with nuts and bolts. Metal screws shall be used in

mounting these devices. Also a coil of wire shall be provided behind the appliance to allow them to be pulled away from mounting area for inspection and service work.

- Corrosion preventative compound shall be applied to all terminal plugs located outside of the cab or body. All non-waterproof connections shall require this compound in the plug to prevent corrosion and for easy separation (of the plug).
- All lights that have their sockets in a weather exposed area shall have corrosion preventative compound added to the socket terminal area.
- All electrical terminals in exposed areas shall have silicon (1890) applied completely over the metal portion of the terminal.

All lights and reflectors, required to comply with Federal Motor Vehicle Safety Standard #108, shall be furnished. Rear identification lights shall be recessed mounted for protection. Lights and wiring mounted in the rear bulkheads shall be protected from damage by installing a false bulkhead inside the rear compartments.

An operational test shall be conducted to ensure that any equipment that is permanently attached to the electrical system is properly connected and in working order.

The results of the tests shall be recorded and provided to the purchaser at time of delivery.

164. **BATTERY COMPARTMENTS**

Yes \_\_\_\_  
No \_\_\_\_

Batteries shall be stored in well-ventilated compartments that are located under the cab and bolted directly to the chassis frame. The battery compartments shall be constructed of 0.188" or heavier steel plate and be designed to accommodate a minimum of three (3) group 31 batteries in each compartment. The battery hold-downs shall be of a non-corrosive material. All bolts and nuts shall be stainless steel.

The compartments shall include formed fit heavy duty roto-molded polyethylene battery trays with drain tubes for the batteries to sit in.

Heavy-duty battery cables shall be used to provide maximum power to the electrical system. Cables shall be color-coded.

Battery terminal connections shall be coated with anti-corrosion compound.

Battery solenoid terminal connections shall be encapsulated with semi-permanent rubberized compound.

165. **AUTO EJECT FOR SHORELINE**

Yes \_\_\_  
No \_\_\_

There shall be one (1) Kussmaul™, Model 091-55-20-120, 20 amp 120 volt AC shoreline inlet(s) provided to operate the dedicated 120 volt AC circuits on the EMTU.

The shoreline inlet(s) shall include red weatherproof flip up cover(s).

There shall be a release solenoid wired to the vehicle's starter to eject the AC connector when the engine is starting.

The shoreline(s) shall be connected to the battery charger.

There shall be a mating connector body supplied with the loose equipment.

There shall be a label installed near the inlet(s) that state the following:

- Line Voltage
- Current Rating (amps)
- Phase
- Frequency

The shoreline receptacle shall be recessed into the driver's side.

166. **ELECTRONIC LOAD MANAGEMENT**

Yes \_\_\_  
No \_\_\_

There shall be an electronic load management (ELM) system provided that monitors the vehicles 12-volt electrical system, and automatically reduces the electrical load in the event of a low voltage condition and by doing so, ensures the integrity of the electrical system.

The ELM shall monitor the vehicle's voltage while at the scene (parking brake applied). It shall sequentially shut down individual electrical loads when the system voltage drops below a preset value. Five (5) separate electrical loads shall be controlled by the load manager. The ELM shall sequentially re-energize electrical loads as the system voltage recovers.

The (ELM) also includes sequencer function for the five (5) managed loads and two (2) additional.

167. **HEADLIGHTS**

Yes \_\_\_  
No \_\_\_

Per manufacturer standard LED.

168. **DIRECTIONAL LIGHTS**

Yes \_\_\_  
No \_\_\_

There shall be two (2) Whelen® 600 series, LED combination directional/marker lights provided on rear of patient box.

The color of the lenses shall be the same color as the LED's.

169. **INTERMEDIATE LIGHT**

Yes \_\_\_  
No \_\_\_

There shall be two (2) Weldon, Model 9186-8580-29, amber LED turn signal marker lights furnished, one (1) each side, in the rear fender panel.

The light shall double as a turn signal and marker light.

170. **REAR CLEARANCE/MARKER/ID LIGHTING**

Yes \_\_\_  
No \_\_\_

There shall be two (2) LED lights installed at the rear of the EMTU used as clearance lights located at the rear of the EMTU per the following:

- To indicate the overall width of the vehicle
- One (1) each side of the vertical centerline
- As near the top as practical
- Red in color
- To be visible from the rear
- All at the same height

There shall be two (2) LED lights installed on the side of the EMTU used as marker lights as close to the rear as practical per the following:

Yes \_\_\_  
No \_\_\_

- To indicate the overall length of the vehicle
- One (1) each side of the vertical centerline
- As near the top as practical
- Red in color
- To be visible from the side
- All at the same height

The lights shall be mounted with no guard.

There shall be two (2) red reflectors located on the rear of the truck facing to the rear. One (1) each side, as far to the outside as practical, at a minimum of 15.00" above the ground.

Yes \_\_\_  
No \_\_\_

There shall be two (2) red reflectors located on the side of the truck facing to the side. One (1) each side, as far to the rear as practical, at a minimum of 15.00".

171. **MARKER LIGHTS**

Yes \_\_\_  
No \_\_\_

There shall be one (1) pair of amber and red LED marker lights with rubber arm, located at the rear most lower corner of the body. The amber lens shall face the front and the red lens shall face the rear of the truck.

These lights shall be activated with the running lights of the vehicle.

172. **REAR FMVSS LIGHTING**

Yes \_\_\_  
No \_\_\_

There shall be two (2) wrap around tri-cluster LED modules provided on the face of the rear body compartments.

Each tri-cluster shall include the following:

- One (1) LED stop/tail light
- One (1) LED directional light
- One (1) LED backup light

173. **LICENSE PLATE BRACKET**

Yes \_\_\_  
No \_\_\_

There shall be one (1) license plate bracket mounted on the rear of the body.

A white LED light shall illuminate the license plate. A polished stainless steel light shield shall be provided over the light that shall direct illumination downward, preventing white light to the rear.

174. **BODY PERIMETER SCENE LIGHTS**

Yes \_\_\_  
No \_\_\_

There shall be one (1) Amdor®, Model AY-LB-12HW020, 20.00" 12 volt DC LED strip light provided under each side of patient box.

The perimeter scene lights shall be activated when the parking brake is applied.

175. **STEP LIGHTS**

Yes \_\_\_  
No \_\_\_

Two (2) white LED step lights shall be provided, one (1) at passenger door one at patient door.

In order to ensure exceptional illumination, each light shall provide a

minimum of 25 foot-candles (fc) covering an entire 15" x 15" square placed ten (10) inches below the light and a minimum of 1.5 fc covering an entire 30" x 30" square at the same ten (10) inch distance below the light.

The lights shall be actuated when the door opens.

176. **REAR BUMPER**

Yes \_\_\_  
No \_\_\_

A UPF black rub rail shall be provided at the rear of the unit. It shall extend the full width of the body and the center shall fold up for ease of cot entry.

177. **COMPARTMENT LIGHTING**

Yes \_\_\_  
No \_\_\_

There shall be compartment(s) LED compartment light strips. The dual light strips shall be centered vertically along each side of the door framing. There shall be two (2) light strips per compartment. The dual light strips shall be in all exterior body compartment(s).

Opening the compartment door shall automatically turn the compartment lighting on.

178. **MOUNTING TRACKS**

Yes \_\_\_  
No \_\_\_

There shall be recessed tracks installed vertically to support the adjustable shelf(s) in all exterior compartments.

Tracks shall not protrude into any compartment in order to provide the greatest compartment space and widest shelves possible.

The tracks shall be provided in each compartment except for the one that contains the pump operator's panel.

179. **ADJUSTABLE SHELVES**

Yes \_\_\_  
No \_\_\_

There shall be four (4) shelves with a capacity of 500 lb provided.

The shelf construction shall consist of .188" aluminum painted spatter gray with 2.00" sides.

Yes \_\_\_  
No \_\_\_

Each shelf shall be infinitely adjustable by means of a threaded fastener, which slides in a track.

The shelves shall be held in place by .12" thick stamped plated brackets and bolts.

The location(s) shall be determined at a later date.

**180. AUXILIARY MECHANICAL SIREN**

Yes \_\_\_  
No \_\_\_

A Federal Q2B® siren shall be furnished. A siren brake button shall be installed on the switch panel and middle of dash.

The control solenoid shall be powered up after the emergency master switch is activated.

The mechanical siren shall be mounted on the front grille, partially recessed. The motor shall be mounted behind the front grille and shall include a reinforcement plate for mounting.

The mechanical siren shall be actuated by one (1) foot switches driver side button, one button (1) located on the officer's side location to be determined.

**181. REAR ZONE LOWER LIGHTING**

Yes \_\_\_  
No \_\_\_

There shall be two (2) Whelen®, Model M6\*\*, 4.31" high x 6.75" wide x 1.37" deep flashing LED warning lights with chrome trim located at the rear of the EMTU per the following:

- The left side rear warning light to include red LEDs
- The right side rear warning light to include red LEDs
- The warning light lens color(s) to be clear

There shall be a switch in the cab on the switch panel to control the lights.

**182. REAR/SIDE ZONE UPPER WARNING LIGHTS**

Yes \_\_\_  
No \_\_\_

There shall be two (2) Whelen®, Model L31H\*FN, LED warning beacons provided at the rear of the Patient Box, located one (1) each side. There shall be a switch located in the cab on the switch panel to control the beacons.

The color of the lights shall be red LEDs with both domes clear.

There shall be two (2) Whelen ION DUO LED flashing warning lights located on the rear of the EMTU. These lights shall activate with the rest of the EMTU warning lights. These lights shall alternate between red and amber when activated. Location of these lights shall be determined during preconstruction conference.



183. **DRY CHEMICAL EXTINGUISHER**

Yes \_\_\_  
No \_\_\_

NFPA 1901, 2016 edition, section 9.9.4 requires one (1) approved dry chemical portable fire extinguisher with a minimum 80-B:C rating mounted in a bracket fastened to the EMTU. There shall be installed in the cab of the chassis two (2) dry chemical fire extinguishers mounted inside the cab on a cab wall. The dry chemical fire extinguisher mounted in the patient compartment shall be a minimum of a 20 lb. extinguisher. The two (2) fire extinguishers mounted in the cab shall be no larger than 5 lb. fire extinguishers.

184. **COMPARTMENT INTERIOR PAINT**

Yes \_\_\_  
No \_\_\_

The interior of all compartments shall be painted with a gray spatter type paint.

185. **REFLECTIVE BAND**

Yes \_\_\_  
No \_\_\_

A 10.00" white reflective band shall be provided across the front of the vehicle and along the sides of the body.

The reflective band provided on the cab face shall be at the headlight level.

186. **CAB DOOR REFLECTIVE STRIPE**

Yes \_\_\_  
No \_\_\_

A 6.00" x 16.00" white reflective stripe shall be provided across the interior of each cab door. The stripe shall be located approximately 1.00" up from the bottom, on the door panel.

Yes \_\_\_  
No \_\_\_

This stripe shall meet the NFPA 1901 requirement.

187. **ONE (1) YEAR MATERIAL AND WORKMANSHIP**

Yes \_\_\_  
No \_\_\_

Each new piece of EMTU shall be provided with a minimum **one (1) year** basic EMTU material and workmanship limited warranty. The warranty shall cover such portions of the EMTU built by the manufacturer as being free from defects in material and workmanship that would arise under normal use and service.

A copy of the warranty certificate shall be submitted with the bid package (no exception).

188. **COMPARTMENT LIGHT WARRANTY**

Yes \_\_\_  
No \_\_\_

A ten (10) year material and workmanship limited warranty shall be provided for the Pierce 12 volt DC LED strip lights. The warranty shall

cover the LED strip lights to be free from defects in material and workmanship that would arise under normal use.

A copy of the warranty certificate shall be submitted with the bid package (no exception).

189. **RIGHT AND LEFT SIDE SCENE LIGHTS**

Yes \_\_\_  
No \_\_\_

There shall be installed two (2) Whalen 900 24-Diode LED scene lights. The scene lights shall be installed on the left side of the EMTU body. The exact location to be determined during the pre-build conference with the department.

There shall be two (2) Whalen 900 24-Diode LED scene lights. The scene lights shall be installed on the right side of the EMTU body. The exact location to be determined during the pre-build conference with the department.

Yes \_\_\_  
No \_\_\_

There shall be two (2) Whalen 900 24-Diode LED scene lights installed on the rear of the Patient Box directly above the patient entry doors.

Yes \_\_\_  
No \_\_\_

There shall be two (2) Whalen 900 24-Diode LED scene lights installed in the front of the Patient Box. The exact location to be determined during the pre-build conference with the department.

Yes \_\_\_  
No \_\_\_

190. **TEN (10) YEAR PRO-RATED PAINT AND CORROSION**

Yes \_\_\_  
No \_\_\_

Each new piece of EMTU shall be provided with a **ten (10) year** pro-rated paint and corrosion limited warranty on the EMTU body. The warranty shall cover painted exterior surfaces of the body to be free from blistering, peeling, corrosion, or any other adhesion defect caused by defective manufacturing methods or paint material selection that would arise under normal use and service.

A copy of the warranty certificate shall be submitted with the bid package (no exception).

191. **THREE (3) YEAR MATERIAL AND WORKMANSHIP**

Yes \_\_\_  
No \_\_\_

The gold leaf lamination shall be provided with a **three (3) year** material and workmanship limited warranty. The warranty shall cover the gold leaf lamination as being free from defects in material and workmanship that would arise under normal use and service.

A copy of the warranty certificate shall be submitted with the bid package (no exception).

192. **SEAT BELT ANCHOR STRENGTH**

Yes \_\_\_\_  
No \_\_\_\_

Seat belt attachment strength is regulated by Federal Motor Vehicle Safety Standards and should be validated through testing. Each seat belt anchor design shall withstand 3000 lb of pull on both the lap and shoulder belt in accordance with FMVSS 571.210 Seat Belt Assembly Anchorages. The bidder shall certify that each anchor design was pull tested to the required force and met the appropriate criteria.

193. **AMP DRAW REPORT**

Yes \_\_\_\_  
No \_\_\_\_

Prior to the acceptance of this unit, the unit with representatives from the Fire District and the deliver engineer shall take the unit to the Campbell County Training Center and the delivery engineer shall demonstrate that the pump meets the pump specifications and the discharge volumes as outlined in the specifications from draft. The bidder shall provide, at the time of bid and delivery, an itemized print out of the expected amp draw of the entire vehicle's electrical system.

The manufacturer of the EMTU shall provide the following:

- Documentation of the electrical system performance tests.
- A written load analysis, which shall include the following:
  - The nameplate rating of the alternator.
  - The alternator rating under the conditions specified per:
    - Applicable NFPA 1901 or 1906 (Current Edition).
  - The minimum continuous load of each component that is specified per:
    - Applicable NFPA 1901 or 1906 (Current Edition).
  - Additional loads that, when added to the minimum continuous load, determine the total connected load.
- Each individual intermittent load.

194. **CAB TO REAR PATIENT COMPARTMENT**

Yes \_\_\_\_  
No \_\_\_\_

This vehicle shall not be a walk through type vehicle, this shall be a type 1 vehicle with 4-wheel drive. There shall be windows in the two rear doors for patient entry and egress and there shall be a window in the curbside door. There shall be no windows in the patient box itself All windows shall be tinted and shall be able to be opened with screens.

195. There shall be a minimum of eight (8) LED dome lights in the patient compartment. The dome lights shall have both a high and low intensity setting as well as an on/off setting. The switch to control the lights shall be next to the attendant seat and shall come on with the opening of the patient doors to the rear of the unit or the curbside door.

The controls for the exhaust fan shall be at the attendant seat.

196. There shall be a 3-speed exhaust ventilation fan installed in the roof of the vehicle.

Yes \_\_\_  
No \_\_\_

197. There shall be four (4) 115 volt AC outlets installed in the patient compartment. The exact location for these outlets shall be determined at the preconstruction meeting. The outlets shall be of the ground fault type and shall run off of the vehicle inverter.

Yes \_\_\_  
No \_\_\_

198. There shall be a 21-quart trash container which shall be installed in the patient area.

Yes \_\_\_  
No \_\_\_

199. **HEAT AND AIR CONDITIONING MANUAL AUTOMATIC SELECT 5-SPEED BLOWER**

Yes \_\_\_  
No \_\_\_

There shall be a high capacity heater air conditioning system designed specifically for the patient compartment. This heater/air conditioning system shall be designed in such a way to have a minimum of five blower speeds and to be able to keep the patient compartment heated to a temperature of 70° in the winter when the outside temperature is -10°F for four consecutive hours. The air conditioning system in the vehicle shall be designed in such a way to maintain a constant temperature inside the patient compartment of 70° when parked in the sun with an outside air temperature of 100° for four consecutive hours. All controls for this air conditioning heating system shall be located in an area to be determined at the preconstruction bid meeting.

200. Bidder shall provide documentation within the bid proposal which verifies that all KKK-A-1822-F testing is current and certified by an independent engineering firm. The date of testing must appear on the documents.

Yes \_\_\_  
No \_\_\_

201. Manufacturer shall inspect and test all systems and electrical loads for federal specification KKK-A-1822-F section 4. Test results shall be documented and displayed in the oxygen compartment and/or supplied with the vehicle delivery handbook.

Yes \_\_\_  
No \_\_\_

202. A KKK-A-1822-F certification sticker, electrical load analysis sticker and payload sticker shall be installed in the oxygen compartment. Any deviation from KKK-A-1822-F shall be listed in the vehicle delivery packet with a notation on the certification sticker.

Yes \_\_\_  
No \_\_\_

**203. PRODUCT TESTING**

Ambulance Manufacturer's Division: The Bidder shall be a member in good standing with the National Truck Equipment Association (N.T.E.A.). The Bidder shall supply a letter with the bid response to verify current membership.

Yes \_\_\_  
No \_\_\_

**204. A.M.D. STANDARD 001: STATIC LOAD TEST**

A.M.D. 001 – Manufacturer's Body Structure Testing. The Emergency Medical Transport Unit described herein shall be tested to the National Truck Equipment Association Ambulance Division Standard 001-Static Load Test except the test weight shall be at least 2.5 times the test weight proposed by A.M.D. 001. The test results shall be certified by an independent testing laboratory. This certificate test results will be supplied with the bid.

Yes \_\_\_  
No \_\_\_

**205. KKK-A-1822 TESTING CERTIFICATION**

The Bidder shall provide documentation within this Bid Proposal which verifies that all KKK-A-1822-F testing is current and certified by an independent engineering firm. The date of testing must appear on the documents.

Yes \_\_\_  
No \_\_\_

**206. QUALITY ASSURANCE – SPECIFICATION COMPLIANCE**

The manufacturer shall inspect and test all systems and electrical loads for federal specification KKK-A-1822-F, Section 4. Test results shall be documented and displayed in the oxygen compartment and/or supplied with the vehicle delivery handbook.

Yes \_\_\_  
No \_\_\_

NOTE: THE PURCHASER WILL HAVE ZERO TOLERANCE TOWARDS BIDDER/VENDOR WHO STATE COMPLIANCE TO SPECIFICATIONS BUT DELIVERES AN INCOMPLETE PRODUCT AND/OR SUBSTANDARD MATERIAL AND WORKMANSHIP.

Yes \_\_\_  
No \_\_\_

A KKK-A-1822-F CERTIFICATION STICKER, ELECTRICAL LOAD ANALYSIS STICKER AND PAYLOAD STICKER SHALL BE INSTALLED IN THE OXYGEN COMPARTMENT. ANY DEVIATION FROM KKK-A-1820-F SHALL BE LISTED IN THE VEHICLE DELIVERY PACKET WITH A NOTIFICATION ON THE CERTIFICATION STICKER.

Yes \_\_\_  
No \_\_\_

**207. COMPARTMENTS – [INTERIOR]**

Yes \_\_\_  
No \_\_\_

All interior compartments that have vertical edges shall have rounded corners in all locations. The purpose of the rounded corners is to minimize injury.

**208. EMERGENCY LIGHTS RIGHT AND LEFT SIDE OF VEHICLE**

Yes \_\_\_  
No \_\_\_

The successful bidders shall install three Whelen Super LED Warning Lights Red on the right side of the vehicle and box and on the left side of the vehicle and box. The lights will be located in approximately the same location on both sides. The front one will be mounted on the wraparound section of the front bumper. The second one will be mounted as far forward on the patient box as low as possible and the third will be mounted on the patient box on the left side as far to the rear and as low as possible. All three lights should be at approximately the same height, the lights shall be installed at the same height and the same location on the right side of the unit.

**209. DECONTAMINATION**

Yes \_\_\_  
No \_\_\_

The interior of the vehicle cab and the patient compartment shall be constructed in such a way that in the event it becomes contaminated from any chemical biological substance, it may be decontaminated without the necessity of removing and replacing any of the compartments or equipment within that interior space.

**210. ENGINE BLOCK HEATER – SHORELINE SUPPLIED AND SWITCHED**

Yes \_\_\_  
No \_\_\_

An engine block heater shall be electrically tied to the unit shoreline. There shall be a summer/winter switch consisting of a 15 amp toggle circuit breaker located in the power distribution quarters to disable the

block heater in warm weather conditions.

**211. LIGHT HANDHELD SPOTLIGHT**

Yes \_\_\_  
No \_\_\_

Provision shall be made for one (1) twelve volt number KB-403 handheld spotlight with a 400,000 candle power blue-eyed bulb 10 ft. coil cord and switch. The spotlight shall be hardwired a vac form spotlight holder shall be shipped loose.

**212. SWEEP OUT COMPARTMENTS**

Yes \_\_\_  
No \_\_\_

Exterior module compartments shall be of the sweep out designed to aid in facilitation of the purchaser's routine care and cleaning of the unit. All exterior compartment floors with the exception of the front ALS compartment shall be constructed to be flush with bottom of the door frame.

**213. EXTERIOR COMPARTMENT LIGHTING**

Yes \_\_\_  
No \_\_\_

The compartment lighting for the exterior compartments shall consist of LED lighting strips. Strips of LED lights shall be installed on each side of the compartment opening, on the inside of the doorjamb and shall direct the lighting into the compartments. These light strips shall fit securely into clips installed in this location. These strips shall be semi-rigid. The lighting shall be sufficient to fully light the compartment. Where a compartment has shelving, there shall be sufficient strips to fully illuminate above and below the shelving.

**214. LIGHTS, ICC-OEM CHASSIS CAB**

Yes \_\_\_  
No \_\_\_

The cab of the chassis shall be equipped with federally-regulated ICC lights as installed by the chassis manufacturer.

If the chassis does not come standard with ICC lights installed on the cab, then the lights shall be installed on top of the light bar mounted on the modular box.

**215. EQUIPMENT TO BE INSTALLED INSIDE THE PATIENT COMPARTMENT**

Yes \_\_\_  
No \_\_\_

216. There shall be installed inside the patient compartment (the exact location to be determined during the pre-build construction meeting) at least two Ohio Med oxygen outlets and oxygen bypass.

There shall be a minimum of at least two compartments that are accessible from both inside the patient box and from an outside compartment in addition to the four other compartments already listed in the specification.

**217. SUCTION CANISTER 1200 c.c.**

Yes \_\_\_  
No \_\_\_

There shall be a suction canister installed in the patient compartment at a location to be designated during the pre-construction conference.

**218. SUCTION CONTROL/125 VOLT OUTLET/12 VOLT DC OUTLET, DUAL USB PORT**

Yes \_\_\_  
No \_\_\_

A minimum of four 125 Volt Outlets. At least two mounted to the ceiling IV hooks. Inside the patient compartment there shall be a minimum of four compartments for the storage of medical supplies and one locking storage container for medical drugs. The exact location and dimensions of the compartments shall be determined at the pre-build construction meeting.

There shall be a sharps container located inside the patient compartment. It shall be recessed and designed in such a way to avoid accidental sticks.

**219. PATIENT COMPARTMENT CURB SIDE SEAT**

Yes \_\_\_  
No \_\_\_

There shall be installed on the curb side in the patient compartment a seat. The seat shall be on a track so it can move forward and backward in the space provided. It shall have the appropriate seatbelts to protect the person in the seat should there be an accident.

**220. COMPARTMENT ON THE CURB SIDE INTERIOR PATIENT COMPARTMENT**

Yes \_\_\_  
No \_\_\_

There shall be installed on the curb side immediately to the left of the entry way door a compartment with at least two sliding drawers. The drawers shall slide towards the chair that is located in that area.



**221. EMTU COT**

Yes \_\_\_\_  
No \_\_\_\_

The unit shall be equipped at the time of delivery with a Stryker Power-Pro-2 ambulance cot Model Number 6507. The cot shall have at least one extra battery pack and battery charger.

The vehicle shall also be provided with a Stryker Power Load Lift System to put the cot in and out of the patient compartment. The combination unit shall be an SAE J3027 crash compliant system. The cot shall have 700 pound maximum unassisted lift capacity.

The cot shall be equipped with a bracket to hold one "D" size O2 cylinder.

The cot shall be equipped with a black storage net attached to the head of the cot.

**222. IV HOOKS**

Yes \_\_\_\_  
No \_\_\_\_

Two IV hooks shall be installed in the patient box ceiling. The exact location to be determined at the pre-build meeting.

**223. IN PATIENT ELECTRONIC CONTROL UNITS**

Yes \_\_\_\_  
No \_\_\_\_

There shall be installed in the patient compartment, one on each side of the patient compartment, a control panel to activate all necessary electronic equipment inside the patient box. This includes lighting, HVAC system inverter, ventilation system, and all other electronic devices wired in the unit.

**224. CABINET MOUNTING BRACKET**

Yes \_\_\_\_  
No \_\_\_\_

There shall be installed in the top of the cabinet inside the patient compartment at the head of the seat located on the curb side of the patient box a mounting bracket permanently attached for a Life Pack 15 Unit.

**225. MED VAULT**

Yes \_\_\_\_  
No \_\_\_\_

There shall be installed in the patient box at a location to be determined at the pre-build meeting a Knox Med Vault No. 5500 Unit.

**226. KNOX BOX**

Yes \_\_\_\_  
No \_\_\_\_

There shall be installed in the cab of the unit a Knox Key Secure Box #5 Dual Key Unit. The exact location to be determined at the pre-build meeting.

**227. CAB GLOVE HOLDER**

Yes \_\_\_

No \_\_\_

There shall be installed in the cab of the chassis a holder that will hold one box of medical gloves, for each size small, medium and large.

**228. PATIENT COMPARTMENT GLOVE HOLDER**

Yes \_\_\_

No \_\_\_

There shall be installed in the patient compartment directly above the access door on the curb side of the box a holder that will hold one box of each size medical gloves, small, medium and large.

**229. PATIENT COMPARTMENT**

There shall be installed in the patient compartment on both the curbside and the street side of the compartment a Sharps Container.

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**MANUFACTURER & MODEL****STANDARD****OPTIONAL****COST**

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**QUESTIONNAIRE FOR AMBULANCE**

NUMBER OF WORKING DAYS TO DELIVER THIS VEHICLE AFTER BID IS ACCEPTED:  
\_\_\_\_\_ working days from \_\_\_\_\_ date to delivery.

**MANUFACTURER MODEL NO.**

CHASSIS AND CAB – MODEL YEAR \_\_\_\_\_

BODY \_\_\_\_\_

ENGINE \_\_\_\_\_

TRANSMISSION \_\_\_\_\_

FRONT AXLE \_\_\_\_\_

REAR AXLE \_\_\_\_\_

BRAKE SYSTEM \_\_\_\_\_

BRAKE PIGGYBACKK UNITS \_\_\_\_\_

STEERING GEAR \_\_\_\_\_

**ENGINE**

Number of Cylinders \_\_\_\_\_

Displacement, cu. in. \_\_\_\_\_

Rated \_\_\_\_\_ H.P. @ \_\_\_\_\_ R.P.M.

Max. Governed Engine Speed at: Full Load \_\_\_\_\_ R.P.M.

No Load \_\_\_\_\_ R.P.M.

Recommended Idle Speed \_\_\_\_\_ R.P.M.

Fuel Tank Capacity \_\_\_\_\_ gal.

**TRANSMISSION**

Gear Ratios to 1: 1<sup>st</sup> \_\_\_\_\_ 2<sup>nd</sup> \_\_\_\_\_ 3<sup>rd</sup> \_\_\_\_\_ 6<sup>th</sup> \_\_\_\_\_

4<sup>th</sup> \_\_\_\_\_ 5<sup>th</sup> \_\_\_\_\_ 7<sup>th</sup> \_\_\_\_\_

8<sup>th</sup> \_\_\_\_\_

Additional \_\_\_\_\_ Reverse \_\_\_\_\_

REAR AXLE RATIO  
\_\_\_\_\_ TO 1

FRONT AXLE RATIO  
\_\_\_\_\_ TO 1

**TIRE, SIZE AND PLYS**

\_\_\_\_\_

**FRAME**

Behind Cab, Section – Modules \_\_\_\_\_

**BRAKES**

Effective lining area, square inches: TOTAL FRONT AXLE \_\_\_\_\_

TOTAL REAR AXLE \_\_\_\_\_

**STEERING**

Entire Unit, Enclosed Wall Turning Circle Diameter:

Right \_\_\_\_\_ Left \_\_\_\_\_

Entire Unit – Diameter of Inside Wall Turning Circle:

Right \_\_\_\_\_ Left \_\_\_\_\_

Number of Turns to Turn Front Wheels 60 Degrees: \_\_\_\_\_

Vendor where complete stock of repair parts are maintained:

Name	Address	Value of Stock
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**EXTERIOR CABINET DIMENSIONS**

**Outside Storage #1:**

Height: \_\_\_\_\_ Width: \_\_\_\_\_

Clear Door Opening:

Height: \_\_\_\_\_ Width: \_\_\_\_\_ Depth: \_\_\_\_\_

**Outside Storage #2:**

Height: \_\_\_\_\_ Width: \_\_\_\_\_

Clear Door Opening:

Height: \_\_\_\_\_ Width: \_\_\_\_\_ Depth: \_\_\_\_\_

**Outside Storage #3:**

Height: \_\_\_\_\_ Width: \_\_\_\_\_

Clear Door Opening:

Height: \_\_\_\_\_ Width: \_\_\_\_\_ Depth: \_\_\_\_\_

**Outside Storage #4:**

Height: \_\_\_\_\_ Width: \_\_\_\_\_

Clear Door Opening:

Height: \_\_\_\_\_ Width: \_\_\_\_\_ Depth: \_\_\_\_\_

**Outside Storage #5:**

Height: \_\_\_\_\_ Width: \_\_\_\_\_

Clear Door Opening:

Height: \_\_\_\_\_ Width: \_\_\_\_\_ Depth: \_\_\_\_\_

**INTERIOR COMPARTMENTS:**

Cabinet 1:

Height: \_\_\_\_\_ Width Back: \_\_\_\_\_

Interior Dimension: \_\_\_\_\_ Depth: \_\_\_\_\_

Cabinet 2:

Height: \_\_\_\_\_ Width Back: \_\_\_\_\_

Interior Dimension: \_\_\_\_\_ Depth: \_\_\_\_\_

Cabinet 3:

Height: \_\_\_\_\_ Width Back: \_\_\_\_\_

Interior Dimension: \_\_\_\_\_ Depth: \_\_\_\_\_

Cabinet 4:

Height: \_\_\_\_\_ Width Back: \_\_\_\_\_

Interior Dimension: \_\_\_\_\_ Depth: \_\_\_\_\_

Cabinet 5:

Height: \_\_\_\_\_ Width Back: \_\_\_\_\_

Interior Dimension: \_\_\_\_\_ Depth: \_\_\_\_\_

Cabinet 6:

Height: \_\_\_\_\_ Width Back: \_\_\_\_\_

Interior Dimension: \_\_\_\_\_ Depth: \_\_\_\_\_

The Bidder will specify the fitness of all metals used in all locations. The Bidder will specify the type of metals used in all locations, if it differs from the answer above.