County of Otero Purchasing
1101 New York Ave., Room 118
Alamogordo, NM 88310
(575) 434-0710
FAX (575) 443-2914

Sealed Bid 17-017 Fire Rescue Vehicle
SUNSPOT VFD

Bid Deadline: Tuesday, December 13, 2016
@ 3:00 PM

Procurement Agent: Ginger Herndon

INVITATION FOR BIDS

THE COUNTY OF OTERO IS REQUESTING COMPETITIVE SEALED BIDS FOR THE FOLLOWING GOODS OR SERVICES:

TITLE: **FIRE RESCUE VEHICLE FOR SUNSPOT VFD**
BID NO.: **17-012**
OPEN: **TUESDAY DECEMBER 13 2016 @ 3:00 P.M. local time**

FOR ADDITIONAL INFORMATION CONTACT:

GINGER HERNDON PURCHASING AGENT
PHONE: (575) 434-0710

THE OFFICE OF THE PURCHASING AGENT, COUNTY OF OTERO WILL RECEIVE COMPETITIVE SEALED BIDS FOR THE GOODS OR SERVICES DESCRIBED IN THIS BID AT:

VIA MAIL
OTERO COUNTY PURCHASING
1101 NEW YORK AVE. ROOM 118
ALAMOGORDO, NM 88310

HAND CARRIED
OFFICE OF THE PURCHASING AGENT
1101 NEW YORK AVE. ROOM 118
ALAMOGORDO, NM 88310

ANY BIDS RECEIVED AFTER BID OPENING DATE/TIME WILL BE RETURNED UNOPENED. PLEASE USE THE ENCLOSED MAIL LABEL ON THE OUTSIDE OF YOUR ENVELOPE.

NOTE: USE OF THE MAIL SERVICE IS AT YOUR OWN RISK FOR PROPER DELIVERY.

DUE DATE, Tuesday, December 13, 2016

Having carefully examined the notice to bidders, general instructions to bidders, terms and conditions, supplemental terms and conditions, and project specifications, addenda(s), the site of the work, the work on the above-named project, the undersigned hereby proposes to furnish all materials, labor, equipment, tools, transportation, services, licenses, fees, permits, etc. (not including New Mexico Gross Receipt Taxes or any additive alternates) required by said documents and to complete all divisions of the work stipulated. The Board reserves the right to reject any or all bids and waive any/all formalities.

It is Otero County's intent to order 1 or more of this type of apparatus as identified in the specifications with the provision that Otero County or other government entities may also utilize this bid process and price agreement for a period on not less than 180 days from award date. Bid pricing shall be provided by apparatus providers that the vehicle(s) could be purchased as indicated in this bid and that change orders could also be requested provided that the request meets New Mexico Purchasing Procurement Procedures as dictated by State Statute or rule.

All bids shall be submitted with options clearly indicated in the bid package as indicated within this document.

SEE ATTACHED SPECIFICATIONS FOR COMPLIANCE

COMPANY NAME: _____

ADDRESS: _____

_____

PHONE# _____ FAX# _____

EMAIL: _____

PRINT NAME: _____

SIGNATURE: _____

RECEIVED ADDENDA NUMBERS: _____, _____, _____, WHEN ISSUED.

IN STATE PREFERENCE NO: _____

SUPPLEMENTAL TERMS AND CONDITIONS

THESE SUPPLEMENTAL TERMS AND CONDITIONS ARE IN ADDITION TO THE GENERAL INSTRUCTIONS, TERMS AND CONDITIONS AND, IN THE EVENT OF A CONFLICT BETWEEN THE PROVISIONS OF THE GENERAL INSTRUCTIONS, TERMS AND CONDITIONS AND THESE SUPPLEMENTAL TERMS AND CONDITIONS, THE PROVISIONS OF THESE SUPPLEMENTAL TERMS AND CONDITIONS SHALL CONTROL.

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GUARANTEED PERFORMANCE:
THE BIDDER, IF AWARDED A CONTRACT AS A RESULT OF THIS BID, GUARANTEES THAT THE MATERIALS SUPPLIED ARE CAPABLE OF THE PERFORMANCE REQUIRED IN THE SPECIFICATIONS IN THIS BID, AND AGREES TO MAKE SUCH CHANGES, ADJUSTMENTS OR REPLACEMENTS AS ARE IMMEDIATELY NECESSARY IN ORDER FOR THE MATERIALS TO MEET THE PURCHASING REQUIREMENTS AT NO COST TO THE COUNTY. IF DEFECTS OR SPECIFICATION FAILURES ARE DISCOVERED, THE PURCHASING OFFICER SHALL HAVE THE RIGHT, NOTWITHSTANDING ACCEPTANCE AND PAYMENT TO REQUIRE THE UNIT/ITEM TO BE PROPERLY FURNISHED IN ACCORDANCE WITH THE SPECIFICATIONS AND DRAWINGS AT THE COST AND EXPENSE OF THE BIDDER OR THE BIDDER'S SURETY.

INSPECTION OF MATERIALS:
THE COUNTY RESERVES THE RIGHT TO INSPECT MATERIALS PROVIDED BY THE BIDDER THROUGH A CONTRACT RESULTING FROM THIS BID TO DETERMINE THEIR QUALITY, FITNESS AND SUITABILITY. INSPECTION OF THESE MATERIALS MAY BE CONDUCTED WHENEVER THE COUNTY CONSIDERS NECESSARY.

MANUFACTURER'S INFORMATION:
ANY BID MADE IN RESPONSE TO THIS INVITATION MUST INCLUDE THE MANUFACTURER'S MAKE AND MODEL NUMBER (AS APPLICABLE) OF EACH ITEM AND LITERATURE CLEARLY DESCRIBING THE ITEM. FAILURE TO PROVIDE THIS INFORMATION MY RESULT IN REJECTION OF THE BID.

MATERIALS AND WORKMANSHIP:
ALL MATERIALS FURNISHED BY THE BIDDER SHALL BE FREE FROM DEFECTS AND IMPERFECTIONS. WORKMANSHIP SHALL BE IN ACCORD WITH THE BEST INDUSTRY STANDARDS AND PRACTICES. BOTH MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE COUNTY.

BRIBES, GRATUITIES, AND KICKBACKS:
PURSUANT TO 13-1-191 NMSA 1978, REFERENCE TO HEREBY MADE TO THE CRIMINAL LAWS OF NEW MEXICO (INCLUDING 30-14-1, 30-24-2 AND 30-4-1 THROUGH 30-41-3 NMSA 1978), WHICH PROHIBIT BRIBES, KICBACKS AND GRATUITIES, VIOLATION OF WHICH CONSTITUTES A FELONY. FURTHER, THE PROCUREMENT CODE (13-1-28 THROUGH 13-1-199 NMSA 1978) IMPOSES CIVIL AND CRIMINAL PENALTIES FOR CODE VIOLATIONS.

COLLUSION
NO PROPOSER SHALL BE INTERESTED IN MORE THAN ONE PROPOSAL. COLLUSION AMONG PROPOSERS OR THE SUBMISSION OF MORE THAN ONE PROPOSAL UNDER DIFFERENT NAMES BY ANY FIRM OR INDIVIDUAL SHALL BE CAUSE FOR REJECTION OF ALL PROPOSALS WITHOUT CONSIDERATION.

COUNTY OF OTERO
INVITATION FOR BIDS

GENERAL INSTRUCTIONS, TERMS AND CONDITIONS

IMPORTANT: **READ CAREFULLY BEFORE SUBMITTING BIDS. FAILURE TO DO SO SHALL NOT ABSOLVE THE BIDDER FROM RESPONSIBILITY TO PERFORM OR DELIVER AS SPECIFIED.**

1. APPLICABILITY: Except as otherwise specifically provided in this bid, these General Instructions, Terms and Conditions shall govern the procurement of the items specified in this bid. In the event of a conflict between these General Instructions, Terms and Conditions, Supplemental Conditions or the specifications of this bid, the order of application shall be the Specifications, Supplemental Conditions and the General Instructions, Terms and Conditions. In addition, the Public Purchases Ordinance and promulgated Rules and Regulations shall apply.

2. DEFINITIONS: As used in this bid, the definitions of the Public Purchases Ordinance apply including the following.

   A. **"Bid"** means all documents, including those attached or incorporated by reference, issued by the Purchasing Department for soliciting offers to provide goods, services or construction.

   B. **"Contract"** means any agreement for the procurement of goods, services, construction or concessions. A Purchase Order issued in response to an offer constitutes a contract.

   C. **"Contractor"** means an offerer who has been awarded a contract.

   D. **"County"** means the County of Otero, New Mexico.

   E. **"Purchase Order"** means a document issued by the Purchasing Office directing the Contractor to deliver goods, services or construction.

   F. **"Purchasing Office"** means the Purchasing Department of Otero County.

   G. **"Purchasing Agent"** means the person charged with the responsibility of administering the Department.

   H. **"Bidder"** means a business that submits a response to a competitive solicitation.

I. **"Responsible Bidder"** means a business which has the capability in all respects to perform fully the contract requirements set out in the competitive solicitation, and the integrity and reliability which will assure good faith performance, and who has not violated or attempted to violate any provision of law or ethical conduct. Factors which may be considered in determining the offeror's capability to perform, among others, are its financial resources, production or service facilities, service reputation and experience.

J. **"Responsive Bid"** means a written offer to furnish goods, services or construction in conformity with standards, specifications, delivery terms and conditions, and all other requirements established in a competitive solicitation.

K. **"Successful Bidder"** means the lowest Responsible Bidder to whom Otero County, on the basis of the County's evaluation, makes an award. A Successful Bidder does not become a contractor until a purchase order is signed by the County.

3. **INSTRUCTIONS TO THE BIDDER**

Sealed Bids are desired from reputable manufacturers of automotive fire apparatus in accordance with the specifications for the apparatus as per attached. These specifications are assumed to be compliant with all current NFPA standards. ***If the vendor knows otherwise, the vendor will notify Otero County Purchasing immediately.***

The apparatus shall meet the detailed requirements of the most current and applicable NFPA Standard and these specifications and any special provision that may be attached.

Pursuant to Sec 13-1-188 NMSA, 1984 Comp., any state agency shall only purchase cars and trucks assembled in North America.

Any exceptions to the bid shall be listed separately and specifications attached are minimum requirements. The specifications submitted herein are all that were available to the Purchaser at the time of this mailing. Minor deviations to the specifications as listed, may be considered.

The apparatus shall be designed to meet the specified rating at 8,000 feet altitude and shall be subjected to off road use; thus engineering, design, and fabrication must allow for the additional stress and strain.

A. Submission: All Bids must be submitted on the Invitation for Bids form enclosed. Failure to do so may disqualify your offer. It is the responsibility of the bidder to submit sufficient additional information to allow for a thorough evaluation of the bid submitted.

B. Preparation Method: All information required in this Bid must be typewritten or handwritten in ink and must be legible. Erasures or other changes must be initialed by the person signing the offer. Each bid must be signed on the appropriate pages by an individual authorized to bind the bidder submitting the bid.

C. Unit Prices: The unit price for each item offered shall be shown unless otherwise specified. In the case of a discrepancy between the unit price and the extended price, the unit price will govern in determining the price used for evaluation. Unit prices offered should be for the units specified.

D. Delivery Time: Delivery time stated in the specifications shall apply. Deviations by the bidder shall be stated. Time, if stated in number of days, will be consecutive calendar days.

E. Payment Terms: The Invitation for Bids form provides space for the bidder to identify the payment terms that the bidder is offering. Terms of less than twenty (30) days will not be considered. The discount term shall not begin until the goods, services or construction have been delivered and accepted and the correct invoice received in the County Accounts Payable Office.

F. Freight Policy: Freight will be F.O.B. Destination (As indicated on the Invitation for Bids form), Freight Prepaid, unless otherwise specified in this Bid.

G. Taxes: Bidders shall not include any applicable gross receipts taxes in its offered price, unless specified otherwise in this bid, and such offer will be construed in the manner. The County will, under appropriate circumstances, furnish a non-taxable transaction certificate. Determination of whether the tax is due and payment of the tax is the responsibility of the bidder. Applicable taxes are to be included in each invoice due and may not be billed more than sixty (60) days after providing the services to which the taxes apply.

H. New Material, Etc.: All materials, supplies, equipment, and vehicles specified in this Bid shall be new, the latest in production and manufactured within the last twelve (12) months (computed from the date and time of offer opening) unless otherwise indicated. This does not apply to materials, supplies, equipment or vehicles used by the Contractor to provide the required items of tangible personal property, services or construction.

I. Warranty: The bidder agrees that the items of tangible personal property, services or construction furnished under any contract resulting from this bid shall be covered by the most favorable commercial warranties the bidder gives to any customer for such items. Further, the bidder agrees that the rights and remedies provided in such warranties extend to the County and are in addition to and do not limit any rights afforded to the County by any other clause of this bid. The bidder agrees not to disclaim warranties of fitness for a particular purpose of merchantability. Warranties shall become effective at the time of acceptance.

J. Equivalent Bids: Where a product is characteristic of a sole manufacturer, or where a brand name is indicated in the specifications, it shall be defined to mean "minimum acceptable level" or "minimum quality required" by the County unless the specifications state that no substitutions or equivalents will be allowed. If the bidder offers an item other than the one specified, which the bidder considers comparable, the manufacture's name and model number of that item must be specified in the bid and sufficient performance specification and descriptive data provided to permit a thorough evaluation. Failure to provide the appropriate information may result in disqualification of the bid.

K. Exception to Specifications: Bidders are to state any exceptions taken to this bid the bidder is required to furnish the items exactly as specified and to comply with all other requirements of this bid. The bidder shall clearly note the variances and provide adequate documentation of proof that the alternate meets or exceeds specifications.

L. Indemnity: The bidder to whom an award has been made as a result of this bid expressly agrees to defend, indemnify and save harmless the County and its officer, agents and employees from and against any and all claims, suits, demands, actions, or proceedings of every nature and description brought because of any injury or damage received or sustained by any person, persons, or property

arising out of the bidder's providing the goods, services for construction pursuant to the bid or by reason of any act or omission, neglect or misconduct of the bidder, the agents, employees or subcontractors of the bidder or the agents or employees of any subcontractor of the bidder. The indemnity required herein shall not be limited by reason of the specification of any particular insurance coverage.

M. Patent Indemnity: If any item furnished pursuant to any contract resulting from this bid shall be covered by any patent, copyright, or application for patent or copyright, the bidder shall defend, indemnify and save harmless the County from any and all loss, cost or expense or any and all claims suits, or judgments as a result of the use of such item in violation of rights under such patent, copyright, or application for patent or copyright.

N. Public Inspection: Each bid shall be open to public inspection, except to the extent the bidder designates trade secrets or other proprietary data to be confidential. Material so designated shall accompany the bid and each page shall be clearly marked and readily separable from the bid in order to facilitate public inspection of the non-confidential portion of the bid. Prices and makes and models or catalog numbers of the items offered, deliveries and terms of payment shall be publicly available at the time of the opening of the bid regardless of any designation to the contrary. The County shall endeavor to restrict distribution of the material designated as confidential to only those individuals involved in the review and analysis of the bids. Bidders are cautioned that materials designated confidential may nevertheless be subject to disclosure to any New Mexico citizen under the Inspection of Public Records Act (Sections 14-2-1 through 14-2-3 N.M.S.A. 1978)

O. Material Safety Data Sheets: To comply with the Occupational Health and Safety Regulation 1910.1200 for general standards on handling hazardous materials, material safety data sheets may be required for all or part of the products included on this bid. It is the responsibility of the bidder to make this determination and, if required, a copy of the MSDS must accompany the product when delivered to the end user. Failure to comply with this requirement may cause the delivery of products to be rejected and all costs related to such action to be borne by the bidder.

P. Pursuant to Sec 13-1-131 NMSA, 1984 Comp., as amended, Otero County reserves the right to reject any and all bids, whole or in part, submitted hereunder, provided that such rejections shall be accompanied by a written statement declaring the reason for the rejections.

Q. Each bidder shall supply a blueprint drawing of the apparatus being proposed.

R. If the awarded company fails to deliver the apparatus and equipment within the time specified, it is understood and the company agrees to the amount of one hundred dollars ($100.00) per unit, per day for each calendar day any work remains incomplete, to a maximum of the contract price may be deducted from the moneys due the contractor, not as a penalty, but as liquidated damages.

S. Bid proposal shall be accompanied by a certified check, Cashier check, or surety bond in the amount of ten (10) percent of the total price of the bid. The bid surety shall be made payable to this agency and conditioned upon the successful bidder accepting award and submitting an acceptable performance bond. In the event of failure of refusal to comply, the bid surety may be forfeited as liquidated damages because of such failure of default.

T. Within fourteen (14) calendar days after the official notification of award, the successful bidder shall furnish a performance bond, which is equal to 100% of contract price. The successful bidder and surety shall agree to bind themselves their successors, executors, administrators and assigns, jointly and severally to deliver the fire apparatus to the specifications, general conditions and to the purchase order. This bond shall remain in force until vehicle and equipment have been delivered and accepted. Failure to deliver any part of the order to terms above may be considered by the purchaser as a breach of contract, in which case the fire apparatus and equipment may be rejected and the purchaser has the right to require forfeiture of the full amount of the performance bond as liquidated damages. The attorney's-in-fact, who signs the bonds, must file with the bonds a certificate copy of their power of attorney to sign such bonds.

U. The awarded vendor is responsible for reporting all test results to the New Mexico State Fire Marshal's Office.

V. A minimum of $1,000,000.00 product liability insurance shall be provided and shall show the breakdown of:

General Aggregate (other than products, completed operations)
Products/completed operation aggregate
Personal and Advertising injury
Each Occurrence per Location
Umbrella/Excess Liability

W. Please be advised, this contract is null and void if the apparatus does not meet all the requirements stated in the current applicable NFPA Standard.

X. All purchases are governed by the statues of the State of New Mexico and the regulations of Otero County.

Y. The awarded bidder shall guarantee for the minimum of period of one (1) year that all new equipment furnished under these specifications shall be free from defects. The vendor shall repair or replace all such defective equipment F.O.B., fire station site. Each bidder must furnish satisfactory evidence of his ability to have warranty work done and where work is to be done.

Z. Each bidder shall furnish satisfactory evidence of their ability to construct the apparatus as specified and shall state the number of years the company has been actively engaged construction like or equal apparatus's. The location of the factory shall be disclosed.

You signature on the completed bid form will serve as a warranty that your bid is genuine and you agree with all contract provisions. A performance bond may be requested; no charge will be assessed to the County.

4. ETHICAL CONDUCT: By submitting its bid in response to this invitation, the bidder certifies that:

A. It has not offered, given or agreed to give to any County employee or former employee, a gratuity or offer of employment to influence the preparation of or recommendation of award of this bid;

B. It has not retained a person or solicited or secured a County Contract for a contingent fee;

C. It has not taken any action in restraint of free competitive bidding in connection with this bid;

D. It has not in any way violated the ethical conduct or other provisions of the County's Public Purchases Ordinance; and

E. It currently has no interest and shall not acquire any interest, direct or indirect, which would conflict in any manner or degree with its performance of any contract resulting from this bid.

5. REQUESTS FOR EXPLANATIONS BY BIDDERS:

A. Requests for Explanation: Any explanation desired by the bidder regarding the meaning or interpretation of specifications or any part of this bid must be requested in writing and received in the Purchasing Department not less than five (5) working days before the bid opening date.

B. Response to Bids: Oral explanations or instructions given prior to the opening of the offer shall not be binding. The Purchasing Department must issue any official explanations, in writing.

6. ADDENDA:

Addenda: Changes or amendments to specifications, conditions or provisions herein may be initiated ONLY through the Purchasing Department in the form of a written addendum.

Any addenda shall become a part of this bid and should be acknowledged either by being signed and returned with the bid or through letter or telegram that arrives prior to the opening of the bid. Failure to do so may result in disqualification of the bid.

It is the responsibility of all vendors considering making a bid in response to this invitation to ensure that they have received all addenda prior to making a bid. Bidders may contact the Purchasing Department to obtain information regarding any addenda issued. Failure to obtain an addendum shall not be grounds for overturning a recommendation of award.

7. CLARIFICATION OF BIDS:

The County may, in the evaluation of bids, request clarification from bidders regarding their bid, obtain additional material or literature, and pursue other avenues of research as necessary to insure that a thorough evaluation is conducted.

8. SUBMISSION OF BID:

A. Time: Bids not received by the time and date indicated on the Invitation for Bids will not be accepted, and will be returned unopened.

B. Hand Carried: Bids may be hand carried to the Purchasing Department at 1101 New York Ave., Room 118, Alamogordo, New Mexico.

C. Mailed: Bids may be mailed to the attention of the Purchasing Department, County of Otero, 1101 New York Ave., Room 118,
Alamogordo, New Mexico 88310. The County shall not be responsible for bids that are mailed and not received by the opening date and time specified in the solicitation.

D. Envelope Preparation: The envelope/package containing a bid must be sealed and the following identifying information legibly written or typed on the outside.

1). Name of Bidder
2). Bid Number assigned by the County to the Invitation for Bids
3). Opening date as identified on the bid or subsequent addenda

E. **No Other Methods of Bid Delivery: Neither telephone, telegraphic, nor facsimile bid shall be accepted.**

9. EQUAL OPPORTUNITY COMPLIANCE/WORKERS' COMPENSATION:

Otero County does not discriminate on the basis of race, color, national origin, sex, religion, age, or disability in the employment or the provisions of services. The "Contractor" agrees to comply strictly with the policies of "County", as well as all Federal and State Laws pertaining to Equal Employment Opportunity, including the Americans with Disabilities Act, and will not discriminate against any person or deny any person participation or benefit from the performance of this Agreement as a result of any discriminatory action. The "Contractor" agrees to comply with State Laws and rules applicable to workers' compensation benefits for its employees. If the "Contractor" fails to comply with the Workers' Compensation Act and applicable rules when required to do so, the "County" may terminate this agreement.

10. OSHA REQUIREMENTS IN EMPLOYMENT:

Otero County shall contract with Companies or Firms whose operators and equipment meet OSHA (Occupational Safety and Health Administration) standards in their field of expertise.

11. WITHDRAWAL OF BIDS:

A bid may be withdrawn in person at any time BEFORE the scheduled opening of bids, provided a receipt for the withdrawn bids is signed by the bidder or the bidder's authorized representative. The County reserves the right to request proof of authorization to withdraw a bid.

12. OPENING OF BIDS:

Time and Place: Bids will be opened by the Purchasing Department at the time and place identified in this Bid. Openings are open to the public. Bidders are encouraged to attend.

13. DISQUALIFICATION OF BID:

The County reserves the right to reject a bid for, including but not limited to, any one or more of the following circumstances:

A. In the past the bidder has failed to comply with previous contractual commitments or bids to the County.

B. In the opinion of the County the bidder is not capable of providing the offered goods, services, or construction as offered or required by the bid or is otherwise not a responsible bidder.

C. The bidder has not provided sufficient or detailed information which allows for the evaluation of the bid.

D. In the opinion of the County the offered prices are higher than the prices for which the specified items or services can be purchased on the open market.

E. The bidder failed to properly fill in any space on the Invitation for Bids form and attached documents where information or a signature is required.

F. The bidder did not; at the time the bid is made, have an appropriate New Mexico Contractor's License or Certification when one is required by law, regulation or this Bid.

G. The bidder failed to submit with their bid, bid bonds or other material requirements of the Bid or has otherwise submitted a non-responsive bid.

H. There are unauthorized additions, conditions, alternate proposals or other irregularities of any kind which might make the bid incomplete, indefinite or ambiguous in meaning.

I. Bid was not submitted in ink or typewritten or there is any erasure or alteration of words or figures relating to pricing which is not initialed in ink by the bidder.

J. The County determines that a bid contains any misrepresentations whatsoever.

14. REJECTION/CANCELLATION OF BIDS:

Any solicitation, prior to opening or after opening, may be canceled or any or all bids may be rejected in whole or in part when it is in the best interest of the County.

15. MINOR OR TECHNICAL IRREGULARITIES:

Minor or technical irregularities in a bid, when there is no effect on price, quality or quantity may be waived and clerical errors in a bid may be corrected, if permitted by the Purchasing Officer and are in the best interest of the County.

16. NONCONFORMING/CONDITIONAL, OR COUNTER BIDS:

A bid which is nonconforming or conditional, whether in part or in whole will be rejected.

17. BID ANALYSIS:

The County reserves the right to analyze, examine and interpret any bid for a minimum period of sixty (60) consecutive calendar days, after the scheduled time for the opening of bids. Bids may not be rescinded during this period except for good cause and with the written approval of the Purchasing Officer. In those situations where the analysis/evaluation exceeds the sixty (60) calendar days, bidders may withdraw their bids from consideration.

18. AWARD OF CONTRACT:

A. When Award Occurs: The award of a contract occurs when a Purchase Order is issued or other evidence of acceptance by the County if provided to the bidder. A Recommendation of Award does not constitute award of contract.

B. Award: If a contract is awarded, it shall be awarded to the responsive and responsible bidder whose bid is lowest in total price and is the most advantageous to the County, specifications and other factors considered.

C. Basis of Award: The County reserves the right to award a contract based on this Bid in total or by group of items, on the basis of individual items, or any combination of these, which in the judgment of the Purchasing Officer, best serves the interests of the County, unless otherwise stated in this Bid.

D. Contract Changes: In no case shall a contract be changed without the prior written approval of the Purchasing Officer.

E. To qualify for the five percent (5%) in state Resident Preference, the bidder must provide their assigned Resident Certification Number with their bid (an appropriate place is designated in the Bid Form). If a bidder does not provide their assigned Resident Certification Number with their bid, the bid shall not be considered as made by a resident business or a resident manufacturer and no preference shall be applied during the analysis of that bid.

NOTE: Your State Tax Number is NOT your Resident Certification Number.

19. PROTEST PROCESS:

A. Any bidder who is aggrieved in connection with a solicitation or award of an Agreement may protest to the County of Otero Purchasing Agent in accordance with the requirements of the County of Otero's Procurement Regulations and the State Procurement Code. The protest should be made in writing within 24 hours after the facts or occurrences giving rise thereto, but in no case later than 15 calendar days after the facts or occurrences giving rise thereto.

B. In the event of a timely protest under this section, the Purchasing Agent and the County of Otero shall not proceed further with the procurement unless the Purchasing Agent makes a determination that the award of Agreement is necessary to protect substantial interests of the County of Otero (13-1-173 NMSA 1978).

C. The Purchasing Agent or his designee shall have the authority to take any action reasonably necessary to resolve a protest of an aggrieved bidder concerning procurement. This authority shall be exercised in accordance with adopted regulations, but shall not include the authority to award money damages or attorney's fees (13-1-174 NMSA 1978).

D. The Purchasing Agent or his designee shall promptly issue a determination relating to the protest. The determination shall:

1) State the reasons for the action taken; and
2) Inform the Protestant of the right to judicial review of the determination pursuant to 13-1-183 NMSA 1978.

E. A copy of the determination issued under 13-1-175 NMSA 1978 shall immediately be mailed to the Protestant and other bidders involved in the procurement (13-1-176 NMSA 1978).

20. DELIVERY, ACCEPTANCE AND GUARANTEE:

A. No Delivery Before Purchase Order is Issued: No bidder, including the bidder to whom an award is made shall deliver any item of tangible personal property, commence services or construction prior to the

Issuance of a Purchase Order or Notice to Proceed issued by the County Purchasing Department.

B. Cancellation for Non-Delivery: The County reserves the right to cancel any order not delivered by a guaranteed date stipulated in this bid or any contract resulting from this invitation without liability on the County's part.

C. Acceptance of Delivery: Acceptance by the County of any delivery shall not relieve the Contractor of any guarantee or warranty, expressed or implied. Such acceptance of delivery shall not be considered an acceptance of services or materials not in accordance with the specifications. Such acceptance of delivery shall not waive the County's right to require replacement of defective material or inadequate service.

21. INSPECTIONS:

A. Prior To Acceptance of Delivery: All items of tangible personal property, services or construction shall be provided exactly as offered, and may be inspected prior to acceptance of delivery by the County.

B. Inferior Materials, Etc.: All items of tangible personal property, services or construction found inferior to the quality specified in this Bid, deficient or incorrect in weight, measurement, workmanship, handicraft or otherwise, may be rejected as a whole or in part and then shall be removed by the Contractor at the Contractor's own risk and expense promptly after notice of rejection. The Contractor shall assume responsibility for taking the necessary action to correct or replace the rejected items, within the time frame specified in the notice of rejection.

22. INVOICE AND PAYMENTS:

The Contractor shall submit an accurate invoice, in duplicate, for each purchase. Invoices shall refer to the Purchase Order Number, the Release Form Number if applicable, and shall be itemized unless otherwise specified in this Bid. Invoices are to be mailed to: Otero County Accounts Payable, 1101 New York Ave., Alamogordo, New Mexico 88310. Invoices mailed or provided to any other entity will result in a delay in making payment. Offerors are encouraged to inquire if payments due are not received within thirty (30) days after delivery of goods/services and submittal of invoice by contracting the Accounts Payable at (575) 437-7427

23. DEFAULT/TERMINATION FOR CAUSE:

If, through any cause, the Contractor fails to fulfill the Contractor's obligations under any contract resulting from this Bid in a timely and proper manner, or if the Contractor violates any of the covenants, agreements or stipulations of such contract, the County shall notify the Contractor of such violations in writing and allow the Contractor a reasonable time, set out in the notice, to correct the default. If the default is not corrected within the specified time period the County shall have the right to cancel the contract and any or all other current contracts with the Contractor, and, if applicable, to purchase the

required goods or services from another source or sources. The County shall provide written notice to the Contractor specifying the effective date of cancellation. The notice of cancellation may be contained in the notice of default.

If a contract resulting from this Bid is canceled, the Contractor shall not be relieved of liability to the County for damages caused by its breach of the contract. The County reserves the right to recover such damages, including but not limited to any excess cost incurred in having to purchase contract goods/services from other sources by a deduction from an unpaid balance due to the Contractor, collection against a performance or labor and materials payment bond, a combination of these remedies, or any other legal method available. In addition, the Contractor may be removed from the Purchasing Office Vendor List or determined to be ineligible to respond to future solicitations, as being not responsible.

24. TERMINATION FOR THE CONVENIENCE OF THE COUNTY:

The County may terminate any contract resulting from this Bid at any time by giving at least thirty (30) days' notice in writing of such termination to the Contractor. In such event, the Contractor shall be paid under the terms of the contract for all goods/services provided to and accepted by the County, if ordered or accepted by the County prior to the effective date of termination.

25. TERMINATION FOR LACK OF APPROPRIATIONS:

Funding for the contract resulting from this Bid has been appropriated by the County Commission for the County's current fiscal year. Notwithstanding any other provisions in the contract resulting from this Bid, its continuation beyond the end of the any fiscal year is contingent on the County Commission making the appropriations necessary to fund the contract. If sufficient appropriations are not made the contract may be terminated at the end of the County's then current fiscal year upon written notice given by the County to the Contractor. Such termination shall not constitute a default. All payment obligations of the County and all of its interest in the contract will cease upon the date of termination. The County's decision as to whether sufficient appropriations are available shall be accepted by the Contractor and shall be final.

26. CAMPAIGN CONTRIBUTION FORM

In accordance with Appendix C, Offerors must comply with 13-1-191.1 pertaining to the disclosure of campaign contributions to an applicable public official of a local public body.

Offeror(s) shall submit the "Campaign Contribution Disclosure Form" with their proposal submittal. Any Offeror who fails to comply with this requirement will be disqualified, no exceptions. (MUST BE SIGNED)

27. UTILIZE BD

In accordance with NMSA 13-1-129 of the procurement code, offerors are hereby notified that other government entities within the State of New Mexico, or as otherwise allowed by their respective governing directives, may contract for the goods or services included in this procurement document with the awarded contractor. Contractual engagements accomplished under this provision shall be solely between the awarded vendor and the contracting government entity with no obligation by Qtero County.

Sealed Bid #17-017 Opening Date: 12/13/16
Time: 3:00 PM

B I D F O R M
FIRE APPARATUS

**SEE ATTACHED SPECIFICATIONS---

FIRE DEPT. _____

YEAR: _____

MAKE: _____

MODEL: _____

WARRANTY: _____

DELIVERY DATE: _____

SERVICE: _____
LOCATION OF AVAILABLE SERVICE

THIS OFFER IS GOOD FOR A PERIOD OF: (MINIMUM 60 DAYS) _____

TOTAL PRICE: $ _____

_____
PRINT NAME OF AUTHORIZED REPRESENTATIVE

_____
SIGNATURE OF AUTHORIZED REPRESENTATIVE/DATE

EMAIL ADDRESS:_____

_____
INSTATE BIDDERS PREFERENCE NUMBER

OTERO COUNTY PURCHASING
TERMS & CONDITIONS
UNLESS OTHERWISE SPECIFIED.

1. **BIDS ARE TO COMPLY WITH ALL INSTRUCTIONS AND PROVIDE THE INFORMATION REQUESTED. FAILURE TO DO SO MAY DISQUALIFY YOUR BID.** All bid items are to be NEW and of most current production, unless otherwise specified.
2. Samples of items, when required, must be furnished free of expense prior to the opening of bids and if not destroyed, will, upon request, be returned at the bidders expense.
3. Prices should be stated in units or quantity specified, with packing included. All deliveries will be F.O.B. Alamogordo, NM unless otherwise specified.
4. Time or proposed delivery must be stated in definite terms. If time varies for different items, the bidder should so state.
5. Time of delivery shall be stated as the number of calendar days following receipt of the order either verbally or in writing, whichever is received first by the vendor, to receipt of the goods or services by Otero County.
6. Time of delivery may be a consideration in the award.
7. **Envelopes containing bids must be sealed and marked with name, address of the bidder, due date, and bid number.**
8. **IMPORTANT:** Bids not received in the office of the Purchasing Agent at the time of opening are disqualified and will be returned unopened.
9. Corrections and/or modifications received after the opening time specified will not be accepted.
10. Where an item is specified by brand name and numbers these are used in these specifications as a matter of convenience to indicate quality, type, and features desired. Accordingly demonstrably equal merchandise will be given full consideration and the bidder is invited to offer such, except where it is clearly stated that such brand names and/or models are specified for the purpose of standardization. Any "or equal" items offered must be substantially equal to the appearance, design, dimensions, approximate cost of the item specified, and must be of equivalent materials, function, and sturdiness of construction of the item specified. Any deviation from specifications must be clearly itemized by the bidder.

    When offering substitutions, please specify, and include descriptive literature.
11. When brand, number, or level of quality is not stated by the bidder, it is understood the offer is exactly as specified.
12. Otero County is exempt from paying sales tax for materials and federal excise taxes. Do not include those taxes in bid. A nontaxable transaction certificate will be provide when payment is made. Services and tax on labor only are not exempt.
13. If your bid is accepted, you will receive notification either verbally or in writing by an issuance of a Purchase Order Number authorizing you to make delivery. Only the accepted bidder will be notified of awards.
14. **ATTENTION BOOKKEEPING & AUDITING DEPARTMENTS:** Complete payment will be made only when entire order is filled, with the exception of "Open Order Purchases", unless otherwise stated on purchase order. **EXCEPTION: Partial payments will be allowed upon written notification and approval if order cannot be completed in a single shipment.** Payment terms are Net 30 days unless otherwise stated.
15. All addenda so issued shall become part of the bid documents.
16. Pricing shall remain effective for a minimum of thirty

    (30) days after bid opening date.

CONDITIONS

1. The Purchasing Agent reserves the right to reject any and all bids, to waive any informality in bids, and **unless** otherwise specified to the bidder, to accept any item on the bid.
2. In case of error in the extension of prices in the bid, the unit price will govern.
3. Prompt payment discounts will not be considered in computing the low bid. Otero County will take advantage of cash discounts offered wherever possible.
4. Time in connection with discount offered will be computed from date of delivery or from date correct invoice is received, whichever is later.
5. Final inspection and acceptance will be made at the destination. Supplies rejected at the destination for non-conformance with specifications shall be removed at the vendor's risk and expense, promptly after notice of rejection.
6. Otero County requires vendor certification be the New Mexico State Purchasing Agent before the 5% in-state bidding preference can be extended. Bidders claiming this preference must show certification number on bid and must be prepared to show evidence of certification for the commodity being bid. In-state vendors: failure to secure above will result in non-considerations of any preference for in-state bidders. This will not apply when Federal funds are used, Chapter 13-1-21.
7. Otero County reserves the right to award by item, group of items, or total bids; to reject any and all bids in whole or in part if, in the judgment of the Purchasing Agent, the best interests of Otero County will be served.
8. The Otero County Purchase Order Number shall be shown on all packing, delivery tickets, and other correspondence in connection with the shipment. The user's count will be accepted by the Vendor as final and conclusive on all shipments not accompanied by a packing ticket.

    The Vendor's invoice shall be submitted and contain the following information: order number, description of supplies or services, quantities, unit prices, and extended totals. Separate invoices shall be rendered for each and every complete shipment.
9. Otero County reserves the right to cancel all or any part of this order without cost to the County, if the Vendor fails to meet the provisions of this order and, except as otherwise provided herein, to hold the Vendor liable for any excess cost occasioned by the County due to the Vendor's default. The Vendor shall not be liable for any excess costs if failure to perform the order arises out of cause beyond the control and without the fault or negligence of the Vendor, such causes include, but are not restricted to, acts of God or of the public enemy, acts of the State or of the Federal Government, fires, goods, epidemics, quarantine restrictions, strikes, freight embargo's, unusually severe weather, and defaults of subcontractors due to any of the above, unless Otero County shall determine that the supplies or services to be furnished by the subcontractor were obtainable from other sources in sufficient time to permit the Vendor to meet the required delivery scheduled. The rights and remedies of the county provided in this paragraph shall not be exclusive and are in addition to any other rights now being provided by law or under this order.

10. In signing this bid or accepting Purchase Order, the Vendor certifies he/she has not, either directly or indirectly, entered into action in restraint of free competitive bidding in connection with this proposal submitted to Otero County Purchasing Agent.
11. Sections 13-1-28 through 13-1-199 NMSA 1978, imposes civil and criminal penalties for its violation. The New Mexico criminal statutes impose felony penalties for bribes, gratuities, and kickbacks.
12. **THIS BID/AWARD IS CONTINGENT UPON AVAILABLE FUNDING.**

(terms)

rev 05/96

CAMPAIGN CONTRIBUTION DISCLOSURE FORM

Pursuant to the Procurement Code, Sections 13-1-28, et seq., NMSA 1978 and NMSA 1978, § 13-1-191.1 (2006), as amended by Laws of 2007, Chapter 234, any prospective contractor seeking to enter into a contract with any state agency or local public body **for professional services, a design and build project delivery system, or the design and installation of measures the primary purpose of which is to conserve natural resources** must file this form with that state agency or local public body. This form must be filed even if the contract qualifies as a small purchase or a sole source contract. The prospective contractor must disclose whether they, a family member or a representative of the prospective contractor has made a campaign contribution to an applicable public official of the state or a local public body during the two years prior to the date on which the contractor submits a proposal or, in the case of a sole source or small purchase contract, the two years prior to the date the contractor signs the contract, if the aggregate total of contributions given by the prospective contractor, a family member or a representative of the prospective contractor to the public official exceeds two hundred and fifty dollars ($250) over the two year period.

Furthermore, the state agency or local public body may cancel a solicitation or proposed award for a proposed contract pursuant to Section 13-1-181 NMSA 1978 or a contract that is executed may be ratified or terminated pursuant to Section 13-1-182 NMSA 1978 of the Procurement Code if: 1) a prospective contractor, a family member of the prospective contractor, or a representative of the prospective contractor gives a campaign contribution or other thing of value to an applicable public official or the applicable public official's employees during the pendency of the procurement process or 2) a prospective contractor fails to submit a fully completed disclosure statement pursuant to the law.

The state agency or local public body that procures the services or items of tangible personal property shall indicate on the form the name or names of every applicable public official, if any, for which disclosure is required by a prospective contractor.

THIS FORM MUST BE INCLUDED IN THE REQUEST FOR PROPOSALS AND MUST BE FILED BY ANY PROSPECTIVE CONTRACTOR WHETHER OR NOT THEY, THEIR FAMILY MEMBER, OR THEIR REPRESENTATIVE HAS MADE ANY CONTRIBUTIONS SUBJECT TO DISCLOSURE.

The following definitions apply:

"**Applicable public official**" means a person elected to an office or a person appointed to complete a term of an elected office, who has the authority to award or influence the award of the contract for which the prospective contractor is submitting a competitive sealed proposal or who has the authority to negotiate a sole source or small purchase contract that may be awarded without submission of a sealed competitive proposal.

"**Campaign Contribution**" means a gift, subscription, loan, advance or deposit of money or other thing of value, including the estimated value of an in-kind contribution, that is made to or received by an applicable public official or any person authorized to raise, collect or expend contributions on that official's behalf for the purpose of electing the official to statewide or local office. "Campaign Contribution" includes the payment of a debt incurred in an election campaign, but does not include the value of services provided without compensation or unreimbursed travel or other personal expenses of individuals who volunteer a portion or all of their time on behalf of a candidate or political committee, nor does it include the administrative or solicitation expenses of a political committee that are paid by an organization that sponsors the committee.

"**Family member**" means spouse, father, mother, child, father-in-law, mother-in-law, daughter-in-law or son-in-law of (a) a prospective contractor, if the prospective contractor is a natural person; or (b) an owner of a prospective contractor.

"**Pendency of the procurement process**" means the time period commencing with the public notice of the request for proposals and ending with the award of the contract or the cancellation of the request for proposals.

"**Prospective contractor**" means a person or business that is subject to the competitive sealed proposal process set forth in the Procurement Code or is not required to submit a competitive sealed proposal because that person or business qualifies for a sole source or a small purchase contract.

"**Representative of a prospective contractor**" means an officer or director of a corporation, a member or manager of a limited liability corporation, a partner of a partnership or a trustee of a trust of the prospective contractor.

Name(s) of Applicable Public Official(s) if any:_____
(Completed by State Agency or Local Public Body)

DISCLOSURE OF CONTRIBUTIONS BY PROSPECTIVE CONTRACTOR:

Contribution Made By: _____

Relation to Prospective Contractor: _____

Date Contribution(s) Made: _____
_____

Amount(s) of Contribution(s) _____
_____

Nature of Contribution(s) _____
_____

Purpose of Contribution(s) _____
_____

(Attach extra pages if necessary)

_____ _____
Signature Date

_____
Title (position)

-OR—
NO CONTRIBUTIONS IN THE AGGREGATE TOTAL OVER TWO HUNDRED FIFTY DOLLARS ($250) WERE MADE to an applicable public official by me, a family member or representative.

_____ _____
Signature Date

_____
Title (Position)

Resident Veterans Preference Certification

_____ (NAME OF CONTRACTOR) hereby certifies the following in regard to application of the resident veterans' preference to this procurement:

PLEASE CHECK ONLY ONE STATEMENT FROM THE FOUR (4) STATEMENT LISTED BELOW

_____ I declare that my firm is ineligible to receive New Mexico Resident Veterans Preference

The following three (3) checkboxes are applicable to ONLY those vendors eligible to receive New Mexico Resident Veterans Preference AND who have included a valid New Mexico Resident Veterans Preference certificate with their sealed response. No preference will be extended unless a valid certificate is included in your sealed response. Submitted certificates shall be validated by Otero County with New Mexico Tax & Revenue

□ I declare under penalty of perjury that my business prior year revenue starting January 1ending December 31 is less than $1M allowing me the 10% preference discount on this solicitation. I understand that knowingly giving false or misleading information about this fact constitutes a crime.

□ I declare under penalty of perjury that my business prior year revenue starting January 1 ending December 31 is more than $1M but less than $5M allowing me the 8% preference discount on this bid or proposal. I understand that knowingly giving false or misleading information about this fact constitutes a crime.

□ I declare under penalty of perjury that my business prior year revenue starting January 1ending December 31 is more than $5M allowing me the 7% preference discount on this bid or proposal. I understand that knowingly giving false or misleading information about this fact constitutes a crime.

"I agree to submit a report, or reports, to the State Purchasing Division of the General Services Department declaring under penalty of perjury that during the last calendar year starting January 1 and ending on December 31, the following to be true and accurate:

"In conjunction with this procurement and the requirements of this business' application for a Resident Veteran Business Preference/Resident Veteran Contractor Preference under Sections 13-1-21 or 13-1-22 NMSA 1978, when awarded a contract which was on the basis of having such veterans preference, I agree to report to the State Purchasing Division of the General Services Department the awarded amount involved. I will indicate in the report the award amount as a purchase from a public body or as a public works contract from a public body as the case may be.

"I understand that knowingly giving false or misleading information on this report constitutes a crime."

I declare under penalty of perjury that this statement is true to the best of my knowledge. I understand that giving false or misleading statements about material fact regarding this matter constitutes a crime.

_____ _____

(Signature of Business Representative)* (Date)

*Must be an authorized signatory for the Business. *The representations made in checking the boxes constitutes a material representation by the business that is subject to protest and may result in denial of an award or termination of an award if the statements are proven to be incorrect.*

NON-COLLUSION AFFIDAVIT

STATE OF_____)

County OF_____)

_____ _____ (name) being first duly sworn, deposes and says

that he/she is (title)_____

of (organization) _____ _____

who submits herewith to the County of Otero, proposal; That all statements of fact in such proposal are true; That said proposal was not made in the interest of or on behalf of any undisclosed person, partnership ,company, association, organization or corporation;

That said bidder has not, directly or indirectly by agreement, communication or conference with anyone attempted to induce action prejudicial to the interest of the County of Otero, or of any bidder of anyone else interested in the proposed contract; and further,

That prior to the public opening and reading or proposal, said bidder;

1. Did not directly or indirectly, induce or solicit anyone else to submit a false or sham proposal

2. Did not directly or indirectly collude, conspire, connive or agree with anyone else that said bidder or anyone else would submit a false or sham proposal, or that anyone should refrain from bidding or withdraw his proposals;

3. Did not in any manner, directly or indirectly, seek by agreement, communication or conference with anyone to raise or fix the proposal price of said bidder or of anyone else, or to raise or fix any overhead, profit or cost element of their proposal price, or of that of anyone else;

4. Did not directly or indirectly, submit his proposed price or any breakdown thereof, or the contest thereof, or divulge information or data relative thereto, to any corporation, partnership, company, association organization, bid depository or to any member or agent thereof, or to any individual of group of individuals, except that County of Otero, or to any person or persons who have a partnership or other financial interests with said bidder in his business.
   By:_____

   Title:_____

SUBSCRIBED and sworn to before me this_____day of_____, 20_____.

Notary Public:_____

My Commission Expires: _____

SUNSPOT EMS
MEDICAL RESCUE BID SPECIFICATIONS

SCOPE

This specification covers a new commercially produced surface emergency medical care vehicle(s), herein referred to as a "medical rescue" or "vehicle". This vehicle shall be constructed in accordance with NFPA 1917, 2016 Edition. It is the intent of this agency to purchase vehicle(s) that are professionally engineered and designed. It is paramount to this agency that vehicle(s) presented be built by a reputable manufacturer with considerable experience in the applicable manufacturing field. To this end, this agency requires that each manufacturer provide the following:

- A statement of fact, signed by an officer of the manufacturing company, disclosing that the manufacturer has delivered five hundred (500) vehicles of this (or similar) type within the last twelve (12) months of the date of this bid.
- The size and location of manufacturing facilities and number of production staff.
- Interior pictures to verify plant facilities.
- A list of on-site engineering staff with educational accreditation.
- ISO 9001:2000 Certification.

Failure to provide this agency with the documentation required will be deemed non-responsive.

PURPOSE

The purpose of this document is to provide the manufacturer with a set of specifications and test parameters that will meet the criteria to manufacture a vehicle as set forth by this agency. This agency seeks a vehicle that will deliver "fair value". Fair value is defined by this agency as the manufacturer's ability to provide a safe, functional, and practical ambulance conversion that will work in junction with the chassis specified at a reasonable cost. The specifications within this document are a basis to deliver such a vehicle to this agency. This agency at its discretion shall assess the intangible assets of the manufacturer such as, but not limited to, after quality, delivery support, customer service, parts availability and warranty turnaround time.

GENERAL

This is an engineer, design, construct and deliver type specification meeting the needs of this agency. Attention has been given to the engineering and design aspect of this specification that will attain our goal of fair value. It is the manufacturer's responsibility to deliver a product meeting the criteria as set forth. This agency reserves the right to increase the equipment quantities that are specified. In addition, other agencies will be permitted to purchase equipment under this contract as a result of this specification, unless prohibited under law.

SITES OF WORK

Other than the chassis, specified accessories, and raw materials such as aluminum, wood, etc.; all shops and sub-shops shall be within the complex(s) that are directly owned and controlled by the primary manufacturer. Any assemblies including, but not limited to, upholstery, fiberglass, cabinetry, electrical, structural and paint application, that are performed or supplied outside of the primary manufacturer's location(s) must be noted. The name, address, and contact person supplying the primary manufacturer with the assemblies must be provided in writing to this agency. Non-disclosure will be sufficient grounds for rejection of bid or termination of contract. Ambulances or chassis' imported for consideration of this specification into the United States under the North

America Free Trade Act must provide documentation of compliance with all United States laws applicable. Further, any import ambulance must be independently certified and tested within the United States to meet NFPA 1917 certification.

EXAMINATION OF SPECIFICATIONS

It is incumbent on each manufacturer to be thoroughly familiar with the specification contained herein. The specification will require a "YES" or "NO" or when requested a definitive answer to each section or subsection. Sections or subsections not marked with a "YES" or "NO" or answered shall be deemed incomplete and considered non-responsive. A "YES" answer constitutes a complete compliance to the section or subsection as written. A "NO" shall indicate noncompliance and does not eliminate a manufacturer from competition. A manufacturer may object or counter to a specific section or subsection. A manufacturer must indicate in writing, as an attachment, the section or subsection in dispute. The manufacturer must include the verbiage as written, new verbiage presented, explanation of verbiage with consequences and supporting tests and documentation. Failure to comply will be deemed as non-responsive. This agency reserves the right to determine compliance.

DEFINITIONS:

The following definitions shall apply with regards to these specifications.

PURCHASER: The end user of the equipment specified or the applicable purchasing agency acting on behalf of the end user.

CONTRACTOR: The individual, firm, partnership, manufacturer, or corporation to whom the contract is awarded by the Purchaser and is subject to the terms thereof. For bidding purposes the contractor, vendor, bidder, manufacturer are synonymous.

EQUAL: This agency supports the design, engineering, quality and materials as specified in this document. This shall not prohibit the bidding of unlike product. However, any deviation from the specification must be marked and submitted as an attachment titled "Exception Page". Failure to do so shall be deemed non-responsive.

MANUFACTURER: The manufacturer within this specification shall be considered the "primary manufacturer" of the vehicle. The chassis requirement as set forth in this specification is the responsibility of the primary manufacturer to procure. This agency considers the chassis platform as a conveyance for the conversion. It is imperative that the primary manufacturers procure the exact chassis from the chassis manufacturer. Aftermarket modifications by the primary manufacturer to achieve chassis specification will not be tolerated. This agency will require documentation from the chassis manufacturer pertaining to the chassis requirements for this agency. Failure to provide documentation after award and prior to construction may result in the termination of the contract. Expenses to re-bid will be the responsibility of the manufacturer in default.

SUNSPOT EMS
MEDICAL RESCUE BID SPECIFICATIONS

BIDDERS RESPONSIBILITY AND QUALIFICATION

It is not the intent of these specifications to call for an unusual or experimental vehicle(s). The primary manufacturer shall have a minimum of 10 years of uninterrupted manufacturing of similar or identical vehicles to the specifications set forth in this bid.

If requested by the purchaser, the primary manufacturer shall supply upon request a list of fifteen (15) agencies that have purchased similar or identical vehicles within the past year from date of bid. The list will have contact names and phone numbers.

For the purpose of this section, if the bidder of record and the primary manufacturer are separate business entities, then each shall be required to submit financial, insurance, and/or licensor to conduct business within this jurisdiction. Failure to provide proper documentation with the bid response may result in any bid being deemed non-responsive.

Y____ N____

PAYMENT, DELIVERY AND ACCEPTANCE

This agency reserves the right to issue a binding Purchase Order in lieu of a deposit. The will not remit any type of prepayment or deposit prior to vehicle delivery.

Prepayment or progress payment requests for any part or material after contract award may result in a termination of the award. The contract will be given to the next responsible primary manufacturer. It is the intent of this agency to do business with a company of sufficient financial means to meet the financial burdens necessary complete and delivery the vehicle as specified.

The primary manufacturer shall arrange over the road delivery of the completed vehicle to this agency's designated local address under the vehicles own power. Costs of transportation and preparation are to be included with the price as bid.

Payment in full will be made upon delivery once an inspection of the vehicle by this agencies authorized representative(s) confirms compliance with the specification. The delivery, acceptance inspection, and payment shall take place on the same day. In the event it is deemed necessary for this agency to pre-inspect the vehicle at the primary manufacture location, a temperature controlled inspection area separate from the production facility shall be available.

All bid prices and conditions must be specified on the Bid Proposal Form. All items listed as options shall be clearly marked and priced separate from the "base price" as requested.

Prices shall be valid upon the date of the bid opening and shall not change between award date and acceptance or delivery date unless a change order request is provided by the purchaser which is consistent with New Mexico Purchasing Procurement Procedures. The primary manufacturer shall not revise pricing after award of bid without a change order. Failure to comply with this section will result in the bid or contract to be deemed non-responsive.

Y____ N____

SUNSPOT EMS
MEDICAL RESCUE BID SPECIFICATIONS

BID EVALUATION

Bids received shall be evaluated by the Purchaser. This evaluation will be based on the following:

- Completeness of the proposal
- Manufacturing and Delivery schedule
- Primary manufacturer's demonstrated capabilities and qualifications
- Primary manufacturer's maintainability and recommendations
- Primary manufacturer's logistical and service support

Bid proposals taking total exception to these specifications will not be accepted.

Bid proposals that do not comply with the prescribed method to take exceptions listed in this document will be rejected without further consideration.

This agency seeks the highest level of value for the cost. To assure this agency is receiving such value the primary manufacturer must submit evidence of compliance with NFPA 1917 testing parameters. The testing is to be performed by an independent testing facility and verified by person(s) with the standing of Professional Engineer. If further testing is required by any lawful agency of the Federal or State Government then it shall be incumbent upon the primary manufacturer to provide this agency with certification required.

This agency also recognizes Ford Motor Company's Qualified Vehicle Modifiers (QVM) accreditation. Therefore, regardless of chassis specifications the primary manufacturer must include with this proposal their current QVM certification.

Internal testing performed and certified for a primary manufacturer will not be considered by this agency.

The primary manufacturer may submit certification of all "member in good standing" of any public or private association that may have bearing on this specification i.e. AMD, NTEA.

To insure that this contract is awarded to a primary manufacturer who has the resources to meet the performance and warranty criteria specified herein, the primary manufacturer shall state in the bid proposal if it is a public or private company. If the primary manufacturer is privately held then it shall include the most current financial statement by a Certified Public Accountant not more than twelve (12) months old or current financial statement of the parent company. If the primary manufacturer is a publicly held company or wholly owned by a publicly held company then it shall state what stock exchange and under what symbol it is traded under. Bids not meeting this requirement cannot be accepted.

Note: In performing the evaluation, only information contained within the primary manufacturer's written proposal will be considered.

Y____ N____

CONTRACT AWARD

The Purchaser reserves the right to increase the number of vehicles or equipment specified under this contract. If awarded, the primary manufacturer agrees that additional agencies may purchase under the same terms and prices afforded by any contract arising from the bid award, unless prohibited by law.

Y____ N____

SUNSPOT EMS
MEDICAL RESCUE BID SPECIFICATIONS

DELIVERY
The primary manufacturer will provide in writing to accompany this document a proposed delivery time. The delivery time proposal will include the transit time of the finished vehicle.

Y____ N____

BID GUARANTY
Bid proposals shall be accompanied by a Surety Bond in the amount of ten percent (10%) of the total price of the bid proposal. The Bid Surety shall be made payable to this agency and conditioned upon the primary manufacturer acceptance of award. In the event of failure or refusal to comply, the Bid Surety may be forfeited as liquidated damages because of such failure of default.

Y____ N____

PERFORMANCE BOND
This agency reserves the right to seek a one hundred percent (100%) performance and payment bond as a condition of award. A letter must be included from a certified bonding agency stating that a performance bond can be issued on behalf of the primary manufacturer. Failure to comply may be deemed as non-responsive.

Y____ N____

FAMILIARITY WITH LAWS
The primary manufacturer will be familiar with all Federal, State and Local laws, ordinance, code rules and regulations that may in any way effect the work. Ignorance on the part of the primary manufacturer is not acceptable.

Y____ N____

PRE-CONSTRUCTION CONFERENCE
The successful primary manufacturer shall be required to hold a pre-construction conference with representatives of this agency to finalize construction details. In the event it is deemed necessary by both parties that the conference be held at a location other than at this agency; the following shall occur. The primary manufacturer will provide adequate transportation, lodging, and meals for two (2) designated personnel from this agency. Further, if the location is in an excess of three hundred (300) miles from this agencies location, the transportation shall be by a commercial air carrier. Private or corporate aircraft may not be used.

Y____ N____

DRAWINGS
The primary manufacturer shall provide a set of drawings that accurately depict the vehicle as specified. The drawings will show all exterior and interior planes with dimensions. Failure to comply will be deemed non-responsive.

Y____ N____

EMPLOYEE STATEMENT
It is mandated by the United States Government that all employees currently and to be employed during the duration of this contract are not discriminated against because of their race, creed, color, sex, nationality origin and disability. Further, this agency must be satisfied that the primary manufacturer's labor pool is treated in a fair and equitable manner. Therefore, it will be the responsibility of the primary manufacturer to include a human resource statement outlining employment status, working conditions, and benefits.

Y____ N____

SUNSPOT EMS
MEDICAL RESCUE BID SPECIFICATIONS

ANTI-COLLUSION STATEMENT

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

Y____ N____

WARRANTY

This agency is concerned with the ability of the primary manufacturer to warrant the conversion after delivery. This agency expects a minimum of a fifteen (15) year modular construction warranty and twelve (12) months and twelve thousand (12,000) mile full warranty on the conversion. In addition, each manufacturer shall submit their various warranties and warranty options, if applicable, with the proposal for evaluation. Also, each primary manufacturer will supply the name and phone number of a contact person in the event this agency requires clarification of the submitted warranty documents.

The primary manufacturer will provide the location of the closest approved warranty center. Indicate to this agency, in writing, to be included with this proposal; the process to initiate and file a warranty claim.

Due to the high demands on a pre-hospital care vehicle, this agency demands the primary manufacturer have available a twenty-four hour a day technical assist service. This 24/7 service must be staffed by the primary manufacturer's service personnel; include telephone number: _____.

Y____ N____

WARRANTY - DOCUMENTATION

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

Y____ N____

WARRANTY - MODULE STRUCTURAL

The manufacturer shall provide a "Lifetime" Limited Modular Structural warranty. 'Lifetime", a lifetime is defined as 25 years from the date of original retail owner's purchase/in-service date from the manufacturer or the period of time the ambulance is in continuous front line service with the original purchaser. Terms and condition of the Limited Modular warranty shall be per the manufacturer's published warranty documentation.

Y____ N____

WARRANTY - ELECTRICAL, STANDARD SYSTEM

The manufacturer shall provide a Limited "Electrical" warranty. The Limited "Electrical" Warranty shall be 7 years, regardless of subsequent ownership. Terms and condition of the Limited Electrical warranty shall be per the manufacturer's published warranty documentation.

Y____ N____

WARRANTY - PAINT

The manufacturer shall provide a limited paint warranty for "Five Years" / unlimited mileage from the date of delivery of the completed new ambulance to the end user, unlimited mileage, or the time of module remount, whichever occurs first. The paint application on the ambulance module shall be warranted by the manufacturer to the original owner for a period of 5 years with unlimited mileage.

Y____ N____

SUNSPOT EMS
MEDICAL RESCUE BID SPECIFICATIONS

WARRANTY - CONVERSION
The manufacturer shall provide a Limited "Conversion" warranty. The "Conversion" Warranty shall be for a period of 2 years or 36,000 miles and must be supplied in writing from manufacturer. Terms and condition of the Limited Conversion warranty shall be per the manufacturer's published warranty documentation.

Y____ N____

CHASSIS REQUIREMENTS

CHASSIS MANUFACTURER AND MODEL YEAR
The chassis shall be a 2016 Ford or newer.

MODEL PHYSICAL CHARACTERISTICS

Vehicle:	Ford Chassis Cab
Body Style:	Super Duty F-450 Dual Rear Wheel
Drive Train:	Four Wheel Drive
Model Number body code:	F4H Regular Cab 169" wheel base XLT
Gross Axle Weight:	Front 7,000 lb. Rear 12,000 lb.
Gross Vehicle Weight	Rating 16,500 lb.
Engine Type:	99T 6.7L Diesel V8 with 98R Manual Regen
Displacement	6.7 liters
Fuel System	Turbocharged Diesel
SAE net HP	325 @ 2000 RPM
SAE net Torque	570 foot pounds @ 2000 RPM
Wheelbase:	169 inches
Transmission:	6 - speed Automatic, Electronic
Rear Axle Ratio:	4:10 Ltd Slip
Tire Size:	LT225/70Rx19.5F, BSW All Season, 2 front, 4 rear
Spare Tire Size:	LT225/70Rx19.5F, BSW All Season
Wheels:	All including spare, steel 19.5.0 x 6.0
Brakes:	4-Wheel ABS System
Engine Block Heater:	Code 41H.
Alternators:	Dual 130 Alternators, Code 67A
Batteries:	Dual, 78-AH 750 CCA
Fuel Tank:	Single 40 Gallon, aft of rear axle
Exterior Upgrade Package:	647A
Interior Upgrade Package:	647A
Cab seats:	Code 3- 40/20/40 Cloth
Ambulance Prep. Package:	Code 47L
A/C Heater Connector Pkg:	Code 57L
Steering:	Power
Stereo:	AM/FM, Single CD Player, Clock

Running Lights	Day Running Lights, Code 942
Pedals	Adjustable Gas and Brake Pedals, Code 62M
Suspension	Link, UltraRide, Parallelogram design

Y____ N____

ELECTRICAL GENERATING SYSTEM
The vehicle shall be equipped with the OEM supplied dual 130 ampere alternators.

Y____ N____

ENGINE AUTOMATIC HIGH IDLE SPEED CONTROL
The Engine high idle shall be regulated by the OEM supplied high idle speed control. The control shall be mounted in the cab console.

Y____ N____

DRIVER'S COMPARTMENT
The driver's compartment shall be as required by NFPA 1917 sections 5.1.1, 5.1.3, 5.12, 5.13, 5.14.2, 5.15, 6.21.3 thru 6.21.10 and 7.12 as well as other items identified in this document. The cab shall be equipped with the chassis manufacturer's high back seats. The safety restraint system for the driver and passenger shall be installed by the chassis manufacturer. Modifications or substitutions of the chassis manufacturer's cab seats or restraint system will not be acceptable.

Y____ N____

OUTSIDE REAR VIEW MIRRORS
The vehicle mirrors should be firmly secured, vibration less rear view mirrors totaling at least one hundred and twenty five square inches. The mirrors shall be OEM, manually telescoping trailer tow, power/heated glass, integrated clearance lights and turn signals, and a two-way fold.

Y____ N____

REAR SUSPENSION
This unit shall have a Liquid Spring Technologies, or CLASS®, rear suspension installed by the manufacturer. It shall include electronic controls, automatic height control, kneeler, and OEM sway bar. The dump and fill function shall be operated by opening or closing the right rear door entrance door. It shall have both an enable switch and a dump indicator light in the cab console and shall only operate when the vehicle is in neutral or park with park brake set.

Y____ N____

MOMENTARY SWITCH:
The Suspension shall automatically lower the rear of the vehicle when the left rear entry door is opened and inflate when the streetside rear entry door is closed. There shall be an enable switch on the rear doors in the off position to override this function. The suspension Dump Circuit, wired to the 5 min. Timer. Timer to allow the dump circuit to remain active for 5 mins after the ignition has been turned off for patient unloading.

Safety Triggers:
(1) Dump switch to be in 'On' position
(2) Vehicle must be in Park
(3) Emergency Brake must be set
(4) Module is to be in the 'On' position
(5) Open Street side rear entry door

Y____ N____

ENGINE BLOCK HEATER
The chassis shall include a 110VAC powered engine block heater. The block heater shall have an OEM plug located in the engine compartment.

Y____ N____

FRONT BUMPER
The factory bumper shall be removed and replaced with a heavy duty Ranch hand off-road bumper and grille protection assembly. The bumper extension unit shall be powder coated black to purchaser requirements. A receiver hitch shall be installed at the front of the apparatus below the front bumper. The bumper assembly shall be winch ready. All emergency lights specified later in this document shall be installed on the grill guard portion of this bumper; no emergency lights shall be installed behind the grill guard.

Y____ N____

FRONT BUMPER SKID PLATE
A .250" aluminum skid plate will be installed from the bumper area extending below the bumper extension and chassis radiator area.

Y____ N____

FRONT RECEIVER
The front of the chassis shall be equipped with one (1) square steel tube receiver assembly for high or low angle rescue or winch applications. It shall be the same size as a Class III trailer hitch and shall be attached to the chassis frame and bumper extension assembly. The receiver shall be rated at approximately 10,000#.

Y____ N____

WINCH POWER SUPPLY *Option A*
Two (2) Anderson type 12 volt quick disconnect electrical receptacles shall be installed for the portable winch. Power cables shall be color coded "red" positive and "black" neutral; rated at 125% of winch power requirement including line drop; protected with conduit for mechanical abrasion and equipped with circuit breaker protection at the battery area. Location shall be: one (1) front of the apparatus and one (1) rear of the apparatus.

Y____ N____

WINCH POWER SUPPLY *Option B*
A 400 amp 12 volt industrial series solenoid shall be installed to supply power to the winch. The solenoid shall be switched by the upfitter switch.

Y____ N____

PORTABLE WINCH *Option C*
A Warn Winch Company Model 9.5cti PN85760 9,500# capacity 12-volt electric portable winch shall be provided incorporating a portable mounting system with two carrying handles. The unit shall include the following:

a) Extreme duty seals for weather resistance
b) thermo-metric indicator for motor monitoring
c) A cable guide and 125 feet of 5/16" diameter galvanized cable and hawse fairlead & safety hook assembly shall be supplied.
d) Winch speed shall be constant with forward and reverse modes controlled with a push button device at the end of a twelve foot control cable which connects to the winch through a weatherproof receptacle.

e) Carrying handles
The winch shall be attached to the body at the specified locations with a steel tube insert secured with steel pins. Power shall be supplied through a 12 volt pigtail with an Anderson type plug.

Y____ N____

OUTSIDE REAR VIEW MIRRORS
The vehicle mirrors should be firmly secured, vibration less rear view mirrors totaling at least one hundred and twenty five square inches. The mirror shall be OEM with the following description: Telescopic Trailer Tow with LH/RH Power Adjust Flat Glass & Manual Adjust Convex.

Y____ N____

CAB INTERIOR FEATURES
The following optional interior features shall be supplied with this ambulance chassis cab:

INSULATION, CAB CEILING
The manufacturer shall install a single layer of 3M Thinsulate insulation between the OEM head liner and the cab roof to reduce noise.

Y____ N____

SPARE TIRE
The spare tire shall not be a mounted in the exterior compartment for storage. The chassis is being ordered with a spare tire and shall be shipped loose.

Y____ N____

WHEEL COVERS
The vehicle shall be equipped with four (4) outside wheel Phoenix polished stainless steel wheel inserts. These inserts shall be designed in such a way that they are removable without removing any of the OEM lug nuts. The inserts will include braided stainless steel fill tubes.

Y____ N____

MODULE REQUIREMENTS

MODULE TYPE
Chassis shall be configured to accommodate a Type I module conversion. The module shall be a 150"L x 96"W with a walk-through configuration.

Overall Vehicle Dimensions shall not exceed:
- Length = 276"
- Width = 100"
- Height = 102"

Exterior Module Dimensions shall not exceed:
- Length = 148"
- Width = 96"
- Height = 84"

Interior Module Aisle shall not be less than:
- Aisle width = 46”

Y____ N____

SUNSPOT EMS
MEDICAL RESCUE BID SPECIFICATIONS

MATERIALS

The entire modular structure and all integral body parts and pieces shall be manufactured from aluminum. The perimeter frame of the roof shall consist of a 3 inches high x 1-1/2 inch radius extrusion securely fastened and welded to the wall and ceiling structural framing. The extrusion shall be fully enclosed with vertical center supports. The design of this extrusion shall be such that it incorporates a flange similar to the box pan formed construction technique to ensure that the construction and fastening technique remains consistent throughout the module build process.

In addition to the welding, an extreme strength 3M VHB bonding system shall be utilized throughout, providing for a rivet less exterior, free of warping which can occur when exterior sheeting is welded to the structural tubes. Prior to application of the bonding tape all aluminum surfaces must be cleaned with an acid based cleaner. Each of the side, front and rear walls shall be assembled and compression applied per the requirements of the adhesive manufacturer to provide proper adhesion and to produce a smooth, flat exterior surface eliminating side wall waves on the finished product.

Fabricated gusset supports shall be added for extreme structural integrity. Gussets to be welded into place where the sub-floor structure meets the vertical wall tube structure.

Roof Assembly	
Roof Rail	.125 6061-T6 Aluminum
Channel	.025 6061-T6 Aluminum
Sheet	.090 5052-H32 Aluminum
Tubing	.125 6061-T6 Aluminum
	.250 6063-T6 Aluminum
Corner Cap	.125 5052-H32 Aluminum
Plate	.250 3003-H14 Aluminum
Floor Assembly	
Composite Sub Floor	.125 Intecel PVC
	1.84" High Density Foam
Channel	.25 6061-T6 Aluminum
Tubing	.25 6063-T6 Aluminum
	.125 6061-T6 Aluminum
Sheet	.090 5052-H32 Aluminum
Plate	.250 3003-H14 Aluminum
Bar	.50 6061-T6 Aluminum
Front Assembly	
Sheet	.125 5052-H32 Aluminum
Tubing	.125 6061-T6 Aluminum
Plate	.250 3003-H14 Aluminum

Rear Assembly	
Sheet	.125 5052-H32 Aluminum
Tubing	.125 6061-T6 Aluminum
Plate	.250 3003-H14 Aluminum
Side Assembly	
Sheet	.125 5052-H32 Aluminum
Tubing	.125 6061-T6 Aluminum
Angle	.25 6061-T6 Aluminum
Bar	.50 6061-T6 Aluminum
	.250 3003-H14 Aluminum
Seamless Door Assembly	
Sheet	.125 6061-T6 Aluminum
Door Frame	6061-T6 Aluminum
Jamb	6061-T6 Aluminum

Y____ N____

SUB-FLOOR SYSTEM

The module floor shall be a sandwiched composite subfloor whose materials equal 2.125" total thickness. The sandwich construction method shall include from top to bottom:

Y____ N____

TRANSVERSE STRUCTURE

The sub floor shall consist of a minimum of (5) five 2" x 2" x .250" 6061-T6 and (2) two 2" x 3" x .250" 6061-T6 structural 'C' channel transversely stacked and completely welded to the longitudinal runners with a minimum 4 inches of weld at every intersection. This shall create a 4 inch high floor substructure that provides enhanced structural strength from the transverse layering of the structural channels. The manufacturer shall utilize extruded, structural channel. Architectural channel or material that is not structurally rated channel shall not be acceptable.

Y____ N____

LONGITUDINAL STRUCTURE

The modular floor super structure shall include (2) full length 2" x 2" x .250" 6061-T6 longitudinal runners spaced the distance of the OEM chassis wheel wells. These longitudinal runners shall be welded to the 2" x 2" x .250" transverse structural members. The longitudinal runners shall provide the connecting structure for mounting the module to the OEM chassis frame. Due to the long term dynamic stresses inherent to any modular mounting system, under no circumstances shall the longitudinal runners be modified to accommodate the module mounting system bolts.

The welded 'C' channel floor substructure shall be pre-stressed with a minimum 1000 pound weight in order to give the floor structure more dynamic resistance to long term high cycle stresses.

Y____ N____

GUSSET SUPPORTS

Are fabricated of .250" aluminum with welding flanges on (2) sides. A minimum of (8) supports are welded to the Structural Wall Framing, Sub Floor and the Sub Structure further enhancing the structural integrity of the entire Floor Structure.

Y____ N____

SUNSPOT EMS
MEDICAL RESCUE BID SPECIFICATIONS

FLOOR PAN
Inlaid between the longitudinal runners the manufacturer shall install a 2 inch thick composite core panel. This panel shall be a formed aluminum structure utilizing .090 aluminum on the top and .063 aluminum on the bottom. Running full length from the front to the back shall be two (2), .125" x 1.75" 5053-H32 single piece, formed aluminum "C" channel support members for additional strength at the cot and attendant seat mounting locations. This support member shall be an integral part of the composite floor design.

Y____ N____

FLOOR MATERIAL
The assembled aluminum floor core panels shall be placed in a press and shall have 2.5# per cubic foot high density expanding foam injected between the layers which shall adhere to the aluminum structure creating enhanced structural strength to the subfloor system. The total 'R' value of the composite panel shall be R12 and the panel shall have a 20 decibel noise barrier. This panel shall run the full length of the module with no seams in the surfacing material.

Y____ N____

INSTALLATION
The composite floor panel shall be installed flush with the top of the longitudinal channel structure. The composite insert shall be secured in place with a two part self-etching, high-strength epoxy. All other open areas of the exposed sub floor not being filled by compartments or wheel wells shall have the same composite floor panel material installed to fill the openings. All seams and the entire perimeter of the sub floor shall be completely sealed with Sikaflex sealant adhesive or a spray-in-place foam material to create a watertight, dust free environment.

The manufacturer shall install a full length 1/8" closed cell, expanded core PVC panel on top of the composite floor insert. The PVC shall create a smooth environment for installation of the interior floor material.

Y____ N____

INTERIOR CONSTRUCTION
The interior cabinet construction shall be all aluminum and will include the following aluminum materials:

Wall Thickness = .090"
Alloy = 5052-H32

Interior Module Wall Panels
Wall Thickness = .063"
Alloy = 5052-H32

Interior Cabinet Shelves
Shelf Thickness = .063"
Alloy = 5005-H34

All upper band cabinet door frames shall consist of rigid, heavy duty, extruded aluminum glass frame. The rigid design of the frame extrusions and corner assemblies on the restocking doors will reduce twisting of the frame

structure. The door frames will be held closed with slam latches and the felt track design does not require adjustment.

In order to decrease the risk of accumulation or exposure to fluid borne pathogens, any areas around the interior that have the potential for fluid accumulation shall be seam sealed with silicone or equivalent type material that will prevent the possible accumulation of fluid borne pathogens.

All cabinet and wall panel aluminum trim included shall be Gray anodized. All protective corner trim shall be Opaque and will include a matching domed end cap.

The frames of the street side upper band cabinets shall be hinged with full length, piano hinge. The frame shall be hinged on top and be equipped with pneumatic hold opens on each side, with one (1) interior positive catch bottom center. This shall enable the entire face frame with sliding Plexiglas doors to be opened for easier cleaning and restocking of the cabinets. The gas shocks shall be of sufficient strength to automatically lift the cabinet door frame without any aid and hold in the open position.

Y____ N____

MODULE EXTERIOR

UNDERCOATING

The entire underbody (excluding drive shaft, wheels, fuel tank and 12 inches either side of exhaust system) shall be sprayed with Transcoat 161 undercoating for rust prevention, corrosion protection and added sound deadening. The material used shall be a low VOC product that meets MIL Spec MIL-C-62218A and will remain flexible but tack-free.

Y____ N____

EXTERIOR MODULE CONSTRUCTION

The structural framing of the roof and side walls shall consist of 2" x 2" x .125", 6061-T6511 aluminum structural tubing, firmly affixed to the body side skin with extreme acrylic bonding tape. Each frame member shall be independently welded at each intersection point with a minimum 4" of weld. The lateral spacing of framing members shall be a maximum average of 13" on center for superior strength throughout.

The entire exterior module shall be constructed of .125" x 5052-H32, corrosion resistant sheet aluminum. The module side wall, front and rear wall panels shall each be CNC cut and machine formed to provide a seamless sidewall. They shall be independently box pan formed components assembled to form an interlocking, integral structure that is interval welded along the formed web and at alternating intervals along the full length of each internal flange and along each external seam independent of the side wall structural framing. The construction process shall produce a clean, unbroken surface that provides seamless sidewalls with transition seams at the front and rear of the streetside and curbside walls providing an environment that is designed to eliminate unnecessary exposure, prevent oxidation and corrosion and promote the long term integrity of the ambulance body and finish.

Each sidewall shall be manufactured in an environment designed to prevent the waviness that can occur during the assembly process. The formed module side, front and rear wall panels shall be securely welded to the 2"

structural framing at the top and bottom where each individual framing member comes in contact with the box pan formed flange.

In addition to the welding, a high strength extreme acrylic bonding system shall be utilized throughout, providing for a rivet less exterior, free of warping which can occur when exterior sheeting is welded to the structural tubes. The bonding tape shall be closed cell foam with viscoelastic properties that help absorb dynamic body stresses.

Prior to application of the bonding tape all aluminum surfaces must be cleaned with an alcohol cleaner. Each of the side, front and rear walls shall be assembled and compression applied per the requirements of the adhesive manufacturer to provide proper adhesion and to produce a smooth, flat exterior surface eliminating side wall waves on the finished product.

The manufacturer must complete the installation process by applying the adhesive manufacturer's required compression PSI to insure proper adhesion. The manufacturer shall supply documentation detailing the mechanical properties and bond strength.

The roof framing structure shall be 2" x 2" x .125" 6061-T6 structural tubing spaced at a minimum of 12" on center and welded at each intersection and to the roof radius extrusion flange at every contact point. The ceiling shall be configured and constructed so that there is aluminum frame and support material to accommodate all of the ceiling mounted fixtures. The roof structure shall include two separate plenums that are integrated into the structural design and run the full length of the roof. One plenum is used to provide even distribution of conditioned air throughout the patient compartment. In order to support the efficient and effective performance of the system and to prevent the build-up of condensation inside, the interior of the plenum will be completely insulated with a reflective barrier insulation material.

The additional plenum provides a permanent, stable mounting environment for lighting, oxygen outlets, IV hangers, antenna access. The overall roof structure shall incorporate a 3/4" crown to reduce vibration and prevent water pooling on the module roof.

The perimeter frame of the roof shall consist of a 3" x 3" x .125 inch radius extrusion that has vertical triple wall webbing for superior strength. This extrusion shall be securely fastened and welded to the wall and ceiling structural framing. The design of this extrusion shall be such that it incorporates a flange similar to the box pan formed construction technique to ensure that the construction and fastening technique remains consistent throughout the module build process.

Inlaid into each of the upper four (4) corners of the module shall be aluminum corner caps. The corner caps shall be stamped out of the identical alloy material as the module side walls. Corner caps made of cast aluminum shall not be acceptable due to the inferior quality of the metal used for casting. The corner caps shall be continuously welded and ground smooth to provide a smooth, seamless transition at each corner whose appearance is as one continuous surface. The corners must be completely filled with weld material, bondo or other types of cold fillers are unacceptable.

The module roof shall include a single sheet of .090" x 5052-H32 aluminum. This roof sheet shall be attached to the welded roof structure with Acrylic VHB tape and incorporate a continuous, full perimeter weld to the roof radius extrusion to provide a permanent weather proof seal and to enhance the structural design of the modular structure. The weld around the perimeter of the roof skin shall be ground to provide a uniform transition around the perimeter of the roof material.

To minimize the effects of the long term stress cycles exerted on the modular structure, the manufacturer shall provide additional welding in areas of high stress concentration in the module. As a minimum, these areas shall be plug welded along the four vertical corners where the corner panel meets the modular body panel. There shall be additional welding on inside corners of the rear entrance door opening, body panel seams and areas around the perimeter of the door jambs where the jamb extrusions and wall structure intersect.

To enhance the structural integrity of the modular structure, the manufacturer shall provide additional interior wall plates and structural tubes across rear header and side walls to reduce long term stress in these areas.

To eliminate the potential for seam seal cracks or the appearance of any sidewall body cracks, the manufacturer shall provide single piece front, rear, and side body panels.

Y____ N____

DROP SKIRT - CURBSIDE

The manufacturer shall drop the lower body skirt along the curbside of the module ahead of the rear wheel well at the bottom of the module by approximately 5". This shall lower the height of the side entry step and provide easier access through the side entry door. Increase the depth of stepwell inboard as far as sub structure permits. Side surfaces to be Diamond Plate. Step surface to be a combination of NFPA Diamond Plate and removable 9" Grip Strut insert. The second step to be fabricated of NFPA Diamond Plate and installed so that the step surface is midway between the stepwell floor surface and the module floor surface making two equal steps into the vehicle.

Y____ N____

FUEL FILL

The vehicle shall be equipped with a cast aluminum fuel fill bezel.

Y____ N____

DEF FLUID FILL

The vehicle shall be equipped with a cast aluminum DEF fluid fill bezel.

Y____ N____

MODULE ACCESS

The module shall include one side entry door on the curb side of the module, and one set of double doors for entry to the rear of the module. The curb side door shall provide a clear opening that is approximately 30" W x 70"H. The rear double doors shall provide a clear opening that is approximately 50"W x 60"H.

Y____ N____

MODULE ENTRANCE DOORS

Module entrance door jambs to be extruded aluminum with no flange overlapping the exterior wall panels. The entry doors to be single box pan formed door skin with reinforced extruded aluminum door frame.

The three entrance doors will have the Fail Safe Latching Mechanisms. In the event of an accident where the door linkage and/or the rotary door handle(s) has been damaged to the point where the latching mechanisms do not respond to the entrance door handles, this will allow you to override the latching mechanisms to exit the vehicle.

The hinge shall have a Mylar barrier between the hinge and door jamb. The area between the stainless steel hinge and the painted door and jamb surfaces shall also be treated with anti-corrosion, electrolysis prevention material. The product must be commonly available to any and all manufacturers and have proven itself in the emergency and fire industries. The material must be applied per the manufacturer's application guidelines.

The module entrance doors shall be mounted in such a manner that when the doors are closed the stainless steel hinge is completely hidden behind the door skin. The design of these doors imitates smooth, flush fitting doors commonly found in the automotive industry.

Polystyrene foam planking insulation between the outer skin and the interior door panel.

Weather stripping to be secured to the door so that the latching system is protected from the elements.

The curbside and rear entrance door headers shall have removable, vinyl covered and color coordinated foam cushions to provide protection for emergency personnel when entering or exiting the vehicle.
The rear doors shall have polished cast aluminum hold-open devices with high-density rubber replaceable inserts mounted on each side. These devices shall hold the doors in a fully opened 135 degree position. To eliminate long-term stress due to opening and closing of the rear doors, hold open devices mounted to the module surface shall be bolted through the module skin and into the structural framing of the rear wall. Hold open devices mounted to the doors shall be installed with 1/4" x 20 stainless steel machine screws with a support washer and nylon lock nut on the interior surface. Screw attachment of these hold open devices shall not be acceptable.

The curbside entrance door shall incorporate a Heavy Duty gas filled spring hold open device capable of holding the door open at 90 degrees. Due to the extreme stresses exerted on the door at the hold open attachment point, the attachment bolts must be anchored to the door using 5/16" stainless steel bolts through custom brackets that are secured into a support gusset welded into the upper corner of the door structure.

The module entrance doors shall be equipped with two point, flush mounted TriMark paddle handles. The handle shall be designed with a floating cam so when the doors are locked no stress will be placed on the door rod linkage when the paddle handle is operated. The handle housings shall have a die cut rubber gasket separating the paddle handle from the door. The surface finish of the handles and the handle housing shall provide a polished chrome, bright finish. The paddle handles and housings shall be tested for adhesion, chemical resistance, salt spray, abrasion and accelerated weathering. All springs shall be made of pre-galvanized zinc music wire. Pivot plate and lock cam washer are zinc plated and coated with clear chromate.

All compartment and module entry door paddle handles shall be keyed alike. The paddle latches mounted in each locking door shall include a double cut, non-directional tumbler assembly designed to accept a key that

does not require a specific orientation for actuation. Single cut tumbler assemblies that require a specific orientation for operation are not acceptable.

The module entrance doors shall be equipped with TriMark rotary latches constructed of high strength, heat treated, steel latch components. Rotor and latch shall be coated with a solid film lubricant, springs made of 302 stainless steel, and components zinc plated with Clear chromate. There shall be removable access plates on the interior of the door to gain access to the rotary latches.

All rotary door latches shall engage Nader pin striker posts made of high strength steel, plated with clear chromate and inserted through a synthetic isolation washer designed to prevent corrosion around Nader pins. The Nader pins shall have a shoulder to prevent the latch mechanism from being pulled over the top of the pin in a dynamic crash situation. The Nader pins shall be fastened with a securing nut designed to function like a blind fastener, allowing the Nader pin to be adjusted and re-tightened without having to access the nut.

All of the internal door hardware, paddle handles and latches, shall be sprayed with a petroleum based lubricant material.

The interior side of the module entrance doors shall include a polished chrome TriMark flush mount interior paddle handle with the same specifications as the exterior paddle handles. The interior door assembly shall include a locking lever for the side entrance door and the curbside rear locking door. The street side rear door shall include a matching, non-locking TriMark paddle handle. All of the interior door paddle handles shall be mounted on removable, laminated aluminum panels designed for accessing, servicing and adjusting the paddle handles.

The module entrance door switches shall incorporate magnetic proximity switches that will activate specified module interior lighting when the side or rear entry doors are opened and will activate a flashing indicator light in the driver's control panel when the doors are opened. When open, the rear doors shall activate the rear load and back-up lights. The curbside scene lights shall be activated when the curbside module entrance door is opened. The switch utilized shall be a magnetic proximity switch that requires no maintenance and is easily accessible for replacement. The magnetic switch shall be a heavy-duty, industrial type with a minimum of a 3 amp rating.

The interior side of the module entrance doors shall include a polished chrome TriMark flush mount interior paddle handle with the same specifications as the exterior paddle handles. The interior door assembly shall include a locking lever for the side entrance door and the curbside rear locking door. The street side rear door shall include a matching, non-locking TriMark paddle handle. All of the interior door paddle handles shall be mounted on removable, laminated aluminum panels designed for accessing, servicing and adjusting the paddle handles.

Y____ N____

INTERIOR DOOR PANEL
The interior finish of the entry doors shall be stainless steel.

The module entrance door switches shall incorporate magnetic proximity switches that will activate specified module interior lighting when the side or rear entry doors are opened and will activate a flashing indicator light

in the driver's control panel when the doors are opened. When open, the rear doors shall activate the rear load and back-up lights. The curbside scene lights shall be activated when the curbside module entrance door is opened. The switch utilized shall be a magnetic proximity switch that requires no maintenance and is easily accessible for replacement. The magnetic switch shall be a heavy-duty, industrial type with a minimum of a 3 amp rating.

Y____ N____

LOCK BOXES
The lock boxes for the interior door handles are to be covered with White Diamond Grade reflective material.

The manufacturer shall provide coil cord cables to enable electrical devices to be installed on the side and rear entry doors. The coil cords will be secured at both ends (on the door and at the adjacent wall) with plastic inserts designed to provide an effective, stable mounting point to prevent chafing, and to promote the long term reliability of the function it supports.

The interior door panels for all entrance doors will utilize the automotive style spring clips mounted to the door frame. The interior door panels will be held in place with 10-24 X 3/4" stainless steel machine screws. Screws will be rubber backed and treated with thread locking material pre-applied by the screw manufacturer to prevent loosening from long term vibration.

Y____ N____

POWER LOCKS - ENTRY DOOR
This vehicle shall be equipped with power door locks. They shall be for patient access doors only, and shall lock and unlock manually with the switch at each patient access door or cab door lock. There shall also be a hidden switch for the unlock function. This option does not include a wireless remote.

Y____ N____

SIDE DOOR STEP
Increase the depth of stepwell inboard as far as sub structure permits. Side surfaces to be Diamond Plate. Step surface to be a combination of NFPA Diamond Plate and removable 9" Grip Strut insert. The Diamond Plate section of the floor to be supported with rigid foam floor insulation in the same manner as the module floor. The lower step with grip strut will include a drain hole with plug.
The second step to be fabricated of NFPA Diamond Plate and installed so that the step surface is midway between the stepwell floor surface and the module floor surface making two equal steps into the vehicle.

Y____ N____

STEPWELL LIGHT
There shall be a Whelen OS Mini LED light, 45 degree, installed in the curbside stepwell to automatically light when the side entrance door is opened.

Y____ N____

WINDOWS
All windows shall be from the same window manufacturer, and shall use safety glass with black aluminum extruded frames inside and out. Windows shall meet and incorporate the required stamp and serial number per F.M.V.S.S. regulation #571.205.

Side entry door shall include an 18"W x 18"L sliding tinted safety glass window with a positive latch and screen.

Rear entry doors shall each include an 18"W x 18"L fixed tinted safety glass window.

Y____ N____

MODULE TO CHASSIS MOUNTING

The module shall be mounted to the chassis frame at not less than ten (10) tie down locations. Each mounting location shall consist of a heavy duty steel gusset that is securely bolted to the OEM manufacturers frame with grade eight 1/2 inch zinc plated bolts. On top of these connecting plates shall be bolted a rubber doughnut. A 5/16 inch anti-friction pad to shall be placed between the doughnut bolting plate and the module sub frame to prevent electrolysis and vibration transmission from the frame to the module. The module sub floor 2 inch 'C' channels shall rest only on these anti-friction pads, and be securely fastened with the same bolt.

Y____ N____

CAB TO MODULE

The cab and module shall be separated by an approximate distance of 3". Between the cab and the module, the manufacturer shall install a flexible 6 inch accordion style rubber bellows that is weather resistant and easily replaced. To enhance the weather proof integrity of the seal, the bellows shall recess approximately 2" and into the module approximately 2 inches.

Y____ N____

BUMPER AND REAR STEP

The rear bumper frame shall be all steel, welded construction. The frame members shall be made of 4" x 1-3/8" steel 'C' channel, 6" x 2" steel 'C' channel, 2" x 2" steel tube and 3" x 1-1/2" steel angle. The bumper shall be bolted to the OEM chassis frame rails.

There shall be a full width, one piece polished aluminum diamond plate kick plate installed above the rear step bumper and below the rear entry doors. The kick panel shall be sealed along the top and both ends with a continuous bead of Sikaflex sealant adhesive.

All steel rear bumper frame members to include isolation material between the steel frame and the aluminum bumper pods. Frame to have rubberized Scorpion polyurethane coating applied to prevent rust.

The rear of the module shall include a fixed rear bumper. The center step shall include a fixed "grip" step insert measuring approximately 2"H x 45"L x 7"W. The non-skid, open grate grip strut center step material shall be used to prevent the buildup of mud, snow and ice and to provide a secure step. On the face of the grip strut shall be a formed piece of 14 gauge stainless steel to prevent damage to cots and to the rear edge of the step material when loading.

There shall be eye beam constructed skid plates with tow eyes mounted as part of the frame of the bumper.

Bumper Pods, CPI Cast Aluminum

The rear outboard bumper pods shall be CPI cast aluminum with high polish finish, formed with manufacturer Logo embossed in the cast pattern on the step tread.

Y____ N____

REAR RECEIVER *Option D*

The rear of the chassis shall be equipped with one (1) square steel tube receiver assembly for high or low angle rescue or winch applications. It shall be the same size as a Class III trailer hitch and shall be attached to the chassis frame and bumper extension assembly. The receiver shall be rated at approximately 10,000#.

Y____ N____

SOUND DAMPENING/THERMAL INSULATION

The module interior walls, roof and doors shall be insulated to enhance the interior environment and minimize the conduction of heat, cold and external noise from entering the module. The wall and ceiling insulation shall be a non-settling, 2 inch thick, self-extinguishing polystyrene foam planking.

There shall be 3M brand acoustical Thinsulate installed over all exterior compartments and wheel wells for added acoustical insulation.

In addition to the polystyrene foam planking, the ceiling shall include a layer of 1/2 inch closed cell foam rubber padding installed prior to the vinyl ceiling material. The foam and vinyl shall provide additional safety and insulation.

There shall be a single layer of 3M Thinsulate insulation between the OEM head liner and the cab roof to reduce noise.

The patient compartment entrance doors and the exterior compartment doors shall have 2 lb. high density foam insulation. The foam shall be glued to the interior and exterior panel for added structural strength.

The interior walls of the module shall be insulated with 1" polystyrene block foam insulation installed between the extruded structural framing. Wall areas that are too irregular for 1" block foam insulation, or where the block foam will interfere with wall outlets and wire chases, are to be insulated with 3M brand acoustical Thinsulate insulation. After the foam is installed, the entire interior of the unit shall be wrapped with 1/4" foil wrapped two sides radiant barrier foam style insulation to enhance the thermal and acoustical properties of the modular unit. The wheel well and interior compartment wall areas shall be wrapped with Barymat sound proofing material installed under 3M brand acoustical Thinsulate insulation and the underside of the module floor will be coated with a Dow Chemical two part spray in place acoustical/thermal polyurethane insulation. This package provides an enhanced thermal/acoustical insulation package designed to provide an extremely quiet, environmentally efficient patient compartment.

Y____ N____

REFLECTIVE BARRIER/BARYMAT/SPRAY FOAM THERMAL INSULATION PACKAGE

A. Reflective Barrier - Low-E Foil Wrapped Insulation System - The module walls shall be insulated with high density 1" block foam. Wall areas that are too irregular for 1" block foam insulation, or where the block foam will interfere with wall outlets and wire chases, are to be insulated with 3M brand acoustical Thinsulate insulation. Then the entire interior of the module shall be wrapped with 1/4" Low-E foil wrapped radiant barrier foam style insulation.

B. This radiant barrier material will cover the following:
   i. Full ceiling and wrapping over the corner radius and down the sidewall

ii. Full side, front and rear walls from the top of the wall to the lowest possible point along the side, front and rear walls
iii. Seams to be taped with silver / foil ducting tape to secure seams.

C. Barymat sound deadening insulation over wheel wells and interior side of exterior compartment walls. (Installed under 3M brand acoustical Thinsulate insulation).

D. Spray foam underbody insulation prior to undercoat application, full subfloor coverage where applicable. Includes curbside step well area.

Y____ N____

ELECTROLYSIS PREVENTION

All external materials and fasteners shall be chosen to prevent electrolysis and corrosion due to dissimilar materials, exposure to the elements and moisture entrapment.

Rubber, plastic or Mylar insulating material shall be installed under all lighting, all exterior compartment and entrance door handles, exterior door hinges, rear door hold opens, fuel filler, crash rails, windows and between the cab and module.

Additionally, all exterior components fastened or attached to the module, anything that breaks or has the potential to break paint shall incorporate the use of Fluid Film brand anti-corrosion and electrolysis prevention material. The manufacturer must use the patented Fluid film product; an equivalent substitute will not be acceptable. This product is available to any and all manufacturers and has proven itself in the emergency and fire industries. Product must be applied per the application guidelines.

To prevent long term electrolytic paint corrosion all components to be mounted on the module exterior shall be cut out prior to painting. All exterior fasteners used to mount emergency lighting to the outside of the module shall be completely isolated from the painted module by using a nonferrous collapsible blind insert that is reusable.

Crash rails and fender rings shall be secured to the module body utilizing an attachment method that does not use dissimilar metals.

Y____ N____

COMBINATION RUB RAIL AND FENDER RING

There shall be lower body Rub Rail/Crash Rail and Fender Ring constructed of Black extruded rubber. The rubber rail will be snap-on mount with no fasteners providing easy replacement. The extrusion that the rubber rail fastens to will be secured to the body with mechanical fasteners for ease of replacement. The lower body Rub Rail and the transition to the Fender Ring will have Polished Aluminum end caps. This rubber material shall be highly resistant to weather extremes, road salts, and other chemicals. The extruded rubber rail to accept multiple inserts

Y____ N____

REFLECTIVE STRIPING

The reflective stripe recessed in the rubber crash rail will be "Blue" Scotchlite.

Y____ N____

RUNNING BOARDS

Running boards shall be provided on both sides of the vehicle. The running board shall be made of .125 inch NFPA compliant aluminum diamond plate and will be 8 inches wide in front and flared out to provide a 14 inch

width at the rear. Diamond plate splash guards shall also be provided measuring approximately 8 inches wide x 14 inches high and shall be welded to the ends of the running boards. This assembly shall be securely mounted to the cab with stainless steel 1/4 inch x 20 hex head bolts. ECK brand material must be applied to prevent electrolysis at mounting locations.

Y____ N____

MUD FLAPS

Mounted behind the rear dual wheels shall be heavy duty commercial type mud flaps. They shall be installed in such a manner as to not come in contact with the exhaust pipe and shall be bolted on with 1/4" x 20 stainless steel bolt assemblies for ease of replacement.

Y____ N____

DRIP RAILS

Drip rails shall be extruded, bright anodized aluminum, running full length of module at the top sides and rear. Drip rails shall also be installed over each exterior compartment and directly over the rear entrance doors. All drip rails shall be attached with 3M VHB Urethane bonding tape, which will withstand exposure to the elements and still be replaceable. Mechanical type fasteners that can cause paint electrolysis shall not be acceptable.

Y____ N____

WHEEL WELL LINERS

There shall be full wheel well liner protection plates in each rear wheel well extending down to the bottom of the skirt. Chassis manufacturer's wheel and jounce clearance must not be violated.

Y____ N____

TIRE CHAIN SYSTEM *Option H*

The chassis shall be equipped with "On-Spot" automatic tire chains with compressor. The actuator switch shall be located on the driver's console and shall include a mechanical switch guard. The system compressor shall be mounted in the #2 compartment and will be provided with a metal cover. The cover shall be constructed to provide both protection and adequate venting for heat dissipation.

Y____ N____

CAB TO MODULE ACCESS

A cab to module crawl-through access shall be provided with a clear opening measuring approximately 32"H x 18"W. The hinged door shall be self-latching in the open or closed position with the actuator latch being on the cab side. The door shall contain a clear safety Glass window providing a minimum 200 square inches of viewing.

Y____ N____

CAB TO MODULE FLUID DAM

A partition at the floor level in the module shall be installed to prevent fluids from contaminating the cab. The walk through floor will be fully sealed to prevent contamination.

Y____ N____

LICENSE PLATE HOLDER

The license plate frame shall be installed into the diamond plate kick panel on the passenger side rear of the module body. The frame must be cut flush into the diamond plate and not surface mounted on top of the "diamonds". The gap between the license plate frame and the diamond plate cutout shall be fully sealed with Sikaflex sealer.

Y____ N____

EXTERIOR COMPARTMENT CONSTRUCTION

All compartment sidewalls and ceilings shall be constructed of .125" x 5052-H32 aluminum. Compartment floors shall be constructed of .125" x 5052H32 aluminum that is raised to provide a smooth sweep out floor. The complete formed and welded compartment assemblies shall be securely welded to the sub-floor structure and sidewall structural framing of the module. All compartment construction joints that are not sealed by weld shall be sealed with an automotive grade seam sealer before final finishing of the compartments.

Module exterior compartment door jambs shall be .125" x 5052H32 extruded aluminum. The door jamb extrusion shall have four corner keys installed and each corner shall be fully welded as a square assembly. The extrusion shall have a tapered flange that overlaps the body and shall also have a flange with a smooth mating surface for the air cell hollow core, compression door seal that is applied to the door. There shall be a 2" x 2" door frame around the full perimeter of the door opening to provide a structural foundation for the door jamb. The door jamb assembly shall be welded to the compartment framing.

Y____ N____

DOOR SILL PROTECTION

The manufacturer shall install a stainless steel door sill protection on the lower outside edge of all exterior entry and compartment door frames to prevent damage caused by entering or leaving the vehicle or when accessing or replacing equipment.

Y____ N____

EXTERIOR COMPARTMENT DOORS

Module exterior compartment door jambs are to be extruded aluminum with no visible door jamb flange that overlaps the exterior wall skin. The exterior compartment doors to be single box pan formed door skin with reinforced extruded aluminum door frame.

The hinge shall have a Mylar barrier between the hinge and door jamb. The area between the stainless steel hinge and the painted door and jamb surfaces shall also be treated with anti-corrosion, electrolysis prevention material. The product must be commonly available to any and all manufacturers and have proven itself in the emergency and fire industries. The material must be applied per the manufacturer's application guidelines.

The exterior compartment doors shall be mounted in such a manner that when the doors are closed the stainless steel hinge is completely hidden behind the door skin. The design of these doors imitates smooth, flush fitting doors commonly found in the automotive industry.

Polystyrene foam planking insulation shall be installed between the outer skin and the interior door panel. There will be access plates on the interior door panel for servicing the rotary latch(es). Weather stripping shall be secured to the door so that the latching system is protected from the elements.

The compartment doors shall be equipped with TriMark rotary latches constructed of high strength, heat treated, steel latch components. Rotor and latch shall be coated with a solid film lubricant, springs made of 302 stainless steel, and components zinc plated with Clear chromate

All rotary door latches shall engage Nader pin striker posts made of high strength steel, plated with clear chromate and inserted through a synthetic isolation washer designed to prevent corrosion around Nader pins. The Nader pins shall have a shoulder to prevent the latch mechanism from being pulled over the top of the pin

in a dynamic crash situation. The Nader pins shall be fastened with a securing nut designed to function like a blind fastener, allowing the Nader pin to be adjusted and re-tightened without having to access the nut.

All of the internal door hardware, paddle handles and latches, shall be sprayed with a petroleum based lubricant material.

The module compartment door switches shall incorporate magnetic proximity switches that will activate specified module compartment interior lighting when the compartment door is opened it will activate corresponding interior compartment light and activate a flashing indicator light in the driver's control panel when the doors are opened. The switch utilized shall be a magnetic proximity switch that requires no maintenance and is easily accessible for replacement. The magnetic switch shall be a heavy-duty, industrial type with a minimum of a 3 amp rating.

All of the internal door hardware, paddle handles and latches, shall be sprayed with a petroleum based lubricant material.

All exterior compartment doors shall have a red reflector mechanically attached to the lower outboard corner of the door

Y____ N____

COMPARTMENT DOOR PANEL, INNER
The interior door panels of the exterior compartment doors are to be Aluminum Diamond Plate.

All exterior compartment doors shall have a red reflector mechanically attached to the lower outboard corner of the door

Y____ N____

COMPARTMENT DOOR, GAS STRUTS
The ambulance shall be equipped with Heavy Duty gas strut hold opens. The struts will be installed on each exterior compartment door. Exterior compartment doors must open to 90+ degrees.

Y____ N____

COMPARTMENT DOOR PANEL MOUNTING SCREWS
The interior door panels for all module exterior compartment doors will utilize the automotive style spring clips mounted to the door frame. The interior door panels will be held in place with 10-24 X 3/4" stainless steel machine screws. Screws will be rubber backed and treated with thread locking material pre-applied by the screw manufacturer to prevent loosening from long term vibration.

Y____ N____

POWER DOOR LOCKS
The following exterior compartments shall come equipped with power door locks:

- Exterior Compartment #1
- Exterior Compartment #2
- Exterior Compartment #4
- Exterior Compartment #6
- Exterior Compartment #8

Y____ N____

COMPARTMENT LIGHT LOCATIONS
Compartment Lights shall be installed

- (1) #1 Ceiling. 4" light
- (2) #2 Wall 4" light
- (2) #4 Wall above and below standard shelf. 4" light
- (1) #6 Ceiling. 4" light
- (3) #8/Right Stack - One in each shelf section. 4" light

Y____ N____

LIGHTS, EXTERIOR COMPARTMENT - ADDITIONAL FLEXIBLE LED STRIP
All exterior compartments shall be additionally illuminated by Kinequip Flexible LED strip lighting in lieu of the standard 4" halogen lights. Each specified compartment shall have (2) Kinequip LED strips installed, (1) on each side of the door and facing inward. This option does not delete the standard switched surface mount light in the Oxygen compartment.

Y____ N____

EXTERIOR COMPARTMENT FINISH
All compartments surfaces shall have a degreaser and metal treatment application to remove oils and etch the surface to insure proper adhesion of the Scorpion (TM) coating. All seams shall then be caulked and allowed to dry to prevent shrinking and cracking. This system shall produce a high performance textured solid color surface to provide a durable, wear resistant finish. Scorpion Color shall be: Dark Gray

Y____ N____

EXTERIOR COMPARTMENT SHELVING
All shelving Unistrut shall be welded to the walls prior to any compartment wall finish. Where specified, exterior adjustable shelves shall be box pan formed of a minimum .125 inch Aluminum Diamond Plate and corners shall be welded. Shelves shall be infinitely adjustable, and securely mounted to heavy gauge aluminum Unistrut track.

Where specified, exterior adjustable shelves shall be box pan formed of a minimum .125 inch Aluminum Diamond Plate and corners shall be welded. Shelves shall be infinitely adjustable, and securely mounted to heavy gauge aluminum Unistrut track.

Y____ N____

EXTERIOR COMPARTMENT - #1
Recessed into the bulkhead side of compartment #1 shall be an enclosed area for the installation of miscellaneous electrical components. The aluminum cover for this area to be installed with 'J' molding. The 'J' molding to be full length of panel on bottom and inboard side. Outboard side of panel to be secured with mechanical fasteners.

The forward most compartment on the street side of the module. It shall be externally vented with stamped louvers, to prevent compression of the air inside the compartment to allow you to shut the door.

Y____ N____

EXTERIOR COMPARTMENT - #2
Shall be directly behind the #1 compartment and below the interior action area shelf on the street side of the module. This compartment shall be for equipment storage and shall be per the size and configuration shown in the attached prints.

Y____ N____

EXTERIOR COMPARTMENT - #4
Compartment #4 shall be the rearward most compartment on the street side of the vehicle. The compartment includes one adjustable shelf on Unistrut tracks.

Y____ N____

EXTERIOR COMPARTMENT - #6
Exterior compartment #6 shall be located at the curbside rear of the module. The compartment shall have a single door. This compartment shall be configured primarily for the vertical storage of backboards and other miscellaneous equipment. The manufacturer shall install a louvered vent in the upper left wall of the #6 compartment to enable the door to close without added compression. This compartment shall be per the size and configuration shown in the attached prints.

Y____ N____

EXTERIOR COMPARTMENT - #8
Exterior compartment #8 shall be the forward most compartment on the curbside of the module allowing interior / exterior access to the interior ALS cabinet. This compartment shall be per the size and configuration shown in the attached prints.

Y____ N____

EXTERIOR COMPARTMENT - #8.5
Exterior compartment #8.5 shall be located below the primary #8 compartment inside/outside access ALS cabinet. It shall be an isolated storage compartment for the vehicle batteries. This compartment shall be a self-sealing drawer that is an integral part of the battery storage tray. The tray shall be mounted to a set of HD 250# slides mounted on 1/4" aluminum side rails.

NOTE: Battery access door mounted slide out battery tray. The interior of the battery compartment to be made of diamond plate aluminum. Battery Tray to be raw aluminum

Y____ N____

MODULE INTERIOR CABINET CONSTRUCTION
All cabinets shall be independently box pan formed of .090 aluminum, utilizing welded, shatter proof construction for maximum safety. No wood products shall be used. Cabinets shall be constructed as independent modular units completely assembled outside the vehicle then secured to the module structure, thereby enhancing the overall structural integrity of the module. Cabinets created or assembled in the vehicle as a dependent part of the module structure shall not be acceptable due to their inability to enhance the overall structural integrity of the module.

The interior of the cabinets shall be acid washed, degreased with wax and grease remover. A coat of self-etching wash primer shall be applied and a final coat of white paint with flattening toner shall be applied.

The exterior of the cabinets shall be laminated with industrial grade, color coordinated material. The upper cabinets shall be covered with a heavy-duty color coordinated vinyl and the lower cabinets and walls will be

covered with a standard grade plastic laminate. Cabinet bottoms shall be lined with non-hygroscopic removable shelf liner

The cabinet door frames shall consist of heavy-duty, extruded aluminum glass track frame fastened together as a structure independent of the cabinet. All frame corners shall be mitered and assembled with extruded aluminum corner braces and epoxy. The frames shall be constructed in a manner that allows for disassembly and replacement of the sliding Acrylic doors. All sliding cabinet doors shall be 3/16 inch Acrylic set in felt lined tracks that require no adjustment. Each piece of Acrylic glass shall have full length extruded aluminum handles.

The frames of the upper band cabinets shall be hinged with full length, piano hinge. The frame shall be hinged on top and be equipped with pneumatic hold opens on each side, with one (1) interior positive slam latch. This shall enable the entire face frame with sliding Acrylic doors to be opened for easier cleaning and restocking of the cabinets. The gas shocks shall be of sufficient strength to automatically lift the cabinet door frame without any aid and hold in the open position without any other device. The rigid design of the frame extrusions and corner assemblies on the restocking doors will eliminate twisting of the frame structure. The frame shall have a positive locking device to keep the frame from opening while the vehicle is in motion.

The frames of the street side upper band cabinets shall be hinged with full length, piano hinge. The frame shall be hinged on top and be equipped with pneumatic hold opens on each side, with one (1) interior positive catch bottom center. This shall enable the entire face frame with sliding Plexiglas doors to be opened for easier cleaning and restocking of the cabinets. The gas shocks shall be of sufficient strength to automatically lift the cabinet door frame without any aid and hold in the open position without any other device. The frame shall have a positive locking device to keep the frame from opening while the vehicle is in motion.

All plastic laminates shall be adhered to the cabinetry using an industrial grade high strength contact adhesive. The manufacturer shall demonstrate strength of adhesive through independent testing. Test results shall demonstrate strength of newly applied adhesive as well as strength of aged adhesive. Testing should be to ASTM standard # D3163-92 or equivalent.

All upper band cabinet door frames shall consist of rigid, heavy duty, extruded aluminum glass frame. The rigid design of the frame extrusions and corner assemblies on the restocking doors will reduce twisting of the frame structure. The door frames will be held closed with slam latches and the felt track design does not require adjustment.

Squad Bench and CPR seat cushions shall be securely fastened but easily removable without tools for daily cleaning. All other cushions shall be permanently fastened.

In order to decrease the risk of accumulation or exposure to fluid borne pathogens, any areas around the interior that have the potential for fluid accumulation shall be seam sealed with silicone or equivalent type material that will prevent the possible accumulation of fluid borne pathogens.

Y____ N____

INTERIOR ADJUSTABLE SHELVES
Where specified, interior shelves shall be made of .063 inch anodized aluminum. The shelves shall be infinitely adjustable, and bolt into position to prevent rattling. Shelf bottoms shall be lined with non-hygroscopic removable shelf liner. The front edge of the shelf shall be covered with a push on plastic trim to prevent chafing.

Y____ N____

INTERIOR TRIM
All cabinet and wall panel aluminum trim including shall be Gray anodized. All protective interior cabinet corners shall be trimmed with stainless steel angle in lieu of the standard rubber corner protection.

Y____ N____

CEILING MEDICAL DEVICE RAIL
A near surface mounted Medical Device rail system shall be installed over the primary cot. Each side of the track will have a solid surface accent stripe to match the action wall counter. The track system to be surface mounted and run the entire length of the module with the sole intent of providing easy access to allow the medical personnel to quickly access equipment for administering aid to the patient.

The medical device rail allows for previsions for standard:
- (1) IV Hanger
- (3) Patient Lights focused at head, torso and legs
- (2) Antenna accesses under cot lights.

Y____ N____

HEADLINER
The module ceiling shall be White PVC material.

Y____ N____

LED STRIP LIGHTING
White LED strip lights shall be installed from the upper bulkhead area to the rear of the module stopping approximately 12 inches from the rear door header area on both sides. Includes an 'On/Off' switch at the rear switch panel, 'On' with module.

Red/Amber LED strip lights shall be installed in the Ceiling Medical Device Rail on both sides at the rear. Total length on each side to be 12". The lights shall be activated from the vehicle turn signals or brake light circuit to inform personnel in patient compartment when the vehicle is turning and braking.

Y____ N____

FLOORING
Aluminum Floor/Wall Cove Moulding
Seams at perpendicular floor and cabinet intersections will be finished with an aluminum cove moulding trim. The seams where cabinets meet floor will be sealed with a caulking sealant / adhesive before installing the aluminum cove moulding.

Y____ N____

STAINLESS STEEL REAR THRESHOLD, 45 DEGREE CHAMFERED
The rear door threshold shall be 14 gauge stainless steel with 45 degree chamfered edge. The threshold will be permanently installed with Sikaflex 252 sealant/adhesive. The Sikaflex material will both secure the threshold and provide a full perimeter seal to prevent fluid borne contamination. The threshold shall include 3M "Safety

Walk" anti-skid tape to prevent slipping. There will be no holes drilled in the stainless and no screw type attachments required.

Y____ N____

FLOORING MATERIAL

The patient compartment standard flooring shall be Lonseal / Loncoin II Flecks commercial grade, anti-skid flooring material. Color - 157 Moonstone

Y____ N____

CURBSIDE STAINLESS STEEL THRESHOLD, 4" WIDE, W/SAFETY WALK ANTI-SKID TAPE

There shall be a 4" wide14 gauge #304 stainless steel threshold with anti-skid tape at the curbside entry door. The threshold will be installed with Sikaflex 252 in a manner that provides a permanently stable attachment and full perimeter seal to prevent fluid borne pathogen contamination and enhances the cleaning process. The threshold shall include 3M "Safety Walk" anti-skid tape to prevent slipping. There will be no holes drilled in the stainless and no screw type attachments required.

Y____ N____

HEAD BUMPERS

There shall be head bumpers located over the module to cab walk-through, on all three sides of the upper CPR seat head area, on the front of the environmental cabinet, across upper rear curbside exterior compartment wall. These cushions shall be 1 inch high density flame retardant foam cushions covered with heavy grade color coordinated vinyl. The side entry door header shall have a vinyl covered foam padded cushion spanning the full width and height of the header wall above the door. The rear entry door header shall have a 2" high density flame retardant vinyl covered cushion spanning the full width and height of the header wall above the doors.

To reduce the accumulation of fluids, to prevent long term moisture damage due to water and fluid contamination, and to facilitate the cleaning process in the patient compartment; all cushions and related components shall be constructed without the use of wood products.

Y____ N____

BACKRESTS

All of the backrests and seat cushions shall be constructed with 2 inch thick, high density fire retardant foam covered with a heavy grade color coordinated vinyl. The lower band cushions and backrests shall be thermal vacuum formed automotive vinyl. The cushions shall be backed with 10mm PVC board. Plywood or other porous materials shall not be acceptable for cushion backs. Backrest and seat cushions shall be securely fastened yet easily removable for cleaning. All other cushions shall be attached with Christmas tree type automotive blind fasteners.

Y____ N____

GRAB RAILS

Each module rear entry door shall be equipped with a 1-1/4" diameter Anti-Microbial stainless steel "L" shaped grab bar. These bars shall measure approximately 16" wide by 24" high, and shall have a Clear Anti-Microbial coating. The bars shall be oriented so that the horizontal portion of the "L" extends along the lower edge of the window. The vertical portion of the "L", shall be oriented toward the hinge side of the doors, and shall extend upward to a mount point above the upper edge of the window. All fasteners for the bars MUST engage internal door structure.

The module's side entry door shall be equipped with a 1-1/4" diameter Anti-Microbial stainless steel "L" shaped grab bar. This bar shall measure approximately 19" wide by 24" high, and shall have a Clear Anti-Microbial coating. The bar shall be oriented so that the horizontal portion of the "L" extends along the lower edge of the window. The vertical portion of the "L", shall be oriented toward the hinge side of the doors, and shall extend upward to a mount point above the upper edge of the window. All fasteners for the bar MUST engage internal door structure

There shall be a 1-1/4 inch diameter handicap style stainless steel grab rail securely mounted to the ceiling. All fasteners for the rail MUST engage structural framing in the ceiling. The rail shall be approximately 96" long and have a Clear Anti-Microbial coating. The rail shall be mounted lengthwise and as close to center as possible over the primary cot location.

There shall be an additional 1-1/4 inch diameter handicap style stainless steel grab rail securely mounted to the ceiling. All fasteners for the rail MUST engage structural framing in the ceiling. The rail shall be approximately 72" long and have a Clear Anti-Microbial coating. The rail shall be mounted lengthwise and toward the curbside of center over the squad bench.

Y____ N____

IV HANGERS

There shall be two (2) each Cast Products # IV2008-01 ceiling mounted IV hangers installed in customer specified locations. These flush mount hangers shall accommodate 2 bags and shall be equipped with stabilizer straps. The hangers shall be mounted so that in the event of a forward collision, the hangers will fold up upon impact. Location will be finalized during preconstruction meeting.

Y____ N____

LEFT STACK AREA #1

For access to the electrical components, the upper bulkhead cabinet shall have double hinged Kydex Thermoplastic laminate or multi-spec covered doors with locking latch on the right hand door and center mullion on the left hand door.

Y____ N____

LEFT STACK CABINET AREA #1

A vertical cabinet shall be provided behind the attendant seat. The cabinet shall have one adjustable shelf. The section below the shelf shall be vented for dissipation of heat generated by radio, battery charger, and inverter components typically installed in this area. The aisle side of the cabinet shall have a single solid aluminum, Kydex Thermoplastic laminate or multi-spec covered door with locking latch top and bottom.

Y____ N____

ACTION AREA WALL #2

An action wall Medical Device rail system shall be installed on the streetside wall. Each side of the track will have a solid surface accent stripe to match the action wall counter. The track system to be surface mounted and run the entire length of the action wall from the #1 compartment to the CPR seat.

The medical device rail allows for previsions for the standard (2) Oxygen Outlets, Oxygen Solenoid Valve, Suction Regulator, 12V Outlet and 110V Outlet.

The upper level cabinets shall be combined into a single cabinet with sliding doors and restocking feature. The cabinet shall include one (1) adjustable shelf. An attendant switch panel and environmental controls shall be

built into a separate 6" high section below the restocking door and tilted slightly down for ease of accessibility to the attendant. NOTE: MAXIMUM WIDTH FOR THIS CABINET IS 43".

The action area wall counter and rear monitor counter aft of the CPR seat shall be Stainless Steel. There shall be a loose rubber mat liner installed loose on the street side countertops. The rubber material shall easily removable for cleaning.

Y____ N____

STREETSIDE C.P.R SEAT AREA #3

A CPR seat shall be installed and provide a minimum 24" wide seating space. The seat and backrest cushions shall be 2 inch high density flame retardant foam covered with high grade color coordinated vinyl. The seat lid shall be hinged for storage underneath, held up with a pneumatic hold open device and be held closed with a positive latch. The upper and lower portion of the CPR seat area shall be padded on three sides for additional protection. These areas shall be a minimum of 1 inch high density flame retardant foam covered with high grade color coordinated vinyl.

The CPR seat shall include (1) TriMark recessed Black latch to secure the lid when in the down position.

The CPR seat shall be equipped with a 6-point seat belt that meets or exceeds NFPA 1917 section 6.21.

Y____ N____

STREETSIDE REAR AREA #4

There shall be an upper left cabinet with sliding Acrylic doors, restocking feature and one (1) adjustable shelf. Cabinet shall be in the upper left street side rear of the module and will provide interior access only. This cabinet shall be identified with size and configuration and shown in the bid package prints.

Below the upper left cabinet shall be a center left cabinet with hinged Lexan doors with latches and (1) adjustable shelf. The cabinet shall be approximately 24 in. H x 21 in. D. It shall include a 24 inch counter aft of CPR seat. The counter top shall be made of the same surface material as the main action area counter top.

Y____ N____

SQUAD BENCH AREA

A squad bench shall be provided on the curbside of the vehicle. The bench cushions shall be 2 inch thick high density flame retardant foam, covered with high grade color coordinated vinyl. There shall be a two piece lid hinged for internal storage, and shall open to not less than 80 degrees, have pneumatic lifting supports on each side and will be held closed with positive latches. The lid shall be constructed of durable lightweight materials. No wood products shall be used. The interior of the squad bench shall be completely box pan formed aluminum, sealed and painted to create a seamless interior for easy and thorough cleaning and disinfecting.

The manufacturer shall provide a minimum of three restraint straps on the face of the squad bench for securing a patient lying on the squad bench.

An action wall Medical Device Rail system shall be installed on the streetside wall. Each side of the track will have a solid surface accent stripe to match the action wall counter. The track system to be surface mounted. The medical device rail allows for previsions for the standard Oxygen Outlet and Ceiling Light Timer.

The squad bench shall include (2) TriMark recessed black latches to secure the squad bench lids when in the down position.

The squad bench shall be equipped with two 6-point seat belts that meets or exceeds NFPA 1917 section 6.21.

Y____ N____

CURBSIDE RIGHT STACK STORAGE #8

There shall be a heat A/C unit located at the top of the right stack/ALS cabinet. Conditioned air shall be distributed through six vents evenly spaced down the full length of the ceiling. There shall be a floor to ceiling plenum with intake vents of sufficient size to allow recirculation of the conditioned air.

The right stack Air Intake Chamber shall be an extension of the inboard right stack wall and will include a hidden opening at the bottom for recirculation. The air intake is to be elevated from the floor to allow for cove molding and roll up flooring.

The top section of the ALS cabinet shall be for the fully enclosed Heater - A/C unit.

Below the top section area shall be a drug cabinet with a Kydex Thermoplastic or multi-spec covered door with a locking latch. Door will be hinged across the bottom.

The lower section of the right front ALS cabinet shall have interior and exterior access and shall contain two (2) adjustable shelves. The #8 exterior access door shall be the same height as the lower cabinet area. The double interior access doors shall be aluminum framed 3/8" Lexan with latch. The interior walls of this area to be lined with flooring material and the floor of this section shall incorporate an angled stainless steel threshold designed to facilitate removal of equipment from the floor of the cabinet without catching on the lower frame edge.

Y____ N____

SQUAD BENCH "A" BAR

There shall be a heavy duty 1-1/4 inch diameter Anti-Microbial stainless steel "A" style Grab Bar/Arm Rest mounted at the head of the squad bench. This bar shall have the capacity to be pivoted or removed to allow for placing a long board patient on the squad bench. Mounted integral to the 'A' bar shall be a 5 quart sharps and 8 quart waste container.

Y____ N____

GLOVE BUTLER

There shall be (4) Glove Butler II glove boxes installed above the side module entrance door with drop down door and (2) locking latches. Door to be Kydex Thermoplastic or multi-spec and bottom hinged to tip out for restocking. Access holes to be cut in door for glove removal.

Y____ N____

ATTENDANT SEAT

The patient compartment's rear facing seat shall be a high-back EVS vacuum formed automotive style captain's chair and upholstered with a color coordinated, heavy grade vinyl. The manufacturers' logo shall be embedded in the back rest of the seat. This seat, positioned at the head of cot shall have 4 inches of travel, be swiveling

and provide easy access to all of the action wall controls and outlets. This seat shall be a combination attendant/child seat with 3 point seat belt, mounted on an EVS188 swiveling base. To ensure proper and safe use of the child seat feature, the swivel base must lock in forward facing or rearward facing positions only. Seat shall be ASH in color.

Y____ N____

INTERIOR COLORS

LOWER BAND SURFACE

The patient compartment interior surfaces will be spray painted with a "Multi-Spec" base-coat/clear coat system anywhere a "Wilsonart" type laminated surface is normally installed. This includes interior wall panels, ALS cabinet, left stack, lower left cabinet and #1 and #6 exterior compartment surfaces. The manufacturer must use the same metal prep and finish processes as used on the exterior of the module to finish the interior surfaces to the following finish: Misty Grey #6028

Y____ N____

UPPER BAND VINYL

The module interior upper band cabinets and cushions shall be covered a color coordinated (Stratford Smoke SF-74) vinyl upholstery. The upper band cushions shall be stitched in the corners only. The vinyl shall be an automotive vinyl over fire retardant foam. The cushions shall be backed with 10mm PVC board. Plywood or other porous materials shall not be acceptable for cushion backs.

Y____ N____

LOWER BAND VINYL

The lower band cushions and backrests shall be thermal vacuum formed automotive vinyl over fire retardant foam. The cushions shall be backed with 10mm PVC board. Plywood or other porous materials shall not be acceptable for cushion backs. Cushions shall be attached with automotive grade Dual Lock hook and loop to make them removable for cleaning. These cushions shall be ASH in color and locations include squad bench seats and back rest, CPR seat and backrest, and hip cushions.

Y____ N____

CABINET ACRYLIC GLASS

The interior cabinets shall have 3/16 clear Acrylic sliding doors. All hinged doors shall be 3/8 Lexan scratch resistant.

Y____ N____

REFRIGERATOR *Option E*

The manufacturer shall supply and install an Engel Model #MD14F, 12V portable refrigerator/freezer with 9' DC cord. Dimensions shall not exceed: 17-1/2" L x 11-1/4" W x 15-9/16" H

Y____ N____

SQUAD BENCH & LOWER LEFT BRUSHED STAINLESS KICKPANELS

There shall be a stainless steel kick panel on the face of the streetside lower left wall and curbside squad bench. The kick panel shall be approximately 4 inches high and shall run the full length of the squad bench and lower left wall.

Y____ N____

ELECTRICAL GENERAL WIRING

All added body and chassis electrical equipment shall be served by circuits separate and distinct from the chassis circuits. Wire harnesses will be built in accordance with IPC-WHMA-610E guidelines or better and will

be compliant with NFPA 1917 Chapter 7 specifications. All vehicle 12VDC wiring shall be copper crosslink polyethylene GXL wiring and sized to carry 125% of the rated device load, rated to 272 degrees Fahrenheit, and conform to all SAE J1128 requirements. All splices will be soldered and covered with adhesive lined heat shrinkable tubing for a watertight seal. The wiring shall be color coded, circuit numbered, and function imprinted for identification every 6 inches and correspondence with the vehicle schematics. The harnesses shall include factory installed plugs/receptacles for standard fixture installation and for common add on type devices for easy disassembly and replacement.

The emergency lighting harness and associated cables shall be a part of the standard wiring harness, shall have the component plugs factory installed and shall not be add-on cables. The wiring shall terminate at all standard required lighting locations. Termination points that will provide a power source for fixtures that are exposed to the elements shall include weather proof connectors.

All heavy power distribution cables shall conform to SAE J1127 and will be enclosed in braided nylon loom. These cables shall be routed separate of the main wiring harness, secured independently on the interior of the module with insulated metal cable clamps. The battery cables which will be run underbody shall be secured to the frame with cable straps and shall run unbroken from the battery location to the main power distribution.

The manufacturer shall provide coil cord cables to enable electrical devices to be installed on the side and rear entry doors. The coil cords will be secured at both ends (on the door and at the adjacent wall) with strain reliefs designed to provide an effective, stable mounting point to prevent chafing and to promote the long term reliability of the function it supports.

Y____ N____

WIRING CRITERIA

All wiring devices, switches, outlets, etc. except circuit breakers, shall be rated to carry 125% of the maximum ampere load for which the circuit is protected. A minimum 6 inch service loop of wire shall be provided at all electrical devices (lighting, 110VAC, switch panels, etc.). There shall be sufficient length for two terminal changes on components in the power distribution area. Any circuits protected below 6 amps shall use an ATC type fuse and holder. Any circuits requiring wiring larger than 10 gauge shall include crimped and soldered copper lugs.

All vehicle electrical wiring originating at any of the system operating components shall include circuit protection to sense a short and shut down the affected circuit. All circuits shall be independently wired with grounds returned to a ground buss terminal or stud. All major power distribution components shall be located in a front bulkhead cabinet or the dead space on the bulkhead side of the #1 compartment.
Any circuits requiring wiring larger than 10 gauge shall include crimped and soldered copper lugs. There shall be a minimum of (1) spare switch at the front switch panel with corresponding output located in the power distribution center. The spare output shall be designed to allow the customer to make switch controlled additions to the standard system.

The vehicle shall be equipped with magnetic proximity switches on each entry and compartment door. The switches shall be wired to activate the individual compartment lighting associated with the individual compartment switch and the door open warning light mounted in the driver's control console.

Y____ N____

SUNSPOT EMS
MEDICAL RESCUE BID SPECIFICATIONS

DOCUMENTATION
Two complete sets of detailed wiring schematics (As Built) shall be provided for ease in trouble shooting. In addition, a detailed wire harness list shall be provided showing circuit numbers and functions. When optional electrical devices or systems are ordered, additional corresponding schematics shall accompany those options.

Located in the owner's manual shall be a package of relevant electrical power distribution drawings. The drawings shall be inserted in a protective holder that shall include all of the "As Built" drawings that correspond to the specific vehicle being supplied. Generic, standard or manually modified drawings shall not be acceptable.

The manufacturer shall provide an amp load test certification. The documentation shall provide the end user with the vehicles operating load requirements and the units remaining reserve capacity.

Y____ N____

HARNESS QUICK DISCONNECT
All wiring harnesses shall be connected to the power distribution utilizing insulated type harness plugs. These plugs shall have positive locking features and will be weather resistant. Access for disconnecting the harnesses from the cab to the module shall be provided and will be readily accessible.

Y____ N____

ROUTING ACCESS
All cabinets at ceiling level shall be equipped with a removable back panel for access to the wiring harness. The backs shall be securely attached and will be designed to facilitate access and to support noise reduction.

Module wiring harnesses shall be routed below the roof radius extrusion and will be secured to the wall tubes. Cabinet backs and cushions to be removable for easy access to the harnesses.

Y____ N____

COMMUNICATION
The vehicle shall be equipped with two RG58AU low loss cables installed from the two-way radio cabinet to the ceiling of the module. Accessible be removing an interior light in the patient compartment ceiling. The interior light shall include an etched plastic label identifying the plate as the antenna access point. The cables shall route from the module roof to the lower section of the left stack/radio cabinet and be of sufficient length to allow routing to the cab console as an alternate radio installation location.

The vehicle shall be equipped with a wire routing path enabling the County radio installer to route radio cables from the radio cabinet to the chassis cab area or from the rear action area wall to the cab area. The routing path shall allow routing of radio cables with end connectors up to 2" x 3" without having to disconnect the cable/radio connector from the radio cable.

The vehicle shall be equipped with #8 gauge Red power and Black ground wiring will be labeled appropriately for future installation by a radio technician. The Black ground wire to be connected to a main ground point, the Red power wire to be left unconnected near a direct to battery connection point inside the power distribution cabinet. Both wires are to route to the lower section of the Left Stack/Radio Cabinet and be of sufficient length to allow routing to the Cab Console as an alternate radio installation location. Wires are to be labeled at both ends.

Y____ N____

CLOCKS *Option I*
Included with this vehicle above rear module doors, shall be an Intellitec Digital Emergency Time Manager: Part Number 00-00775-000. The time manager provides four primary functions: Time of day in hours and minutes, sweep second hand, elapsed time in hours and minutes, and four timer buttons that can be used to set the alarm timer from 1 to 90 minutes.

Y____ N____

ELECTRICAL 12 VOLT DC
A 20 amp 12VDC circuit shall be furnished to 2 locations for charging all portable battery powered devices, i.e. suction units, hand lights, portable radios, etc. This circuit shall prevent discharge of chassis batteries by only permitting the charging of portable devices when the vehicle is either running or the optional battery conditioner is connected to shore power. Circuit breaker protection shall be provided and shall have a minimum 20 amp capacity; an additional tagged, identified lead shall be furnished in both the cab and module for connection of additional (future) portable equipment that requires recharging.

Y____ N____

VOLTMETER
A voltmeter shall installed and be a digital display meter accurate to + or - 2%. The display must indicate the stabilized voltage of the chassis and module batteries.

Y____ N____

ALARM, LOW VOLTAGE WITH BUZZER AND INDICATOR
The electrical system shall be monitored by the system that provides an audible and visual warning ,in cab console in case of the low voltage to persons in the ambulance of an impending electrical system failure caused by the excessive discharge of the batteries. The charge status of the battery shall be determined by direct measurement of the battery voltage. The alarm shall sound if the system voltage at the battery drops below 11.8V for 12V nominal systems for more than 120 seconds.

Y____ N____

AMMETER
An ammeter shall be installed and be a digital display meter accurate to + or - 2%. The display shall indicate the current flow of the vehicles 12 volt system. Additionally it shall come equipped with an electronic Hall Effect sensor mounted so that the amp load on the vehicle 12 volt system can be accurately measured at the ammeter located in the driver's control console.

Y____ N____

MODULE AND ACCESSORY DISSCONNECT
The battery system shall utilize the OEM ignition switch to disconnect module power and ignition loads. The batteries shall be connected in parallel and wired directly to the OEM starter. There will be no inline splices for miscellaneous equipment, shunts or alternative electrical devices.

The electrical system shall include an ignition switch controlled battery system providing power directly to the power distribution center. The power distribution, harness distribution and all related components shall be located in a dedicated bulkhead cabinet.

There shall be a 5 minute delay prior to the batteries being disconnected from the module. The ignition switch, when shut off, will activate a timer that will leave the batteries on for five minutes so that the module dome lights can be left on for unloading or vehicle restocking.

Y____ N____

SUNSPOT EMS
MEDICAL RESCUE BID SPECIFICATIONS

BATTERY SYSTEM
The two OEM batteries under the hood shall be the batteries supplied by the OEM chassis manufacturer. One additional battery shall be supplied by the manufacturer and located in the exterior compartment located below the right front ALS cabinet. This system shall provide both consistency in charging and ease of maintenance and replacement. In order to prevent premature failure due to excessive cycling during the manufacturing process, these batteries shall be installed at the end of the manufacturing process when the unit is ready for delivery.

Y____ N____

BATTERY STORAGE
The vehicle batteries shall be stored with two (2) OEM batteries located under the hood and one (1) additional battery shall be stored in the curbside lower drawer style compartment. The battery shall be mounted on a sealed slide out tray. The drawer slides shall be rated at 250 pounds and shall include locking levers to secure the tray in the closed position. This compartment shall be vented to the underside of the module and the slide out tray shall be a fully welded aluminum pan with black rubber matting on tray bottom.

Y____ N____

BATTERY GROUND
There shall be a total of two additional braided grounding straps besides the OEM provided chassis ground and the 3/0 battery cabling. The straps shall be braided copper with zinc coating rated at 250 amps each. There shall be two straps from the module to the chassis frame. At the frame attachment all paint must be removed and the strap attached with grade five bolts.

Y____ N____

BATTERY CHARGER - PREWIRE
There shall be 110VAC wiring originating from the shore power junction box routed to the battery charger prewire area in the left stack/radio compartment. The vehicle shall be prewired for an on board battery charger installation. 12 gauge 12VDC power and ground wires shall originate in the power distribution center shall be routed to the lower left stack/radio cabinet for final connection.

Y____ N____

POWER OUTLETS - 12V
The patient compartment shall include two power point style 12VDC power outlets as standard. One (1) outlet shall be mounted on the action wall and one (1) outlet shall be mounted above the top shelf in the lower section of the right front stack ALS cabinet. Outlets on this circuit shall be wired "On with Ignition" and protected by a medical isolator.

Y____ N____

PORT 5 VOLT DC POWER USB STYLE
The Drivers compartment shall be furnished with a 5 volt DC, 2.1 ampere capacity, separately protected circuit, with a Dual USB outlet. It shall be located in the center console to the passenger side.

Y____ N____

DRIVER'S SWITCH PANEL / RADIO CONSOLE
There shall be an aluminum fabricated, vinyl covered console that is attached to the cab interior engine cover for two-way radios. This console shall provide sufficient space for the drivers control panel, electronic siren, and (3) two-way radio heads. The console shall be installed in such a manner that it can be quickly removed providing adequate space to remove the engine cover.

The front console shall include LED flashing warning indicators on front switch panel. The panel shall include door open warning lights designed to warn the driver of open access doors (red flashing) or open exterior compartment doors (amber flashing). "DO NOT MOVE APPARATUS" verbiage shall be present at this location in compliance with NFPA 1917 Section 7.21.1. A seat belt warning system for all seated positions in the patient compartment, and must indicate if an occupant is not belted or restrained. It must be heard and seen by the driver of the apparatus, and seen by the occupants in the patient compartment. NFPA 1917 Section 6.21.10 requires an audio/visual warning system. An additional "slave panel" shall be added to the Attendant Control Panel.

The front panel shall include red, amber and green patient status signal lights that shall be switched on/off from the rear control panel. The patient status warning system shall include an audible alarm located below the front control panel and connected to a momentary switch located at the rear control panel to signal the driver of a change in the patient status.

All switches shall be Carling style rocker switches of the same design as the attendant's control panel. The driver's control panel includes red/amber/green patient status lights along with an audible alarm to alert the driver as to any changes in the status of the patient. The driver's control panel meters and switch legends shall have electro luminescent backlighting. The switch function legends shall be screen printed from the back for durability shall be white on black to prevent bleed out and flush mounted in panel surface.

The standard front switch panel shall include, at a minimum, one spare switch and a standard switching configuration as follows:

Top Row
5. Module Master - 'On/Off'
6. Master Emergency - 'On/Off
7. Flasher Pri / Sec - 'On/Off/On'
8. Light Bar Pri / Sec - 'On/Off/On'
9. Blank
10. Blank
11. Blank
12. Blank
13. Siren / Horn - 'On/On'

Bottom Row
14. Dome Lights - Three-way 'On/Off' with rear control panel
15. Left Scene - 'On/Off'
16. Rear Load - 'On/Off'
17. Right Scene - 'On/Off'
18. Blank
19. Blank
20. *Tire Chain system – 'On/Off'
21. Spare - 'On/Off'
22. Back-up Alarm (Momentary)

Y____ N____

ATTENDANT CONTROL PANEL
All switches are same design as the Driver's control panel. Attendant's control panel includes red/amber/green patient status switches to actuate patient status indicators in driver's control panel and momentary switch to actuate audible alarm in driver's control panel. See below for all standard switch positions.

Control panel meters and switch legends have electroluminescent backlighting. The switch function legend is screen printed from the back for durability, white on black to prevent bleed out and flush mounted in panel surface.

The standard rear switch panel shall include, at a minimum, three spare switches along with standard switching functions as follows:

23. Dome Lights - Three-way 'On/Off' with driver's control panel.
24. Cot Lights - 'Hi-Off-Lo'
25. Bench Lights - 'Hi-Off-Lo'
26. Oxygen Compartment Light 'On/Off'
27. Electric O2 'On/Off'
28. Suction 'On/Off'
29. Blank
30. Silent Signal (Green) 'On/Off'
31. Silent Signal (Amber) 'On/Off'
32. Silent Signal (Red) 'On/Off'
33. Signal Buzzer 'Momentary On'
34. Blank
35. Exhaust Fan 'On/Off'
36. Inverter 'On/Off'

Y____ N____

POWER DISTRIBUTION
The electrical systems shall utilize proven printed circuit board technology. A crucial requirement for repair and troubleshooting of the vehicle electrical system is the ability to modify or replace an individual circuit without affecting the rest of the vehicle system. Replacement of the entire electrical system for the repair of a single circuit or component is considered unreasonable. Therefore, the manufacturer shall supply an electrical system designed so that each circuit is isolated to a single circuit board. Electrical systems that have more than one circuit per board will not be acceptable.

The power distribution components and all integrated PC boards shall be located in an upper, center bulkhead cabinet. The cabinet shall be fitted with dual, aluminum access doors hinged along the outside edges of each door with a 2" round stainless steel pull ring slam latch located along the upper, inboard corner of the curbside door.

The vehicle shall come equipped with (1) spare tapping point. The tapping point shall be switch controlled from the front control panel and will provide the customer with a 12VDC power point for future application.

The power distribution system shall incorporate 12 standard individual printed circuit boards that will distribute power through non-cycling, automatic resetting circuit breakers and 30/40 amp silver contact SPDT relays. PC boards are to be manufactured to a minimum thickness of .060 inches and printed with a minimum of 5 ounce copper. Each of the PC boards shall have built in reverse polarity and spike protection, for ease of maintenance, the circuit breaker and relay shall be easily removable from the PC board. Each PC board shall incorporate independent, self-diagnostic indicators for power in and load switching.

Module wiring harnesses shall be routed below the roof radius extrusion and will be secured to the wall tubes. Cabinet backs and cushions to be removable for easy access to the harnesses.

Y____ N____

EMERGENCY SYSTEMS

WARNING AUDIBLE - SIREN, SPEAKERS, AIR HORNS

The vehicle shall come equipped with a Federal Signal Model E-Q2B 'Self-Diagnostic' remote siren. The siren shall be wired to come 'On' with the ignition switch and will include: 200-watt siren system features "Q" wail, yelp, air horn, PA, radio rebroadcast, and "Q" Brake and "Self-Diagnostics". Digital Signal Processor (DSP) technology creates the familiar "Q" sound 122 decibels at 10 feet, low current draw, and only 30 amps continuous Noise canceling microphone included

It shall also provide a hands free feature that allows switching siren modes and turning siren off from the horn ring.

There shall be (2) Federal siren speakers mounted in the front bumper with flat "F" Screen chrome covers.

The vehicle shall be equipped with a Whelen 'Howler' low frequency siren speaker system installed. A momentary 'Aux Siren' switch and a 'Siren Brake' switch shall be installed.

Y____ N____

BACKUP ALARM

The vehicle shall be equipped with an electric back-up alarm that will produce a minimum of 97 decibels. A momentary cut-off switch with automatic reset feature will be provided.

Y____ N____

EMERGENCY SEQUENCER / LOAD MANAGER

The emergency light switching system shall incorporate a built in sequencer that turns on and off the emergency loads at one/half second intervals. A built in electrical load manager will be preprogrammed to shut down pre-selected and/or non-essential loads in priority order as needed to maintain sufficient charge in the 12VDC system.

Y____ N____

WARNING VISUAL - FRONT UPPER (ZONE A)

The vehicle shall be equipped with a Whelen 45FL LED light bar shall be installed flush on the front of the module and configured as follows:

- LED Flashers - (7) Total
- (4) Red 700 Series Super LED
- (3) White 700 Series Super LED

- The lens colors from left to right will be
- Red/Clear/Red/Clear/Red/Clear
- The lightbar shall have (5) LED ICC marker / clearance lights mounted on the top.

The center clear and outboard red flashers will be a part of the standard NFPA lighting package with the center clear "on" in the primary mode only and the outboard reds functioning in both the primary and secondary mode.

Y____ N____

EMERGENCY WARNING LIGHTS
All emergency vehicle lighting shall be LED and comply with the requirements of NFPA 1917. NO EXCEPTIONS

Y____ N____

WARNING VISUAL - FLASHER
The vehicle shall be equipped with a Whelen model AFM1660 Halogen/LED and LED only flashers with Scan-Lock™ flash pattern control, and illuminated status indicator light. Two wire design 16 outlet halogen, LED or Super-LED® ambulance flasher. Each outlet will operate up to a 65 watt lamp (5 amps), short circuit and thermal protected. AMP Mate-N-Lok® connectors shall be used.

Y____ N____

WARNING VISUAL - FLASH PATTERN
The vehicles emergency flashers shall flash in an "X" flash pattern.

- Flash pattern as follows:
- Streetside front corner - A
- Curbside rear corner - A
- Streetside rear corner -B
- Curbside front corner - B
- Grill lights, Intersection lights and lights showing through rear door windows to be in an 'X' pattern with upper module lights.

All upper side warning lights shall be a Whelen M9 Series with red/white split super-LED with chrome flange and internal flasher. The lens color shall be clear. (4 total)

Rear center upper warning light shall be a Whelen M7 series Super LED light with an internal flasher. The LED color shall be amber and the lens shall be clear. (1 total)

All rear upper facing warning lights shall be Whelen M9 Series with red super-LED, chrome flange and internal flasher. Lens color shall be clear. (2 total)

All grill and fender warning lights shall be Whelen M4 series with red/white split super-LED with chrome flange and internal flasher. The lens color shall be clear. (4 total)

All midship and lower side warning lights shall be a Whelen M7 series with red/white split super-LED with chrome flange and internal flasher. The lens color shall be clear (4 total)

Y____ N____

LIGHTING - SCENE
There shall be a total of four Whelen M9 Linear Super LED scene lights with chrome trim ring mounted two streetside and two curbside. The light housing shall be flush mounted and incorporate an optic lens that redirects the light at the specified angles. Scene lights shall illuminate with the opening of any door on that side of vehicle

Y____ N____

LIGHTING - REAR LOADING
There shall be a total of two (2) Whelen M7 LED load lights with chrome trim rings mounted on the rear of the module over the entry doors. The light housing shall be flush mounted and incorporate an optic lens that redirects the light at the specified angles.

The electrical system shall be wired so that the rear module load lights and the lower back-up lights will operate when the rear doors are open, the switch on the front panel is activated, or when the vehicle is placed in reverse. With the module power switch "off", both the lower back-up lights and the upper load lights will operate when the vehicle is placed in reverse. The curbside scene lights will operate when the curbside door is opened.

Y____ N____

LIGHTING - INTERIOR DOME
The interior lighting system shall consist of (11) Kinequip 8" Round LED Dome Lights fixtures as follows:
- (3) Cot lights In the medical device rail over the primary cot
- (2) Bench lights over the squad bench
- (3) Dome lights Streetside
- (1) Dome light Curbside over head of squad bench
- (1) Dome light Curbside rear
- (1) Dome Light over the walkway

The four outside corner lights and the (1) light over the CPR seat area and the (1) over the walkway shall be designated module dome lights and be activated when the side or rear module entrance doors are opened or by a three-way circuit allowing these lights to be turned on and off from cab or module. The lights over the primary cot and squad bench shall have switches in the module that will allow independent high/low/off control. The lights shall produce at least 35 foot candles of light over ninety percent of the cot surface area in the high setting.

Y____ N____

INTERIOR MODULE LIGHTING TIMER
The vehicle shall be equipped with a momentary switch that will activate a fifteen minute timer, wired direct to battery, to allow operation of the module dome lights while the vehicle is off. This feature will enable personnel to clean and restock the vehicle, but eliminates the risk of leaving the lights on and draining the batteries. The momentary switch shall be located on the curbside wall near the side entrance door.

Y____ N____

SPOTLIGHT, HANDHELD
The cab shall be equipped with a spotlight with a coiled cord that is hardwired "On" with Ignition. The handle shall include a momentary switch. The bulb shall be a 12V - 200,000 candle power sealed beam non-glare bulb.

Y____ N____

LIGHTING - SPOTLIGHT
Two (2) each GoLight 400,000 candlepower spotlights shall be mounted on the cab roof. One spotlight shall be controlled by a hard wired control panel on the front cab console. The second light shall be controlled by a handheld wireless remote control that shall be provided.

Y____ N____

LIGHTING - ATTENDANT
There shall be Kinequip LED strip lighting under the upper left #2 and #2.5 Cabinets. The LED light strip shall be mounted in an anodized aluminum channel on the bottom surface of the cabinets close to the action wall and shall run the full length of the Upper Left #2 and #2.5 cabinets to illuminate the action counter area. This light will be controlled with an On/Off switch on the rear switch panel.

Y____ N____

LIGHTING - EXTERIOR AUTOMOTIVE
The basic exterior vehicle lighting shall include headlights, parking lights, directional signal lights, tail and stop lights, license plate light, back-up lights, hazard warning lights, clearance lights and reflectors, as required by F.M.V.S.S. 571.108.

Y____ N____

REAR BRAKE, TAIL, TURN LIGHTS
The rear lights shall be Whelen M6 Series LED brake/tail and amber turn signals with arrow. These lights shall have chrome trim rings and be mounted vertically above the rear diamond plate area. The rear of the module shall be equipped with Whelen M6BUW LED back-up lights. The rear M6 series brake/tail, turn, and back-up lights shall be mounted in vertical three lamp cast aluminum housings.

Y____ N____

MARKER/CLEARANCE LIGHTS, SIDE AND REAR
The side body marker lights and rear clearance lights shall be Whelen OS Mini LED type. There shall be (2) Amber mounted at the forward end of each side module roof extrusion, (2) Red mounted at the rearward end of each side module roof extrusion and (5) Red mounted in the rear module roof extrusion. In addition there shall be (2) Red marker lights on each side in the midline of the body at the rear. (1) On each side shall function as a marker light and (1) will function as a turn signal.

The outboard rear emergency flashers shall be wired to the OEM brake lights. These lights shall NOT function as brake lights when Emergency Flashers are on.

Y____ N____

110 VOLT AC SHORELINE INLET
This vehicle shall be equipped with a White in color 20 AMP/120 VAC Kussmaul Super Auto-Eject shoreline inlet with a matching female connector. It shall include a 20 amp GFI circuit breaker.

Y____ N____

INTERIOR 110VAC - RECEPTACLES
There shall be two 110VAC 2-wire plus ground illuminated 15 amp duplex outlets, one located on the action area wall, and one in the right front stack ALS cabinet. The outlet in the ALS cabinet shall be located on the inboard wall of the lower section, above the top shelf. All 110VAC outlets shall be hospital grade. Wiring shall be Type SO rubber cord with spit loom cover and all connections shall be made in UL approved junction boxes.

Y____ N____

INVERTER CHARGER
The vehicle shall be equipped with a Vanner 'UL' listed 1050 watt inverter/55 amp battery charger #20-1050CUL with internal transfer relay. This system includes a battery charger indicator mounted on driver side of the radio console.

Y____ N____

ENVIRONMENTAL SYSTEMS
The design of the Heat/AC environmental system is to provide optimal air flow and distribution of conditioned air evenly to all areas of the module interior. Conditioned air shall not be discharged from one vent area but shall be distributed through multiple vents evenly spaced in a line down the length of the module ceiling. The plenum that supplies the vents shall be built into the module roof structure and shall not be visible. In order to support the efficient and effective performance of the system and to prevent the build-up of condensation inside, the interior of the plenum will be completely insulated with a reflective barrier insulation material.

Y____ N____

ENVIROMENTAL CLIMATE CONTROL SYSTEM
An OEM air conditioning and high output heater shall be provided in the cab. The module system shall incorporate a combination heating and air conditioning unit. The chassis and module heating and A/C system controls shall function independently of each other.

The module heater A/C shall be a combination unit capable of 43,600 BTU heat, and 32,000 BTU cool, with a 580 CFM blower. The unit shall have an integral molded drain tray with a drain hose and built in anti-splash shields. Design of tray shall insure that all moisture is drained out of the interior of the cabinet. All heater hoses shall be 5/8 inch QVM approved Nomex. Hot water flow shall be controlled by two (2) vacuum actuated inline water valves. All A/C fittings shall be ferruled, banded, or snap ring type. Clamps will not be acceptable. NO EXCEPTION.

The warranty for this unit shall be 3 year parts and labor.

The thermostat and Heat/AC controls in the patient compartment shall be incorporated into a single control panel located within easy reach of the main attendant seat. This control panel shall provide separate switches for:

- (1) Heat/AC mode selection
- (2) Target temperature selection
- (3) Fan speed

Temperatures shall be displayed by a digital LED readout incorporated into the sealed face of the control panel. The switches shall be fully sealed membrane switches. Once the temperature control and heat/cool switch is set, the system shall automatically maintain the set module temperature every time the vehicle is operated.

The design of the Heat/AC environmental system is to provide optimal air flow and distribution of conditioned air evenly to all areas of the module interior. Conditioned air shall not be discharged from one vent area but shall be distributed through multiple vents evenly spaced in a line down the length of the module ceiling. The plenum that supplies the vents shall be built into the module roof structure and shall not be visible. In order to support the efficient and effective performance of the system and to prevent the build-up of condensation inside, the interior of the plenum will be completely insulated with a reflective barrier insulation material.

The patient compartment shall include a 100CFM, high output (2) speed exhaust fan and exhaust cowl vent installed on the rear of the module on the streetside rear panel.

The ambulance shall include a Hoseline 12VDC combination A/C-heater system mounted above the right front cabinet. The air flow from the system will be discharged through a plenum located in the center of the patient compartment ceiling. The return air will be circulated back through a louvered grille located at the lower front of the right front cabinet and a sealed air duct into the A/C-heater system. The system will include a 12VDC inline water pump to provide adequate hot water flow to the rear heater unit and two (2) vacuum actuated water valves to be mounted in the cabinet with the A/C-heater system to facilitate service.

.Y____ N____

RETURN AIR SYSTEM

The air return intake shall not be less than 50 square inches. This return system shall allow the existing air in the module to be recirculated back through the heat A/C unit, thus allowing faster cooling or heating of the module environment.

To achieve true air recirculation in the module, return air to the system shall be supplied through a return air duct built into the inboard wall of the right front ALS cabinet and will include a hidden opening at the bottom. The air intake to be elevated from the floor to allow for cove molding and roll up flooring.

The heater-A/C evaporator unit shall be stored in a self contained cabinet at the top of the bulkhead. It shall be sealed so the intake can only draw from the return air duct.

Y____ N____

COT MOUNTING HARDWARE

The manufacturer shall install a cot mounting system that incorporates cast housings mounted below the floor level to prevent fluid contamination and to prevent exhaust fumes from entering the module through the floor.

The manufacturer shall install 1/4 inch plates below the floor to accept the mounting of the cot plates. Cot plates will be mounted with the cot manufacturer's approved bolts and torque settings.

The manufacturer shall provide cushions on the squad bench that are full width and length of the squad bench lids. There will be no cut-outs for post and wheel cups.

The patient compartment shall be equipped with a Stryker #6370 single center position cot fastener installed for a Stryker Power-PRO XT cot. A cot safety hook with appropriate fasteners shall be shipped loose with the vehicle.

Y____ N____

OXYGEN AND AIR SYSTEM

The entire oxygen system shall be assembled with certified O2 hose (250 PSI burst strength), stainless steel tees and stainless steel permanent crimps, that are accessible throughout the module. All O2 hose running throughout the module shall also be encased in a flexible plastic loom for additional protection from chafing. To provide strain relief and protect low pressure O2 line from damage during bottle changes, the line shall be mounted securely to the wall above the O2 bottle. The system shall be pressure tested in accordance with AMD standard 015, and a signed inspection sticker shall be in plain view of the attendant.

The oxygen supply system shall be installed in the patient compartment in compliance with NFPA 1917 Section 6.28. Unless otherwise specified, the system shall consist of three Ohio style oxygen outlets. Two outlets shall be located on the action wall and one outlet shall be located on the forward end of the curb side wall above the squad bench. This system shall be set up so a change in outlet style is readily made by just removing the front plate, thereby not compromising integrity of the system with field changes.

Built into the rear switch panel shall be a high pressure oxygen monitoring system. The rear panel shall display tank pressure in PSI. When the front switch panel includes an LCD/VGA screen, the screen shall also display tank pressure in PSI and give a visual and audible warning when tank pressure drops below 500 PSI. Included with the system shall be a 50 PSI regulator. To provide strain relief and protect low pressure O2 line from damage during bottle changes, the regulator shall be mounted to a fixed aluminum diamond plate panel above the O2 bottle. A high pressure braided stainless steel hose shall connect the wall mounted regulator to the O2 bottle.

The O2 compartment shall be equipped with a large cylinder changing wrench #5082 secured to the wall with a cable in a location convenient to the oxygen cylinder.

The oxygen bottle bracket shall be a Zico model #QR-MV universal oxygen cylinder holder. The bracket components shall be adjustable to fit 6 inch to 9 inch diameter bottles. The bracket and mounting method shall meet NFPA 1917 Section 6.28.11.

The vehicle shall be equipped with an electric O2 solenoid valve to turn the 50 P.S.I. supply to the oxygen outlets on and off. The valve shall be controlled by an "On/Off" switch located on the rear switch panel. The valve shall also provide a manual by-pass feature for emergency use in the event that power to the solenoid is interrupted.

The oxygen supply system shall be installed in the patient compartment in compliance with NFPA 1917 6.28.3 through 6.28.7. Unless otherwise specified, the system shall provide three Ohio style oxygen outlets. Two outlets shall be located on the action wall and one outlet shall be located on the forward end of the curb side wall above the squad bench. This system shall be set up so a change in outlet style is readily made by just removing the front plate, thereby not compromising integrity of the system with field changes.

There shall be one (1) Ohmeda/Ohio style O2 outlet located in the ceiling above the primary cot location

Included with the vehicle shall be (13) Western Quick-Click CFM15 flowmeters adapted for use with Ohmeda (Ohio) oxygen outlets.

Y____ N____

SUNSPOT EMS
MEDICAL RESCUE BID SPECIFICATIONS

SUCTION SYSTEM
A Lexan mounting bracket for a 1200 CC disposable suction canister shall be mounted on the action area wall. The suction pump shall be piped to an SSCOR regulator that is mounted on the action wall near the suction canister. The regulator shall be complete with indicator gauge shall be plumbed directly to the suction canister. A suction canister and a 72 inch patient suction tube with a plastic suction tip shall also be supplied with the system.

The control switch for this system will be mounted in the action area switch panel. The system shall include a suction pump mounted in the dead space of exterior compartment #1.

Y____ N____

FIRE EXTINGUISHER
The manufacturer shall supply one (1) 5# (ABC) Fire extinguisher with mounting bracket. The fire extinguisher shall be shipped loose with the vehicle.

Y____ N____

IV WARMER
There shall be a Minco 110VAC heat pad/IV warmer with pad cover for interior cabinet. Includes 12V On/Off switch at action wall and thermostat preset to maintain 100 degrees F. Wired direct to batteries.

Y____ N____

SWIVEL TRAY *Option F*
The ambulance shall be equipped with a swivel tray mount for a defib/monitor in the prescribed countertop location. The swivel tray mount shall be NCE Model H7000 which is designed for LifePak 12 and LifePak 15 defibrillator/monitors.

Y____ N____

LIFEPAK 15 DEFIBRILATOR / MONITOR *Option G*
A Lifepak 15 V4 with CO2 and 4/12 lead ECG capability, one (1) Station Battery Charger, four (4) LP 15 Lithium-ion Battery 5.7 amp hrs, one(1) CHILD NIBP CUFF BAYONET REUSEABLE, one (1) LARGE ADULT NIBP CUFF BAYONET-REUSEABLE, one (1) NIBP HOSE BAYONET LP15, 9FT, one(1) M-LNCS DCI, Adult Reusable Sensor 1/box, one (1) LIFEPAK 15 Basic carry case with right & left pouches, one (1) Carry case top pouch for use with LIFEPAK 15, one (1) LIFEPAK 15 Carry case back pouch, one (1) FilterLine Set Adult/Pediatric (box of 25), one (1) Smart Capno Line Plus with O2 delivery – Adult / Intermediate Patients.

Y____ N____

PAINT AND FINISH
The primer, paint and paint finishing materials utilized by the manufacturer shall be components of the Akzo Nobel "Sikkens" Paint System. In order to ensure system process integrity and full warranty coverage, the entire body process from body preparation to final sand, buff and glaze shall be a process that is designed and approved by Akzo Nobel for the manufacturer.

As a standard part of the manufacturer's paint system process the following process shall be adhered to:

Y____ N____

BODY PREP

All surface body welds and imperfections shall be ground flush and body filled as needed to provide a smooth even surface that facilitates a flat smooth paint finish.

The entire exterior surface of the module shall be sanded with a minimum 180 grit sand paper and then washed to provide a clean, unblemished surface prior to the chemical wash process.

The entire exterior surface of the module shall be washed with M-600 cleaner/degreaser to remove any metal, oil or contaminant residue prior to the application of the seam seal process.

All seams shall be caulked with a high quality seam sealer and then allowed to cure for 24 hours to provide a stable application environment for the primer and final paint processes.

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

Y____ N____

PRIMER

The entire exterior surface of the module shall be coated with a primary application of Akzo Nobel "Sikkens" High Build Urethane Primer surface, the module will then be baked dry at 140 degrees Fahrenheit substrate temperature for 45 minutes to one hour. The High Builder Urethane primer surface shall be sanded to a flat smooth finish to eliminate all nibs and imperfections in the substrate using a minimum of 320 grit sandpaper. The module will then be inspected and imperfection that are found the proper corrective action will be taken.

The entire module will then be thoroughly blown and wiped to remove all dust particles left over from the sanding process. The module will then be cleaned and degreased again using the M-600 surface cleaner to ensure a clean surface before applying the final sealer, Color, and Clearcoat. The entire area to be coated with the Urethane Sealer will be thoroughly tacked using a Tack Rag to remove any particulates before the coating process begins.

The entire surface of the module shall be coated with the application of Akzo Nobel's "Sikkens" Urethane Sealer. The sealer application will provide a uniform finish to paint on while also filling any small sand scratches as the result of sanding the Urethane Primer surface. The Sealer will be allowed to flash for 20 minutes at 70 degrees Fahrenheit before applying the basecoat Color.

Y____ N____

BASECOAT

The entire exterior surface of the module shall be coated with an application of Akzo Nobel "Sikkens" Basecoat color until the proper opacity of the color is achieved. The base coat will then allowed to flash for a minimum of 20 minutes at 70 degrees Fahrenheit before applying the Clearcoat.

Y____ N____

CLEARCOAT

The entire exterior surface of the module shall be coated with an application of a Akzo Nobel "Sikkens" High solids Urethane Clearcoat finish that will provide an enhanced gloss, durable finish. The clear coat finish shall be baked dry at 140 degrees Fahrenheit substrate temperature for a minimum time of one hour.

The manufacturer shall monitor the entire application process with mil-thickness measurements at numerous random locations across the body to insure that the total paint thickness including the primer/sealer, base coat and clear coat shall be a minimum of 5 mils dry build, without runs or sags, after the unit has gone through the sand and buff process.

Y____ N____

FINAL SAND AND BUFF

The entire exterior surface of the module shall be sanded with a minimum 1200 to 1500 grit sand paper and then followed by 3000 grit wet sandpaper. The exterior of the module will then be polished using the 3M 3000 buffing system to provide a smooth, high gloss final surface finish. This process shall provide a smooth, high gloss finish that is resistant to scratching and chipping. If proper vehicle care is taken. Then buffed using 3M Perfect-It III buffing compound to provide a clean, high gloss final surface finish. This process shall provide a smooth, high gloss finish that is resistant to scratching and chipping.

All light holes, the license plate bracket hole, gas filler bracket hole, all door window and handle holes and exhaust fan and any other option required mounting holes shall be cut in the module prior to beginning the Akzo Nobel "Sikkens" paint process. Intersection light holes shall be cut in the chassis fenders and cut out must be coated with a corrosion resistant material to comply with requirements to prevent oxidation and rusting of the OEM metal surface.

The entire exterior surface of the module shall be painted to match the customer's specified color requirements. Unless otherwise specified by the customer, the standard application process will insure that the module, module roof and cab are all painted the same color.

Y____ N____

MODULE - PAINT FINISH COLOR

The standard modular ambulance paint finish shall be produced by the application of a certified Akzo Nobel "Sikkens" paint process. The standard process shall produce a white finish to match the standard OEM chassis white. The finished paint process shall provide a single color, solid surface paint application.

Y____ N____

CHASSIS CAB - PAINT FINISH COLOR

Standard OEM White

Y____ N____

REAR CHEVRON

The rear of the vehicle shall be marked with a reflective chevron stripe design. The stripes shall be 6" reflective material in alternating colors. The chevron pattern stripes shall slant downward on both sides of the vehicle at an angle of 45 degrees, pointing in the direction of the bottom rear corners of the tailboard. The pattern shall resemble an inverted V with the point of the V at the top center of the apparatus. The chevron pattern shall cover the entire rear of the vehicle including rear facing corner panels, rear doors, and rear door header.

The chevron stripes shall meet NFPA 1917 Section 6.25.6 through 6.25.9 and be alternating blue and yellow in color.

Y____ N____

SUNSPOT EMS
MEDICAL RESCUE BID SPECIFICATIONS

GRAPHICS AND LETTERING
Custom Graphics shall be installed to match the existing Department Fleet

Y____ N____

ADDITIONAL LABELS
The following labels and placards shall be provided as with this vehicle.
- SHORE INLET 110VAC 60 HZ
- ANTENNA ACESS
- 110VAC OUTLET
- 12VDC OULET
- DIESEL ONLY
- DEF ONLY
- NO SMOKING / OXYGEN EQUIPPED
- FASTEN SEAT BELTS

Y____ N____

OWNERS MANUAL
An Owner's Manual is provided with each vehicle, and consists of the following items:
1. Chassis Warranty Card & Owner's Information
2. Chassis Maintenance and Operating Tips
3. Extra Set of Keys
4. Limited Lifetime Module Warranty- Defined as 25 years
5. 2 Year/30,000 mile Conversion Warranty
6. 7 Year Electrical Warranty
7. Care and Maintenance Instruction
8. Module Remounting Procedure
9. Heater/AC Information & Warranty
10. OEM Chassis Manual
11. Schematics for Standard Systems:
    - Charging System
    - Power Distribution
    - Front Switch Panel
    - Rear Switch Panel
    - Climate Control System
    - OEM Drawings
    - Wire Harness list
    - Circuit Diagrams for all Systems
12. Conversion Component Information
13. Operations Manual
14. Warranty and Parts List - Siren, Light bar, Etc.

Y____ N____