

City of O'Fallon E.M.S. Ford F-550 Type 1 Modular Ambulance Bid Specifications

INSTRUCTIONS TO BIDDERS

1. DEFINED TERMS

The term "Successful Bidder" means the lowest, qualified responsible and responsive bidder to whom this buyer (on the basis of this departments evaluation as hereinafter provided) makes an award.

The term "This Department" will mean _____ City of O'Fallon E.M.S. _____

2. COPIES OF BIDDING DOCUMENTS

Complete sets of Bidding Documents may be obtained from the location stipulated in the advertisement for bids.

Complete sets of Bidding Documents shall be used in preparing Bids; this department assumes no responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bidding Documents.

3. EXAMINATION OF BIDDING DOCUMENTS

Before submitting a Bid, each Bidder must (a) examine the Bidding Documents thoroughly, (b) become familiarized with the type of equipment requested, and (c) understand all federal and state laws regulating the manufacturing and/or performance of the equipment.

The submission of a bid will constitute an incontrovertible representation by the Bidder that they have complied with every requirement of this document and that the Bidding Documents are sufficient in scope and detail to indicate and convey understanding of all terms and conditions for providing the equipment.

4. INTERPRETATION

All questions about the meaning or intent of the Bidding Documents shall be submitted to this department in writing. Replies will be issued by Addenda mailed or delivered to all parties recorded by this department as having received the Bidding Documents. Questions received less than five (5) days prior to the date for opening of bids will not be answered. Only questions answered by formal written Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect.

5. BID SUBMISSION

The specifications supplied represent a compilation of input from various disciplines affected, including the crews, maintenance personnel, supervisory and management personnel who are affected by the vehicles layout and performance.

The configuration and construction specified has taken into consideration both the safety of the crews and patient and also the workability based on working experiences of our personnel and experts in the field.

When submitting your bid proposal, Bidders **must return** all pages of this specification, including the instruction pages, with all lines answered as a part of your proposal.

Within your proposal package shall be a tab labeled "customer bid specifications", and all pages of this bid package shall be contained within that tab.

Caution should be taken by all bidders that all questions are answered in the spaces provided and that all information requested is submitted with the bid proposal.

Failure to return all the pages or to not answer all questions could result in your bid being rejected for non-compliance without any further review.

NO EXCEPTIONS TO PARAGRAPH #5 ABOVE.

A bid deposit or bid bond will not be required.

6. BID FORM

The bid form is attached hereto; additional copies may be made by each vendor. Bid forms must be completed in ink or by typewriter. The bid price of each item on the form must be stated clearly. The bid form must be executed and signed by an official of the Contractor's firm, whose title must appear under the signature; the official address of the Contractor's principle place of business must be shown on the form. All names must be typed or printed below the signature.

The phone number of the person executing the bid document must be provided on the bid form. The bid form shall contain an acknowledgment of receipt of any and all Addenda if applicable. (the number of which shall be filled in on the bid form).

7. SUBMISSION OF BIDS

Bids shall be submitted at the time and place indicated in the Advertisement for Bids and shall be included in a sealed envelope, marked with the name and address of the Bidder and accompanied by any other required documents. If the Bid is sent through the mail or other delivery system it must be received by the time and date specified, the sealed envelope shall have the notation "O'FALLON EMS AMBULANCE BID" on the face thereof.

8. MODIFICATION AND WITHDRAWAL OF BIDS

Bids may be modified or withdrawn by an appropriate document duly executed (in the manner that a Bid must be executed) and delivered to the place where Bids are to be submitted at any time prior to the opening of Bids.

9. OPENING OF BIDS

Bids will be opened publicly, read aloud, and an abstract of the amounts of the base Bids and major alternates (if any) will be made available within no more than three working days after the opening of Bids.

10. BIDS TO REMAIN OPEN

All Bids shall remain open for Thirty days after the day of the Bid opening, but this department may, in its sole discretion, release any Bid and return the Bid Security prior to that date.

11. AWARD OF CONTRACT

This department reserves the right to reject any and all Bids, to waive any and all informalities and to negotiate contract terms with the Successful Bidder, and the right to disregard all nonconforming, nonresponsive or conditional Bids. Discrepancies between words and figures will be resolved in favor of words. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum.

In evaluating Bids, this department shall consider the qualifications of the Bidders, past history with a vendor, whether or not the Bids comply with the prescribed requirements, and alternates, if requested, in the Bid forms. This department reserves the right to evaluate and approve or reject any alternates requested by the Bidder either individually or wholly.

This department may consider the qualifications and experience of Subcontractors and other persons and organizations (Including those who are to furnish the principal items of material or equipment) proposed for those portions of the work as to which the identity of Subcontractors and other persons and organizations must be submitted as provided in the Supplementary Conditions. Operating cost, maintenance considerations, performance data and guarantees of materials and equipment may also be considered by this department.

This department may conduct such investigations as this department deems necessary to assist in the evaluation of any Bid and to establish the responsibility, qualifications and financial ability of the Bidders, proposed Subcontractors and other persons and organizations to do the work in accordance with the Contract Documents to this department's satisfaction within the prescribed time.

This department reserves the right to reject the Bid of any Bidder who does not pass any such evaluation to this department's satisfaction.

If the contract is to be awarded, it will be awarded to the lowest Bidder whose evaluation by this department indicates that the award will be in the best interests of the project not necessarily the absolute lowest price.

If the contract is to be awarded, this department will give the Successful Bidder a Notice of Award within no more than Thirty days after the day of the Bid opening.

12. CONTROL OF INCONSISTENCIES

In the event of any inconsistency between the Specifications and any other document herein referred to, said specifications shall control unless modified by a specific reference appearing in the Contract. The Contractor's Proposal is to be considered a binding Agreement only insofar as it is consistent with the bidding documents.

13. TERMS OF PAYMENT

This department, in consideration of the undertaking of the Bidder and the faithful performance of the specified service, agrees to pay the Bidder the stipulated price(s) within 30 days after the submission of proper invoices and upon acceptance of the vehicle by this agency unless otherwise specified in bid vendors bid proposal.

14. CANCELLATION OF CONTRACT

In the event that the Contractor fails to provide the services as specified in these documents and in the purchase order or within the time specified, this department reserves the right to cancel the contract with this department having no financial obligation to the Contractor.

15. REGULATORY COMPLIANCE:

This specification covers a new emergency medical care vehicle that is to be built in basic compliance with all the ambulance design criteria of the following:

- National Highway Traffic Administration
- U.S. Department of Transportation
- The most current version of the Federal Ambulance Procurement Document KKK-A-1822 including CHANGE 8 effective July 1, 2015
- State of Illinois ambulance requirements including state licensing requirements.
- National Institute of Occupational Safety & Health (NIOSH)
- Federal Motor Vehicle Safety Standards (FMVSS)

The manufacturer/dealer will be selected based upon industry reputation with a proven track record for providing a quality product and after sale follow up service. Stability of the selected vendor is of the utmost importance. Each bidder shall furnish satisfactory evidence of their ability not only to design, engineer, and construct the ambulance as specified, but shall also have substantial service capabilities to provide both warranty and non warranty service on all components of the vehicle after the sale. Particular attention shall be given to any and all items affecting the cost of operating and maintaining the ambulance on a daily basis.

This department shall be the sole judge of quality, expertise and compliance with stated requirements and reserves the right to reject any and/or all bids and select the BEST bid which meets the needs of this department. This **may not be the lowest bid**, but rather the lowest BEST bid in the opinion of this department. Quality and workmanship will be the single most deciding factor in the award of the bid.

The successful bidder shall have both a business license and a motor vehicle license in the state in which they are based, as well as appropriate insurances as required within the bid specification. A copy of the vendor's business license, states motor vehicle dealers' license, garage keeper's liability insurance, as well as other required insurances must accompany the bid proposal. Failure to supply any of the required documentation will result in bid rejection.

ALL OF THE FOLLOWING PARAGRAPHS MUST BE ANSWERED

16. SINGLE SOURCE MANUFACTURER

Comply: YES ___ No ___

One concern with the purchase of a major custom design ambulance is the availability of parts, service and handling of warranty after delivery. The ambulance manufacturer shall therefore be the single sole source for the design and construction of the entire ambulance conversion other than the chassis. This is not proprietary as nearly all reputable ambulance builders meet this criteria

We have many legal and liability concerns about buying from a builder who does not construct the entire vehicle but subcontracts portions out to other vendors. Among these concerns are the following.

- 1 Legal Warranty and Certification issues of a body that is not built by the second stage ambulance manufacturer.
- 2 The question of testing of a body that the second stage ambulance manufacturer did not construct.
- 3 The possibility of loss of availability of parts and warranty if the sub-contracted vendor either goes out of business or quits building for the second stage ambulance manufacturer.
- 4 Corrosion and Paint warranty issues when dealing with an aluminum body that was not constructed by the second stage ambulance manufacturer.
- 5 Corrosion and Paint issues as well as warranty issues with a Body that is not painted by the second stage ambulance manufacturer.
- 6 The viability and legality of product liability insurance by the second stage ambulance manufacturer covering a body not built by them.
- 7 Issues of fit and finish of parts being built by a contractor to be installed in the ambulance being finished by the second stage ambulance manufacturer. Particularly cabinets and trim.

17. QUALITY & WORKMANSHIP

Comply: YES ___ No ___

The quality and workmanship shall incorporate a structurally strong totally seam welded seamless aluminum body, the body shall be capable of being remounted at least once prior to being disposed of or traded in on a new vehicle.

17-A REMOUNT FACILITY

Comply: YES ___ No ___

Does the ambulance manufacturer have their own in house remount facility designed and operational specifically for the remounting of their ambulance bodies.

17-B CAD DRAWINGS REQUIRED

Comply: YES ___ No ___

Each Bidder MUST include two (2) full detailed sets of CAD drawings of the vehicle being bid so that we can get an idea of what each bidder is proposing.

They shall include drawings of both exterior sides, front, and rear exterior and the interior from left, right, front, and rear views as well as floor and ceiling views.

18. EXCEPTIONS TO SPECIFICATIONS-A

Comply: YES ___ No ___

Any exception taken to any paragraph in these specifications must be CLEARLY MARKED on the paragraph by checking "NO" in the compliance statement for that particular section. Bidders must furnish any and all information requested within these specifications and must mark all spaces provided on these pages. Compliance questions and specification paragraphs which have compliant – non compliant spaces must be answered. None may be left blank.

EXCEPTIONS TO SPECIFICATIONS-B

Comply: YES _____ No _____

All exceptions taken must be noted on a separate sheet of paper attached to the bid proposal clearly marked as EXCEPTIONS TO SPECIFICATIONS. Each exception must reference the page number and identify the subject to which the exception, clarification or deviation is taken. Bidders who do not construct a fully welded seamless body **may take complete exception to the body design ONLY**, but they must check each area of the body design specification as NON COMPLIANT, and then submit an exception page which clearly spells out, in their opinion, how their body is built and how and why it would meet the intent of our specification.

POSITIVELY NO EXCEPTIONS TO ANY LINE IN ABOVE PARAGRAPH # 18 A or B

19. REFERENCES

Comply: YES _____ No _____

Each bidder shall supply with his/her bid a list of at least 5 references for us to contact randomly, who have vehicles of the same or a comparable similar model as that which is being bid. This reference list shall include the name of the district, their address and phone number and a contact name.

20. ADDITIONAL DOCUMENTATION

Comply: YES _____ No _____

The Following Documents shall be supplied by each bidder as part of his/her bid package **without exception**.

- 1 Manufacturers Ford QVM Membership Certificate, Up to date.
- 2 Certificate of membership by the manufacturer in the AMD, Up to date.
- 3 Copies of appropriate Insurance Certificate showing coverage by the manufacturer.
- 4 Copies of Warranties by the Manufacturer covering their product for structural, electrical, standard conversion, paint and corrosion.
- 5 Copy of Current State Motor Vehicle License for the bidding dealer.
- 6 Copy of Insurance Certificate with current date of coverage for the bidding dealer.
- 7 Copy of Manufacturers Current KKK-A-1822-F certification from an independent source for the chassis and body being built.

Does both the bidding dealer and manufacturer agree to abide by these requirements

YES _____ NO _____

20-A EQUAL OPPORTUNITY

Comply: YES ___ No ___

The successful bidder and manufacturer agrees to comply with all federal and state statutes relating to nondiscrimination. These Include but are not limited to

- Title VI of the civil rights act of 1964
- Title IX of the Education Amendments of 1972
- Section 504 of the Rehabilitation Act of 1973
- Age discrimination Act of 1974
- Drug abuse Office and Treatment Act of 1972
- The comprehensive Alcohol Abuse and Alcoholism prevention Act of 1970
- Sections 523 and 527 of the Public Health Service Act of 1912
- Title VII of the Civil Rgihts Act of 1968
- Any other nondiscrimination provisions of any state or federal statutes

Does both the bidding dealer and manufacturer agree to abide by these requirements

YES ___ NO ___

20-B DRUG FREE WORK PLACE

Both the bidding dealer and the manufacturer shall conduct business as a Drug Free Workplace. Both vendors above shall provide their employees with a written notice of such a work place environment and a policy stating such.

Does both the bidding dealer and manufacturer agree to abide by these requirements

YES ___ NO ___

20-C CERTIFICATION TESTS REQUIRED OF BUILDER

Performance and Operational tests shall be conducted for the type vehicle being bid by each builder that is represented in a bid package. That testing documentation shall include proof of certification to each of the A.M.D. standards that appear in the KKK specifications. These include but are not limited to A.M.D. 001 thru A.M.D. 024

Does both the bidding dealer and manufacturer agree to abide by these requirements

YES ___ NO ___

In particular, we are VERY Concerned about the compliance with A.M.D. 025 along with NIOSH recommendations that require certain minimum requirements for Occupant head clearance and head strike zones within ALL areas of the ambulance as specified.

Does both the bidding dealer and manufacturer agree to abide by these requirements

YES ___ NO ___

20-D CRASHWORTHINESS AND STRUCTURAL INTEGRITY

The safety of our crews and patients is of the utmost importance to us and is a very important feature within these specifications. Numerous areas of the specification specify the materials and methods of construction to be used which we have found to be vital in the safety design and structural integrity of the construction of this vehicle. Some of these specifications may limit the number of builders who can comply, however they are not totally proprietary and the safety and longevity that those portions of the specification provide us with is worth the limiting of vendors who can comply. Those who can't meet the specifications still have the opportunity to take exception and describe how they feel they can offer a similar safety design with their construction techniques. It will then be determined by this department as to whether or not that design will meet our safety design criteria.

Does both the bidding dealer and manufacturer agree to abide by these requirements

YES ____ NO ____

In addition to meeting the specifications attached, each bidder shall supply one of the two (2) following options to provide proof of the safety design and structural integrity of the modular body they are proposing.

PLEASE CIRCLE IN HEAVY INK THE OPTION WHICH YOU CHOOSE

- A) Crashworthiness of vehicle to be shown thru the crash testing of a fully finished modular body mounted on a certifiable chassis. The crash test must be done from **both** a side impact and a rear impact at speeds of no less than 40 m.p.h.
- B) Provide a host of color photographs of an in service vehicle that was utilizing your latest design modular body that was involved in a documented vehicle accident, one from a side impact and one from a rear impact which was at speeds of greater than 40 m.p.h. The color photos shall show several different interior and exterior shots of the vehicle right after the accident. In addition a letter describing in detail the circumstances of the accident shall be provided.
Again, there MUST be **BOTH** side and rear accidents shown.

These photos and the stories shall be in separate tab within the bid proposal labeled "**Crashworthiness**". NO EXCEPTIONS

Does both the bidding dealer and manufacturer agree to abide by these requirements

YES ____ NO ____

Crash simulations, acceleration testing, sled testing or other theoretical testing is insufficient as none of these show a dynamic impact of two vehicles in real life.

There is no way to document structural damage in a theoretical situation.

Does both the bidding dealer and manufacturer agree to abide by these requirements

YES ____ NO ____

20-E COMPLIANCE WITH SPECIFICATION INSPECTION / DELIVERY

A final inspection will take place at the ambulance manufacturer’s facility prior to shipment of the vehicle to this department to assure total compliance with the bid specifications as written. This inspection shall be done by department personnel in compliance with this bid specification instructions and shall any discrepancies by found, the manufacturer will be given up to 24 hours to correct the problem or discrepancy before this departments personnel shall be sent home at the bidders expense.

Once the problem is corrected, the vehicle will again be inspected at bidders expense prior to shipment to this department.

Does both the bidding dealer and manufacturer agree to abide by these requirements

YES ____ NO ____

At Delivery the vehicle shall have a FULL TANK OF FUEL and full tank of D.E.F. (if applicable) and all fluids will be topped off.

At time of delivery, this department will be supplied with the following items:

- 1. Chassis M.S.O.
- 2. Modular Body Certificate of Origin for incomplete vehicle.
- 3. Bill of Sale
- 4. Complete Owner’s Manual, one on a computer thumb drive.
- 5. Complete set of Electrical Schematics for this vehicle.
One on a Thumb Drive.
- 6. Instructions on how to apply for delayed warranty from Ford

21. Warranty

- 1 20 Year Renewable warranty on the aluminum body
YES _____ **NO** _____
- 2 10 years or 100,000 thousand miles on the electrical system
YES _____ **NO** _____
- 3 5 years or 100,000 miles on Paint NON PRORATED
YES _____ **NO** _____
- 5 years or 100,000 miles against Corrosion. NON PRORATED
YES _____ **NO** _____
- 4 3 years or 36,000 miles on standard conversion which matches most chassis basic conversion warranties.
YES _____ **NO** _____

22. PRE BUILD MEETING AND INSPECTION TRIPS **Comply: YES**____ **No** ____

A Pre-build meeting and Two (2) inspection trips for three (3) members of this Department along with the sales representative shall be provided at the bidder's expense (including travel, meals, and lodging) at the factory where the ambulance is to be built. Inspection trips shall be as follows:

- Pre-Construction meeting at the manufacturing site, specifications will be reviewed in their entirety so necessary clarifications can be made to any part of the specification, options and materials, construction techniques, electrical systems, and etcetera may be reviewed by production staff as well as our personal.
- Mid-point inspection at the approximate time cabinets are being installed
- Final acceptance inspection shall take place when the vehicle is finished, but prior to delivery to this department.

If distance to the factory is greater than 250 miles, then transportation shall be by commercial aircraft.

22-A. ORDER REVIEW AND CONTRACT PROCESS **Comply: YES**____ **No** ____

The successful bidder shall provide within 10 calendar days or less after the pre-build meeting, a work order, CAD Drawings and a contract for this departments approval. Once all data is approved and signed, production may will begin on the ambulance.

23. DELIVERY **Comply: YES**____ **No** ____

Delivery is not a major factor in the award of the bid, however as an industry standard at this time, this department is requesting that all work must be satisfactorily completed within 30 months or less after the signing of the contract and receipt of the chassis by the Ambulance Manufacturer.

SPECIAL PROVISIONS

24. INTERRUPTION IN WORK PROGRESS Comply: YES ___ No ___

Once the Contractor has started the work he shall continue without interruption until completed. He shall not be allowed to leave the project for another project or contract. The only allowable interruptions are equipment breakdown, inclement weather conditions, labor strike, or other factors beyond the control of the Contractor. If an interruption in progress is necessary, the Contractor must first inform this Department of the intended interruption. Failure to comply with this provision will be considered by this Department to be a breach of contract on the part of the Contractor and may result in a cancellation of such contract.

25. QUALIFICATIONS OF BIDDERS Comply: YES ___ No ___

No proposal will be considered from any bidder unless he is known to be skilled in work of a similar nature to that covered by the contract, and has sufficient capital to meet all obligations to be incurred in carrying out the work. In addition, the Contractor shall be able to provide conclusively that he has the following:

**A ten (10) years experience in the emergency ambulance building business.
This is (10) continuous years under the same name and ownership.**

Does your manufacturer qualify under the above requirement YES ___ NO ___

26. AMERICAN BUILT Comply: YES ___ No ___

**BUILDER MUST, WITH NO EXCEPTIONS, BUILD THE COMPLETE AMBULANCE BODY
CONVERSION WITHIN THE CONTINENTAL UNITED STATES.
WE WILL NOT ACCEPT BIDS FROM A FOREIGN BUILDER.
IN ADDITION, THE MANUFACTURER MUST BE 100% AMERICAN OWNED.**

27. DELETED

28. ALTERATION OF THE WORK Comply: YES ___ No ___

This Department reserves the right to increase or decrease the quantity of the work originally contemplated in the contract. Regardless of the final scope of the contract, payment to the contractor will be made on the basis of unit prices stated in the contract.

29. RESPONSIBILITY FOR DAMAGE CLAIMS Comply: YES ___ No ___

The Contractor, as a condition of the contract, hereby agrees to defend, indemnify and save harmless this Department, its officers, agents, servants and employees against and from all suits, losses, demands, payments, actions, recoveries, judgments and costs of every kind and description, and from all damages to which this Department or any of its officers, agents, servants and employees may be subject to be reason of injury to the person or property of others resulting from the performance of the contract, or through any improper or defective machinery, implements or appliances used by the Contractor on the project, or through any act or omission on the part of the Contractor or his agents, employees, or sub-contractors; and he shall further defend, indemnify and save harmless this Department, its officers, agents, servants and employees from all suits and actions of any kind or character whatsoever, which may be brought or instituted by any sub-contractor, material supplier or worker who has performed work or furnished materials in or about the project or by, or on account of, any claims or amount recovered for an infringement of any patent, trademark or copyright.

30. CONTRACTOR'S BOND(S) (If Required) Comply: YES ___ No ___

Upon the award of a contract, the successful bidder may be required to furnish to this Department a satisfactory performance and payment bond/bonds for the FULL AMOUNT OF THE CONTRACT. If required the Bonds must be secured by a surety company acceptable to this Department, conditioned upon the faithful performance of all covenants and stipulations under this contract. The amount of the bond/bonds shall be for the full amount of the contract. If a vendor has not done business with the City before you will be required to obtain a performance bond.

31. WORKMAN'S COMPENSATION INSURANCE Comply: YES ___ No ___

Before beginning the work, the Contractor shall furnish to this Department satisfactory proof that he has taken out for the period covered by the work under this contract, full compensation insurance for all persons whom he may employ in carrying out the work contemplated under this contract. Such insurance shall be maintained in full force and effect during the period covered by this contract, and shall hold this Department free and harmless for all personal injuries of all persons whom the Contractor may employ.

32. NOTIFICATIONS OF SURETY OR INSURANCE COMPANIES YES ___ NO ___

The surety companies and other signers of any of the bonds listed above, and all insurance companies, shall familiarize themselves with all of the conditions and provisions of this contract, and shall waive the right of special notification of any change or modification of this contract or of extension of time, or of decreased or increased work, or of the cancellation of the contract, or of any other acts by the City of O'Fallon or its authorized employees and agents under the terms of this contract. Failure to so notify the aforesaid surety companies or insurance companies of changes shall in no way relieve the surety companies or insurance companies of their obligation under this contract

33. SERVICE REQUIREMENTS: Comply: YES ___ No ___

Each bidder shall supply, with their proposal, detailed information on their ability to perform routine and emergency repair service on the vehicle after delivery. Detailed information shall be provided on the service facilities, training of the personnel and the nature of repair work that can be provided at each facility. The bidder shall state in approximate, BUT ACCURATE the number of miles from this agency to the nearest full service fully staffed repair facility.

Location of full service repair facility: _____

Approximate Miles from this Department: _____

List what services can be provided at this facility: _____

Does the Bidder or Builder have a complete Full Service Facility
Capable of working on every aspect of the ambulance including
HVAC, Electrical, Body and Cabinetry work Paint and Remounting
Located within approximate 100 mile radius of this department? YES _____ NO _____

Can Welding repairs of the aluminum body be performed there? YES _____ NO _____

34. BIDDERS NOTE FOR TAKING EXCEPTIONS TO ANY AREA OF THE BID:

The specifications drawn by this department and put forth in this document is based on ambulance vehicles we have reviewed and on past history of the product we now have. We are very concerned with product reliability, safety and construction that will last and availability of service and repair.

Therefore if your product does not meet our specification in any area or any paragraph, simply take exception to that paragraph as honestly as you can and tell us in writing why you can't meet that section and what you propose in its place. Our Department Staff will take your exceptions into consideration when deciding which product to buy.

Final consideration of purchase will be based on compliance to specifications, quality of the product, history of the product based on references, and price.

BID FORM

This form must be included with the bid package. It shall be located at the very front of your bid proposal under a Tab Labeled “ **PRICE QUOTE**”.

You may if you wish also include in this tab a copy of a price quote page of your own on your own stationary, however this form must also be included.

Name of Bidding Dealer _____

Street Address of Bidding Dealer _____

City and State of Bidding Dealer _____

Phone Number of Dealer: _____

Ambulance Manufacturer Being Represented: _____

Location of Ambulance Manufacturer _____
(City and State)

Year and Description of ambulance
(Model chassis and body) _____

Price of Each Ambulance: _____

Price shall include all applicable rebates
and / or discounts as well as all trips. None shall be listed individually.

Trade-in Allowance (if applicable) _____

FINAL TOTAL PRICE **DELIVERED**: _____

Delivery in Calendar Months: _____

Signature of Bidder: _____

Printed Name of Bidder: _____

Title: _____ Today's Date : _____ 20_____

CHASSIS

CHASSIS MAKE AND MODEL:

The chassis shall be supplied by Ford Motor Company as an incomplete vehicle and when completed as an ambulance by the second stage manufacturer shall conform to all applicable Federal Motor Vehicle Safety Standards in force at time of manufacture.

A certificate of compliance with all FMVSS requirements shall be attached to the finished vehicle on the chassis door frame post by the ambulance manufacturer.

We comply completely as specified _____ We Do Not comply as specified _____

VEHICLE AND WHEELBASE:

The chassis for this ambulance shall be a new 2025 or newer Ford F-550 cab chassis with dual rear wheels, a 193 inch wheelbase and 108 inch cab to axle measurement, with four wheel drive, and ambulance prep package 47A. Cab shall be made of Aluminum only to prevent early oxidation.

We comply completely as specified _____ We Do Not comply as specified _____

GVWR:

The GVWR of the chassis shall be set by the chassis manufacturer at 18,000 lbs.

We comply completely as specified _____ We Do Not comply as specified _____

DIESEL ENGINE:

The Diesel engine shall be a Ford 6.7 Liter Turbo diesel with UREA burn emissions system.

We comply completely as specified _____ We Do Not comply as specified _____

The second stage ambulance manufacturer may not remove or replace any component of the chassis such as the grill with any aftermarket components. These may violate FMVSS and in any case are not readily available and are more costly for repairs and replacement.

We comply completely as specified _____ We Do Not comply as specified _____

TRANSMISSION:

The transmission will be a Ford Select shift 10 speed automatic with tow / haul feature.

We comply completely as specified _____ We Do Not comply as specified _____

FRONT AXLE

The front axle shall be a 7,000lb Monobeam from Ford..

We comply completely as specified _____ We Do Not comply as specified _____

REAR AXLE

The rear axle shall be 18,000lb axle from Ford.

We comply completely as specified _____ We Do Not comply as specified _____

REAR AXLE GEAR RATIO:

The gear ratio shall be set at 4:10 to 1

We comply completely as specified _____ We Do Not comply as specified _____

FRONT SUSPENSION

The front suspension shall be 7,000lb coil with shock absorbers.

We comply completely as specified _____ We Do Not comply as specified _____

LIQUID SPRING REAR SUSPENSION

A Liquid Spring rear suspension system **shall be installed by the ambulance manufacturer** so that any issues with the system then becomes the ambulance vendor problem not some outsider.

This is an important issue to us. We want to make sure we have one vendor to contact for all ambulance conversion issues.

We comply completely as specified _____ We Do Not comply as specified _____

FRONT BUMPER:

Full width Aerodynamic steel, Chrome Plated.

We comply completely as specified _____ We Do Not comply as specified _____

FRONT GRILL:

Grill shall be Chrome

We comply completely as specified _____ We Do Not comply as specified _____

BRAKE SYSTEM:

Four Wheel Disc brakes with anti-lock system Hydro-boost power assist.

We comply completely as specified _____ We Do Not comply as specified _____

WHEELS:

Front and Rear Wheels shall be 19.5" Aluminum Alloy Wheels with hub and lug nut covers.

We comply completely as specified _____ We Do Not comply as specified _____

TIRES

Shall be LT225 / 70R x 19.5 load range G Black side wall All Season Tires.

STEERING:

Gear Assembly Power Steering.

We comply completely as specified _____ We Do Not comply as specified _____

ALTERNATORS:

There will be two (2) OEM installed alternators with a combined output of 397 amps. No add on power systems are acceptable.

We comply completely as specified _____ We Do Not comply as specified _____

BATTERY SYSTEM:

There shall be Four (4) batteries mounted two (2) under the hood and two (2) in a slide out tray beneath the right front ALS compartment. The two under the hood will be wired for starting only, and no amperage draw will come off of them other than starting. The two in the exterior compartment will handle the rest of the system. All four will be charging off of both the on board battery charger and the alternators when engine is running.

We comply completely as specified _____ We Do Not comply as specified _____

HORNS AND AIR HORNS:

Chassis shall have OEM electric horns controlled off the steering wheel hub and add on Buell Air Horns operated off of the horn ring thru a switch and off of a button on the console.

We comply completely as specified _____ We Do Not comply as specified _____

There shall also be **Two Buell Air Horns, mounted thru or beneath the front bumper** that will be operated off button on steering wheel and also off a switch located on the passenger side of the cab console. **A requirement is that the Buell system utilize the heavier duty # 16122 pump and a second larger reservoir tank #5440.**

We comply completely as specified _____ We Do Not comply as specified _____

STABILIZER BAR

There will be a Front OEM Stabilizer bar and a bar as part of the rear suspension system.

We comply completely as specified _____ We Do Not comply as specified _____

RADIO:

The cab shall have installed an OEM AM/FM/CD stereo radio with multiple cab speakers.

We comply completely as specified _____ We Do Not comply as specified _____

RADIATOR:

The radiator shall be an OEM High capacity for use with ambulance prep package 47A

We comply completely as specified _____ We Do Not comply as specified _____

FUEL TANK:

There shall be a 40 gallon diesel fuel tank installed OEM only.

We comply completely as specified _____ We Do Not comply as specified _____

D.E.F. TANK:

An 8 gallon Diesel Emissions Fluid Tank with an external fill thru the body between exterior compartments #1 and #2 on left side.

We comply completely as specified _____ We Do Not comply as specified _____

MIRRORS:

There shall be Ford OEM heated / remote controlled motorized mirrors – with incorporated convex mirrors.

We comply completely as specified _____ We Do Not comply as specified _____

POWER WINDOWS AND DOOR LOCKS:

The chassis shall come with remote keyless entry feature and the cab shall have power electric door locks with an aftermarket builder installed grill mounted unlock button. The windows will both be tinted and have electric power windows and shall include the express down feature.

TWO (2) KEY FOBS TO BE SUPPLIED.

We comply completely as specified _____ We Do Not comply as specified _____

CAB TRIM:

The Ford chassis shall be an XLT series with deluxe trim. Chassis will also Include **power moveable gas and brake pedals.**

We comply completely as specified _____ We Do Not comply as specified _____

Chassis shall be equipped with Tilt Steering wheel and cruise control with throttle control thru cruise option.

We comply completely as specified _____ We Do Not comply as specified _____

High capacity air conditioner and heater with ambulance package 47A

We comply completely as specified _____ We Do Not comply as specified _____

CAB SEATS:

There will be Two High back cloth captains chairs in the cab.
ARM RESTS ON THE SEATS ARE NOT AVAILABLE FROM FORD.

We comply completely as specified _____ We Do Not comply as specified _____

RUNNING BOARDS:

There will be heavy duty aluminum diamond plate running boards installed on the cab by the ambulance builder. There will be front mud flaps built into the boards.
Additional framing will be welded beneath the running boards to give stronger support.

We comply completely as specified _____ We Do Not comply as specified _____

RUNNING BOARDS LIGHTS:

A pair of L.E.D. lights will be installed recessed into the diamond plate stone guards on the front of the modular body, that when cab doors are opened will shine onto the running boards.

We comply completely as specified _____ We Do Not comply as specified _____

ANTI THEFT SECURE IDLE:

Secure Idle brand anti-theft device shall be installed on the chassis to allow the crew to remove the key from the ignition with engine running when required, which will lock the steering wheel and cause engine to shut down if someone attempts to steal the vehicle without the key.

We comply completely as specified _____ We Do Not comply as specified _____

FRONT SUPPLEMENTAL CONSOLE:

The ambulance builder will install a front between seats console that will house, dual cup holders, front switch panel, radio heads, and possibly glove box holders and map book slots. Design will be finalized at pre build meeting.

We comply completely as specified _____ We Do Not comply as specified _____

SPARE TIRE TO BE MOUNTED:

The spare tire shall be mounted in the left rear compartment in such a way that it is easily accessible when needed, but back against the rear of the compartment so that there is still some area to carry loose gear if required by the department.

We comply completely as specified _____ We Do Not comply as specified _____

MODULE CONVERSION:

EXTERIOR DIMENSIONS:

Overall vehicle length	300 Inches
Overall vehicle Height	114 inches
Overall Modular Body length	176 inches
Overall modular body height	94 inches
Overall modular body width	96 inches

We comply completely as specified _____ We Do Not comply as specified _____

INTERIOR DIMENSIONS:

Length forward door to rear door	166 inches
Width interior wall to wall	90 inches
Width of aisle	47 inches
Height floor to ceiling	74 inches
Loading Height	32 inches

We comply completely as specified _____ We Do Not comply as specified _____

STRUCTURAL INTEGRITY:

The ambulance body as a unit shall be designed and built to provide exceptional impact resistance and structural integrity. The body will be of sufficient strength and certified through a static load test to be able to support on its top or side if overturned without crushing, separation of body components or excessive roof bows 2 and ½ times its own weight.

As proof that the ambulance meets this criteria and meets all requirements and certification of the Static Load Test for Ambulance Body Structural AMD Standard 001 and KKK-A-1822-F a current copy of the testing done by an independent laboratory testing facility shall be included with your bid proposal.

We comply completely as specified _____ We Do Not comply as specified _____

FULLY WELDED BODY:

To assure structural integrity and longevity of the modular body and to help prevent early corrosion and blistering, the complete modular body must be fully seam welded.

We comply completely as specified _____ We Do Not comply as specified _____

Is your modular body fully seam welded. Yes _____ No _____

GENERAL CONSTRUCTION

The entire body will be a fully welded all aluminum and **SEAMLESS** body. A seamless module body is required to minimize the chance of paint corrosion and paint adhesion problems. The entire perimeter and around all openings of the body shall be fully welded and ground smooth thus eliminating any joints or seams. The use of tongue and groove method of construction that requires the use of a seam sealer is not preferable. Tongue and groove extrusions for the

corner posts and roof perimeter are also not preferable.

We comply completely as specified_____ We Do Not comply as specified_____

Is your Body Fully Seamless and Fully seam welded Yes_____ No_____

CNC MACHINE CUT AND STAMPED BODY PARTS

The body sections, including door panels and door frames will all be cut and stamped by a special computer aided CNC Machine. This special machine will have all dimensions for all pieces of the body entered into its memory bank along with the body job number for the customers truck. The body parts and panels will then all be cut and stamped with the body job number. All screw holes for doors etc will be drilled in the precise spot needed and logged into the machine. The significance of this method is that if a vehicle is damaged and a door needs to be replaced a few years down the road. All we would need is the body job number entered into the computer of the CNC Machine and it would cut us an exact duplicate door panel or frame including the drilling of the screw holes to a perfect match thus making body repairs easy and efficient even thousands of miles away.

We comply completely as specified_____ We Do Not comply as specified_____

Is the body number I.D. Stamped into all body parts Yes_____ No_____

TYPE OF WELDING UTILIZED:

The welds on all structural and sheet aluminum on this entire body shall done utilizing a Pulse Arc MIG Welder. This allows for a hotter more penetrating weld in all areas without burning through the aluminum or creating major warping of the aluminum. TIG welds shall be used in any area where there is a mitered edge and on the backs of all exterior compartments.

We comply completely as specified_____ We Do Not comply as specified_____

The aluminum skin, the roof, side, and front and rear panels, shall be permanently fastened to the framework using Lord 406/19 Acrylic Adhesive in addition to the seam welding. Adhesive is applied to the sidewall skin to prevent warpage, oil canning and metal deflection associated with the welding of the sidewall skin to the structural framework. The use of double back adhesive tape will be allowed provided the bidder can document the brand used and describe the technique used to apply the tape. This requirement is done to eliminate the possibility of the adhesive tape failing to maintain a bond to the external skin due to poor quality or improper application of the tape.

We comply completely as specified_____ We Do Not comply as specified_____

EXTERIOR BODY SKIN:

The body sidewall, roof, front and rear panel skins shall be of prime commercial quality .125" gauge thick corrosion resistant aluminum. The use of panels that are of a lesser thickness is strictly prohibited. All exterior aluminum skins must be at least .125 thick.

We comply completely as specified_____ We Do Not comply as specified_____

Is .125 Aluminum used in all body sheets on your truck Yes _____ No _____

The Aluminum used for the body skins shall be of **Alloy 3003 H14**. The sheet aluminum panels are to be constructed of 3003 H14 grade aluminum because it is less susceptible to body tears in an impact than the 5052 grade which is usually used by ambulance builders. 3003 is what is commonly used on fire apparatus bodies.

We understand that not all builders use 3003 H14. If you don't just take exception.

We comply completely as specified _____ We Do Not comply as specified _____

Is the alloy of aluminum used on your truck 3003 H14 Yes _____ No _____

WALL AND ROOF SUPPORT FRAMEWORK:

The wall and roof support framework shall be 2" x 2", .125" thickness, 6061-T6 extruded aluminum box beams and extrusions spaced on 12" centers or less. There shall be no frame members spaced at a distance in excess of 12". The roof support framework shall additionally include .125" 6061-T6 extruded 1" x 2" aluminum box beams running the full length of the roof. The frame and skin shall be fully welded. The roof shall be crowned for water runoff.

We comply completely as specified _____ We Do Not comply as specified _____

Is the tube frame work spaced no further than 12 inches on centers Yes _____ No _____

CORNER POST AND ROOF PERIMETER EXTRUSIONS:

The exterior of the body will be finished smooth with 45-degree SEAMLESS beveled .250 thick extruded corner posts tubes and roof perimeter post tube extrusions presenting a modern and dynamic appearance.

We comply completely as specified _____ We Do Not comply as specified _____

Are the corner extrusions FULLY seam welded to the body skin Yes _____ No _____

The outer wall thickness of the extruded corner posts and the entire perimeter of the roof shall be .250" with the remaining sections of the tube to be .125 thick to provide additional strength at all corners. The body will be designed and built to provide impact and penetration resistance, with appropriate channel reinforcing to assure rigidity. Tongue and groove extrusions for the corner posts and roof perimeter are not preferable.

We comply completely as specified _____ We Do Not comply as specified _____

PERIMETER EXTRUSION INSTALLATION:

The four corner extrusions and the roof perimeter extrusions shall then be Fully Seam Welded using a MIG Pulse Arc Welder. The corner extrusions shall be continuously seam welded top to bottom to the .125 side skins and the roof extrusions shall have full and continuous welds around the entire perimeter to the .125 roof sheet. Skip or spot welds will not be accepted. Any tongue in groove extrusions for the corner posts and roof perimeter framing is also not preferable.

We comply completely as specified _____ We Do Not comply as specified _____

GUSSETS:

Where required in stress areas, gussets will be welded to the roof, side and front and rear structural framing to additionally give support and enhance load bearing characteristics thereby adding to the overall strength of the module body.

We comply completely as specified_____ We Do Not comply as specified_____

BODY ATTACHMENTS:

All parts of the body with attachments will be fastened together with rust resistant fasteners in a manner that will preclude loosening of any bolts and screws, and the cracking of welded joints. The exterior body panels will be made of not less than 0.125" thick aluminum and be reinforced at all points where equipment will be attached.

We comply completely as specified_____ We Do Not comply as specified_____

WELDED STRUCTURE:

The entire body will be an all fully seam welded structure. Welding will not however, be employed in the assembly anywhere that will prevent the ready removal of any component part for service or repair.

We comply completely as specified_____ We Do Not comply as specified_____

RUBBER ISOLATOR PADS:

In the assembly and mounting of the body, areas where steel is in contact with aluminum, there shall be rubber isolator pads installed. This pad provides corrosion and water resistance.

We comply completely as specified_____ We Do Not comply as specified_____

CORROSIVE PROTECTANT:

All exterior door hinges, both entry and compartment, are to be coated with "ECK" protectant prior to the installation of the door. This "ECK" coating is to be used in lieu of a gasket material behind the hinge to prevent the problems of gasket retention and deterioration.

We comply completely as specified_____ We Do Not comply as specified_____

MODULE BODY MOUNTING:

The body shall be attached to the frame of the chassis with rubber mounts and bolt assemblies provided for such purpose by Ford. The body (components) will not be welded to the frame of the chassis. The mounting of the module body to the chassis shall be done in strict accordance with the chassis builders guidelines. Any other method of attachment is strictly prohibited. Between the cab and the body there will be a one piece automotive style rubber seal to insure a watertight seal between the modular body and the cab.

We comply completely as specified _____ We Do Not comply as specified _____

MODULE ROOF:

The roof surface shall be **SEAMLESS** and **CROWNED** and of **ONE PIECE** of .125" aluminum. The use of any type of sealer or caulking material is strictly forbidden. There shall be no lip or protrusion on the roof that could result in the entrapment of any water or moisture.

We comply completely as specified _____ We Do Not comply as specified _____

Is the roof .125 aluminum, crowned and fully seam welded Yes _____ No _____

MODULE ROOF PERIMETER:

The perimeter of the roof shall be constructed of 45-degree **SEAMLESS** beveled extrusions that eliminate any lip or protrusion providing a smooth finish. The outer wall thickness of the roof perimeter extrusions shall be .250" to provide additional protection at all perimeter corners. Tongue and groove extrusions for the roof perimeter is not preferable.

We comply completely as specified _____ We Do Not comply as specified _____

MODULE ROOF UNDER STRUCTURE:

The roof under structure will be fabricated from extruded aluminum box beams (6061-T6). The under structure will be constructed by welding 1" x 2" x .125" box beams lengthwise and by welding 2" x 2" x .125" box beams, spaced on 12" centers or less, crossways forming a cross sectional grid roof support framework. Corner gussets will be welded to the roof and sidewall support structure to enhance load-bearing characteristics. The complete roof will be treated with a sound-deadening barrier. The roof panel shall be fully perimeter welded and adhesive bonded to the roof under structure with Lord 406/19 Acrylic Adhesive. The use of skip or intermittent welding of the roof perimeter is unacceptable. **Roof aluminum panels that are less than .125 in thickness are unacceptable.**

We comply completely as specified _____ We Do Not comply as specified _____

ROOF CORNER CAPS:

The roof corner cap on all four corners where the corner and roof extrusions meet shall be a solid extruded aluminum cap that interlocks into the corner and roof extrusions and is then welded continuously around its perimeter, then ground smooth forming a smooth fully welded and seamless solid corner cap. Corner caps that have integrated lights in them are unacceptable due to the fact that the cutout for the recessed light weakens the structure of the corner cap and the mating of the corner and roof extrusions.

We comply completely as specified _____ We Do Not comply as specified _____

MODULE BODY SIDEWALLS:

The body sidewall skin shall be constructed of a single sheet of .125" aluminum (3003 H14). The sidewall under structure will be fabricated by welding 2" x 2" x .125" extruded aluminum box beams vertically, spaced no further than on 12" centers. The vertical tubing will join and be welded to roof supports (2" x 2" x .125" extruded aluminum box beams) to form an interlocking grid between the sidewall and the ceiling. The complete sides will be treated with a sound-deadening barrier. The body sidewall skin shall be fully welded around the entire perimeter and all body openings and adhesive bonded to the sidewall with Lord 406/19 Acrylic Adhesive.

We comply completely as specified_____ We Do Not comply as specified_____

Are the Tubular frame members mounted nor further apart than 12 inches on centers Yes_____ No_____

All body openings shall be seamless. Body openings framed with tongue and groove style extrusions requiring the use of seam sealer are not preferable.

We comply completely as specified_____ We Do Not comply as specified_____

Are the body side skins fully seam welded to the corner and roof perimeter extrusions Yes_____ No_____

FLOOR SUB-STRUCTURE:

The floor shall be at the lowest level permitted but not more than 32 inches from the ground with no modifications to the OEM chassis suspension. There shall be 12 mounting points using the chassis supplied supports.

We comply completely as specified_____ We Do Not comply as specified_____

The floor structure shall consist of 2" x 2" x .250" primary box beams running the full length of the module body and 2" x 1" x .125" and 2" x 2" x .125" secondary box beams running the entire width of the body. The finished assembly shall be securely welded to the wall structures and exterior compartments. All critical load points will be reinforced with gussets.

We comply completely as specified_____ We Do Not comply as specified_____

The sub floor shall be a minimum of .090 flat sheet aluminum. Lighter aluminum than .090 will be unacceptable due to its inability to act as a good sound and thermal insulator, Plus the subfloor is a major component of the body structure and is what supplies structural strength in a side impact accident.

We comply completely as specified_____ We Do Not comply as specified_____

UNDERBODY HEAT SHIELD:

An aluminum underbody heat shield shall be installed between the chassis exhaust and muffler system and the underbody of the module to act as a shield and prevent heat transference into the patient compartment.

We comply completely as specified_____ We Do Not comply as specified_____

EXTERIOR COMPARTMENT CONSTRUCTION:

Compartments provided on the unit will be constructed as follows: The compartment floor will be fabricated of .125 diamond plate aluminum (3003-H14) and the ceiling and bulkheads of .100 diamond plate aluminum (3003-H14). They will be welded from the back with a TIG Rod fed welding device so that the welds are strong, smooth and non visible when the compartment doors are opened.

We comply completely as specified_____ We Do Not comply as specified_____

All exterior compartments will be sweep out style to provide for ease of cleaning. Drain holes are not desirable. All exterior compartments will be vented to provide for the displacement of air when closing doors. Vent louvers shall be installed on the vertical walls of the exterior compartments. All exterior compartments shall be lighted when the compartment door is opened. Compartment lights will be flush mounted with wiring routed through the body eliminating any exposed wiring.

We comply completely as specified _____ We Do Not comply as specified _____

EXTERIOR COMPARTMENT SUPPORT:

There will be Two 2" x 2" square aluminum supports with a wall thickness of .125" welded beneath each exterior compartment and then welded to the body understructure frame to add extra support to each compartment.

We comply completely as specified _____ We Do Not comply as specified _____

Does your exterior compartments have frame welded beneath floors Yes _____ No _____

EXTERIOR COMPARTMENT SHELVING:

All exterior compartment shelving shall be "Pan" style aluminum shelves mounted on two (2) sets of uni-strut tracks at each end of the shelf providing infinite adjustment. Rubber matting is to be installed on the topside of all shelving.

We comply completely as specified _____ We Do Not comply as specified _____

DOOR FRAME JAMB EXTRUSIONS:

The framing around all of the doors shall be made of a special heavy duty formed extrusion of no less than .188 gauge aluminum. In many areas this extrusion will be backed to a .125 tube frame member adding to its already superior strength and size. A heavier extrusion is called for here due to the extreme stress put on these areas during normal use. These extrusions will make seamless edges around all doors. Tongue and groove constructed extrusions creating seams around the doors are not preferable due to the fact that they frequently lead to premature corrosion and paint adhesion problems.

We comply completely as specified _____ We Do Not comply as specified _____

The corner of each patient compartment door frame and exterior compartment door frame shall have a 1/4 inch thick cast aluminum extrusion inserted into and welded to the horizontal and vertical extrusions. This door frame construction shall ensure superior strength as well as uniform fit and finish as there will be no Mitered Edges.

We comply completely as specified _____ We Do Not comply as specified _____

All compartments that do not reach the roof extrusions shall have added .125" thick tube frame members welded to the door jamb extrusion to create an extremely strong perimeter for each compartment.

We comply completely as specified _____ We Do Not comply as specified _____

DOOR CONSTRUCTION:

A 2 3/8 inch thick x .188 gauge extruded and formed inner door framing shall be laid inside of a .125 thick Pan Formed exterior door skin. The pan formed section of the door skin that is wrapped around the 3/16" frame will then be welded to that frame. The inner door frame will have an inset from the exterior skin approximately 3/4 inch on all four sides allowing for installation of the door gasket. The inner frame shall have cross member support beams and corner gussets to add to the overall strength.

We comply completely as specified_____ We Do Not comply as specified_____

The door(s) of each compartment will be flush type (being on the level with adjacent body surface) and of **PAN FORMED / EXTRUDED DOUBLE BREAK** construction. The weather seal is to be mounted on the outer flange of the door with the latches and strikers mounted on the extruded second break inside the door opening.

This door design eliminates exposure of the latches to the elements and prevents moisture from corroding the latch mechanisms. Weather seals that are installed inboard in any way of the latch mechanisms and strikers is strictly prohibited.

We comply completely as specified_____ We Do Not comply as specified_____

All doors shall be constructed of .125 aluminum and be minimum of 2 1/2" thick.

We comply completely as specified_____ We Do Not comply as specified_____

EXTERIOR COMPARTMENT INNER DOOR PANELS:

The inner panel on all exterior compartment doors will be fastened to the extruded door-frame and recessed into the door frame extrusion for a flush finish. Surface mounting of any interior door panels is not allowed. All fasteners used for the mounting of the interior panels are to have a rubber grommet affixed to the underside of the screw head to prevent the fastener screws from loosening and backing out of the extrusion. The interior door panels shall be readily removable for access to the interior of the door and the latching mechanism.

We comply completely as specified_____ We Do Not comply as specified_____

PATIENT ENTRY INNER DOOR PANELS:

The inner panel on all patient entry doors will be fastened to the extruded door-frame and recessed into the door frame extrusion for a flush finish. Surface mounting of any interior door panels is not allowed. All fasteners used for the mounting of the interior panels are to have a rubber grommet affixed to the underside of the screw head to prevent the fastener screws from loosening and backing out of the extrusion. All patient entry inner door panels will have access ports installed in the doors directly over the latching adjustment mechanisms inside the door. These access ports can be easily removed to access the adjustable turn buckles to adjust the door latches without having to remove the entire door panel.

We comply completely as specified_____ We Do Not comply as specified_____

Do your doors have access ports to make adjustments Yes_____ No_____

DOOR REINFORCING:

All doors shall be reinforced and cross-braced inside for increased strength allowing for the mounting of equipment on the door. Four 6" x 6" gussets of .188" thick aluminum will be installed in all four corners of the door frame to give added strength.

We comply completely as specified_____ We Do Not comply as specified_____

DOOR ADJUSTMENT AND MAINTENANCE:

In order to facilitate adjustment and routine maintenance of door linkage rods and latches, all doors shall have access ports. There is to be an access port above and one below each interior entry door handle of sufficient size to allow for the adjustment of the door linkage rods.

We comply completely as specified_____ We Do Not comply as specified_____

Access ports shall also be provided for the lubrication of the slam latches located at the top and bottom of each entry door. All ports are to be covered with a friction type "plug-in" plastic cover that is readily removable.

We comply completely as specified_____ We Do Not comply as specified_____

DOOR HANDLE ASSEMBLIES:

All doors shall utilize solid cast aluminum door handles made by Eberhardt that have an isolation corrosion resistant gasket around them between the assembly and the body door skin to prevent electrolysis due to dissimilar metal contact. The E-GRABBER Handle and Pull shall be attached to the doors through welded plates and shall be screwed to the door skin from the backside, thus having no exposed screw heads to cause early corrosion. The door handles shall have automotive style key lock tumblers with all doors on the module being keyed alike.

Other Door handles will be considered, however we wish to avoid Paddle Latches if possible.

We comply completely as specified_____ We Do Not comply as specified_____

Does your doors utilize Paddle Style Latches Yes_____ No_____

DOOR LATCH ASSEMBLIES:

The door latches for all doors shall use a two (2), point slam lock (206 rotary latch) of stainless steel construction. Door latch assemblies shall be "blind mounted" eliminating any exposed mounting hardware on the exterior side of the latches. There is to be a rubber gasket between the exterior assembly and the aluminum door to ensure isolation of the two dissimilar metals.

We comply completely as specified_____ We Do Not comply as specified_____

The door linkage rods' connecting the door handles and the rotary latches are to be heavy duty MINIMUM 1/4 inch thick threaded steel rods. They shall be straight direct pull rods with no bends built into the rods allowed, as bends tend to allow the rods tension to loosen over time.

We comply completely as specified_____ We Do Not comply as specified_____

Adjustments to the entry door linkage rods are to be provided by a turnbuckle located above and below and adjacent to each interior door handle. The use of steel cable of any type for the

door linkage is strictly prohibited.

We comply completely as specified_____ We Do Not comply as specified_____

DOOR LATCH STRIKER PINS:

Door striker pins shall be installed on the vertical compartment flanges, with the exception of double doors. There are to be two (2) pins per door, with the exception of the battery compartment door which shall have one pin. All striker pins shall be fully adjustable from the exposed side. They will be grade 8.0 cadmium plated steel strikers with a “captive nut” for adjustment and so located as not to interfere with the sweep-out design of the compartment itself.

We comply completely as specified_____ We Do Not comply as specified_____

STAINLESS STEEL DOORSILL PROTECTORS:

All compartment and entry doors shall have one-piece full width stainless steel doorsill protectors to protect the body and paint from equipment being moved in and out of the compartment.

We comply completely as specified_____ We Do Not comply as specified_____

DRIP RAILS:

Each compartment and entry door is to have a full width aluminum drip rail mounted above each door. All drip rails are to be attached using double back adhesive tape. The use of screws, rivets, or any other form of metal attachment is not acceptable as it may lead to corrosion due to contact of dissimilar metals.

We comply completely as specified_____ We Do Not comply as specified_____

EXTERIOR COMPARTMENT DOOR HOLD OPEN:

All compartment doors will be equipped with a gas strut door stay that holds the door at 90 degrees to the body when open. All gas struts are to be mounted in such a way as to allow for easy access in the event that replacement or repair is required.

We comply completely as specified_____ We Do Not comply as specified_____

There shall be a “dampening” devise installed within each gas strut for the purpose of preventing the “shock” that can occur if a gas strut is fully extended without a slowing of the door before it reaches its maximum open length.

We comply completely as specified_____ We Do Not comply as specified_____

STAINLESS STEEL HINGES:

Each compartment door will be mounted with a continuous stainless steel piano hinge with a

minimum pin diameter of (.250). Hinge Pin diameter of less than (.250) is unacceptable to ensure the long-term performance of the hinge in this extreme use application. The door hinges shall be installed prior to painting and then removed and reinstalled after the body has been painted.

We comply completely as specified_____ We Do Not comply as specified_____

An anti corrosion material known as ECK shall be applied along the entire length of the hinge prior to installation. Barrier tape or rubber gaskets used between the hinge and the body is unacceptable as it tends to work its way out of position therefore breaking the anti corrosion barrier.

We comply completely as specified_____ We Do Not comply as specified_____

Do you apply ECK between body door frames and hinges Yes_____ No_____

COMPARTMENT DOOR SEALS:

Each compartment opening is to be sealed with full perimeter 5/8" wide by 1/2" thick hollow core wiper seal. The seal is to be mounted on the doorframe out board of the striker pins and the door latches. This seal insures that each compartment will be dust and waterproof and that the striker pins and door latches will remain dry and clean. Seals that are inboard of the door latches and strikers are unacceptable.

We comply completely as specified_____ We Do Not comply as specified_____

DOOR INSULATION:

All exterior compartment and patient compartment entry doors shall be insulated with layers of R-14.5 reflectics insulation. Additionally there shall be a single layer of 2" polystyrene insulation installed in each door. This double layer adds not only to the insulation qualities but adds to the sound deadening aspects of the door.

We comply completely as specified_____ We Do Not comply as specified_____

MODULE DOOR HOLD-OPENS:

Rear patient compartment doors shall be equipped with Cast Products "Grabber" hold-open devices. Side patient compartment door shall be equipped with a Gas Strut door opening device with a dampener.

We comply completely as specified_____ We Do Not comply as specified_____

MODULE BODY DOOR WINDOWS:

Rear and side patient compartment doors shall have tinted safety glass windows encased in extruded aluminum frames. Each rear door shall have an 18.5" x 17.5" fixed window. The side door shall have an 18.5" x 17.5" slide opening window with screen and window lock.

We comply completely as specified_____ We Do Not comply as specified_____

MODULE ENTRY DOORS:

Right side entry door opening: 68" H X 30" W
Rear entry door opening (double door): 61" H X 50" W

We comply completely as specified_____ We Do Not comply as specified_____

CAST LICENSE PLATE HOLDER:

Installed and recessed into the center of the rear kick plate above the rear step bumper there shall be a Cast Products license plate holder.

We comply completely as specified_____ We Do Not comply as specified_____

BODY STONE GUARDS:

Polished aluminum diamond plate stone guards shall be installed on the front of the module body on each lower corner from the level of the back of the running boards under the cab doors upwards approximately twenty four (24) inches and shall wrap around the front corner post approximately two (2) inches. The rear stone guards shall be an integral part on the rear polished aluminum diamond plate kick plate above the rear step bumper.

We comply completely as specified_____ We Do Not comply as specified_____

REAR WHEELWELL FENDER FLAIRS:

The rear wheel wells shall be trimmed with a One Piece stainless steel fender flair that is attached to the body with stainless steel fasteners through a rubber barrier gasket to prevent corrosion from dissimilar metal contact. An anti corrosion material known as ECK shall be applied to the fender flair prior to installation. Any multiple piece fender flairs are not acceptable.

We comply completely as specified_____ We Do Not comply as specified_____

LOWER BODY RUB RAILS:

One piece lower body rub rail shall be installed at the very bottom of the body from the front of the body to the rear wheel well opening on each side of the module body. Another one piece lower body rub rail shall be installed from the rear of the wheel well opening to the rear of the body on each side of the module body. The ends of the rub rails at the wheel well openings shall be trimmed to following the contour of the fender flairs for a pleasing appearance.

We comply completely as specified_____ We Do Not comply as specified_____

The rub rails shall be a heavy formed "C" channel shaped extrusion of .188 gauge thick polished aluminum rail that is mounted to the body with corrosion resistant fasteners and spaced .250" away from the body with nylon Delrin spacers for ease of cleaning in the inclement weather, and enabling the entire rub rail to be easily replaced if damaged.

We comply completely as specified_____ We Do Not comply as specified_____

Lower body rub rails that are part of the module body structure and are not easily removable are Unacceptable as these rails frequently get damaged and need to be easily replaced.

NO EXCEPTIONS

We comply completely as specified_____ We Do Not comply as specified_____

Are your lower body rub rails, (crash rails) easily removable Yes_____ No_____

There will be Ten (10) Red LED strip lights, (Five each side) inside the crash rails that will light up and act as ICC Lights with the headlights on, and will flash alternately when the warning lights are on.

We comply completely as specified_____ We Do Not comply as specified_____

3. ELECTRICAL SYSTEM

A Weldon V-MUX 100% solid state microprocessor based multiplex system shall be installed to control the electrical functions. The system shall include load management, load shedding, power modulation, load sequencing capabilities and provide on-board diagnostics with real-time status reporting. The system shall consist of two (2) control consoles and two (2) control nodes (Hercules Nodes) with video input and monitoring capabilities for the optional camera system.

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We comply completely as specified_____ We Do Not comply as specified_____

A digital warning display shall be integrated into the cab display console and programmed through the multiplex system to provide visual and audible indications for:
Patient status alarm, Individual outside storage compartment "door open" warnings in vehicle

outline form. Module Curbside and Rear “Door Open” Warning in vehicle outline form, Inside temperature reading and a Low voltage alarm

We comply completely as specified_____ We Do Not comply as specified_____

FRONT MULTIPLEX PANEL

A floor console shall be mounted in the cab. The console shall house the siren control and the V-Mux display. The V-Mux display shall control all Emergency Warning functions as well as being able to control the Patient Compartment lighting and module heat/ac functions.

We comply completely as specified_____ We Do Not comply as specified_____

CONTROL PANEL SWITCHES:

The switches on the Front Vista panel Display and Rear Vista panel Display shall have dimmable perimeter backlighting for easy identification.

We comply completely as specified_____ We Do Not comply as specified_____

MODULE POWER SWITCH:

A module power switch for the electrical system shall be provided on both the Front and Rear Vista panel Displays.

We comply completely as specified_____ We Do Not comply as specified_____

EMERGENCY MASTER SWITCH:

A single emergency master switch shall be supplied for activating all the emergency warning lights and shall be provided on the Front Vista Display. The emergency master switch will activate the module power automatically.

We comply completely as specified_____ We Do Not comply as specified_____

FLASHER:

The flasher shall be provided within and programmed by the multiplex electrical system to flash all the LED warning lights.

We comply completely as specified_____ We Do Not comply as specified_____

PARK OVERRIDE:

A park override switch, located on the Front panel, shall reactivate all lights disabled when the transmission is placed in the neutral/park position.

We comply completely as specified_____ We Do Not comply as specified_____

BACKUP ALARM OVERRIDE:

The Front Vista panel shall have a switch to disable the backup alarm. This override shall automatically reset to "Enabled" when the vehicle is removed from Reverse.

We comply completely as specified_____ We Do Not comply as specified_____

CAMERA SYSTEMS:

A Brigade Backeye® 360 Camera system shall be installed. The system should include 4 exterior cameras and 1 interior camera in the patient compartment. In addition we are requesting the system also include a Mobile Digital Recorder so that each camera has the ability to record on demand.

We comply completely as specified_____ We Do Not comply as specified_____

Does Your bid Include the Brigade Backeye 360 camera system? YES_____ NO _____

LOAD MANAGER-SEQUENTIAL SWITCHING SYSTEM:

The load manager-sequential switching system shall be controlled by the Weldon microprocessor based electrical system. The emergency master switch shall control the sequential switching of the emergency lights and/or other warning devices. The load manager shall automatically shed non-critical electrical loads during low voltage conditions to help prevent electrical system overload when the vehicle is stationary and the transmission is in the park position.

We comply completely as specified_____ We Do Not comply as specified_____

CURBSIDE SCENE LIGHTS "ON" WITH CURBSIDE DOOR:

The curbside scene lights shall be programmed to activate when the curbside door is in the open position.

We comply completely as specified_____ We Do Not comply as specified_____

REAR SCENE LIGHTS "ON" WITH REAR DOORS OPEN:

The rear scene lights shall be programmed to activate when the rear doors are in the open position.

We comply completely as specified_____ We Do Not comply as specified_____

REAR AND SIDE SCENES "ON" IN REVERSE:

The system shall be programmed to provide activation for the rear scene lights, and the rear side scene lights, when the transmission selector lever is placed into "reverse" position.

We comply completely as specified_____ We Do Not comply as specified_____

REAR VISTA DISPLAY PANEL:

The rear patient compartment area shall contain a similar multiplex panel as in the front, which will control all equipment installed in the patient compartment.

We comply completely as specified_____ We Do Not comply as specified_____

ELECTRICAL SERVICE PANEL:

All circuits shall be rated to carry at least 125% of its maximum rated load.

We comply completely as specified_____ We Do Not comply as specified_____

ELECTRICAL SERVICE PANEL ACCESS:

The electrical service panel shall be mounted behind the hinged action wall and shall be easily accessible by activating a single latch allowing the switch panel section to swing down. The control nodes shall be located in an easily accessible location in the electrical service panel for service technicians to perform troubleshooting and service work. This cabinet must be solely for the electrical system components, with a large enough door opening to perform work on the systems completely without removing them from the cabinet.

We comply completely as specified_____ We Do Not comply as specified_____

Are any of your electrical service panels located in an exterior compartment

Yes_____ No_____

The entire electrical system shall be one that can be serviced by any reputable electrical repair shop or technician without the use of special computers and/or programming. This is a Must. We are looking for a simplistic but dependable electrical system that can easily be serviced at most reputable electrical repair centers.

We comply completely as specified_____ We Do Not comply as specified_____

Wiring diagrams on 8 ½ x 11 standard sheets of paper shall be supplied in the owners manual for every circuit in the vehicle installed by the ambulance manufacturer including all optional electrical equipment. In addition a complete owners manual including wiring diagrams shall be supplied on a thumb drive to be attached to the chassis key chain.

We comply completely as specified_____ We Do Not comply as specified_____

LOAD MANAGEMENT SYSTEM:

The distribution panel shall include a solid-state programmable load management system designed to sense when the charging system is not keeping up with the electrical demand. When this situation exists, the load manager will automatically shut down warning lights, one at a time in a programmed sequence until the electrical load is being sustained without discharge. This system only functions when the unit is in park.

We comply completely as specified_____ We Do Not comply as specified_____

SEQUENTIAL SWITCHING:

A solid state Sequential Switching System shall be installed that will turn emergency lighting on/off in staggered ½-second intervals. This is done to eliminate subjecting the alternator to sudden load and unloading of electrical draw.

We comply completely as specified_____ We Do Not comply as specified_____

ELECTRICAL WIRING:

All the vehicle's electrical equipment shall be served by circuits separate and distinct from the chassis electrical system. All electrical wiring shall be run in grease, oil, heat and moisture resistant looming. Harnesses shall be fastened with vinyl-clad clamps and grouted at any area they contact a metal edge.

We comply completely as specified_____ We Do Not comply as specified_____

Every load carrying wire shall be a minimum of 12-gauge, and shall be color-coded and heat embossed with its function every 6 inches. There shall be at least a 6-inch service loop of wire at the point of attachment to each component. All electrical connections shall be machine crimped; the use of Scotch-locks is strictly prohibited.

We comply completely as specified_____ We Do Not comply as specified_____

GROUNDING SYSTEM

Due to the fact that most electrical problems in all 12 volt systems, but especially in emergency vehicles are due to problems with bad grounds, the body shall be grounded to the chassis frame with 4 heavy duty braided grounding straps. In addition there shall be grounding straps from the engine block to the body and frame.

We comply completely as specified _____ We Do Not comply as specified _____

LOW VOLTAGE ALARM:

A low voltage alarm shall sound when the voltage drops below 11.8 volts for more than 120 seconds.

We comply completely as specified _____ We Do Not comply as specified _____

12V DC OUTLETS:

There shall be Six (6) Cigar style 12V DC outlets, Locations to be determined.
All Six 12 volt outlets shall be wired hot at all times.

We comply completely as specified _____ We Do Not comply as specified _____

110 VOLT INTERIOR RECEPTACLES:

There shall be a total of Three (6) internal 110 volt duplex illuminated GFI outlets.
All locations to be determined.

We comply completely as specified _____ We Do Not comply as specified _____

SHORELINE 110 VOLT:

There shall be an **Exterior KUSSMALL 20 Amp AUTO EJECT Inlet plug** that is U.L. listed and approved and rated at 20 amperes that will allow hook up of an external 110 volt power source to the vehicle for powering its internal 110 volt outlets and block heater while in station.

We comply completely as specified _____ We Do Not comply as specified _____

All 110 volt receptacles in this system throughout the vehicle shall be GFI protected and all interior outlets shall further be illuminated when powered by either hook up to an external power source through the exterior inlet plug or through use of an onboard power inverter.

We comply completely as specified _____ We Do Not comply as specified _____

SHORELINE INDICATOR LIGHT:

A Red LED 4 bulb 2.5" x 1" shoreline indicator light shall be installed above the standard shoreline inlet to indicate that power is going into the shoreline. This light will be wired past the GFI breaker so that if the breaker trips the light will go out.

We comply completely as specified _____ We Do Not comply as specified _____

INVERTER/BATTERY CHARGER:

A Vanner model 1050 U.L. Inverter battery charger conditioner shall be installed. The battery charger shall be wired to the chassis batteries and the shoreline so that whenever the external shoreline inlet is energized the battery charger will be active and keep the chassis batteries charged.

We comply completely as specified _____ We Do Not comply as specified _____

EXTERIOR COMPARTMENT LED STRIP LIGHTING:

All exterior compartments shall have **WHITE LED Strip Lighting**, with a Minimum of LED lighting up each side top to bottom. The lights will activate with the opening of the compartment door. Only the lights in the compartment opened will activate.

We comply completely as specified _____ We Do Not comply as specified _____

INTERIOR COMPARTMENT LED STRIP LIGHTING:

All interior compartments shall have **BLUE LED Strip Lighting**. The lighting should be mounted on each side of the compartment facing inward to illuminate the compartment. The lights will activate with the interior dome lights however should also be switched separately through the V-Mux System.

We comply completely as specified _____ We Do Not comply as specified _____

ALS INSIDE/OUTSIDE COMPARTMENT LIGHTS:

There shall be three (3) Innovative Lighting model 03450001 LED lights or equal installed in the front bulkhead inside/outside compartment.

We comply completely as specified _____ We Do Not comply as specified _____

STEPWELL LIGHT:

An Innovative Lighting model 03450001 LED light or equal shall be installed in the curbside step well and shall operate with the opening of the curbside patient entry door.

We comply completely as specified _____ We Do Not comply as specified _____

INTERIOR PATIENT DOME LIGHTS:

The patient compartment ceiling shall contain 10 round Whelen LED Dome lights. Five (5) on each side of the ceiling. They will operate left and right banks Hi / Lo and the left bank shall run

as check out lights off a squad bench wall mounted zero to 15 minute timer.
We comply completely as specified _____ We Do Not comply as specified _____

FLOOR LED RUNWAY STRIP LIGHTING:

There shall be **BLUE LED Strip Lighting** mounted down each side of the patient compartment isle. These lights should be mounted to the underside of the wall where the floor meets the wall pointing towards the floor as to illuminate the floor area. The lights should come on with the interior dome lights however should also be switched separately through the V-Mux System.

We comply completely as specified _____ We Do Not comply as specified _____

ACTION AREA LIGHT:

A LED light shall be installed in the action area with an on/off switch in the action area switch panel.

We comply completely as specified _____ We Do Not comply as specified _____

MAGNETIC DOOR SWITCHES:

Magnetic door switches shall be installed in each patient compartment door and exterior compartment door to activate the door open warning system, the curbside and rear scene lights via a printed circuit board. Plunger type door switches are unacceptable.

We comply completely as specified _____ We Do Not comply as specified _____

BATTERY SWITCH TIMER:

A 5 minute timer shall be installed on the battery switch. This will allow the lights to operate while unloading the patient with the ignition and battery switch shut off.

We comply completely as specified _____ We Do Not comply as specified _____

ADDITIONAL ADD ON ITEMS;

There shall be dual stereo speakers in the patient area ceiling with separate volume control.

We comply completely as specified _____ We Do Not comply as specified _____

A Digital **“INTELLITEC TIME MANAGER”** shall be installed in the patient area.

We comply completely as specified _____ We Do Not comply as specified _____

The patient compartment entry doors should have a Whelen ION-T Light mounted in the lower outward corners to flash the doors are in the open position.

We comply completely as specified _____ We Do Not comply as specified _____

OPEN DOOR WARNING LIGHT AND BUZZER IN CAB:

A 4 inch Minimum round RED L.E.D. Light shall be installed in the ceiling of the cab near the center which shall flash whenever any door is open and the vehicle is put in any drive gear.

There will also be a loud audible alarm that will sound with any door open at any time unless the emergency brake is applied.

We comply completely as specified_____ We Do Not comply as specified_____

AUXILLIARY SWITCHES AND SWITCH PANELS:

There will be several auxiliary switches and/or switch panels that will be installed on the front cab console and on the right rear wall over the bench and at the head end that will allow operation of different truck features. To lock and Un lock doors etc. Exact features to be determined at pre build. These will be separate from the Multi Plex system.

We comply completely as specified_____ We Do Not comply as specified_____

DIRECTIONAL AND BRAKE LIGHTS INTERIOR:

There will be a Whelen 500 left and right directional signal amber light as well as 500 red brake light mounted over the rear doors in the interior patient area.

We comply completely as specified_____ We Do Not comply as specified_____

ELECTRIC DOOR LOCKS:

The Modular Body shall have electric door locks that will be interconnected to the cab doors. The cab door locks will activate the modular door locks. There will be a hidden unlock button at the rear license plate bracket. The Ford Key FOBS will in addition to locking and unlocking the cab, will also lock and unlock the modular doors.

We comply completely as specified_____ We Do Not comply as specified_____

ANTENNA AND CABLE INSTALLATION:

The City of O’Fallon will supply the vendor with up to four antennas and the cables as well as radio heads and cables that will need to be installed prior to completion.

We comply completely as specified _____ We Do Not comply as specified _____

EMERGENCY WARNING SYSTEMS:

ALL PERIMETER LIGHTS ON THIS AMBULANCE SHALL BE WHELEN M-SERIES.
The Light heads will have multi colors.

BODY UPPER LEVEL WARNING LIGHTS:

There shall be Four (4) M-9 L.E.D. Flashing lights, mounted Two (2) on each side of the body at roof level. All four shall be Red / Blue.

We comply completely as specified _____ We Do Not comply as specified _____

There will be Four (4) additional M-9 L.E.D. lights facing rear at window level. The higher of the four lights at window shall be Red / Blue and The lower lights shall be Split Red / Amber in color with the red section wired into the Brake Override

We comply completely as specified _____ We Do Not comply as specified _____

FRONT WARNING LIGHTS:

There will be Seven (7) M-9 LED lights mounted on the front of the box just beneath the roof line. They will be Four (4) Red / Blue with Two (2) lights being Red / White.

We comply completely as specified _____ We Do Not comply as specified _____

REAR WARNING LIGHTS:

The rear shall have Four (4) M-9 LED lights mounted on the rear of the box at window level. The color combinations will be as specified earlier. There will also be included two M-7 LED load lights centered over the rear doors beneath light bars.

We comply completely as specified _____ We Do Not comply as specified _____

CHASSIS LOWER LEVEL WARNING LIGHTS:

There shall be Four (4) M-7 series solid L.E.D. lights in or near the grill as specified by chassis requirements. No light shall be mounted in such a way as to interfere with airflow as set forth by the chassis manufacturers requirements. One shall be Red, one shall be Blue and Two shall be White.

We comply completely as specified _____ We Do Not comply as specified _____

There will be Four (4) M-7 lights mounted in the front fenders and over the rear wheels to act as intersection lights. Colors to be determined at pre build, depending upon what is available.

We comply completely as specified _____ We Do Not comply as specified _____

REAR LIGHT BAR:

A full width WHELEN 4500 light bar shall be installed on the rear of the modular box at roof line. This bar will contain **9 L.E.D.** heads and NO LOAD LIGHTS. Colors to be determined at pre build. Lens colors to be clear with color combination of LED's to be determined at pre build.

We comply completely as specified _____ We Do Not comply as specified _____

ARROW STICK DIRECTIONAL LIGHT:

Below the rear 4500 light bar centered over rear doors will be a full width WHELEN TAL 85 LED 8 Light Traffic Advisor. All amber in color with control box in cab on control console.

We comply completely as specified _____ We Do Not comply as specified _____

PRE-EMPTION TRAFFIC LIGHT CONTROL STROBE LIGHT:

A pre-emption strobe that will control stop lights within the city shall be installed mounted in or on the front of the box centered below the front M-9 Warning Lights.

We comply completely as specified _____ We Do Not comply as specified _____

FRONT TAKE DOWN LIGHTS:

There will be Two (2) M-9 LED scene lights wired as Front Take Down mounted towards the center of the box from the right and left side.

We comply completely as specified _____ We Do Not comply as specified _____

SIREN:

A WHELEN HFS-C9 Dual Tone, Dual Amp 200 watt siren with wail, yelp and Hyper Yelp shall be installed with the control box mounted in the front switch console.

We comply completely as specified _____ We Do Not comply as specified _____

SIREN SPEAKERS:

Two Cast siren speakers shall be mounted into the front bumper at each end.

We comply completely as specified _____ We Do Not comply as specified _____

SCENE AND LOAD LIGHTS

There shall be Four (4) M-9 LED Scene Lights, two on each side of the body at roof level. Each light shall have built in optics causing the light to be angled downward. Each side shall be operated by an appropriately marked switch on the front console. The Right side lights shall also come on when the side doors are opened. The rearmost side scene on each side shall also come on when the truck is in reverse.

We comply completely as specified _____ We Do Not comply as specified _____

There shall be Two (2) Rear M-7 LED Load Lights centered over the rear doors. Each light shall have built in optics causing the light to be angled downward. There will be a switch on the front console marked rear load that will operate the lights. In addition they will automatically come on when the rear doors are opened and/or whenever the vehicle is placed into reverse gear.

We comply completely as specified _____ We Do Not comply as specified _____

LED UNERBODY LIGHTING:

There shall be (3) Three pairs, (6) Six lights total of Zico LED underbody lights mounted underneath the module. These lights should be mounted on a 45 degree angle at the perimeters as to illuminate the ground around the module. They should activate when the vehicle is in the PARK position and the headlights are on.

We comply completely as specified _____ We Do Not comply as specified _____

CHROME FLANGES ON EMERGENCY AND SCENE LIGHTS:

All of the above emergency, scene and load lights mounted on the vehicle shall have chrome flanges,

We comply completely as specified_____ We Do Not comply as specified_____

SPOTLIGHT:

There shall be a "300,000 candle power" spotlight, with eight foot coiled cord and momentary switch, permanently wired into front console. The momentary switch shall be positioned on the light in a way that power can not be inadvertently left on while unattended.

We comply completely as specified_____ We Do Not comply as specified_____

AIR HORN SYSTEM:

There shall also be **Two Buell Air Horns, mounted thru or beneath the front bumper** that will be operated off button on steering wheel and also off a switch located on the passenger side of the cab console. **A requirement is that the Buell system utilize the heavier duty # 16122 pump and a second larger reservoir tank #5440.**

We comply completely as specified _____ We Do Not comply as specified _____

DRIVERS SWITCH PANEL:

There shall be a Multiplex panel installed in the console between the two front seats.

The following Touch Buttons (at a Minimum) will be located in the multiplex screen panel.

MODULE MASTER SWITCH

EMERGENCY MASTER –Sequencer Load Manager SWITCH

PRIMARY / SECONDARY LIGHTING SWITCH

FRONT LIGHT BAR SWITCH

REAR LIGHT BAR SWITCH

BACK UP ALARM MOMENTARY DISABLE SWITCH

LEFT SCENE LIGHT SWITCH

RIGHT SCENE LIGHT SWITCH

REAR LOAD LIGHT SWITCH

REAR HVAC POWER SWITCH

REAR DOME LIGHT POWER SWITCH

DIGITAL VOLT METER

SILENT INTERCOM LIGHTS

PATIENT COMPARTMENT INFORMATION SCREEN. Gives Visual indication of ANY door open plus gives Low Voltage indication with an audible Low Voltage Alarm.

We comply completely as specified _____ We Do Not comply as specified _____

REAR PATIENT COMPARTMENT SWITCH PANEL:

The following touch buttons shall be installed in the rear screen panel. This panel will be mounted in a small rectangular cabinet beneath the main medical cabinets over the front action counter.

This panel cabinet will have a door that takes up nearly the entire face of the rectangular cabinet. The control panel shall be mounted in a housing on this door so that they can be accessed easily for removal and repair. The electrical control nodes for the multiplex system shall be located within this cabinet for easy access.

The Following touch buttons (at a Minimum) shall be located on the rear switch screen panel.

- MODULE MASTER SWITCH
- LEFT DOME SWITCH
- RIGHT DOME SWITCH
- CHECK OUT LIGHT SWITCH
- ACTION AREA LIGHT SWITCH
- CABINET LIGHTS (if applicable)
- POWER EXHAUST VENT SWITCH
- SILENT INTERCOM RED SWITCH
- SILENT INTERCOM AMBER SWITCH
- SILENT INTERCOM GREEN SWITCH
- SILENT INTERCOM DRIVER WARNING BUZZER MOMENTARY SWITCH
- OXYGEN COMPARTMENT LIGHT SWITCH
- ELECTRIC SUCTION SWITCH
- ELECTRIC OXYGEN SWITCH WITH MANUAL BYPASS VALVE
- INVERTER POWER SWITCH
- HVAC POWER SWITCH
- HVAC FAN CONTROL 3 POSITION SWITCH

We comply completely as specified _____ We Do Not comply as specified _____

4.0 PATIENT COMPARTMENT

FLOOR:

The interior patient compartment floor shall be constructed of a single piece of 3/4 inch marine grade exterior plywood.

We comply completely as specified _____ We Do Not comply as specified _____

FLOOR COVERING:

Over the top of the plywood floor shall be a single piece of High Quality **LON PLATE** Linoleum Flooring which shall roll up the left wall and squad bench aisle wall approximately 3 to 4 inches. The flooring shall be installed prior to the left wall so that the left wall facing overlaps the flooring to prevent water or other liquids from seeping between the floor covering and the sub floor and cabinets.

No edges with trim that can catch fluids on the wall will be allowed.

We comply completely as specified _____ We Do Not comply as specified _____

INTERIOR CABINET CONSTRUCTION:

All interior cabinets shall be constructed of 3/4 inch 7 ply solid core cabinet grade Birchwood.

No 1/2 inch plywood shall be utilized in the construction of the cabinets. All cabinets shall be constructed using wood screws only, no nails shall be used to attach the wood together.

We comply completely as specified _____ We Do Not comply as specified _____

Are your Cabinets made completely of 3/4 inch Wood Yes _____ No _____

CABINET AND WALL COVERINGS:

All cabinets and walls shall be covered with a Formica or Kydex type wall and cabinet covering available in various colors.

We comply completely as specified _____ We Do Not comply as specified _____

All cabinets, unless otherwise specified shall have sliding plexiglass doors that are 1/4 inch thick with full height extruded aluminum pull handles. The doors shall be mounted in top and bottom felt lined sliding tracks.

We comply completely as specified _____ We Do Not comply as specified _____

SHELVING:

Due to the fact that aluminum shelving may rattle and cause an unusual amount of road noise, Shelving in the cabinets shall be made of minimum 1/2 inch cabinet grade wood, laminated on both sides and mounted on unistrut tracks. No clips shall be allowed for holding shelves.

We comply completely as specified _____ We Do Not comply as specified _____

ALUMINUM HEADLINER:

The module headliner shall also be constructed of aluminum painted bright white. No molded fiberglass or wood laminate headliners are acceptable.

We comply completely as specified _____ We Do Not comply as specified _____

PATIENT COMPARTMENT INTERIOR APPOINTMENTS:

All cabinets and counter tops shall be caulked and sealed to prevent absorption of blood and other bodily fluids. Cabinets shall incorporate 1-inch aluminum radius and padded corners to lessen the chance of serious injury in an accident. **All Latches shall be Southco stainless steel.**

We comply completely as specified _____ We Do Not comply as specified _____

The left wall from the bottom of the CPR seat to the floor shall be covered with Highly Polished Stainless Steel. The stainless steel shall be installed after the floor covering is covered up the side wall so that the stainless steel edge goes over the flooring therefore not allowing any fluids to seep into a seam at the floor level and soak between the floor and floor covering and cabinets.

We comply completely as specified _____ We Do Not comply as specified _____

LEFT WALL CABINETS:

There shall be large medical supply cabinets on the left wall at ceiling level and each cabinet shall have shelves. The upper band cabinets on the left wall shall have the Speed load hinged frame with gas strut hold open Option and lock.

We comply completely as specified _____ We Do Not comply as specified _____

The Left rear Equipment cabinet at the rear of the truck shall have one shelf and a Speed load hinged frame with gas strut hold open option and lock. This cabinet shall also have eight (8) infinitely adjustable dividers for both top and bottom of the cabinet. Total of 16 dividers in this cabinet. This cabinet should angle towards the wall as it approaches the CPR seat to provide more head clearance for the CPR seating area.

We comply completely as specified _____ We Do Not comply as specified _____

The Front Action area supply cabinet shall have one shelf and a Speed load hinged frame with gas strut hold open option and lock. This cabinet shall also have eight (8) infinitely adjustable dividers for both top and bottom of the cabinet. Total of 16 dividers for this cabinet. This cabinet should angle towards the wall as it approaches the CPR seat to provide more head clearance for the CPR seating area.

We comply completely as specified _____ We Do Not comply as specified _____

A moderate sized cabinet shall be installed over the CPR seat with flip up plexiglass door.

We comply completely as specified _____ We Do Not comply as specified _____

LEFT REAR WALL MEDICAL CABINET:

A large cabinet with a minimum of two adjustable shelves shall be installed on the rear wall AFT of the CPR seat. It will have sliding plexiglass doors.

We comply completely as specified _____ We Do Not comply as specified _____

LEFT WALL REAR IN/OUT CABINET

The lower section of the left rear AFT of CPR seat cabinet will open to the left rear exterior compartment #4. Sliding Plexiglass door which also folds down to open.

We comply completely as specified _____ We Do Not comply as specified _____

DRAWERS:

Any Drawers that may be installed in the patient area must be made of aluminum to add strength. They shall be sprayed with scorpion to prevent any corrosion and must be mounted on 300 lb roller slides. The Fronts of the drawers can be made of wood to allow for proper width to install Round Southco Stainless Steel Latches.

We comply completely as specified _____ We Do Not comply as specified _____

LEFT WALL MEDICAL STORAGE DRAWERS:

There will be two (2) medical storage drawers mounted beneath the left wall rear counter AFT of the CPR seat. These drawers will be Four (4) inches tall and 16 inches wide each.

We comply completely as specified _____ We Do Not comply as specified _____

COUNTER TOPS AND ACTION AREA:

The counter tops on the left wall both front and rear of the CPR seat shall be constructed of one piece of a non porous composite material equivalent to Corian that has molded raised lips completely around the counter to prevent fluids or spills of any kind from rolling off into cabinets. It shall be available in various colors. No Fiberglass counter tops.

We comply completely as specified _____ We Do Not comply as specified _____

LEFT WALL CPR SEAT:

A left wall mounted side attendant seat shall be mounted into the left wall at approximately the upper chest area of the patient on the primary stretcher.
A seat belt shall be included for attendant safety.

We comply completely as specified _____ We Do Not comply as specified _____

REAR MONITOR SHELF:

A second counter for storing a monitor shall be installed rearward of the CPR seat.

We comply completely as specified _____ We Do Not comply as specified _____

FRONT BULKHEAD PASSTHROUGH:

There shall be NO access door between the cab and the patient compartment at the front bulkhead. This area shall just be left open with a window with Bellows between cab and box. This will allow communications between the driver and the attendant in the rear. There will also be storage drawers located in this pass thru area.

We comply completely as specified _____ We Do Not comply as specified _____

PASS THRU STORAGE DRAWERS:

There will be Two (2) storage drawers that will be (4) inches high and (16) inches wide each located in this area and will have a usable counter top installed on the top of the drawer stack.

We comply completely as specified _____ We Do Not comply as specified _____

LEFT FRONT BULKHEAD CABINET:

There will be a storage cabinet over the rear attendant seat and above the left side of the front bulkhead wall that will have a solid wood door with speedload feature. Stainless Steel Latch.

We comply completely as specified _____ We Do Not comply as specified _____

CENTER FRONT BULKHEAD CABINET:

There shall be a small cabinet directly over the right side of the pass thru area of the bulkhead that will have a solid wood hinged door. Stainless Steel Latch. WITH Simplex Combination Lock.

We comply completely as specified _____ We Do Not comply as specified _____

A.L.S. UPPER BULKHEAD REFRIGERATOR

A **Norcold Brand Refrigerator** shall be installed over the right front bulkhead A.L.S. Cabinet.

We comply completely as specified _____ We Do Not comply as specified _____

A.L.S. CABINET CENTER DRAWER:

There will be a Large Full Width Drawer in the center of the right front ALS Area. This drawer will be approximately eight (8) inches tall and full width and be accessible behind a roll up door.

We comply completely as specified _____ We Do Not comply as specified _____

The Inside / Outside portion of the ALS cabinet shall have a Robyns Roll Up Door. There will be one adjustable shelf in this cabinet and the doors will have Southco Stainless Steel Latches.

We comply completely as specified _____ We Do Not comply as specified _____

SQUAD BENCH CABINETS:

A row of Two (2) cabinets shall run from front to rear of the patient area directly over the squad bench. These cabinets shall be built in the same manner as the other cabinets in the vehicle and shall have sliding plexiglass doors. Generous padding will be installed at the lower rim of the cabinets and beneath the cabinets for attendant safety. The cabinets shall be at least 7 1/2 to 8 inches in height and 8 inches deep and 40 inches long each. **Each cabinet will have five (5) adjustable dividers.** The cabinets MUST comply with the new NIOSH and KKK-A-1822-F head clearance requirements of 43 inches clearance between top of squad bench seat cushion and bottom of padding beneath cabinets above. These cabinets will also have L.E.D. Lighting.

We comply completely as specified _____ We Do Not comply as specified _____

SQUAD BENCH DRAWERS:

There will be TWO (2) Six inch tall Drawers mounted basically in the center of the squad bench. The width of the drawers will be finalized at pre build.

We comply completely as specified _____ We Do Not comply as specified _____

SQUAD BENCH CONSTRUCTION:

The squad bench itself shall be constructed entirely of Stainless Steel for added strength and ruggedness. The use of stainless steel for construction besides adding strength allows for stainless on the aisle wall without layering over wood. It also gives slightly more interior under bench storage space. If you do not use stainless for construction then the aisle side of the bench must be covered with stainless steel front to rear. **NO EXCEPTIONS.**

We comply completely as specified _____ We Do Not comply as specified _____

The bench seat itself shall be constructed of Three sections and three seat cushions with seat belts for three patients seated and to secure a board or cot down with three straps.

We comply completely as specified _____ We Do Not comply as specified _____

The squad bench lids shall be held open with gas strut hold open devices. Ratchet style hold open devices are not acceptable.

We comply completely as specified _____ We Do Not comply as specified _____

BENCH FORWARD ARMREST:

A fold down MVP head of squad bench armrest shall be installed that is hinged to the top of the forward end of the squad bench. It will be padded top and rearward side. The forward side shall be open and have a stainless steel grab handle inserted inside. The restraint will be held in place with a bolt that will slide into the side wall. **NOTE: This is in no way meant to be a passenger restraint for anyone sitting on the squad bench. It is not structurally strong enough to stop occupant. It is only meant as an armrest.**

We comply completely as specified _____ We Do Not comply as specified _____

REAR ATTENDANT SEAT w/ EVS CHILD SEAT:

An attendant seat shall be located at the head of the primary stretcher. It shall be an EVS Brand high back captains like chair with seamless vacuum formed cushions and a built in fold down Child Seat. The chair shall be mounted on a cabinet or footed base, and shall slide back and forward and shall include seat belt for attendant safety.

We comply completely as specified _____ We Do Not comply as specified _____

GLOVE STORAGE:

There will be FOUR (4) Glove Box cabinets located recessed into the padding over the side entry door. Each cabinet will have an Oval shaped hole cut out and will have a flip up lid. Additionally there will be TWO (2) Glove box storage cabinets over the rear doors.

We comply completely as specified _____ We Do Not comply as specified _____

OVERHEAD GRAB RAILS:

There will be two (2) full-length stainless steel handicap style 1 1/2" diameter grab rails that shall be installed on the patient compartment ceiling. The rails shall be capable of supporting a minimum of 300 pounds. The grab rails shall each be treated with Agion Anti-Bacterial Coating.

We comply completely as specified _____ We Do Not comply as specified _____

The grab rails **MAY NOT** be recessed into the headliner, as this takes away from the entire idea of the grab rail. Recessed rails are harder to grab in an emergency and may cause hand and wrist damage if the hand gets caught in the recess. **NO EXCEPTIONS**

We comply completely as specified _____ We Do Not comply as specified _____

ENTRY DOOR GRAB HANDLES:

All entry doors will have a matching heavy duty stainless steel handicap style 1 1/2" "V" bar grab handle that will be securely mounted slightly below the window in the curbside Door and the two (2) rear patient compartment entry doors. All three (3) of these grab handles shall be treated with Agion Anti-Bacterial Coating.

We comply completely as specified _____ We Do Not comply as specified _____

CEILING RECESSED I.V. HOLDERS:

There shall be recessed swing up and fold down dual bag/bottle I.V. holders that shall be mounted in the patient compartment headliner complying with KKK-A-1822-F. The fold down bag/bottle holders shall be heavy duty rubber and not metal to avoid injury to attendant.

We comply completely as specified _____ We Do Not comply as specified _____

REAR BENCH I.V. TRAY:

The rear third of the bench seat cushion shall be fold up style with gas strut. Beneath the lift up cushion will be a fairly large removable aluminum tray with several dividers for I.V. starting equipment. Final design will be at pre build.

We comply completely as specified _____ We Do Not comply as specified _____

FLOOR MOUNTED LOAD SYSTEM:

A **CUSTOMER SUPPLIED STRYKER POWER LOAD SYSTEM** shall be installed along with extra floor reinforcement and support. **NOTE:** All Stryker supplied placards and instruction panels shall be supplied and installed on the rear doors of the ambulance as instructed by Stryker.

We comply completely as specified _____ We Do Not comply as specified _____

PATIENT COMPARTMENT OXYGEN AND VACUUM SYSTEMS ON BOARD SUCTION:

An Sscor Brand suction pump, regulator and collection jar system shall be mounted in a recessed cabinet in the left wall below the front action counter. The control valve and gauge shall be located on the wall above.

We comply completely as specified _____ We Do Not comply as specified _____

ON BOARD PIPED OXYGEN SYSTEM:

All oxygen system hoses and fittings shall be made of nonferrous materials. Hoses used to pipe the medical oxygen shall be electrically conductive. The system shall be pressure tested per requirements of the most recent KKK-A-18822 document.

We comply completely as specified _____ We Do Not comply as specified _____

The Main Oxygen tank shall be located in a left front exterior compartment. This tank shall be held in place with a **ZICO BRAND HYDRAULIC LIFT** mounting system. Each Oxygen outlet in the patient

area shall be hydrostatically tested and U.L. listed and approved.

We comply completely as specified _____ We Do Not comply as specified _____

There shall be Two (2) Oxygen outlets located on the left wall in the front action area.
There shall be One (1) Oxygen outlet installed on the right wall over the head of the squad bench.
There shall be One (1) Oxygen outlet installed in the ceiling directly over the head of the primary cot.

We comply completely as specified _____ We Do Not comply as specified _____

ELECTRIC OXYGEN SYSTEM:

The oxygen system shall be controlled by an electric solenoid with a manual bypass valve in case of electric failure. The controls for the electric oxygen system and the digital gauge with audible low oxygen alarm for the system shall be mounted on the left wall.
A Main Oxygen tank Regulator shall be included with the vehicle.

We comply completely as specified _____ We Do Not comply as specified _____

SHARPS AND TRASH:

The head of the squad bench shall have sharps and trash containers mounted beneath a bench lid that will lift up to gain access to the trash and sharps. There will be an exterior compartment door that will open just forward of the rear wheels that will allow access to the sharps and trash.

We comply completely as specified _____ We Do Not comply as specified _____

DRUG BOX:

Install in a cabinet on the front bulkhead, a KNOX BOX Medical Control vault with combination lock that allows each employee to have their own code.

We comply completely as specified _____ We Do Not comply as specified _____

INSULATION:

The entire patient compartment shall be blanketed with the highest R rating insulation package available. All of the doors, both patient entry and storage compartment doors shall have the same insulation in the form of block Polystyrene Foam in addition to reflectix. This added layer gives a higher acoustic insulation rating as well as good thermal insulation.

We comply completely as specified _____ We Do Not comply as specified _____

SEVERE TEMPERATURE INSULATION UPGRADE PACKAGE :

In addition to the standard insulation package, One inch block polystyrene foam is placed between the two layers of reflectix in areas between the side, front, rear and roof wall frame tubes. Because you

are going from one layer of insulation material to a second type and then to a third this Greatly increases the insulation factor. Squeezing more insulation of the Same Type than can fit in an area does not increase its R-factor.

This multiple material multiple layer insulation with an insulation rating of R-35 is required.

.

We comply completely as specified _____ We Do Not comply as specified _____

Does your insulation package include 3 separate layers as described Yes _____ No _____

3M SOUND DEADENING PACKAGE:

The ENTIRE aluminum subfloor as well as the wheel wells, the backs of all exterior compartments shall be COMPLETELY lined and covered with 3M sound deadening tape.

.

We comply completely as specified _____ We Do Not comply as specified _____

INSULATED AND SOUND DEADENED STEPWELL AND WHEELWELL AREAS:

The area around the side door stepwell and the wheelwell areas shall be heavily insulated by wrapping the entire area with a heavy thermal and acoustic insulation and sound deadening material. This area is critical to allowing heat and cold to penetrate the patient area as well as heavy sound. Positively No Exceptions to the Added Insulation and sound deadening in these areas.

We comply completely as specified _____ We Do Not comply as specified _____

PATIENT COMPARTMENT CLIMATE CONTROL - 12 VOLT H.V.A.C.

The rear patient compartment climate control H.V.A.C. system shall be floor mounted in the drivers side bulkhead area directly behind the attendant seat. This will eliminate having to add lengths of line to the Refrigerant and Heater Hose connections supplied by the OEM chassis manufacturer. Air intake shall be at floor level directly at the unit and output shall be through vents at shoulder level spaced across the front bulkhead. This also eliminates vertical circulation. The return air shall be filtered at the intake vent.

We comply completely as specified _____ We Do Not comply as specified _____

Additional benefit to the floor mounted unit is that condensation from the coils of the unit drip directly into a drain pan at floor level, then out through the floor of the vehicle. No danger of pans leaking or hoses leaking into cabinets over the bulkhead. And since there are no vents in front of the blower fans there will be no spitting of water into the compartment as with A.C. units mounted at ceiling level.

We comply completely as specified _____ We Do Not comply as specified _____

The unit chosen shall be a Pro-Air Unit with blower motor that shall have permanent magnets and be

capable of delivering 650 C.F.M. of air flow

The blower motor shall be capable of being replaced without removing the entire H.V.A.C. unit from its housing.

We comply completely as specified _____ We Do Not comply as specified _____

DUAL DIRECTION H.V.A.C. WITH CEILING DUCTED VENTS:

The Vents for the HVAC system shall be located in two separate and distinct positions. First there will be adjustable vents located on the front bulkhead wall above the captains chair and Secondly there will be a row of Four adjustable vents running down the center of the ceiling from the head of the primary stretcher to the rear of the truck.

We comply completely as specified _____ We Do Not comply as specified _____

THE CEILING VENTING SYSTEM SHALL BE REMOVABLE SO IT CAN BE CLEANED AND DISINFECTED. ABSOLUTE MUST. NO EXCEPTIONS. THIS IS A HEALTH ISSUE

We comply completely as specified _____ We Do Not comply as specified _____

Are your HVAC ducting system removable for easy cleaning and disinfecting

YES _____ NO _____

REAR STEP BUMPER:

The rear step assembly shall be constructed of 1 3/4" X 1 3/4" tubular steel frame bolted to the chassis frame. The center section shall be non-skid grip strut that will allow mud and snow to fall through the step. **The center section shall be hinged and flip up for easy loading and unloading of the cot.** The end caps shall be constructed of polished aluminum diamond tread plate. The end caps shall be installed in such a manner that they can easily be replaced if damaged. The rear step bumper shall be trimmed in stainless steel.

We comply completely as specified _____ We Do Not comply as specified _____

REAR DOCK BUMPERS:

Heavy Duty black rubber dock bumpers shall be installed on the rear step end caps. The dock bumpers shall be 18" wide x 4" high x 4" deep. Dock bumpers that are smaller in size are unacceptable.

We Comply completely as specified _____ We Do Not comply as specified _____

CURBSIDE DOOR STEP WITH FOUR INCH DROP:

The side doorstep shall be formed of polished aluminum diamond tread plate and shall be flush sweep out style WITH TWO STEPS. The side of the body from the front of the box to the rear wheels shall be dropped an additional 4 inches to make the step easier to get into for crew and family. **NO EXCEPTIONS**

We comply completely as specified _____ We Do Not comply as specified _____

STREETSIDE FOUR INCH DROP:

To make the appearance of the vehicle symmetrical and to add storage on the streetside, the body skirt line forward of the dual wheels shall be dropped four inches in the same manner as the curbside. This will increase the depth of the #1 and #2 exterior compartments by 4 inches.

We comply completely as specified _____ We Do Not comply as specified _____

SIDE DOOR STEPWELL:

Two (2) inch wide Antiskid tape is to be laid the full width of the step just inside the entry door. Additionally there shall be a formed 3-inch, full width stainless steel floor protection strip installed over the flooring at the top of the step. A step well light is to be installed on the forward vertical wall of the step well with the wiring to be pulled through the backside of the step well. The exterior area of the stepwell shall be heavily insulated for sound and thermal.

We comply completely as specified _____ We Do Not comply as specified _____

ANTI CORROSION AND ELECTROLYSIS PROTECTION:

In order to prevent corrosion and other oxidation from contact of dissimilar metals, a material known as "ECK" shall be applied between all metal surfaces mounted together. This shall be between hinges and doors, fenderettes and body, light fixtures and on screws etc. This material is a zinc based anti corrosion application and has a 5 year warranty. This material has become a standard of the industry.

We comply completely as specified _____ We Do Not comply as specified _____

The use of a Mylar Tape or any similar material between hinges and the doors and hinges and the body is unacceptable as it has been our experience that after a time some of this mylar tape works its way out from between the materials thereby losing the anti corrosion barrier.

We comply completely as specified _____ We Do Not comply as specified _____

DECALS D.O.T. STAR OF LIFE AND AMBULANCE PACKAG:

A full set of star of life and ambulance decals that meet requirements of the D.O.T. and KKK-A-1822 shall be shipped loose with the vehicle for customer installation. This shall include a large roof star of life, WHICH SHALL BE INSTALLED.

We comply completely as specified _____ We Do Not comply as specified _____

DECALS AND NOMENCLATURE:

There will be Two No Smoking Oxygen Equipped signs as well as Fasten Seat Belt signs located in the cab and patient compartment as well as the Weight/Payload, Electrical Load Test, and Star of Life Certification decals, and these shall be displayed On the inner door panel of the oxygen compartment

as required by KKK-A-1822-F.

We comply completely as specified _____ We Do Not comply as specified _____

PAINTING PROCEDURE:

ALL HOLES IN THE BODY FOR LIGHTS AND DRILL HOLES FOR DOOR HINGES SHALL BE CUT AND DRILLED PRIOR TO PAINTING SO THAT THE PAINT SURFACE IS NOT BROKEN ELECTROSTAICALLY LEADING TO EARLY ELECTROLYSIS.

We comply completely as specified _____ We Do Not comply as specified _____

PAINT APPLICATION:

The application of the paint is one of the most warranted items other than electrical on the unit. We do not wish to argue over paint warranty with an outsourced vendor, therefore the application of the paint on the ambulance MUST be done in house by the ambulance manufacturer themselves in their own paint booths.

We comply completely as specified _____ We Do Not comply as specified _____

An extensive 12-step painting process is to be followed and strictly adhered to as follows:

Prior to paint all doors, chrome trim, lights, handles, steps, and all other attached equipment shall be removed to assure the paint process covers the entire body. No Weather-stripping will be attached to the body during the paint process.

We comply completely as specified _____ We Do Not comply as specified _____

The entire outside of the body shall be sanded with a minimum of 180 grit sandpaper and cleaned and deburred of all rough edges. The entire body shall then be wiped clean with PPG DX436 wax and grease remover prior to painting.

We comply completely as specified _____ We Do Not comply as specified _____

The body shall then be coated with (1) coat of PPG Delfleet Evolution F3993 Epoxy Primer followed by (2) coats of PPG Delfleet F3975 Urethane Primer. Once the primer has been applied the entire unit shall be baked at 150 degrees for a minimum of 30 minutes. The primer shall then be sanded prior to the application of the topcoat.

We comply completely as specified _____ We Do Not comply as specified _____

Once the application of the primer has been completed, a topcoat consisting of (2) coats of PPG Delfleet Evolution Color Coat is applied followed by (2) coats of PPG Delfleet Evolution F3921 Clear Coat for a durable long lasting high gloss finish. The entire unit shall then be baked a second time at 160 degrees for a minimum of (45) minutes.

We comply completely as specified _____ We Do Not comply as specified _____

PAINT COLOR:

The entire box will be Painted Solid White.

We comply completely as specified _____ We Do Not comply as specified _____

REFLECTIVE VINYL GRAPHICS/LETTERING:

This vehicle should match existing O’Fallon EMS units reflective striping and lettering. Pictures or viewing existing units will be available upon request. These items will be installed by the ambulance manufacturer and should be included in the bid price.

We comply completely as specified_____ We Do Not comply as specified_____

DIAMOND GRADE CHEVRONS ON REAR AND PORTION OF DOORS:

Two color Blue and White Diamond Grade chevrons will be installed on the rear of the ambulance to match our other vehicles. There shall also be the same style chevrons on the lower portion of the interior access doors. This will be installed by the ambulance manufacturer and should be included in the bid price.

We comply completely as specified_____ We Do Not comply as specified_____

PAINT WARRANTY:

The complete paint job shall carry a full FIVE YEAR or 100,000 mile **NON PRO-RATED warranty.**

We comply completely as specified _____ We Do Not comply as specified _____

CORROSION WARRANTY:

The entire modular body shall also be covered against corrosion in any form for a FULL FIVE YEAR or 100,000 miles, and shall be **NON PRO-RATED.**

We comply completely as specified _____ We Do Not comply as specified _____

Pro-Rated Paint Warranties or paint warranties that do not cover corrosion for the same length of time as the paint warranty are Unacceptable.

This is a major issue. If your paint or corrosion warranty is Pro-Rated in any way, you must take exception here and above and state clearly on an exception page how your warranty is set up for time, and pro-rated.

We comply completely as specified _____ We Do Not comply as specified _____

ELECTRICAL WARRANTY:

The entire electrical system shall be warranted for 10 years or 100,000 miles.

We comply completely as specified_____ We Do Not comply as specified_____

UNDERCOATING:

The final step shall then be to apply Rubberized undercoating to the underside of the cab and the body in strict adherence to Ford QVM guidelines and the KKK-1822- E Specification just

prior to delivery.

We comply completely as specified _____ We Do Not comply as specified _____

EXTERIOR COMPARTMENT LAYOUT

#1 LEFT FRONT

This compartment shall be for storage of the main oxygen tank and Zico hydraulic lift. There will be a full width shelf located above the main tank and bracket. This will hold radios power packs and other equipment.

Dimensions shall be 22" wide X 80" high X 21" deep.

We comply completely as specified _____ We Do Not comply as specified _____

#2 LEFT FRONT EQUIPMENT STORAGE - DOUBLE DOOR

This double door storage compartment shall be forward of the dual wheels and shall have at least one infinitely adjustable aluminum shelf.

Dimensions shall be 42" wide X 48" high X 21" deep

We comply completely as specified _____ We Do Not comply as specified _____

#4 LEFT REAR STORAGE COMPARTMENT

This compartment located to the rear of the dual rear wheels shall be for general storage. It will have Inside/Outside access in the upper area with a door that is hinged to fold down towards the inside, but will also have sliding plexiglass doors for the interior and a shelf in the outside. In addition the spare tire will be mounted against the back wall in the lower section.

Dimensions shall be 38" wide X 64" high X 21" deep

We comply completely as specified _____ We Do Not comply as specified _____

#5 RIGHT REAR BACKBOARD AND STAIR CHAIR STORAGE

This compartment on the very rear on the right side of the body shall be for storage of several backboards as well as a stair chair. A floor cup Bracket to hold a Stryker stair chair shall be installed. There shall be at least 1 shelf above the 40 inch level with access to the interior thru a café style door.

Dimensions shall be 24” wide X 86” high X 21” deep.

We comply completely as specified _____ We Do Not comply as specified _____

#6 RIGHT REAR INTERMEDIATE STORAGE:

This small compartment will be rear of the dual wheels.

Dimensions shall be 15” wide X 25” high X 21” deep

We comply completely as specified _____ We Do Not comply as specified _____

#6-B RIGHT FORWARD OF WHEEL

A small storage compartment for access to sharps and hazardous waste shall be provided forward of the rear wheels and just AFT of the side entry door. This compartment will open to the interior beneath the forward head of the squad bench.

Dimensions shall be 15” wide X 25” high X 21” deep

We comply completely as specified _____ We Do Not comply as specified _____

#7 RIGHT FRONT ALS COMPARTMENT

This compartment shall have inside outside access and will house various life support medical equipment. There shall be at least Two (2) infinitely adjustable shelves and a 6 inch tall drawer near the center.

Dimensions shall be 22” wide X 66” high X 31” deep

We comply completely as specified _____ We Do Not comply as specified _____

#8 BATTERY COMPARTMENT

There will be an outside battery tray located beneath the A.L.S. inside / outside compartment that will house Two (2) ADDITIONAL Batteries. The two (2) OEM Batteries must remain under the hood. These two added batteries will be used only for starting the vehicle. They will be wired so they are charged while driving, but will only draw for starting and no other electrical applications.

We comply completely as specified _____ We Do Not comply as specified _____

LED STRIP LIGHTING IN COMPARTMENTS:

All exterior compartments will have L.E.D. strip type lighting up and down each side of each door that will illuminate the interior of the compartment. No other lighting will be accepted.

We comply completely as specified _____ We Do Not comply as specified _____

QUICK ANALYSIS QUESTIONNAIRE

This page MUST be filled out completely and returned with the bid proposal. If you fail to return this page, or it is not filled out completely, your bid most likely will be disqualified as non-compliant. This page will be helpful to us in quickly determining qualification and compliance to specifications.

Will the Liquid Spring System be installed by the ambulance builder	YES	NO
Is the ambulance builder 100% owned by an American Company	YES	NO
Is the ENTIRE ambulance manufacturing facility located within the continental United States	YES	NO
Is the aluminum body Fully Seam Welded	YES	NO
Is the aluminum body FULLY SEAMLESS	YES	NO
Do the body Dimensions match our specifications of a 176 Inch Long box	YES	NO
Do the body Dimensions match our specifications with 74 inch headroom	YES	NO
Are the corner and roof perimeter extrusions all .250 thick aluminum	YES	NO
Are the body sheet skins all made of .125 thick aluminum	YES	NO
Is the roof sheet one piece and made of .125 thick aluminum	YES	NO
Are all the door skins on all doors made of .125 thick aluminum	YES	NO
Is the sub floor made of .090 aluminum or heavier	YES	NO
Are the subfloor frame member extrusions made of .250 thick tubular aluminum	YES	NO

Is the alloy used for the aluminum skin 3003	YES	NO
Are ALL the side body frame members .125 thick, two inch square tubes	YES	NO
Are the frame members spaced no further apart than 12 inches on centers	YES	NO
Are your lower body crash rails easily removable and replaceable without welding	YES	NO
Do ALL exterior compartments have two tubular extrusions welded beneath the floor of the compartments for added support.	YES	NO
In addition to welding, do the corner and roof extrusions interlock into each other and into the roof corner caps prior to welding.	YES	NO
Are the door frame extrusions for ALL doors .188 thick as a minimum	YES	NO
Is a CNC Machine used to cut the aluminum sheets and stamp unit numbers Into each piece for identification and ease of replacement	YES	NO
Are the interior cabinets all made COMPETELY of 3/4 Inch Birchwood	YES	NO
We have requested a heavier duty insulation package. Does your insulation package have a rating of R-32 or higher	YES	NO
We have also requested a heavier sound deadening package to include 3M sound abatement tape on back of compartments and on entire subfloor. Do you include this	YES	NO
The rear HVAC system is to include removable ceiling ducting vents so they can be cleaned and disinfected. Are your ceiling HVAC ductwork & vents removable	YES	NO
Does your bid match the exterior compartment layout as described	YES	NO
Does your bid match the interior cabinet layout as described	YES	NO
Does your Paint warranty cover materials and labor for a full 5 years or 100,000 miles	YES	NO
Does your Paint warranty also cover CORROSION for the full 5 years or 100,000 miles	YES	NO
Is your paint and corrosion warranty NON PRO-RATED for the full term of the warranty	YES	NO
Is the electrical system included with your proposal include the WELDON V-Mux as specified.	YES	NO
Does your proposal include ALL the paint AND Graphics as shown in the photos	YES	NO
Does your proposal include the warning light package as specified	YES	NO
Does your chassis include Aluminum wheels as specified	YES	NO
Does your bid proposal include the installation of the antennas and radio heads that will be supplied by City of O'Fallon as specified	YES	NO
Does your bid proposal include the ZICO Hydraulic O2 bottle lift.	YES	NO

