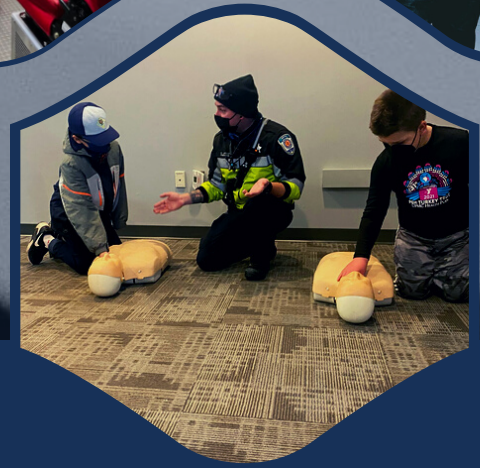




INVITATION FOR BIDS 2023-01: AMBULANCE FLEET REPLACEMENT



SERVING BALDWIN TWP., CASTLE SHANNON, DORMONT, GREEN TREE, MOUNT LEBANON, AND WHITEHALL

INVITATION FOR BIDS FOR NEW AMBULANCE VEHICLE
MEDICAL RESCUE TEAM SOUTH AUTHORITY

The MEDICAL RESCUE TEAM SOUTH AUTHORITY (“MRTSA”) is a nonprofit 501(c)(3) authority which provides emergency medical services to six communities in the South Hills of Pittsburgh: Baldwin Township, Castle Shannon, Dormont, Green Tree, Mt. Lebanon & Whitehall. **MRTSA is seeking sealed Bids from manufacturers for a new ambulance vehicle.**

Bid Packages with detailed bid specifications are available upon request. The benchmark for the initial configuration of this ambulance shall be the current KKK Federal Specification for Ambulances, NFPA 1917 Standard for Automotive Ambulances, or CAAS certification. However, most requirements in this specification exceed the federal specifications because of the specific needs of MRTSA.

All bids must be on a lump sum basis. Copies of the Bid Package, including the desired ambulance specifications, are on file and open to inspection at the office of:

MRTSA
315 Cypress Way
Pittsburgh, PA 15228

Sealed Bids will be received by: Joshua A. Worth Sr.
Chief
MRTSA
315 Cypress Way
Pittsburgh, PA 15228

Sealed Bids will be received until 12:00pm on March 8, 2023 and opened publicly immediately thereafter. Late bids will not be accepted or considered, regardless of reason.

The Bid Document Packages can be ordered by contacting Geraldine Barnett, Office Manager, at 412-343-5111x800 or at gbarnett@mrtsa.com.

Any questions related to the Bid Package must be submitted to Chief Worth in writing on or before 12:00pm on February 27, 2023.

All bidders must execute a non-collusion affidavit.

MEDICAL RESCUE TEAM SOUTH AUTHORITY
INSTRUCTIONS TO BIDDERS

1. All bids shall be submitted in sealed envelopes marked **“RESPONSE TO IFB 2023-01 BID FOR MRTSA AMBULANCE.”**
2. Sealed bids will be received until 12:00pm on March 8, 2023, at the MRTSA office located at 315 Cypress Way, Pittsburgh, PA 15228. All sealed bids must be in the MRTSA office at that time. The sealed bids will be publicly opened at 12:00pm on March 8, 2023, to record vendors submitting bids and for preliminary review. The bids will be tabulated and presented to the MRTSA Board of Directors for consideration and potential action on March 22, 2023 at 7:00pm at the MRTSA office located at 315 Cypress Way, Pittsburgh, PA 15228.
3. Bids must be typewritten or written in ink and must be signed in ink by bidder on the enclosed forms. Unsigned bids will **not** be considered.
4. The Bid Document Packages can be ordered by contacting Geraldine Barnett, Office Manager, at 412-343-5111x800 or at officemanager@mrtsa.com.
5. Any questions related to the Bid Package must be submitted to Mr. Worth in writing on or before 12:00pm on February 27, 2023 via email @ jworth@mrtsa.com.
6. Bids are requested on this inquiry in accordance with brands, specifications, and/or testing as specified and are understood to include “or equal” specifications. Manufacturer Names and Model Numbers, when named, are for the purpose of establishing the standard of quality, design and utility of the specifications desired.
7. If any Bidder wishes to propose substitute equipment, which is believed to be equal to those specified, the Bidder must make a request, in writing, to MRTSA for approval of such substitute equipment, by 12:00pm on February 27, 2023, following the rules stated hereafter.
 - a. Each such request shall include a complete description of the proposed substitute, including all data or information necessary for a complete evaluation and comparison to the specified equipment. The burden of proving the submission is equal, or better, to the specified product is that of the submitter.
 - b. If the proposed substitution is approved, such approval will be set forth in an addendum and provided to all persons or firms that have requested bidding information.
8. MRTSA is a tax exempt, nonprofit 501(c)(3) authority; therefore, the bid price shall be net of any taxes.
9. All orders will be on purchase orders with specific instructions for billing and delivery. The ambulance must be delivered to the MRTSA office on or before **July 1, 2025**

BID FORM

NEW AMBULANCE FOR MEDICAL RESCUE TEAM SOUTH AUTHORITY

TO: MRTSA
315 Cypress Way
Pittsburgh, PA 15228

Attention: Joshua A. Worth Sr.

The undersigned, intending to be legally bound hereby, proposes, and agrees to provide and deliver to the Medical Rescue Team South Authority one new ambulance vehicle as set forth in the Bid Package and Specifications.

This bid is subject to all the terms of the Bid Package, including the Invitation to Bid, Instructions for Bidders, minimum required specifications, and all other sections.

It is understood that MRTSA reserves the right to reject any or all bids and waive irregularities in the bid.

The undersigned bidder certifies to having read the Bid Package and offers to furnish item as specified to MRTSA in exact accordance with these specifications and conditions at the price stated below.

Bid Amount (in words): _____

Bid Amount (in numerals): \$ _____

If Bidder is an individual or is a partnership:

Sign Here: _____

Print: _____

Title: _____

If Bidder is a corporation:

Sign Here: _____

Print: _____

Title: _____

BIDDER INFORMATION

NAME OF BIDDER: _____

ADDRESS: _____

TELEPHONE: _____ FAX: _____

E-MAIL ADDRESS: _____

CONTACT NAME: _____

EQUIPMENT

Manufacturer: _____

Model: _____

* NOTE: The ambulance must be as specified in the Bid Package or a substitution authorized by MRTSA.

MEDICAL RESCUE TEAM SOUTH AUTHORITY

NON-COLLUSION AFFIDAVIT

1. This Non-Collusion Affidavit is material to any contract awarded pursuant of the solicitation for sealed bids. According to the Pennsylvania Antibid-Rigging Act, 62 Pa.C.S.A. § 4501, et seq., government agencies may require Non-Collusion Affidavits to be submitted together with bids.
2. This Non-Collusion Affidavit must be executed by the member, officer, or employee of the bidder who makes the final decision on prices and the amount quoted in the bid.
3. Bid rigging and other efforts to restrain competition, and the making of false, sworn statements in connection with the submission of bids are unlawful and may be subject to criminal prosecution. The person who signs the affidavit should examine it carefully before signing and assure himself/herself that each statement is true and accurate, making diligent inquiry, as necessary, of all other persons employed by or associated with the bidder with responsibilities for the preparation, approval or submission of the bid.
4. In case of a bid submitted by a joint venture, each party to the venture must be identified in the bid documents and an affidavit must be submitted separately on behalf of each party.
5. The term “complimentary bid” as used in the Affidavit has the meaning commonly associated with that term in the bidding process, and includes the knowing submission of bids higher than the bids of any other firm, any intentionally high or noncompetitive bid, and any other form of bid submitted for the purpose of giving a false appearance of completion.
6. Failure to file an Affidavit in compliance with these instructions may result in disqualification of the bid.

NON-COLLUSION AFFIDAVIT

COMMONWEALTH OF PENNSYLVANIA :

: S.S.

COUNTY OF: _____ :

The undersigned, being duly sworn according to law, states that:

1. He/she is _____ of _____
Title Name of Person or Firm

and is authorized to make this affidavit on behalf of such firm and is the person responsible in the firm for the price(s) and the amount of this bid.

2. The price(s) and the amount of this bid have been arrived at independently and without consultation, communication or agreement with any other bidder or potential bidder.

3. The amount of this bid has not been disclosed to any other firm or person who is a bidder or potential bidder and will not be disclosed before bid opening.

4. No attempt has been made or will be made to induce any firm or person to refrain from bidding, or to submit a bid lower than this bid, or to submit any intentionally low or noncompetitive bid or other form of complimentary or other noncompetitive bid.

5. Neither the bidder, nor its affiliates, subsidiaries, directors, officers or employees, are currently under investigation by any government agency and has not, in the last four (4) years been convicted or found liable for any act prohibited by state or federal law in any jurisdiction, involving conspiracy or collusion with respect to bidding on any public contract.

6. He/she understands and acknowledges that the above representations are material and important, and will be relied upon by MRTSA in awarding a contract for which this bid is being submitted. It is further understood that any misstatement in this affidavit shall be treated, as fraudulent concealment from MRTSA that may constitute sufficient cause to rescind a bid award.

Signature: _____

Name (please print): _____

SWORN TO AND SUBSCRIBED BEFORE ME
this _____ day of _____, 20_____.

My commission expires:

CHASSIS

AMBULANCE SPECIFICATIONS

SPECIFICATIONS FOR A NEW EMERGENCY MEDICAL VEHICLE:

BIDDER INSTRUCTIONS:

The following specification describes a new ambulance that is expected to be acquired by this purchaser. The specification describes the needs of this purchaser as far as chassis configuration and module body design. A state of the art vehicle is required. However, manufacturers that utilize prototype equipment or manufacturing processes will not be considered. The builder's manufacturing history shall be supported by documentation where applicable, and by the reference section within this specification. The benchmark for the initial configuration of this ambulance shall be the current KKK Federal Specification for Ambulances, NFPA 1917 Standard for Automotive Ambulances, or CAAS certification. However, most requirements in this specification exceed the federal specifications because of the specific needs of this purchaser.

Please note that the following specifications represent minimum general terms or requirements. While it is not the intent of this purchaser to preclude any qualified bidder from submitting a proposal, it must be clear that any bidder deviating in any substantial manner from these specifications will be rejected as being non-compliant.

Finally, manufacturers or distributors for manufacturers submitting bids shall include the following information with their proposal:

MINIMUM REQUIRED STANDARDS:

The highest degree of quality, both in the materials and in the building processes, is required for the emergency medical vehicle being proposed. At a minimum the manufacturer being proposed must meet all current mandated ambulance design standards in effect at the date of the proposal submission. All current Federal Motor Vehicle Safety Standards (FMVSS) must be met, as well as all current Federal Ambulance Design specifications as well as NFPA Standards.

The bidder shall state the date of certification for the current KKK-A-1822: _____

The manufacturer shall also comply with Ford Motor Company's QVM program. A copy of the manufacturer's current QVM certification must be submitted with the bid.

The current QVM certification is included.

Yes _____ No _____ Initial: _____

PROPOSAL COMPLETION PROCESS:

Various areas in the following specifications require a response from the bidder. In order to aid in the evaluation process all responses must be consistent and, most importantly, legible. Therefore, the areas that are to be completed by the bidder, along with any other materials that may be submitted by the bidder, must be typed. Bids that are submitted with either hand-written responses or with hand stamped responses shall be automatically rejected as being non-compliant.

Does the bidder understand this requirement?

Yes _____ No _____ Initial: _____

SINGLE SOURCE MANUFACTURER:

To simplify warranty coverage and to assure a consistent level of quality throughout the vehicle, a manufacturer is desired that manufactures the major components for the ambulance (excluding the chassis). Major components are defined as the module body, the interior cabinets, and the converter-added electrical system. This purchaser understands that manufacturers may purchase some elements, such as switches, boards, etc. with which to manufacture a system.

Further, this specification requires the vehicle manufacturer to own the design of, as well as the rights to, the onboard converter-added electrical system. Generic aftermarket systems that are manufactured by an outside company and installed by the vehicle converter are not acceptable.

These requirements are addressed elsewhere within this specification where the specific defined items are located. Manufacturers who outsource any of the above-referenced components shall be considered non-responsive and will be rejected.

Bidder states that the represented vehicle builder manufactures all of the major components as defined above:
Yes _____ No _____ Initial: _____

Bidder states that the represented vehicle builder owns the design of the converter-added electrical system, as well as all rights to that system and any software that may be required:

Yes _____ No _____ Initial: _____

Component manufacturer (by company name):

Modular Body: _____

Interior Cabinets: _____

Electrical Wiring System: _____

QUOTATION:

The overall quotation shall include a firm price for a vehicle meeting these specifications. The length of time that the price will be held shall be clearly stated in the quotation. The quotation shall include a specific delivery window based on the number of calendar days following the award of the contract. The model year of both the chassis and the conversion shall be clearly stated in the contract.

WARRANTY:

The proposal shall include all warranties that are required in the following detailed specification. Lifetime warranties will not be accepted because of their unclear nature of duration. All warranties must have specific time durations and shall define warranties on specific components. The minimum acceptable warranty periods are noted below. In the blank lines the bidder shall note the terms of the warranties that apply to the manufacturer being proposed.

MODULAR BODY STRUCTURAL WARRANTY: 30 years/Unlimited Miles

Proposed warranty term: ___ years/_____ Miles

Note: The structural warranty, as noted in the structural section of this specification, will include the module doors, continued module body door alignment, and all interior cabinet construction.

Does the structural warranty proposed comply with the above-stated terms and conditions? Yes _____ No _____

ELECTRICAL WARRANTY: 7 years/100,000 Miles

Proposed warranty term: ___ year(s), _____ Miles

CONVERSION WARRANTY: 2 Years/24,000 Miles

Proposed warranty term: ___ year(s), _____ Miles

PAINT WARRANTY: 7 Years/84,000 Miles

Proposed warranty term: ___ year(s), _____ Miles

The following schedule shall apply in regard to any claims submitted for paint under this warranty:

0 – 4 years = 100% / 5 years = 50% / 6 years = 35% / 7 years = 20%

Proposed warranty term: ___ year(s), _____ Miles

(No paint vendor warranties will be accepted)

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

Are the manufacturers warranties included? Yes____ No____

Warranties shall be transferable for their duration. All warranties shall be from the manufacturer as opposed to a distributor or service center. This is necessary for the protection of the purchaser, and to guarantee a certain known level of service and warranty. If, however, the bidder feels that it is necessary to modify the manufacturer's warranties, then the bidder shall state why this modification is necessary. In addition, the bidder shall provide a full descriptive warranty certificate describing the warranty modification and the fact that it takes specific precedence over the warranty offered by the manufacturer. If no such certificate is provided, then the modified warranty shall be considered invalid and the manufacturer's warranty shall remain in force. If a warranty modification is proposed through either a distributor or service center, then complete financial statements for that business covering the past five (5) years MUST BE SUBMITTED with the bid. If the manufacturer states that no party is permitted to modify its warranty, then any warranty modification provided by the bidder, despite being in writing, shall automatically be rejected.

Does the bidder conform to the above-written section? Yes____ No____

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

Are the warranties transferable? Yes____ No____

If yes explain. _____

Has the bidder modified the manufacturer's warranties? Yes____ No____

If yes explain. _____

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

If no explain. _____

If 'yes' was chosen above, has the bidder included financial statements, for the last five (5) years, of the warranty modifier? Yes____ No____

If no explain. _____

Bidder shall initial that this section is understood and has been answered truthfully. Initials: _____

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

SERVICE AVAILABILITY:

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

Radius from purchaser: Not more than 150miles.

Facility name: _____

Address: _____

City: _____ State: _____

Contact: _____

Phone #: 1-(____)-____-_____

Training Description: _____

ENGINEERING SUPPORT:

Due to the complexity of the design of the vehicle, proposals will be accepted only from manufacturers that utilize well-defined engineering techniques. Computer Aided Design (CAD) drawings of both the interior of the patient area and the overall layout of the module body will be mandatory. At a minimum these drawings shall include all exterior elevations, all interior views (4), and a plan view of the roof/ceiling. All options and elements required within these specifications shall be depicted on the prints. The purpose of this requirement is to assure this purchaser that vehicle proposals indeed meet the stated requirements as set forth in these specifications. Generic CAD drawings are not acceptable. The drawings, as submitted, shall accurately depict the exact vehicle that is being proposed. Bidders not including the required drawings will be considered non-responsive and will, therefore, be rejected.

Are the required drawings included with this bid? Yes_____ No_____

DRAWINGS:

The above-referenced drawings shall be furnished in standard 8.5" x 11". Drawings that are "D" size may be required at pre bid. Drawings not meeting the criteria set forth in the Engineering Support section above will be considered non-responsive and will, therefore, be rejected. Likewise, bids stating that drawings "will be furnished at a later date" will be rejected on the basis of non-compliance.

Are the drawings included with this bid? Yes_____ No_____ Initial: _____

SAFETY CERTIFICATION:

The verification of construction techniques used throughout the building process must be furnished by the manufacturer/bidder. The installation methods and construction techniques associated with seat belt retention, cabinet construction and installation, oxygen cylinder retention and module to chassis mounting systems must be

verified through a controlled Hygee sled test that simulates an actual impact condition. This test must be performed, under both side and frontal impact conditions, by a testing agency that is independent of the manufacturer.

As proof of this verification process being performed, the bidder must provide the following information (leave blank if this is not a sled test being verified):

Testing Facility Name: _____
Date Tested: ____/____/____
'G' Force Tested To: _____ G's

The bidder must perform and certify to dynamic sled or impact testing run on the ambulance body. The body tested shall include normally installed components for each of the following areas of the vehicle. The body structure and installed components shall not show evidence of structural failure or separation from its mounted position as a result of the test. All test results must be witnessed and verified by a Registered Professional Engineer.

Test Required	Date Tested	Force Applied	Signed By
1. Body to Chassis Mounting	_____	_____	_____
2. Access Door Latching	_____	_____	_____
3. Oxygen Cylinder Mount (Main)	_____	_____	_____
4. Oxygen Cylinder Mount (Portable)	_____	_____	_____
5. Attendant Seat Mount	_____	_____	_____
6. Attendant Seat Belt	_____	_____	_____
7. CPR Seat Belt	_____	_____	_____
8. Squad Bench Seat Belt	_____	_____	_____
9. Retention of Main Cabinet Wall	_____	_____	_____
10. Crash Restraint Wall At Head of Bench	_____	_____	_____

Certification of Registered Professional Engineer

The completed bid must include certification, signed by a Registered Professional Engineer, attesting to compliance with this section.

Documentation Furnished with Proposal: Yes____ No____

Finally, a manufacturer is desired that has had an ongoing testing program. The testing, as described above, is to have been performed on a body built using the same materials and designs as those currently used by the manufacturer.

Furthermore, the testing program must have been conducted on a continuous basis for a period of time not less than ten (10) years. Therefore, the bidder is required to answer the following questions and to initial the response to confirm that the question is understood and answered truthfully.

What was the date of your first test: _____ Initials _____

What was the date of the last test: _____ Initials _____

Has this specified body construction method been tested? Yes _____ No _____ Initials _____

If not, what body construction method was tested? _____ Initials _____

Has the testing program been in place for a period of at least ten (10) years? Yes _____ No _____ Initials _____

If the program has not been in place for at least ten (10) years, then how long has the testing program been in place? _____ Initials _____

Note: This requirement is in addition to the current minimum KKK, NFPA 1917 or CAAS requirements. Those requirements do not suffice as a substitute for this requirement as they do not address impact crash testing. It should also be noted that neither photographs of vehicles involved in accidents nor written observations of accident damage suffice to fulfill this requirement. This requirement will be fulfilled only when testing verification, signed by an accredited independent engineer, is furnished with the bid. The testing being described takes place in a controlled environment where meaningful data can be collected and used to further the design and safety of the vehicle. Actual accidents present too many variables that hinder the collection of meaningful data. Bidders who submit photographs or written observations, from customers or manufacturers' representatives, should note that such information is considered invalid and will not be a factor in the purchase decision.

Does the bidder understand these requirements? Yes _____ No _____ Initials: _____

If the bidder does not perform sled testing, then the bidder is asked to take exception to this requirement so that the purchaser may evaluate bids on a legitimate basis. Bidders not taking exception shall have all appropriate documentation, as described above, included with the proposal. Bidders who do not take exception, and who do not include all appropriate documentation will be considered non-responsive and will, therefore, be rejected. This also applies to any subsequent sections of this specification that require sled testing where the bid response indicates that no exception has been taken.

Does the bidder understand this requirement? Yes _____ No _____ Initials: _____

Is the bidder certifying sled test compliance and NFPA 1917/Federal KKK/CAAS compliance?

Sled Testing _____ KKK compliance _____ NFPA _____ CAAS _____ Initials: _____

CHASSIS, 2023 RAM 5500 4X4, 192.5, DEALER SUPP. DIESEL

The dealer shall supply the 2023 or newer Ram 5500 4x4 192.5" wheelbase diesel chassis required for completion of the ambulance conversion. Chassis to be ordered with Steel Wheels ILO Aluminum. Chassis to have manual regen. The chassis shall meet the conversion guidelines as set by the successful bidder.

Bid complies _____

Bid does not comply _____

TRUCK DEFENDER BUMPER

Dealer will supply and install a Truck Defender front bumper with brush guards. Bumper will be powder coated black and will include cutouts for siren speakers.

Bid complies _____

Bid does not comply _____

PASS THROUGH CAB/MODULE, RAM

There shall be pass-through access between the cab and the patient compartment. A flexible weather-tight bellows shall be installed around the perimeter of the opening between the back of the cab and the front of the module body.

Bid complies _____

Bid does not comply _____

STANDARD CAB HEIGHT

The body design and placement of components mounted either to the chassis or to the front of the body must take into account the cab height for the chassis selected.

Bid Complies _____

Bid does not comply _____

MUD FLAPS FRONT, RAM

The vehicle converter shall install mud flaps behind each front tire. The mud flaps are to securely attach to the chassis fenders and shall be sized appropriately for the chassis provided.

Bid complies _____

Bid does not comply _____

MUD FLAPS, REAR, LARGE W/LOGO

Install individual rear mud flaps behind each set of rear wheels. Mud flaps to be made of a durable heavy duty rubber and are to be securely attached to the vehicle. Mud flaps are to be sized appropriately for the chassis selected so as not to drag the ground and are to include the vehicle manufacturer's color logo embedded into the material. Separate logos that are affixed to generic mud flaps will not be considered.

Bid complies _____

Bid does not comply _____

REAR DOCK BUMPERS, WIDE

The rear step end caps shall include two heavy duty black rubber dock bumpers installed on the outer face of the diamond plate. These bumpers shall serve to protect the diamond plate from damage due to minor contact. Each bumper shall be approximately 6" wide.

Bid complies _____

Bid does not comply _____

REINFORCE REAR BUMPER END CAPS

The rear bumper end caps shall be reinforced so as to improve impact resistance.

Bid complies _____

Bid does not comply _____

RUNNING BOARDS: STAR PUNCHED, RAM

Diamond plate running boards shall be installed on each side of the cab at the cab entry points. The running boards shall be constructed with .125" thick 3003-H14 alloy polished aluminum diamond tread plate. The running boards shall include splash shields at the forward end to protect the vehicle from spray and road debris and shall include 'star punch' perforations along the stepping surface to enhance foot gripping and drainage.

RUNNING BOARD NOTE Running boards to be dropped approximately 4.5" below the doors. Star punched section to be the entire width of chassis door.

Bid complies _____

Bid does not comply _____

REAR STEP/ BUMPER ASSEMBLY, RAM

The rear of the vehicle shall be equipped with a step/bumper assembly to be fabricated from .125" polished aluminum diamond Tread plate. The assembly shall be spaced out from the rear kick plate a minimum of 1.5". The center section of the assembly shall pivot up and over center on two (2) .5" bolts to stay in the 'up' position. This section shall be a minimum of 9.5" deep and shall be constructed with grip-strut on the stepping surface to provide for better footing. The ends of the assembly shall be fixed diamond tread plate. The distance between the top of the step and the ground shall not be less than 16". The fold-up portion of the step shall be firmly held down with two (2) pin and socket holders to prevent rattling while the vehicle is in motion.

Bid complies _____

Bid does not comply _____

LIQUID SPRING SUSPENSION, RAM

The vehicle shall include a Liquid Spring hydraulic rear suspension. The system shall include a dump feature, wired through the left rear entry door magnetic switch, to lower the cot loading height. Manual controls for this system shall be installed in the cab near the driver.

Bid complies _____

Bid does not comply _____

BODY

AMBULANCE BODY

The completed vehicle shall have the following minimum dimensions:

(Body)

-Height: 91"

-Width: 96.25"

-Length: 167"

(Interior)

-Height: 72"

-Aisle 48"

-Length: 163"

Bid complies _____

Bid does not comply _____

DESIGN REQUIREMENTS:

The module body shall be designed and fabricated with the following key elements in mind:

1. The greatest possible load carrying capacity is desired.
2. The safety of all vehicle occupants is of paramount concern.
3. The body design, including construction materials and fabrication

techniques shall be proven to be durable.

4. The body shall be easily retrofitted to a new chassis should that need ever arise.

With these concerns in mind the following requirements have been established for the purposes of this specification: The vehicle converter shall design and construct its own module bodies, and maintain an engineering staff at its manufacturing facility to handle any custom body changes that may be necessitated by this design. It is the intent of this purchaser to receive a finished product of the highest standards of quality available. Vehicle manufacturers who design and build their own bodies and who have the expertise of an engineering staff will possess a greater capacity as far as handling a custom project of this type than manufacturers who purchase their bodies from an outside vendor. Accountability and quality of the design and construction of the body are enhanced when the vehicle converter manufactures the body.

Bid complies _____

Bid does not comply _____

BODY CONSTRUCTION:

The construction process described within this specification will ensure that the body shall remain structurally intact. However, to achieve this level of quality and durability, the module body, including all doors, must be constructed correctly initially. This specification requires that the module body, including all doors, be built within a tolerance of one five-thousandths of one inch. To achieve this the vehicle manufacturer must use, as standard practice, CNC machinery to provide for both accuracy and repeatability within the manufacturing process. Use of precision equipment will ensure that all door openings, door handles and latches, body windows, and warning light assembly installation locations are of the correct size and square to the body. Repeatability must translate to interchangeability between parts of the same construction. Parts manufactured via this method shall be interchangeable with like parts to the extent that all extrusions, jambs, mounting holes, and any other fabricated component or characteristic can be directly installed in place of an existing like part on another unit. Cutting done by hand, such as with a jigsaw, is not desired unless it involves the chassis, or unless a warning light assembly must be located in such a way that it depends on the layout of the finished vehicle. (E.g. when a light must be centered within a paint stripe since the exact stripe location will not be determined until the module is built and mounted.) In addition, utilization of CNC equipment will simplify the production of replacement body panels in the event of an accident since the computer can duplicate a given part exactly. This includes documentation of all body light locations. Manufacturing processes that do not utilize CNC machinery will not meet the requirements of this document and will be rejected.

Bid complies _____

Bid does not comply _____

PAYLOAD REQUIREMENTS:

The vehicle payload shall meet or exceed that called for in the current KKK-A-1822 specification or NFPA 1917 standard. The vehicle manufacturer shall, upon notice by this purchaser, provide a written statement from an independent engineer that the model being offered has met this set of criteria. Before delivery of the completed unit the manufacturer shall weigh the vehicle. A written statement of those weights shall be affixed to the inside of the street side front #1 compartment door. This purchaser reserves the right to have the finished vehicle weighed independently upon delivery. If it is found that the written statement of weight provided by the manufacturer is inaccurate beyond what may be reasonably explained as a slight difference in the calibration of the scales, then the vehicle will be rejected. It should be noted that this purchaser, while interested in attaining the greatest possible payload, is unwilling to compromise on the structural requirements of a strong, durable, and safe body. All bidders must understand these factors supercede concern over payload, and that the lightest body (greatest payload) will not necessarily be deemed sufficient to meet the stringent quality and safety requirements set forth herein.

Bid complies _____

Bid does not comply _____

MODULE BODY CONSTRUCTION AND WARRANTY:

The module body shall be constructed per the following detailed specifications. Generally speaking the body shall be of all-aluminum construction. Aluminum is shown to reduce weight over several other materials. It also possesses anti-corrosion properties that are essential for a vehicle of this type. The exact aluminum material requirements are explained in further detail below. The choice of materials and the design shall allow the manufacturer to warrant the materials and workmanship of the module body for a period of thirty (30) years as set forth in the warranty section of this specification. The manufacturer's structural warranty shall specifically cover:

- The continued and correct alignment of both compartment and access doors.
- Seam or joint separation in door construction.
- Aluminum interior cabinetry.

The warranty shall be fully transferable to a new owner should the vehicle ever be sold. In addition, should the manufacturer bidding this proposal re-chassis the vehicle within the period of the initial structural warranty, then an additional 5 years shall be added to the remaining amount of warranty coverage left at the time of re-chassis. This warranty shall be revalidated in five-year increments each time the body is mounted to a new chassis provided that the warranty has not expired, that this purchaser authorizes any necessary repairs, and provided that the original manufacturer performs the re-chassis.

Bid complies _____

Bid does not comply _____

CORNER POST SUPPORTS:

The body structure must be able to support the loaded weight of the vehicle in the unlikely event of a rollover. A structure is required that will enhance the safety of both patients and attendants in the event of an accidental collision. The foundation of a solidly built module body is the utilization of strong corner posts in both the sidewalls and the roof. A one-piece 90-degree radius post is required. The posts shall include a full length W shaped extrusion that forms a fully encased web inside the post for strength. This reinforcing member shall angle inward just before it joins the radius to form a small slot where the edges of the aluminum skin will be inserted prior to the final welding. Because the structural integrity of a body is derived from the corner posts, subfloor, and framework, corner posts that are a part of the exterior body skin (e.g. rolled corner posts) will not be considered, nor will corner posts which do not have an integral center reinforcement as part of the extrusion.

Bid complies _____

Bid does not comply _____

CORNER POST STRENGTH:

The corner post extrusions shall possess a minimum ultimate tensile strength of 27,000 psi (6063-T5).

Bid complies _____

Bid does not comply _____

ROOF EXTRUSIONS:

The horizontal roof extrusions shall conform to the same construction description as the vertical wall extrusions. They will, however, include an extruded drip rail as a part of the one-piece posts. Because the drip rail is a part of the post itself there will be no seams between the rail and the body above the rail. In addition there shall be drip rails installed above all body doors that are not full height. These rails shall attach via a durable adhesive.

Bid complies _____

Bid does not comply _____

WALL AND ROOF SKIN SUPPORTS:

The exterior wall and roof skins shall be supported on the inside by 2" square tubing with .125" wall. These structural supports shall be strategically located at the load bearing points of the module body. The roof structural support beams shall be spaced on minimum 12" centers for adequate load support. Wall tubing of .125" thickness or less will not be acceptable.

Bid complies _____

Bid does not comply _____

HORIZONTAL WALL SUPPORTS:

In addition to the vertical wall supports there shall be a horizontal beam, located in the beltline area, to provide additional protection in the event of a side body collision.

Bid complies _____

Bid does not comply _____

GUSSET ENHANCEMENT:

Gusset supports, made from 2" square tubing, shall be installed throughout the vehicle for added strength. Each gusset shall be a minimum of 5" long at its longest point. A minimum of twenty-four (24) of these gussets shall be welded into the vehicle support structure. Areas of installation shall include but not be limited to: all door openings, all body corners, and above all wheel wells. Designs that utilize no gussets, or gussets of lesser material size or strength, are not acceptable.

Bid complies _____

Bid does not comply _____

EXTERIOR BODY PANELS:

The materials selected for the body skin have been chosen because of this vehicles expected heavy-duty cycle and the good wear characteristics that this material has shown in the field. The material shall be a minimum 5052-H34 alloy with an ultimate tensile strength of 38,000 psi. This material has been chosen because it is less prone to fail due to stress than other weaker materials such as 5052-H32 alloy.

Bid complies _____

Bid does not comply _____

EXTERIOR BODY PANEL MATERIAL:

The thickness required for exterior body panels is:

-Side, front, and rear walls: .125"

-Ceiling and floor panels: .090"

Note: The roof shall be constructed with a single sheet of 5052-H34 .090" thick aluminum. This one-piece construction is preferred over a multiple piece design. The roof shall incorporate a 3/8" crown designed to allow water to drain.

Bid complies _____

Bid does not comply _____

FLOOR CONSTRUCTION:

Floors that are uneven or are incapable of adequately supporting the load being carried on the vehicle are unacceptable. For that reason thin floor panels and/or a lack of floor supports are not desirable. To prevent buckling, sagging, oil canning or any other structural breakdown of the flooring system a detailed description of the required construction process is provided.

The body subfloor shall be constructed of .090" 5052-H34 aluminum. The floor, from the front to the rear and from curbside to street side shall be supported by a minimum 2" x 3" tubular beams with a .25" wall. The floor just behind the axle shall be supported by a minimum 1.5" x 3" tubular beam with a .25" wall. All beams shall be strategically located at the load bearing points of the floor and welded into place. The interior of this vehicle shall contain no wood or wood products of any kind. The subfloor, above the aluminum sheet shall be specially constructed to provide both acoustic and thermal protection for the patient interior. It shall consist of the .090" aluminum with tubular understructure as noted above. The underside of this area is to be sprayed with a sound reduction coating. In addition, a .125" damping pad, a .125" sound barrier sheet, and a .625" composite floor panel shall be installed prior to installation of the vinyl floor covering. This panel must be hydrophobic so as to resist mildew and degradation. It

shall also utilize Royal Watson surfaces featuring BioStat technology which prohibits bacterial or fungal growth over the life of the product. The material is to be 100% recyclable and CA Prop 65 compliant as well as FMVSS 302 compliant. The material manufacturer must have tested the material including ASTM D 3040-3 point bend and 25#slug 8' and 24' drop test. The subfloor must have been tested and certified by a third party for compliance to AMD 020 Floor Distributed Load Test. The purchaser reserves the right to inspect the process proposed by the bidder and to make determinations regarding the acceptability of that process. The resultant subfloor shall have no organic, wood, or wood products and shall be guaranteed against rotting or water absorption for a minimum of fifteen years. It shall not support or attract mold or fungus.

Bid complies _____

Bid does not comply _____

SKIN TO SUPPORT ATTACHMENT:

All exterior aluminum body panels shall be attached to the underlying structural supports via high performance polyurethane two sided tape. The tape shall have a polyurethane foam core for environmental resistance and an acrylic adhesive for a durable bond. The tape will be used as an insulating agent to hold the panels tightly against the structural supports, thus eliminating vibration and oil-canning. In addition to the tape attachment system, all panels shall be welded to structural members at the perimeters only. Welding in the center of the panels is not desired as the process will cause heat distortion of the body panels and lessen the overall quality of the finished appearance. Use of the tape, as described here, will eliminate heat distortion without damaging the structural integrity of the module body.

Each body panel shall be welded to all horizontal frame members, including the roof extrusions. In addition, the panels shall be welded to the vertical corner posts. In the case of the roof, the perimeter of the one-piece roof sheet shall be stitch welded. This method of attachment shall provide a total welding application to the entire perimeter of the body skin and a taped/insulating application to the interior surfaces of all walls. Methods of panel attachment that utilize rivets will not be acceptable.

Bid complies _____

Bid does not comply _____

STRUCTURAL INTEGRITY VERIFICATION:

Structural integrity, as stated elsewhere in this specification, is of extreme importance to this purchaser. As such, it is required that the manufacturer maintain a program of simulated crash tests. The manufacturer's Hygee sled testing program must be current and have been maintained on a continuous basis for a period of time not less than ten years. In addition, the sled testing shall have subjected a body, built to the above-written specifications, to a minimum of 30 G's in both side and frontal impact conditions. Neither photographs of vehicles that have been involved in accidents, nor statements or observations relevant to an accident, be it from a customer or a manufacturer's representative, shall suffice as a substitute for this requirement. The sled testing must take place in a controlled environment whereupon meaningful engineering data can be gathered and applied to the structural design of the module body. Accidents that take place outside of this controlled environment do not yield any meaningful data. Therefore, real world accidents are considered anecdotal and cannot realistically be used by the manufacturer to judge the safety of a design.

Bid complies _____

Bid does not comply _____

MODULAR DOOR DESIGN:

Door panel separation, dirt accumulation at seams, paint imperfections, misalignment, and even malfunctions whereupon the door cannot be operated have been observed in many styles of door construction. These problems, along with the expected rugged use of the vehicle doors, shall be eliminated with a good overall design and construction process. With these thoughts in mind the modular doors shall be constructed as follows:

OUTER DOOR SKIN:

The door facing and edges shall be formed from a single sheet of aluminum. The aluminum used for the doors shall not be less than 5052-H34 alloy with an ultimate tensile strength of 38,000 psi. The material shall be .125" thick. All module doors shall be flush fit to the body side. The door panels must be welded at the corners.

Bid complies _____

Bid does not comply _____

INNER DOOR REINFORCEMENT:

Each door shall include an internal extrusion for added reinforcement. The extrusions shall extend around the entire perimeter of the door. Additional reinforcement shall be installed through the center of the door and around each window where applicable. In addition to the extrusions reinforcing each outer door pan, the extrusions themselves shall be reinforced through a dual joining method. First, each mitered corner, where the frame corners join, shall be fitted with a one-way solid aluminum insertable key. This key shall prevent the corner from pulling apart, and shall act as a solid aluminum internal gusset. Secondly, each corner where the frame joins shall be welded to further prevent any separation. The end result will be a rigid door that will not bend or flex and that will eliminate the other commonly seen structural defects described above.

Bid complies _____

Bid does not comply _____

INNER DOOR PAN:

An inner door pan shall fit flush with the inner edges of the door. Inner door pans that do not fit flush will have sharp or ragged edges exposed and will not be acceptable. The panels must be attached to the door structure with machine screws and "T" style Nutserts to prevent spinning and stripping. Sheet metal screws or rivets will not be accepted. Lastly, a closed cell cross-linked polyolefin foam tape shall be used beneath the inner door panels to isolate the panels from the door frames. This process will prevent door rattling.

Bid complies _____

Bid does not comply _____

DOOR SEAL:

All module doors shall incorporate an extruded rubber seal located around the perimeter of the door. The seal shall insert into a groove in the inner door extrusion. Seals that are installed around compartment openings will be easily torn by the movement of equipment across them. In addition, glue will not be permitted except in the case of a double door compartment. The requested design does not include a groove on the underlying door edge of a double door compartment. That edge alone will require an adhesive. Glue for all seals is not desirable because of increased replacement time and insufficient durability.

Bid complies _____

Bid does not comply _____

DOOR JAMB:

All doorjamb must be separate from the body skin and must be welded to the 2" x 2" tubular body frame members so as to ensure continued door alignment and proper latching. The compartment frame shall be designed in such a manner as to provide extra protection around the compartment openings. The reinforcement tube shall be at least 1" wide. For added strength, the frame shall be at least .188" thick where screws are attached.

Prior to door installation the doors shall be true fit to the doorjamb. The fitting, prior to installation, shall provide added assurance that the door aligns properly with the doorjamb.

Bid complies _____

Bid does not comply _____

HINGING:

All doors shall have full-length stainless steel hinges. The hinges shall be .070" thick and shall incorporate a .25" diameter pin.

All hinges shall have un-slotted mounting holes for an exact and permanent installation. Hinges that utilize slotted mounting holes are unacceptable because of the continued adjustments that they require.

There shall be an anti-corrosive material installed along the length of the hinge where the hinge meets the door frame to separate the stainless hinge from the aluminum body. This material shall be transparent so as not to be visible at any point while the door is being used.

Bid complies _____

Bid does not comply _____

HOLD-OPEN DEVICES:

The following door hold-open devices shall be installed:

-Compartment doors: Gas filled, 100-degree extension actuator

-Side access door: Gas filled, 110-degree extension actuator

-Rear doors: Cast Products grabber style devices

Spring-loaded devices are not desired because of their weaker holding capabilities and a lack of smooth door operation.

Bid complies _____

Bid does not comply _____

DOOR HANDLES AND LATCHING:

A door latching system is required that provides safety to all on-board personnel and security to all stored equipment. The patient area must be capable of being quickly secured. The following minimum features are to be designed into the module door latching system:

-All door handles shall be rugged automotive style handles that are near flush with the outer door panel. Each handle shall actuate a Nader rotary safety latch.

-The handle and latching system shall be designed by their manufacturer to accommodate electromagnetic activation. Paddle style or D ring style handles that must be retrofitted for this application are unacceptable.

-The entire exterior handle assembly shall be Tri/Mark Series 2200 cast metal that is chrome plated and buffed to a high luster.

-All doors shall have an exterior key lock.

-All three patient area access doors shall include both interior and exterior latch activators. The rear doors shall have an activator installed on the outside of each door. The interior activators shall be located in a recessed pan on the door. A manual lock/unlock device shall be located within the pan. This pan shall be powder coated cast aluminum for extra durability and for ease of decontamination. No plastic products shall be used for this application.

-Exterior double door compartments shall include two exterior latching devices, one on each door.

-The entry doors shall incorporate emergency release levers located at each rotary latch. The emergency release handle shall allow emergency exit if a latch failure would occur.

The latching system shall be a proven system that has been subjected to the simulated sled tests as described elsewhere in this specification. Latching systems that have not been subjected to these tests will not have reliable data available as to installation and retention characteristics. Again, only controlled testing fulfills this requirement. Neither pictures of accidents, nor common observations gathered from damage surveys will suffice.

Bid complies _____

Bid does not comply _____

PATIENT AREA DOOR OPENINGS:**REAR DOORS:**

Two (2) doors shall be provided at the rear of the module body. The overall opening of the access to be a minimum of 54.3" in height x 46.75" in width. Both inside and outside door handles shall be installed on each rear door. Left rear doors that can only be activated from the inside are not acceptable. These doors are to incorporate emergency release levers as described above.

SIDE DOOR:

One (1) side door shall be provided on the curb side of the module body. The opening shall have minimum overall dimensions of 71.1" in height x 30" in width.

Bid complies _____

Bid does not comply _____

INSULATION:

The patient area, including the doors, shall be insulated with 2" Technicon polyfiber for both thermal and acoustic insulation. The headliner area of the vehicle shall also include a barrier insulation of Reflectix material for increased protection. Bidder should note additional insulation requirements specified elsewhere within this document.

Bid complies _____

Bid does not comply _____

The side access door is to be relocated at the forward most area on the curbside of the body. The space between the door and the head of the bench is to be occupied by an inside/outside access compartment. Compartment to include standard LED strip lighting. The compartment is to have a 36"W X 50"H clear door opening, (2) adjustable shelves and a single door with dual nader pin latches. The aluminum shelves are to be made out of 1/4" flat stock with DA finish and no retaining lips. Ensure the channels butt up against the closeout so that the shelves can be adjusted up as high as possible.

Bid complies _____

Bid does not comply _____

The interior headroom of the finished patient area shall be 72".

Bid complies _____

Bid does not comply _____

ALUM. DIAMONDPLATE AT SIDE STEPWELL

The side door stepwell is to be fabricated from .125" 3003-H14 polished aluminum diamond tread plate.

Bid complies _____

Bid does not comply _____

DOUBLE STEP CURBSIDE ENTRY, 6" DROP SKIRT

The curbside body skirt, forward of the rear wheel well, shall be dropped six (6) inches. Two integral aluminum diamond plate steps shall be installed within the side access door step well for improved accessibility to the patient compartment. Under no circumstances shall this be accomplished by bolting an additional step to the step well. The design must be such that all steps are integral. The use of bolts, rivets, or any other type of fastener is prohibited.

Bid complies _____

Bid does not comply _____

STREETSIDE 6" DROP SKIRT

The streetside body skirt, forward of the rear wheel well, shall be dropped six (6) inches. The extra 6" is to be added to the applicable compartments in this area. .

Bid complies _____

Bid does not comply _____

SOUND PROOFING/ACOUSTIC ENHANCEMENT PACKAGE

To insure good working conditions and to create a stable patient environment, the vehicle shall be manufactured with particular attention paid to sound control. The following process must be performed throughout the manufacturing cycle of the vehicle:

1. Underbody shall be completely sprayed with non-flammable latex sound control coating
2. Body Interior walls, roofs and interior compartment walls shall be sprayed with non-flammable latex sound control coating
3. The interiors of all access doors shall be sprayed with non-flammable latex coating
4. The backs of all aluminum interior cabinets shall be wrapped in antiphon damping material
5. Door interiors are to be lined with polydamp intefoam extensional damping pad
6. The body structural tubes shall filled with non-resonating dampening material
7. Side stepwell areas are to be backed with PT Damping Pad
8. All walls shall be insulated with 2" Technicon polyfiber acoustic insulation.
9. Headliners shall be double insulated with 2" Technicon Polyfiber and a Reflectix barrier.
10. A .125" damping pad, a .125" sound barrier sheet, and a .625" composite floor panel sandwiched between aluminum sheets shall be installed prior to installation of the vinyl floor covering.
11. A chassis tuned mounting system shall be used to provide vibration reduction and structure borne noise attenuation. Chassis OEM puck style mounts will not be accepted as "equivalent to" or "exceeding" this requirement. See body mounting specification within this document for additional information.

Bid complies _____

Bid does not comply _____

ROOF POCKET, AUXILIARY CONDENSER

The roof of the body shall be designed with an integral recessed pocket to allow for the specified recessed rooftop condenser. The pocket is to be sealed off except for a drainline to the ground to prevent build-up of water inside the pocket.

Bid complies _____

Bid does not comply _____

PRIVACY WINDOWS, FIXED, REAR ENTRY DOORS

The rear module body access doors shall include tinted privacy fixed windows. Each of these windows shall measure 16.5"h x 17"w and shall be glazed and tinted in accordance with FMVSS. The windows shall have dark privacy glass. The windows shall meet FMVSS glazing standards. No films are to be used. The windows shall be encased in extruded aluminum frames. Under no circumstances will RV style windows, windows that rely on rubber gaskets, windows that do not feature extruded aluminum frames, or windows that do not meet the above stated minimum dimensions be acceptable.

Bid complies _____

Bid does not comply _____

PRIVACY WINDOW, SLIDING FOR SIDE ENTRY DOOR

The side entry door shall have a sliding tinted privacy window. The window shall measure 16.5"h x 17"w and shall be glazed and tinted in accordance with FMVSS. No films are to be used. The window shall be encased in extruded aluminum frame. Under no circumstances will RV style windows, windows that rely on rubber gaskets, windows that do not feature extruded aluminum frames, windows that rely on films, or windows that do not meet the above stated minimum dimensions be acceptable.

Bid complies _____

Bid does not comply _____

EMERGENCY RELEASE, REAR DOORS

The manufacturer shall install emergency release latches at the top and bottom of the interior of the rear entry doors. These will allow egress in the event of a door latch failure. The release knobs are to activate the rotary at the top and bottom of the door. Doors without this feature will not be considered.

Bid complies _____

Bid does not comply _____

EMERGENCY RELEASE, SIDE ACCESS DOOR

The manufacturer shall install emergency release latches at the top and bottom of the interior of the side entry door. These will allow egress in the event of a door latch failure. The release knobs are to activate the rotary at the top and bottom of the door. Doors without this feature will not be considered.

Bid complies _____

Bid does not comply _____

DOOR HANDLES

The vehicle is to include Tri-Mark free floating door handles. The handles shall include a chrome finish and are to activate the door latches through the use of pre-stretched stainless steel cables. Latches using cables made of any other material or that are not pre-stretched are not acceptable. The interior door panels are to be three piece with a removable center section allowing access to the latch mechanism for lubrication and maintenance.

Bid complies _____

Bid does not comply _____

VI-TECH MOUNTING, RAM

This purchaser requires a mounting system that provides a stable and durable attachment of the module body to the chassis frame. To accomplish this requirement the following body attachment method shall be used:

A minimum of (4) four Mounting platforms shall be attached along the outside of each chassis frame rail for a total of (8) eight. Each platform shall consist of (1) top plate of .375" thick steel and (2) side reinforcement plates made of .25" steel. There shall be a .375" full backing plate where the mount attaches to the frame rail. The plates shall be welded along all seams with a heavy continuous weld. The body substructure shall include a 1" by 3" solid aluminum tie down bar welded to each sub structure cross member. To complete the body to chassis attachment, a tuned mounting system shall be used. The elastomer mount shall be custom-tuned to the specific chassis type for vibration reduction, structure borne noise attenuation and to provide low profile, low frequency isolation necessary for ideal patient compartment conditions. Standard chassis furnished mounting donuts will not meet the requirements of this specification. The mount shall be attached to each platform by (2) .625" Grade 8 bolts with washers and locking nuts. The platform shall be attached to the chassis frame rail with a minimum of (3) .625" diameter Grade 8 bolts with washers and locking nuts. The fail-safe elastomer isolation mount shall then attach to the aluminum body tie down bar with a .75" diameter Grade 8 bolt, a washer, and a locking nut.

The mounting system must have been subjected to a documented Hygee dynamic frontal impact test of at least 30 G's to verify the integrity of the mounting system in the event of a serious accident. No exceptions to this requirement are permissible.

Bid complies _____

Bid does not comply _____

MIRROR STAINLESS STEEL SPLASH SHIELDS

Stainless steel splash shields are to be installed on the lower front face of the module body just aft of the cab access doors. These shields are to have a #8 mirror finish and shall match the height of the diamond plate corner guards.

Bid complies _____

Bid does not comply _____

FENDERS, RUBBER

Rubber extruded fenders shall be installed around the rear wheel well openings.

Bid complies _____

Bid does not comply _____

RUBBER RUB RAILS

Rubber lower body rub rails shall be installed on each side of the module body. Each rail shall be securely installed yet simple to remove and replace in the event of damage. Rubber material is to be black in color.

Bid complies _____

Bid does not comply _____

STANDARD CORNER GUARDS

Polished aluminum diamond tread plate corner guards shall be installed on the lower corners of the body. The guards are to be formed to match the contour of the body corner posts.

Bid complies _____

Bid does not comply _____

ACCESS STEP, ZIAMATIC, 6" DROP SKIRT

An electrically activated Zico fold-out step shall be installed beneath the curbside patient area entry door. The step shall automatically fold out when the door is opened, and retract when the door is closed. The override shall be a switch as described in the electrical section of this specification.

Bid complies _____

Bid does not comply _____

REAR DOOR HOLD OPENS, GRABBER

Cast Products "Grabber" style rear door hold-open devices shall be installed to maintain the rear access doors in the 'open' position. One loop shall be installed on each door, and the appropriate socket shall be installed on the body. These devices are to be chrome finish in lieu of Cast Products' standard finish.

Bid complies _____

Bid does not comply _____

ENTRY DOOR THRESHOLDS, LINE-X

The one-piece stainless steel thresholds at both the side and rear entry doors are to be covered with black Line-X material. No anti-slip adhesive tapes are to be used.

Bid complies _____

Bid does not comply _____

REAR RISER ADP

Install a polished aluminum diamond tread plate riser between the bottom of the rear entry door opening and the bottom of the body. The manufacturer shall include any necessary holes to accommodate other items installed in this area.

Bid complies _____

Bid does not comply _____

LICENSE PLATE, STREETSIDE REAR RISER

Provisions for installation of the rear license plate shall be provided at the location described above. There shall be two holes provided, along with the bolts to be used to mount the plate. An LED license plate light is to be installed over the plate location to illuminate the plate once installed. No frames or recessed style license plate bezels are required.

Bid complies _____

Bid does not comply _____

DOOR REFLECTORS

Install red reflectors on the interior panels of all patient compartment access doors. Install in the corners so as to be visually conspicuous when the doors are open.

Bid complies _____

Bid does not comply _____

COMPARTMENTATION

STREETSIDE FORWARD COMPARTMENTS

The compartments described above shall be accessed through two single hinged doors meeting the standards for door construction, hinging, and latching outlined within this specification. A smaller upper electrical compartment shall sit above the primary compartment and is to house electrical equipment items as detailed within this document. The compartments shall be vented to the outside in such a way as to prevent moisture from entering the compartments. In addition, the upper door shall include a vent in the door to promote heat dissipation from the electrical components inside the compartment. The compartments themselves shall be constructed as individual boxes and welded into the body structural framing. The compartments shall include two strips of LED lights, one to either side of the compartment doors, to provide lighting inside the compartments. Compartment dimensions are detailed on the drawings provided with this document.

Bid complies _____

Bid does not comply _____

SS FORWARD COMPT. DIAMONDPLATE

The streetside forward compartment is to be fabricated from .125" polished aluminum diamondplate that is continuously welded at all seams.

Bid complies _____

Bid does not comply _____

SWEEP OUT COMPARTMENT FLOOR, SS FRONT

The floor of the streetside forward compartment shall be flush with the door frame so as to provide a sweep-out style compartment bottom. There shall be no lip at the forward edge of the compartment bottom, or any other obstruction, that may hinder the purchaser's ability to sweep the compartment free of dirt and/or debris.

Bid complies _____

Bid does not comply _____

SILL PLATES, STREETSIDE FRONT

A stainless steel sill plate shall be installed on the streetside forward compartment for protection against scuffs and scratches.

Bid complies _____

Bid does not comply _____

STREETSIDE INTERMEDIATE COMPARTMENT

The compartment described above shall be accessed through double hinged doors meeting the standards for door construction, hinging, and latching outlined within this specification. The compartment shall be vented to the outside in such a way as to prevent moisture from entering the compartment. Under no circumstances shall vents be installed within the compartment door. The compartment itself shall be constructed as an individual box and welded into the body structural framing. The compartment shall include two strips of LED lights, one to either side of the compartment door, to provide lighting inside the compartment. The compartment is to be full available height to the bottom of the interior countertop. Compartment dimensions are detailed on the drawings provided with this document.

Bid complies _____

Bid does not comply _____

SS INTRMDT COMPT. DIAMONDPLATE

The streetside intermediate compartment is to be fabricated from .125" polished aluminum diamond plate that is continuously welded at all seams.

Bid complies _____

Bid does not comply _____

ADJUSTABLE SHELF STREETSIDE INTERMEDIATE - spaced evenly

Shelving shall be installed as noted and as depicted in the drawings. All shelving is to be fabricated from 3003-H14 aluminum diamond plate. This material shall be made out of 1/4" flat stock with DA finish and no retaining lips. Ensure the channels butt up against the closeout so that the shelves can be adjusted up as high as possible. The compartment light shall meet the lighting criteria as described elsewhere within this specification. Shelving is to be secured using four (4) 'C' channels, two (2) on each the right and left hand wall, allowing the shelving to be infinitely adjustable within the compartment.

Bid complies _____

Bid does not comply _____

SILL PLATES, STREETSIDE INTERMEDIATE

A stainless steel sill plate shall be installed on the streetside intermediate compartment for protection against scuffs and scratches.

Bid complies _____

Bid does not comply _____

The height of the streetside rear compartment is to be as shown as in the drawings. See 603 drawings for compartment dimensions. Compartment is to include standard LED strip lighting and a single hinged door.

Shelving shall be installed as noted and as depicted in the drawings. All shelving is to be fabricated from 3003-H14 aluminum diamond plate. This material shall be .125" thick. All shelving is to include a 2" integral lip to prevent equipment from sliding off of the shelf. The compartment light shall meet the lighting criteria as described elsewhere within this specification. Shelving is to be secured using four (4) 'C' channels, two(2) on each the right and left hand wall, allowing the shelving to be infinitely adjustable within the compartment.

Bid complies _____

Bid does not comply _____

CURBSIDE REAR COMPARTMENT

The compartment described above shall be accessed through a single hinged door meeting the standards for door construction, hinging, and latching outlined within this specification. The compartment shall be vented to the outside in such a way as to prevent moisture from entering the compartment. Under no circumstances shall vents be installed within the compartment door. The compartment itself shall be constructed as an individual box and welded into the body structural framing. The compartment shall include two strips of LED lights, one to either side of the compartment door, to provide lighting inside the compartment. Compartment dimensions are detailed on the drawings provided with this document.

Bid complies _____

Bid does not comply _____

CS REAR COMPT. FLAT ALUMINUM

The curbside rear compartment is to be fabricated from .125" flat aluminum material that is continuously welded at all seams.

Bid complies _____

Bid does not comply _____

FIXED VERTICAL DIVIDER, CURBSIDE REAR - Against the notch for Life Pak

A 16" deep vertical divider shall be installed in the curbside rear compartment as noted, and as depicted in the drawings. The divider shall be non-adjustable and shall be fabricated from the same material used in the construction of the compartment in which it is to be installed.

Bid complies _____

Bid does not comply _____

ROK BACKBOARD STRAP CURBSIDE REAR from center divider to the right hand wall for stair chair s

A Rok buckle style backboard strap shall be installed in the compartment designated above. The straps shall attach to the compartment wall/divider through footman's loops that are screwed into place.

Bid complies _____

Bid does not comply _____

SWEEP OUT COMPARTMENT FLOOR CS REAR COMPT

The floor of the curbside rear compartment shall be flush with the door frame so as to provide a sweep-out style compartment bottom. There shall be no lip at the forward edge of the compartment bottom, or any other obstruction, that may hinder the purchaser's ability to sweep the compartment free of dirt and/or debris.

Bid complies _____

Bid does not comply _____

STAIR CHAIR POCKET, CURBSIDE REAR

A pocket shall be recessed into the inner compartment door panel in the curbside rear compartment for stair chair storage. The pocket shall be installed as close to the bottom and hinged side of door as possible.

Bid complies _____

Bid does not comply _____

STAIR CHAIR MODEL, STRYKER #6252

A Stryker #6252 stair chair will be stored in the designated location. This information is for sizing and placement purposes only. The bidder is not to supply a stair chair with the completed unit.

Bid complies _____

Bid does not comply _____

SILL PLATES, CURBSIDE REAR

A stainless steel sill plate shall be installed on the curbside rear compartment for protection against scuffs and scratches.

Bid complies _____

Bid does not comply _____

DRI DECK, BLUE

Blue Dri-Deck material shall be cut to size and installed on the bottoms of all exterior compartments and shelves. This shall include tapered edge trim pieces where applicable.

Bid complies _____

Bid does not comply _____

RUBBER WALLS IN BB COMPT, GRAY

The walls of the backboard compartment shall be covered with self-adhesive textured gray rubber matting to protect the walls and the equipment stored in this area from any damage.

Bid complies _____

Bid does not comply _____

PAINT AND GRAPHICS

GRAPHICS AND STRIPING, SCOTCHLITE, STREETSIDE AND CURBSIDE:

All striping to be printed scotchlite to match Customer unit 783. The digital squares are 4" sq and randomly located and spaced. All digital white squares are scotchlite. Install a 1.5" Orange and a 1" Blue stripe below the "MRTSA" lettering with the orange stripe stopping at the "S" and continuing on below the "A". Install a 4.5" Blue 680-75 Scotchlite belt line across the Mod body stopping at the excursions, topped with a 1" black stripe and a 1.5" Orange stripe above that. Install a 10" Blue 680-75 Scotchlite skirt line with 2" red and white DOT stripe below and 1" black stripe above blue with a 4" Orange stripe above the black stopping at the rear excursion. Continue stripes to the lower chassis contour at lower doors. Install 1.5" Orange and 1" blue stripe center of rear doors below the "MRSTA" and having the orange stripe stopping at the "S" and continuing on below the "A".

Bid complies _____

Bid does not comply _____

CHASSIS PAINT: WHITE

The OEM chassis manufacturer's bright white paint shall be ordered on the chassis. The bidder is not to repaint the chassis.

Bid complies _____

Bid does not comply _____

MODULE PAINT, WHITE

A paint process is required that provides the highest possible gloss as well as superior color and luster retention characteristics. In addition, the paint process must provide a high resistance to chemical sprays, salt sprays, humidity, and temperature changes. Lastly, this process, given the expected life of the vehicle and its heavy-duty cycle, must resist chipping. The final paint application shall be free of material application imperfections such as orange peel, streaking, or a dull finish. Once painted, the vehicle shall be inspected under a black light to bring any small imperfections, not seen with the naked eye, to attention. Any such imperfections shall be repaired prior to the conclusion of the paint inspection process. The final application shall provide a high gloss finish.

Bid complies _____

Bid does not comply _____

To produce an acceptable paint finish, the following paint process must be used:

All body doors and hardware must be removed prior to any wash, prime, or final paint application. All material impurities and oils must be removed from the bare aluminum body. The entire module body, excluding the underside, will have all visible welds ground down and all material imperfections filled. The entire body, including the compartment doors, must be finished with a DA. It is also required that all door jamb areas be sanded to insure that no areas are missed with the DA process mentioned above. Again, all module doors, though handled separately from the body, shall undergo the same process as described above.

Bid complies _____

Bid does not comply _____

Immediately after application of the sealer/primer the manufacturer shall apply a finish color coat of Sikkens BTLV 650 paint. The color coat is to be immediately followed by a clear coat. Once all coats are applied the unit is to be baked dry. This base coat/clear coat 'wet on wet' process is required over any other proposed process. Processes not meeting these specific requirements must be explained thoroughly within the bid.

Bid complies _____

Bid does not comply _____

Following the drying of all paint coats the unit is to be thoroughly inspected as noted above. The unit is to be polished and any blemishes repaired. All paint lines must be sanded and cleaned.

Bid complies _____

Bid does not comply _____

The manufacturer shall maintain an outside paint audit system. As part of that audit the paint manufacturer shall regularly receive and test sample paint panels that are painted along with module bodies. The paint manufacturer shall also provide regular onsite inspections of the vehicle manufacturers paint process to assure a consistent level of quality. Audit reports from these inspections shall be provided to management.

Bid complies _____

Bid does not comply _____

All locations where fasteners penetrate the outer skin of the module body shall be coated with ECK anti-corrosion agent. In addition, all fasteners that penetrate the outer skin of the module body shall be treated with an anti-corrosion agent to assure the maximum protection against vehicle corrosion and electrolysis.

Bid complies _____

Bid does not comply _____

Locations where light heads and fenders attach to the aluminum body shall utilize threaded Nylon inserts to isolate the fasteners from the aluminum module body skin and structure. This practice, along with the other measures described above, shall act to minimize the threat of electrolysis.

Bid complies _____

Bid does not comply _____

The paint warranty provided by the converter must meet all warranty standards as set forth elsewhere within this specification. Bidder must submit a manufacturer's paint warranty certificate with the bid. Failure to do so will result in automatic rejection of the bidder's proposal.

Bid complies _____

Bid does not comply _____

The paint color is to be white.

Bid complies _____

Bid does not comply _____

PAINT CHASSIS WHEELS - Matte black

The OEM chassis outer wheels and spare, if provided, are to be painted as noted.

Bid complies _____

Bid does not comply _____

DIAMOND GRADE CHEVRON, REAR PANELS Red, Fluorescent Yellow/Green

Diamond grade chevron striping shall be installed on the panels surrounding the rear access doors on the rear body face inboard of the body corner posts.

Bid complies _____

Bid does not comply _____

DOOR PANEL CHEVRON, DIAMONDGRADE:

Install custom arrow shaped chevron on the center section of the entry panels. Colors: Red and White reflective.

CUSTOM LETTERING, SCOTCHLITE:

STREETSIDE – Printed Scotchlite stripe and lettering to match customer fleet unit 783

CURBSIDE - Printed Scotchlite stripe and lettering to match customer fleet unit 783

FRONT - Printed Scotchlite stripe and lettering to match customer fleet unit 783

REAR - Printed Scotchlite stripe and lettering to match customer fleet unit 783

CHASSIS - Printed Scotchlite stripe and lettering to match customer fleet unit 783

Bid complies _____

Bid does not comply _____

STAR OF LIFE, 8" - added to the body side graphics.

The bidder shall provide 'Star of Life' emblem(s) as noted above. The emblems shall be 12" blue Scotchlite with black shade and outline. A Mylar laminate shall be applied to the emblem's surface in order to protect against scuffing, and to provide added longevity. Emblems that do not have this protective covering are not acceptable.

Bid complies _____

Bid does not comply _____

Federal Lettering Package Installed

The successful bidder shall supply and install the entire Federal KKK ambulance lettering package as noted below. This package shall include:

(2) 4" Stars of Life (each side of cab hood)

(2) 12" Stars of Life (rear of body)

(2) 18" Stars of Life (each side of body)

(1) 36" Star of Life (module body roof)

(1) 4" Mirror image "AMBULANCE" (cab hood)

(3) 6" "AMBULANCE" (each side and rear of body)

The lettering shall be dark blue Scotchlite with black shade and outline. A Mylar laminate shall be applied to both the lettering and emblem surfaces in order to protect against scuffing and to provide added longevity. Emblems that do not have this protective covering are not acceptable.

Bid complies _____

Bid does not comply _____

ACCESS DOORS RED SCOTCHLITE STRIP

Red Scotchlite strips, measuring 2" x 12", shall be installed horizontally on the interior panels of all patient area access doors near the top.

Bid complies _____

Bid does not comply _____

BLACKOUT PACKAGE:

The following items are to be "Blacked Out" with Linex or powder coat:

- RUNNING BOARDS
- REAR RISER
- CORNER GUARDS
- SILL PLATES
- THRESHOLD
- STONE GUARDS
- REAR STEP/BUMPER
- STEEL UNDER THE REAR BUMPER, BUMPER BRACKETS
- Bid complies _____
- Bid does not comply _____

INTERIOR FEATURES

ACRYLIC COLOR: LIGHT TINT

All acrylic cabinet door material is to be the manufacturer's 'light tint'.

- Bid complies _____
- Bid does not comply _____

COUNTERTOP, MERAPI:

Include (1) Forward of CPR seat, (1) cabinet head of bench, Install solid surface countertop(s) in lieu of stainless steel. Material is to include radiused and tapered corners and is to have a polished finish. Color is to be Merapi. Locate as noted above.

- Bid complies _____
- Bid does not comply _____

PAINTED STANDARD INHALATION AREA WALLS

The walls surrounding the work areas within the main cabinet wall are to be painted to match the interior cabinet color.

- Bid complies _____
- Bid does not comply _____

INHALATION PANEL, LAMINATE COVERED

To prevent contamination of the inhalation panel the panel shall be fabricated using no wood or wood based products. The material used shall be an aluminum composite material. This material shall not absorb liquids and shall not attract bacteria, molds or fungi. The material is to be covered with Formica material in a color matching that required within this document.

- Bid complies _____
- Bid does not comply _____

LONSEAL LONPLATE II GUNMETAL #424

The patient area floor is to be covered in Lonplate II Gunmetal #424.

- Bid complies _____
- Bid does not comply _____

WILSONART GUNMETAL D355, RISERS

The risers are to be constructed without the use of wood, wood-based products, or any other organic material. The use of laminated structural composite material is required. The risers shall be finished with Wilsonart Gunmetal #D355 laminate.

- Bid complies _____
- Bid does not comply _____

LAMINATE COVERED LOWER DOOR PANELS

The lower portion of the patient area entry doors shall be covered with laminate material to match the color selection in the "Interior Colors" section of this specification.

Bid complies _____

Bid does not comply _____

WILSONART FASHION GRAY #D381, WALLS

The interior walls are to be constructed without the use of wood, wood-based products, or any other organic material. The use of laminated structural composite material is required. The walls shall be finished with Wilsonart Fashion Gray #D381 laminate. The finish in the areas surrounding the inhalation/CPR seat areas are detailed separately within this document.

Bid complies _____

Bid does not comply _____

FASHION GREY CABINET COLOR

All interior storage cabinets, including the interior of the squad bench, shall be painted for ease of cleaning. Under no circumstances shall carpet be used within these storage cabinets as it is impossible to decontaminate. The paint color is to be Fashion Grey. The paint shall be treated with an antimicrobial agent.

Bid complies _____

Bid does not comply _____

CABINET PAINT TO BE TEXTURED

The cabinet paint specified is to have a textured finish.

Bid complies _____

Bid does not comply _____

PRODIGY NU-RED VINYL COLOR

The patient area upholstery, including seat cushions, backrests and vinyl closeouts, is to be Prodigy Nu-Red in color.

Bid complies _____

Bid does not comply _____

STANDARD FIXED SEATBASE

An attendant's seat base shall be fabricated from aluminum and shall be installed in a position at the head of the cot. The base shall house the vehicle's heat/AC unit as described in that section of this specification. The material shall be perforated to promote airflow to the unit. The entire seating assembly, as described here, shall be subjected to a Hygee sled test of at least 30 G's to test the structural integrity of the design in order to assure a certain level of safety for the vehicle occupants. Swivel or aftermarket seatbases are not substitutes for this requirement.

Bid complies _____

Bid does not comply _____

STANDARD FIXED SEATBASE

An attendant's seat base shall be fabricated from aluminum and shall be installed in a position at the head of the cot. The base shall house the vehicle's heat/AC unit as described in that section of this specification. The material shall be perforated to promote airflow to the unit. The entire seating assembly, as described here, shall be subjected to a Hygee sled test of at least 30 G's to test the structural integrity of the design in order to assure a certain level of safety for the vehicle occupants. Swivel or aftermarket seat bases are not substitutes for this requirement.

Bid complies _____

Bid does not comply _____

USSC CHILD, BLACK 4-POINT, PROGIDY NU-RED:

Install a Nu-Red USSC high back bucket seat with integral child safety seat and black 4pt seatbelt with safety vest. The seat to be adjustable front to rear and is to be mounted at the head of the cot.

4 POINT SEAT BELT, CPR SEAT, BLACK

A 4-point seatbelt, black in color, shall be provided and installed at the CPR seat position. The belt shall include a 4 retractor system to allow all four belts to be fully retractable. The belt shall also include quick one click design for ease of use. The belt is to be outfitted with a removable vest designed to guide the belt into the proper position, prevent the buckle from moving up or down and side to side, and offer better support and comfort to the seat occupant. Installation hardware and wall anchorages are to have been tested and certified to meet all applicable requirements relative to occupant restraints.

Bid complies _____

Bid does not comply _____

ALUMINUM INTERIOR CABINETS

This specification requires an all-aluminum modular cabinet design. Aluminum, a minimum of .063" thickness, is required over wooden cabinetry due to its lighter weight, greater durability, and the ease with which it can be decontaminated. The main cabinet wall shall be of modular construction. All individual cabinets shall be of welded construction. Each modular cabinet shall then be bolted/welded together to comprise the main wall of cabinets inside the vehicle. All cabinets, including the main cabinet wall, shall be thoroughly insulated against noise and temperature. Each cabinet is to be wrapped on the back side in an insulating layer. Cabinets that are joined together shall also be insulated with expandable spray foam in between each cabinet. The face of all cabinets is to be trimmed in an aesthetically pleasing manner to match the patient compartment interior colors.

Bid complies _____

Bid does not comply _____

To insure the safety of patients and attendants in the rear of the vehicle, the main cabinet wall installation shall have been tested to a minimum frontal impact of 30 G's per the requirements of the Safety Certification section of this specification. The main cabinet wall may not be constructed of any wood or wood product. Wooden cabinetry can warp, expand, contract, splinter, separate, or crack. Wood will also harbor blood borne pathogens whereas aluminum can be easily cleaned. Aluminum will remain stable and securely mounted (no fibers to compress) over many years and miles of continuous service. For these reasons, wooden cabinets, even when laminated with another material, will not be acceptable. Bids received that utilize any material other than that which is specified above will be considered non-responsive and will be rejected without further consideration.

Bid complies _____

Bid does not comply _____

All of the aluminum cabinetry within the vehicle shall be of welded construction. Methods of cabinet construction that utilize rivets or adhesives of any type will not be considered.

Bid complies _____

Bid does not comply _____

The all-aluminum cabinet construction, as described within this section, shall be warranted against any structural defects for a period of time not less than 30 years. This warranty shall be stated within the manufacturer's structural warranty document, and shall not be subject to any mileage limitations.

Bid complies _____

Bid does not comply _____

TUBULAR AIRBAG, ATTENDANT'S SEAT

The vehicle shall be equipped with a tubular airbag to the right of the attendant's seat. The bag shall be triggered by an electronic roll sensor to inflate and protect the seat occupant against severe head strikes typical in a roll over collision. In addition to being field proven, the system shall have been developed using laboratory-controlled roll over testing. The testing must have been done on the manufacturer's specific ambulance body. Generic testing or "real world" scenarios do not suffice to meet this requirement. The system must be offered by the bidder as standard

equipment and must have been in production for a minimum of five (5) years. No prototype systems will be acceptable. There will be absolutely no exceptions taken to this requirement.

Bid complies _____

Bid does not comply _____

HEAD CURTAIN AIRBAG, ATTENDANT'S SEAT

The vehicle shall be equipped with a head curtain airbag to the right of the attendant's seat. The bag shall be triggered by an electronic roll sensor to inflate and protect the seat occupant against severe head strikes typical in a roll over collision. In addition to being field proven, the system shall have been developed using laboratory-controlled roll over testing. The testing must have been done on the manufacturer's specific ambulance body. Generic testing or "real world" scenarios do not suffice to meet this requirement. The system must be offered by the bidder as standard equipment and must have been in production for a minimum of five (5) years. No prototype systems will be acceptable. There will be absolutely no exceptions taken to this requirement.

Bid complies _____

Bid does not comply _____

ROLL SENSOR

The roll sensor used in conjunction with the specified airbag system is to be installed in the streetside (driver's side) intermediate compartment on the ceiling. Components are to be covered with a polished aluminum diamond plate closeout attached with tamper-proof screws.

Bid complies _____

Bid does not comply _____

TUBULAR AIRBAG, CPR SEAT LOCATION.

The vehicle shall be equipped with a tubular airbag forward of the CPR seat. The bag shall be triggered by an electronic roll sensor to inflate and protect the seat occupant against severe head strikes typical in a roll over collision. In addition to being field proven, the system shall have been developed using laboratory controlled roll over testing. The testing must have been done on the manufacturer's specific ambulance body. Generic testing or "real world" scenarios do not suffice to meet this requirement. The system must be offered by the bidder as standard equipment and must have been in production for a minimum of five (5) years. No prototype systems will be acceptable. There will be absolutely no exceptions taken to this requirement.

Bid complies _____

Bid does not comply _____

CABINET TRIM RADIUSED

The interior of the ambulance module shall have radius corner extrusions, wherever possible, to round off cabinet corners. The radius shall be a minimum of one and a half inches. The radius trim shall also include a removable cap that can be field replaced if damage occurs. No exceptions to this requirement are permissible.

Bid complies _____

Bid does not comply _____

TECHNIMOUNT LIFEPAK 15 SHELF MOUNTS -

Provide and ship loose (2) Technimount LP15 brackets, dealer to install prior to delivery.

Bid complies _____

Bid does not comply _____

IV HANGER, CP WITH RUBBER ARM COT WAIST

A Cast Products recessed swing-down IV hanger shall be installed above the primary cot position near the patient's waist area. This hanger is to be near flush mounted into the patient area ceiling to reduce interference with the walkway when not in use. The arms of the hanger shall be rubberized so as to reduce the possibility of injury that may occur if contact is made with them. This style IV hanger shall be sufficient to meet Federal KKK-1822-E.

Bid complies _____

Bid does not comply _____

IV HANGER, CP WITH RUBBER ARM COT FOOT per drawing

A Cast Products recessed swing-down IV hanger shall be installed above the primary cot position near the patient's foot area. This hanger is to be near flush mounted into the patient area ceiling to reduce interference with the walkway when not in use. The arms of the hanger shall be rubberized so as to reduce the possibility of injury that may occur if contact is made with them. This style IV hanger shall be sufficient to meet Federal KKK-1822-E.

Bid complies _____

Bid does not comply _____

GRAB RAIL: (2) 2FT RED, OVER COT Per Drawing

Install (2) 2' long grab rails offset toward the main cabinet wall over the cot position in the patient area ceiling. These rails are to be constructed of stainless steel. Integral stanchions shall be welded into place at fixed points along the length of each rail for attachment to the ceiling. The rails shall attach through aluminum mounting plates that are welded to the module roof structure for strength and durability. Because contamination occurs most often as a result of contact, this feature must be treated with an anti-microbial agent consisting of an inorganic ceramic coating embedded with silver ions. This coating shall be red in color and shall be effective against a broad range of microbes including bacteria, molds, algae and fungi. The coating shall be integral and shall not consist of an agent that will need to be reapplied over time.

Bid complies _____

Bid does not comply _____

GRAB RAIL: 6FT, RED, ANTI-MIC CENTER aisle side of the center ceiling plate

A 6' long grab rail shall be installed centered in the patient area ceiling. This rail is to be constructed of stainless steel. Integral stanchions shall be welded into place at fixed points along the length of the rail for attachment to the ceiling. The rail shall attach through aluminum mounting plates that are welded to the module roof structure for strength and durability. Because contamination occurs most often as a result of contact, this feature must be treated with an anti-microbial agent consisting of an inorganic ceramic coating embedded with silver ions. This coating shall be red in color and shall be effective against a broad range of microbes including bacteria, molds, algae and fungi. The coating shall be integral and shall not consist of an agent that will need to be reapplied over time.

Bid complies _____

Bid does not comply _____

VERTICAL RAIL, 2' RED ANTI-SLIP, BOLSTER

Install a 2' long grab rail on the left side of the side entry door on the squad bench bolster. Install at an angle to assist entry and exit through the side access door. This rail is to be constructed of stainless steel. Integral stanchions shall be welded into place at either end of the rail for attachment to the bolster. The rail shall attach through aluminum substructure inside the bolster for strength and durability. Because contamination occurs most often as a result of contact, this feature must be treated with an anti-microbial agent consisting of an inorganic ceramic coating embedded with silver ions. This coating shall be red in color and shall be effective against a broad range of microbes including bacteria, molds, algae and fungi. The coating shall be integral and shall not consist of an agent that will need to be reapplied over time. For enhanced grip the rail is to have a cross-hatched pattern cut into the stainless steel.

Bid complies _____

Bid does not comply _____

VERT GRAB RAIL, 2' RED ANTI-SLIP REAR DOORS

Install a 2' long grab rail just inside and to the right of the rear entry doors. Install vertically to assist entry and exit through the rear access doors. This rail is to be constructed of stainless steel. Integral stanchions shall be welded into place at either end of the rail for attachment to the cabinets and riser. The rail shall attach through aluminum substructure at the attachment point for strength and durability. Because contamination occurs most often as a result of contact, this feature must be treated with an anti-microbial agent consisting of an inorganic ceramic coating embedded with silver ions. This coating shall be red in color and shall be effective against a broad range of microbes including bacteria, molds, algae and fungi. The coating shall be integral and shall not consist of an agent that will need to be reapplied over time. For enhanced grip the rail is to have a cross-hatched pattern cut into the stainless steel.

Bid complies _____

Bid does not comply _____

PATIENT DOOR GRAB RAILS: RED/ANTI-SLIP

Angled door handles shall be installed on the interior door panels of each access door. The handles shall be one-piece and shall be constructed of stainless steel. The overall design shall incorporate a smooth radius to form a 'V' shape, but shall otherwise mimic the design and appearance of other grab rails specified to be installed on this vehicle. The handles shall feature smooth radius corners and flange mounts at each of three (3) attachment points per rail.

Because contamination occurs most often as a result of contact, this feature must be treated with an anti-microbial agent consisting of an inorganic ceramic coating embedded with silver ions. This coating shall be red in color and shall be effective against a broad range of microbes including bacteria, molds, algae and fungi. The coating shall be integral and shall not consist of an agent that will need to be reapplied over time. For enhanced grip the rail is to have a cross-hatched pattern cut into the stainless steel.

Bid complies _____

Bid does not comply _____

CEILING MATERIAL, PLATINUM WHITE COMPOSITE

The patient area ceiling shall be constructed of a bright white aluminum composite material consisting of a polyethylene core laminated between two sheets of coated aluminum. The headliner shall be smooth, impervious to moisture, easy to clean and durable. It shall have the same rate of expansion and contraction as the aluminum body. Headliner that is padded or upholstered in any way will not be considered, nor will any headliner made of wood or wood products due to the lower degree of durability and the risk of contamination inherent in such materials. Plastic, fiberglass or ABS headliner materials are not acceptable due to the cracking commonly caused by the differing rates of expansion. Lastly, the headliner material shall be treated with an antimicrobial agent.

Bid complies _____

Bid does not comply _____

STREETSIDE CABINERY**LINEN CABINET**

A vertical storage cabinet shall be located behind the attendant seat. The upper storage area shall house the primary electrical distribution area. The lower section shall be used for miscellaneous storage. Each area shall be accessed through hinged doors. The entire cabinet shall be fabricated from aluminum. The interior of the cabinet shall be painted and trimmed as described in the cabinet construction section of the specification.

Bid complies _____

Bid does not comply _____

FIXED SHELF, UPPER LINEN CLOSET

The upper section of the linen cabinet shall include a fixed aluminum shelf with 1" integral retaining lips around its perimeter. The shelf is to be painted to match the interior of the cabinet.

Bid complies _____

Bid does not comply _____

ADJUSTABLE SHELF MIDDLE 1 LINEN CLOSET

The middle section of the linen cabinet shall include an adjustable aluminum shelf with 1" integral retaining lips around its perimeter. The shelf is to attach to four (4) tracks installed on each the right and left hand walls, two (2) per side. The shelf is to be painted to match the interior of the cabinet.

Bid complies _____

Bid does not comply _____

ADJUSTABLE SHELF LOWER LINEN CLOSET

The lower section of the linen cabinet shall include an adjustable aluminum shelf with 1" integral retaining lips around its perimeter. The shelf is to attach to four (4) tracks installed on each the right and left hand walls, two (2) per side. The shelf is to be painted to match the interior of the cabinet.

Bid complies _____

Bid does not comply _____

SOLID LAMINATE-COVERED LINEN CLOSET DOOR

The linen cabinet is to include solid vertically hinged doors. The door construction is to utilize aluminum composite material that is laminated with a color coordinating outer layer on its face. Doors constructed of wood or any other type of organic material will not suffice to comply with this requirement due to the danger of contamination, rotting, compression at the attachment points which could lead to loosening and rattling, and the weaker structural characteristics inherent in such materials.

Bid complies _____

Bid does not comply _____

PIANO HINGE FOR LINEN CLOSET TOP DOOR

The upper section of the linen cabinet shall include piano style hinge.

Bid complies _____

Bid does not comply _____

PIANO HINGE FOR LINEN CLOSET LOWER DOOR

The lower section of the linen cabinet shall include piano style hinge.

Bid complies _____

Bid does not comply _____

LOCKING SOUTHCO LATCH, UPPER LINEN, CHANGE 10

The upper linen cabinet door is to utilize a locking Southco HD Stainless Steel flush-style latch. The latch shall feature a recessed pull ring style handle. The latch shall be both positive (mechanical latching) and passive (latches automatically) and is to be Change Notice 10 compliant with a weight rating of 25lbs.

Bid complies _____

Bid does not comply _____

SOUTHCO LATCH, LOWER LINEN, CHANGE 10

The lower linen cabinet door is to utilize a Southco Stainless Steel flush-style latch. The latch shall feature a recessed pull ring style handle. The latch shall be both positive (mechanical latching) and passive (latches automatically) and is to be Change Notice 10 compliant with a weight rating of 25lbs.

Bid complies _____

Bid does not comply _____

STREETSIDE WALL WITH CPR SEAT

The main cabinet wall inside the patient compartment is to be designed per the requirements of this document and shall include a CPR seat.

Bid complies _____
 Bid does not comply _____

CPR SEAT, 48" WIDTH:

Streetside CPR seat width to be 48". CPR seat space to be 48"W. Locate restraint the same location as 36"W CPR seat. The remaining space rear of restraint is a non-seating area.

Bid complies _____
 Bid does not comply _____

ANGLED UPPER CABINET, FORWARD OF CPR SEAT

The upper cabinet, forward of the CPR seat, is to be angled. The cabinet is to be Change Notice 10 compliant and is to include a .25" aluminum hinged door with a steel catch.

Bid complies _____
 Bid does not comply _____

CUSTOM CABINET, Cabinet 1 Dimensions: - I/O ACCESS - Location: Lower rear main wall

The cabinet designated as 'Cabinet #1' is to meet all applicable specifications regarding cabinet materials and construction listed throughout this document. The cabinet dimensions are to be as noted above. Note that these dimensions represent the measurements on the inside of the cabinet and do not include any trim required for doors or cabinet faces.

Bid complies _____
 Bid does not comply _____

PASS-THROUGH, STREETSIDE REAR

An inside/outside dual access storage area shall be provided into the streetside rear compartment. This area shall be trimmed around the opening and is to be accessible through both an exterior compartment door, and an interior cabinet door.

Bid complies _____
 Bid does not comply _____

SOLID HINGED/ACRYLIC DOUBLE DOORS Cabinet 1

The cabinet notated above is to include two solid vertically hinged doors. The door construction is to utilize aluminum composite material that is laminated with a color coordinating outer layer on its face. Doors constructed of wood or any other type of organic material will not suffice to comply with this requirement due to the danger of contamination, rotting, compression at the attachment points which could lead to loosening and rattling, and the weaker structural characteristics inherent in such materials. The doors are to include acrylic windows to allow for an unobstructed view into the cabinet.

Bid complies _____
 Bid does not comply _____

SOUTHCO SS PULL STYLE LATCH Cabinet 1

The hinged doors on the cabinet noted above are to utilize Southco Stainless Steel flush-style latches. These latches shall feature recessed pull ring style handles. The latches shall be both positive (mechanical latching) and passive (latches automatically).

Bid complies _____
 Bid does not comply _____

PIANO STYLE HINGE Cabinet 1

The cabinet designated cabinet #1 shall include piano style hinge.

Bid complies _____

Bid does not comply _____

CUSTOM CABINET, Cabinet 2 Dimensions: 18.75"H x 30.5"W x 16"D - Location: Upper Rear Main Wall

The cabinet designated as 'Cabinet #2' is to meet all applicable specifications regarding cabinet materials and construction listed throughout this document. The cabinet dimensions are to be as noted above. Note that these dimensions represent the measurements on the inside of the cabinet and do not include any trim required for doors or cabinet faces.

Bid complies _____

Bid does not comply _____

POLYCARBONATE SLIDING, CHANGE 10, CABINET 2

The cabinet notated above is to include sliding polycarbonate doors. The door frame is to be designed with an integral groove that incorporates a Nylon/felt insert that allows for smooth and rattle-free operation. A manually operated latch shall be incorporated into the face of the door to prevent unintended opening of the doors in compliance with Change Notice 10 requirements. Designs that do not comply with this section will not be accepted.

Bid complies _____

Bid does not comply _____

LIFT UP CABINET FRAMES INTERIOR Cabinet 2

The specified sliding cabinet doors on the cabinet referenced above shall feature a flip-up restocking style door frame. The frame, in which the sliding doors are installed, is to include a piano style hinge to provide a larger clear opening for ease of restocking supplies and cleaning. This feature is in addition to the normal sliding mode of operation. The door frame shall be held in the "open" position with two gas-charged cylinders, and in the down position with two vertical sliding dead bolt type latches that fasten through the floor of the cabinet. The opening that the bolts slide into shall include a stainless trim plate. The latches must meet Change Notice 10 requirements. The remainder of the door construction shall adhere to the appropriate section of this specification.

Bid complies _____

Bid does not comply _____

INTERIOR ADJUSTABLE SHELVING, Cabinet 2

Cabinet #2 shall include an adjustable aluminum shelf with 1" integral retaining lips around its perimeter. The shelf is to attach to four (4) tracks installed on each the right and left hand walls, two (2) per side. The shelf is to be painted to match the interior of the cabinet.

Bid complies _____

Bid does not comply _____

LIFT UP CABINET FRAMES, UPPER INHALATION CABINET

The specified sliding cabinet doors on the cabinet referenced above shall feature a flip-up restocking style door frame. The frame, in which the sliding doors are installed, is to include a piano style hinge to provide a larger clear opening for ease of restocking supplies and cleaning. This feature is in addition to the normal sliding mode of operation. The door frame shall be held in the "open" position with two gas-charged cylinders, and in the down position with two vertical sliding dead bolt type latches that fasten through the floor of the cabinet. The opening that the bolts slide into shall include a stainless trim plate. The latches must meet Change Notice 10 requirements. The remainder of the door construction shall adhere to the appropriate section of this specification.

Bid complies _____

Bid does not comply _____

UPPER INHALATION CABINET 12.75"H x 40.75"W x 16"D

The cabinet located above the main inhalation/action area is to meet all applicable specifications regarding cabinet materials and construction listed throughout this document. The cabinet dimensions are to be as noted above. Note

that these dimensions represent the measurements on the inside of the cabinet and do not include any trim required for doors or cabinet faces.

Bid complies _____

Bid does not comply _____

POLYCARBONATE SLIDING, UPPER INHALATION, CHANGE 10

The cabinet above the inhalation area is to include sliding polycarbonate doors. The door frame is to be designed with an integral groove that incorporates a Nylon/felt insert that allows for smooth and rattle-free operation. A manually operated latch shall be incorporated into the face of the door to prevent unintended opening of the doors in compliance with Change Notice 10 requirements. Designs that do not comply with this section will not be accepted.

Bid complies _____

Bid does not comply _____

INTERIOR SHELVING, UPPER INHALATION CABINET

The upper inhalation cabinet, above the main action area, shall include an adjustable aluminum shelf with 1" integral retaining lips around its perimeter. The shelf is to attach to four (4) tracks installed on each the right and left hand walls, two (2) per side. The shelf is to be painted to match the interior of the cabinet.

Bid complies _____

Bid does not comply _____

CABINET IN THE INHALATION AREA:

Install a custom cabinet at the forward end of the inhalation area. Cabinet is to be Full Height x 22.75"W x 10"D ID. Include (2) acrylic doors, Southco pull latches, self-closing hinges and (1) adjustable shelf. Reference #20073.

Bid complies _____

Bid does not comply _____

TRASH STORAGE CABINET

Install an insert cabinet just forward of the CPR seat, under the inhalation area counter top. Sized to fit customer supplied waste can. Include a flush fit, hinged, half height door with a Southco slam latch

Bid complies _____

Bid does not comply _____

RECESSED ASPIRATOR CABINET

Storage for the vehicle aspirator shall be provided in a recessed pocket in the riser below the inhalation area counter top, forward of the trash storage cabinet. The cabinet is to have a half height Plexiglas door with Southco slam latch. The pocket will be trimmed in diamond plate aluminum inside the exterior compartment.

Bid complies _____

Bid does not comply _____

CURBSIDE CABINETRY

CABINET ABOVE CRASH BARRIER COMPARTMENT:

Supply and install a cabinet above the crash barrier at the head of the bench. Cabinet is to include sliding acrylic doors. The angled section of the overhead cabinet is to have a left side hinged Plexiglas door with a Southco slam latch.

LASER ETCHING: Laser etch the following text into the left side sliding door: SERVICE: Dealer Name, Dealer Phone No., and Production No. NOTE: MUST MAINTAIN 24" OF CLEAR Space

Bid complies _____

Bid does not comply _____

GLOVE BOX STORAGE, BENCH WALL:

Install a horizontal glove box cabinet with a top hinged acrylic door, Southco latch, and self-closing hinges for storing 3 glove boxes stored vertically. Door to have a single access hole cut into it to access all 3 boxes.

Locate: Install close to the side entry jam, above the crash barrier.

Bid complies _____

Bid does not comply _____

DRAWER, HEAD OF BENCH CRASH BARRIER:

Install one (1) pull out drawer to the crash barrier comp. Drawer to open towards sliding USSC seat. Flush fit aluminum face, lock-out drawer slides, Acrylic writing surface hinged on the forward edge, Southco slam latch, 3”h ID x full width

Bid complies _____

Bid does not comply _____

CURBSIDE WALL CONFIGURATION

The interior design of the vehicle shall not incorporate a squad bench.

Bid complies _____

Bid does not comply _____

CARGO NET, CRASH BARRIER I/O:

The crash barrier compartment is to have an aisle facing I/O covered cargo net with metal seat belt buckles. Make opening as close to interior floor level as possible.

Bid complies _____

Bid does not comply _____

48" MOBILITY TRACK AND SEAT:

Install a 48" USSC seat track to mount the curbside bucket seat on to. This will allow the seat to swivel to be a forward facing seat. USSC SEAT, BLACK 4-POINT, SWIVEL, PRODIGY NU-RED. Install a Nu-Red USSC high back bucket seat black integral 4pt seatbelt with safety vest. The seat to be installed on a swivel mount on the bench side.

Bid complies _____

Bid does not comply _____

S/W, DROP-IN AT HEAD OF BENCH.

A cabinet shall be installed in the head end of the bench for sharps/waste containers. The lid for the cabinet will have a hinge down flap for disposal of trash. The drop in sharps waste at the head of bench area is to be made approximately 4" taller to accommodate customer supplied sharps and waste containers. There will also be a 3 box glove storage area built into this cabinet in front of the sharps container. See drawing for clarification.

Bid complies _____

Bid does not comply _____

BENCH CABINET, HINGED DOORS

A cabinet shall be installed at ceiling level over the full length of the squad bench. This cabinet is to be fabricated from .063" 5052-H32 welded aluminum. The interior of the cabinet shall be painted per the cabinet construction description listed elsewhere within this specification. The cabinet is to be accessed through hinged 3/8" acrylic doors that are held in the 'open' position by gas piston hold-open devices. This cabinet is to be a maximum of 9" H to allow enough clearance between the bottom of the cabinet and the top of the seat below to meet KKK-F requirements.

Bid complies _____

Bid does not comply _____

SOUTHCO LATCH OVERHEAD BENCH CABINET

The hinged doors on the bench ceiling cabinet are to utilize Southco Stainless Steel flush-style latches. These latches shall feature recessed pull ring style handles. The latches shall be both positive (mechanical latching) and passive (latches automatically).

Bid complies _____

Bid does not comply _____

COMPRESSION HINGES, OVERHEAD BENCH CABINET

The cabinet above the squad bench/curbside seating area shall include compression style hinges.

Bid complies _____

Bid does not comply _____

DRAWER, FOOT OF BENCH:

Install a pull out drawer at the foot of the bench that is recessed into the curbside rear comp. Drawer to be 4"H x 12"W x 14"Dp. Drawer to have a flush fit aluminum drawer face with a stainless steel slam latch. Bottom of the closeout in the curbside rear compartment must be 40" above the floor for stair chair storage below it.

Bid complies _____

Bid does not comply _____

CABINET AT FOOT OF BENCH:

Supply and install an aluminum cabinet at the foot of bench above drawer. Cabinet to be 13.75"W x 13"H x 11"Dp ID. Cabinet to be recessed into the curbside rear compartment. Cabinet to have mini-struts for (1) adjustable shelf. Cabinet to include (2) equal sized acrylic doors with stainless steel slam latches and self-closing hinges.

Bid complies _____

Bid does not comply _____

DEALER SUPPLIED KNOX BOX:

Install a dealer supplied Knox Med Vault above the cabinet at the foot of bench (see photo in file). Med Vault model #5230S3K will come with aux whip antenna to be installed on roof directly above the Med Vault. Subscription to of one year to be included in bid price.

Bid complies _____

Bid does not comply _____

CONTROL PANEL, BENCH WALL, ANGLED, HEAD:

Relocate the rear switch panel in the specified angled housing below the forward portion of the bench ceiling cabinet. Program the panel accordingly.

Bid complies _____

Bid does not comply _____

ANGLED HOUSING OVER HEAD OF BENCH

An angled housing shall be installed just below the forward portion of the bench ceiling cabinet. The housing shall provide an installation location for an additional or relocated rear electrical control panel.

Bid complies _____

Bid does not comply _____

FRONT WALL CABINETRY

CAB TO MODULE PASSTHROUGH WINDOW

A sliding pass-through window shall be provided between the cab and the patient compartment. The window shall include a latch to secure the window in the 'closed' position.

Bid complies _____

Bid does not comply _____

COT MOUNT**STRYKER POWER LOAD, CENTERED Cot Type: Stryker Power Pro II XT**

The bidder shall supply and install a Stryker Power Load system in the completed vehicle. The mount shall be located in the center position.

Bid complies _____

Bid does not comply _____

STRYKER POWER PRO II:

Provide a new Stryker Power Pro II model 6507 High Configuration cot in the completed vehicle.

Bid complies _____

Bid does not comply _____

STRYKER STAIR CHAIR

Provide a new Stryker Stair-Pro model 6252 stair chair in the completed vehicle

Bid complies _____

Bid does not comply _____

VISUAL WARNING**TRAFFIC EMITTER 794H, BEZEL**

The bidder is to supply and install a GTT 794H traffic emitter. Install on the front face of the body without obstruction recessed into a 798 housing. Provide an activation switch in the front control panel and wire so that the unit will not operate unless the emergency lighting circuit is activated and the vehicle is in gear.

Bid complies _____

Bid does not comply _____

M7 RED/CLEAR LENS Over rear wheel wells

Whelen M7 series LED lighting shall be installed as noted. Lighting is to be red with clear lens and is to include the black flange. The lighting shall mount using threaded nylon inserts providing separation between the mounting hardware and the vehicle body. A switch shall be provided in the front control panel to change flash patterns on the specified lighting.

Bid complies _____

Bid does not comply _____

M9 White Clear Lens Front Center KKK

A Whelen M9 series LED light shall be installed centered on the upper front face of the body. The light is to be white with a clear lens and is to include the black flange. The light shall mount using threaded nylon inserts providing separation between the mounting hardware and the vehicle body. A switch shall be provided in the front control panel to change flash patterns on the specified lighting.

Bid complies _____

Bid does not comply _____

M7 Amber/Clear Lens Rear Center KKK

A Whelen M7 series LED light shall be installed centered on the upper rear face of the body above the rear doors. The light is to be amber with a clear lens and is to include the black flange. The light shall mount using threaded nylon inserts providing separation between the mounting hardware and the vehicle body. A switch shall be provided in the front control panel to change flash patterns on the specified lighting.

Bid complies _____

Bid does not comply _____

M9 RED/CLEAR LENS Front body face, (3) each side of center white

Whelen M9 series LED lighting shall be installed as noted. Lighting is to be red with clear lens and is to include the black flange. The lighting shall mount using threaded nylon inserts providing separation between the mounting hardware and the vehicle body. A switch shall be provided in the front control panel to change flash patterns on the specified lighting.

Bid complies _____

Bid does not comply _____

M9 RED/CLEAR LENS Streetside and curbside upper corners

Whelen M9 series LED lighting shall be installed as noted. Lighting is to be red with clear lens and is to include the black flange. The lighting shall mount using threaded nylon inserts providing separation between the mounting hardware and the vehicle body. A switch shall be provided in the front control panel to change flash patterns on the specified lighting.

Bid complies _____

Bid does not comply _____

M9 RED/CLEAR LENS Rear face upper corners and window level

Whelen M9 series LED lighting shall be installed as noted. Lighting is to be red with clear lens and is to include the black flange. The lighting shall mount using threaded nylon inserts providing separation between the mounting hardware and the vehicle body. A switch shall be provided in the front control panel to change flash patterns on the specified lighting.

Bid complies _____

Bid does not comply _____

FLASH PATTERN, DEMO A, B, C, D:

Program the emergency lighting flash pattern to Demo A/B/C/D. The flash pattern to change to single flash 80FPM when in secondary mode.

Bid complies _____

Bid does not comply _____

RED/CLEAR LENS 500 LED GRILLE, TOP

Whelen 500 series LED lights shall be installed in the upper portion of the chassis grille. Lights are to be red with clear lenses. Include Black Flange.

Bid complies _____

Bid does not comply _____

RED/CLEAR LENS M4 LED INT. LIGHTS

Whelen M4 series LED lights shall be installed as intersection lights on each side of the chassis. Lights are to be red with clear lenses and are to include black flanges. A switch shall be provided in the front control panel to change flash patterns on the specified lighting.

Bid complies _____

Bid does not comply _____

HOOD FLASHERS

Install Whelen ION red LED flashers on the edge of chassis hood near windshield. Use Whelen bracket to clip on. Lights to flash in primary and secondary mode.

Bid complies _____

Bid does not comply _____

AUDIBLE WARNING

SIREN, WHELEN 295SLSA1 T1 - Wail T2 - Yelp T3 - Piercer

The vehicle is to be equipped with a Whelen 295SLSA1 siren installed in the front console.

Bid complies _____

Bid does not comply _____

SIREN, WHELEN HOWLER, RAM

The vehicle is to be equipped with a Whelen Howler low frequency siren.

Bid complies _____

Bid does not comply _____

SIREN SPEAKERS:

Install Federal Signal ES100 siren speakers in outside corners of the Truck Defender front bumper.

Bid complies _____

Bid does not comply _____

NON-EMERGENCY LIGHTING

KKK SIDE BODY MARKER LIGHTS, M6 SERIES LED (PAIR)

One Whelen red M6 Series LED light with a red lens and a black flange shall be installed on each side of the vehicle towards the rear of the body. These lights shall function as both running lights and turn signals.

Bid complies _____

Bid does not comply _____

LED EXTERIOR COMPARTMENT LIGHTING

The compartment lighting for the exterior compartments noted above, with the exception of any specified wheelwell compartments, shall consist of full available height LED lighting strips. Strips of LED lights shall be installed on each side of the compartment opening on the inside of the door jamb and shall direct the light back into the compartment. These light strips shall fit securely into clips installed in this location. These strips shall be semi rigid. Please note that rope lighting is not an acceptable alternative to this requirement.

Bid complies _____

Bid does not comply _____

TRAFFIC ADVISOR

The bidder shall install amber LED lights across the full width of the upper rear roof post of the vehicle above the rear doors. The lights are to be a rolled design to conform to the contour of the upper roof post. The lights are to be a surface mount design. Lights that must be recessed into the body are unacceptable due to the weakening of the body structure caused by cutting into the extrusions. The contour of the lights shall be such that there shall be visibility from the above as well as the rear of the vehicle. The lights shall be programmed to operate as a traffic advisor with left, right and center-out functionality. Control is to be provided through the front main control panel. Add-on traffic advisor lightbars and systems that require a separate control head will not be acceptable.

Bid complies _____

Bid does not comply _____

ROLLED ICC MARKER LIGHTS

The bidder shall install LED marker/ICC lights as required by FMVSS regulations. The lights are to be a rolled design to conform to the contour of the upper roof posts of the body front and rear. The lights are to be a surface mount design. Lights that must be recessed into the body are unacceptable due to the weakening of the body structure caused by cutting into the extrusions. The contour of the lights shall be such that there shall be visibility from the above as well as the front and rear of the vehicle. Exceptions to this requirement will only be allowed is ICC marker lights are included on another piece of specified equipment such as a lightbar.

Bid complies _____

Bid does not comply _____

M9 SERIES LED SCENE LIGHT, STREETSIDE FRONT

A Whelen M9 LED scene light with black flange shall be installed on the streetside of the module body in the forward position. This light shall be activated by right and left side switches located within the front electrical control panel. Additional means of activation, if any, are listed in the electrical section of these specifications.

Bid complies _____

Bid does not comply _____

M9 SERIES LED SCENE LIGHT, STREETSIDE REAR

A Whelen M9 LED scene light with black flange shall be installed on the streetside of the module body in the rear position. This light shall be activated by right and left side switches located within the front electrical control panel. Additional means of activation, if any, are listed in the electrical section of these specifications.

Bid complies _____

Bid does not comply _____

M9 SERIES LED SCENE LIGHT, CURBSIDE FRONT

A Whelen M9 LED scene light with black flange shall be installed on the curbside of the module body in the forward position. This light shall be activated by right and left side switches located within the front electrical control panel. Additional means of activation, if any, are listed in the electrical section of these specifications.

Bid complies _____

Bid does not comply _____

M9 SERIES LED SCENE LIGHT, CURBSIDE REAR

A Whelen M9 LED scene light with black flange shall be installed on the curbside of the module body in the rear position. This light shall be activated by right and left side switches located within the front electrical control panel. Additional means of activation, if any, are listed in the electrical section of these specifications.

Bid complies _____

Bid does not comply _____

LOAD LIGHTS, M9 SERIES LED

New model Whelen M9, dimmable, LED load lights (2) with black flanges shall be installed on the rear of the module body above the entry doors. These lights shall be activated by a switch located within the front electrical control panel or by opening of the right rear entry door. The lights are to be activated at 50% power when the rear doors are opened. Additional means of activation, if any, are listed in the electrical section of these specifications.

Bid complies _____

Bid does not comply _____

Running Board Flasher/Step Light

Install a red/white LED strip light in running board under the chassis rocker panel. Lights to flash in emergency mode. White to steady burn when chassis door is open to illuminate the running board. White is to also activate with Scene lights.

Bid complies _____

Bid does not comply _____

ENTRY DOOR WARNING LIGHTS, M4V2 LED

Install a Whelen M4V2 amber flasher centered at the bottom of all 3 access doors. Flasher and scene lights to activate when doors are open and battery switch is on. Include a M4FB black flange.

Bid complies _____

Bid does not comply _____

AMBER WARNING LIGHT, TOP, STREETSIDE FRONT

A 12" LED light strip shall be installed on the upper portion of the streetside forward compartment inner door panel. The light strip shall be amber in color. The light shall have optics integral to the lens for maximum light disbursement. When mounted the lens shall be near flush with the door panel. The light strip shall flash when the compartment door is open, and the emergency lighting is activated. The lens shall be designed to provide a bright and intense light from a distance. As distance is decreased the light shall become less intense, preserving night time visibility for people working near the vehicle. LED lamps shall be used due to their "cold" operating temperature, low amp requirement, and long life expectancy. The lighting is intended to provide additional warning to traffic and pedestrians of open compartment doors, and to provide additional safety for the crew.

Bid complies _____

Bid does not comply _____

AMBER WARNING LIGHT, TOP, STREETSIDE INTERMEDIATE

A 12" LED light strip shall be installed on the upper portion of the streetside intermediate compartment inner door panel. The light strip shall be amber in color. The light shall have optics integral to the lens for maximum light disbursement. When mounted the lens shall be near flush with the door panel. The light strip shall flash when the compartment door is open, and the emergency lighting is activated. The lens shall be designed to provide a bright and intense light from a distance. As distance is decreased the light shall become less intense, preserving night time visibility for people working near the vehicle. LED lamps shall be used due to their "cold" operating temperature, low amp requirement, and long life expectancy. The lighting is intended to provide additional warning to traffic and pedestrians of open compartment doors, and to provide additional safety for the crew.

Bid complies _____

Bid does not comply _____

AMBER WARNING LIGHT, TOP, STREETSIDE REAR

A 12" LED light strip shall be installed on the upper portion of the streetside rear compartment inner door panel. The light strip shall be amber in color. The light shall have optics integral to the lens for maximum light disbursement. When mounted the lens shall be near flush with the door panel. The light strip shall flash when the compartment door is open, and the emergency lighting is activated. The lens shall be designed to provide a bright and intense light from a distance. As distance is decreased the light shall become less intense, preserving night time visibility for people working near the vehicle. LED lamps shall be used due to their "cold" operating temperature, low amp requirement, and long life expectancy. The lighting is intended to provide additional warning to traffic and pedestrians of open compartment doors, and to provide additional safety for the crew.

Bid complies _____

Bid does not comply _____

AMBER WARNING LIGHT, TOP, CURBSIDE FRONT

A 12" LED light strip shall be installed on the upper portion of the curbside forward compartment inner door panel. The light strip shall be amber in color. The light shall have optics integral to the lens for maximum light disbursement. When mounted the lens shall be near flush with the door panel. The light strip shall flash when the compartment door is open, and the emergency lighting is activated. The lens shall be designed to provide a bright and intense light from a distance. As distance is decreased the light shall become less intense, preserving night time visibility for people working near the vehicle. LED lamps shall be used due to their "cold" operating temperature, low amp requirement, and long life expectancy. The lighting is intended to provide additional warning to traffic and pedestrians of open compartment doors, and to provide additional safety for the crew.

Bid complies _____

Bid does not comply _____

AMBER WARNING LIGHT, TOP, CURBSIDE REAR

A 12" LED light strip shall be installed on the upper portion of the curbside rear compartment inner door panel. The light strip shall be amber in color. The light shall have optics integral to the lens for maximum light disbursement. When mounted the lens shall be near flush with the door panel. The light strip shall flash when the compartment door is open, and the emergency lighting is activated. The lens shall be designed to provide a bright and intense light from a distance. As distance is decreased the light shall become less intense, preserving night time visibility for people working near the vehicle. LED lamps shall be used due to their "cold" operating temperature, low amp requirement, and long life expectancy. The lighting is intended to provide additional warning to traffic and pedestrians of open compartment doors, and to provide additional safety for the crew.

Bid complies _____

Bid does not comply _____

TAIL LIGHTS, M6 SERIES, VERTICAL MOUNT

Whelen M6 series LED stop/tail, turn, and reverse lights are to be installed on the rear of the vehicle. The lights are to be located vertically in the rear body panels, above the rear riser, to either side of the rear access doors. All lights are to include chrome flanges.

Bid complies _____

Bid does not comply _____

ARROW LIGHTS M6 SERIES LED, FRONT

Whelen M6 series LED turn signals (2) shall be installed on the front face of the body below the outboard emergency lighting, (1) per side. Lighting is to include the chrome flange. The lighting shall mount using threaded nylon inserts providing separation between the mounting hardware and the vehicle body.

Bid complies _____

Bid does not comply _____

ELECTRICAL**WARNING/CORNERING LIGHTS:**

Install additional warning lights on the angled portion of front bumper. Lights will be Whelen M6V2. Red portion to flash with emergency lights. The white section to steady burn when the respective turn signal is activated. Install (2) Whelen M4 RED flashers to be mounted on the vertical portion of bumper aimed outboard into traffic. Program the reds to flash both pri/sec mode. Include black flanges for all lights

Bid complies _____

Bid does not comply _____

BROW LIGHT:

Install a Rigid Industries E Series Pro 20" Spot/Flood Combo LED brow light. Locate on the front face of body above white M9 flasher. Program a switch in the front panel to activate.

Bid complies _____

Bid does not comply _____

DRIVER INTENTION LIGHTS, REAR CLOSE OUT:

Install (3) Whelen OS series LED lights over the rear doors in the patient area with removable panel. (2) amber with (1) red in the center mounted horizontally. Wire the ambers to their respective turn signals and the red to the brake lights.

Bid complies _____

Bid does not comply _____

Auxiliary Door Open Warning Light

Install a red Whelen OS series flasher on the front console that will flash when a comp/access door is open and the transmission is placed into gear.

Bid complies _____

Bid does not comply _____

ELECTRIC DOOR LOCKS COMPARTMENT EXTERIOR

Power activated door locks shall be installed on compartment doors. Locks shall be activated by switches located at each patient area access door, or via other means as may be specified within this document. Locks may be overridden by the door key.

Bid complies _____

Bid does not comply _____

ELECTRIC DOOR LOCKS ACCESS DOORS INTERIOR

Power activated door locks shall be installed on patient area access doors. Locks shall be activated by switches located at each patient area access door. Locks may be overridden by a manual slide lever or by the door key.

Bid complies _____

Bid does not comply _____

ELECTRIC DOOR LOCKS WIRED TO OEM SWITCHES

The converter-added power door locks are to be wired through the OEM chassis door lock switches.

Bid complies _____

Bid does not comply _____

ELECTRIC DOOR LOCKS CONCEALED IN GRILLE

A concealed weatherproof switch shall be installed in the chassis grille to operate the specified power door locks. The switch shall be wired to unlock only.

Bid complies _____

Bid does not comply _____

ELECTRICAL SYSTEM

The electrical control system must meet all current ambulance design standards to include, KKK 1822, NFPA 1917, CASS and AMD. A system is desired that is easy to use, simple in design and allows electrical problem diagnosis and repair time to be minimized. The electrical system must be thoroughly engineered and manufactured to allow simple personnel operation. Finally, the system must be designed so that the probability of experiencing dead batteries, shorted electrical components and engaging in lengthy troubleshooting procedures will be reduced. In some cases the electrical output provided by the chassis charging system can be marginal and under certain circumstances the electrical load can exceed the alternator output. In addition, some electrical systems have not provided proper circuit

protection and at times have not provided adequate wiring for the load. To address the above objectives, the following minimum electrical system design is required:

Chassis Charging Enhancement

The basic design for the chassis electrical output system must include equipment that provides adequate electrical needs to operate the vehicle's electrical components. In addition, a system is desired that continually monitors the chassis voltage and amperage outputs. The end result of the desired electrical output system is longer battery life, less down time associated with charging system repairs, and the fulfillment of each and every emergency response.

Bid complies _____

Bid does not comply _____

Battery Activation

Switching for battery power to the ambulance systems, either On or Off, shall be furnished as outlined elsewhere within this document. The battery switch shall not disconnect power to the OEM chassis systems.

Automatic Throttle Advance

In order to reduce the number of component parts and unnecessary throttle linkages, the factory electronic throttle control shall be utilized to activate the throttle advance system. The controls shall require that the chassis be placed in Park or Neutral with the Module Disconnect switch in the On position and the Park Brake engaged before activation of the throttle advance. A digital display warning on the driver console, accompanied by an audible tone, must instruct the driver to Set Park Brake or Release Park Brake to engage or disengage the automatic throttle control. No exceptions to these requirements will be accepted.

Bid complies _____

Bid does not comply _____

Automatic Load Management

In order to insure that onboard personnel attention is focused on patient care rather than being occupied with monitoring vehicle systems, an automatic load management system is required. The bidder must provide a system that continually monitors the vehicles charging system while it is sitting on scene. The system design shall have the ability to automatically shut down not less than ten pre-programmed electrical circuits to prevent a deficit charging condition while the vehicle is sitting at idle. The system shall be programmed to constantly scan the electrical system. If a deficit charging condition continues for more than one minute, a pre-programmed circuit shall shut down, correspondingly reducing the electrical draw. If the deficit condition continues, a second circuit shall automatically shut down. This process shall continue to repeat at one-minute intervals until at least ten circuits are shut down with corresponding load reductions.

Bid complies _____

Bid does not comply _____

In the event any circuits are being controlled (disabled) by the load management system, the driver must be informed. A digital display warning shall appear on the driver information panel indicating Load Management Active.

Bid complies _____

Bid does not comply _____

Load management systems must be programmed through a microprocessor based logic and memory system rather than a series of mechanical relays. Systems that require manual activation of Load Management will not be acceptable. Once the deficit condition ceases to exist, the system must be capable of restarting any disabled circuit without any action required by the driver.

Bid complies _____

Bid does not comply _____

The bidder is required to furnish a system that permits the end user to determine. prior to production, the order of priority for shedding loads. Although the entire system must function automatically, it must also be designed so that it can be set by the end user to a mode for restocking, training, or maintenance convenience. The System Off setting shall default to 'on' with system power rest.

Bid complies _____

Bid does not comply _____

Low Amperage Switching

Electrical devices that are not activated automatically shall be controlled from either the cab or patient area control panels through the use of manual low amperage switches in conjunction with a programmed touch screen. Switches that are rocker style will not be acceptable due to their tendency to degrade and fail in continued field use. To eliminate loose or poor contacts, it is unacceptable to have soldered or terminal type connections for the switches. The switches must be integral to the panels.

Bid complies _____

Bid does not comply _____

Switch Indicators

All manually activated switches on the panels described below shall be programmed to change color when the circuit is active. The switch lighting must be LED.

Bid complies _____

Bid does not comply _____

Switch Panel Design

Both the driver and the patient area switch panels must be designed so they can be easily decontaminated. The panels must be sealed so as to prevent contaminants from leaching into crevices, underneath switches, etc. There shall be no printing or labeling on the face of the overlay material. The panels must be cleanable using any commercially available spray type cleaner or disinfectant commonly used by EMS systems with no damage created by fluids leaking through openings onto the circuit boards or switch contacts.

Bid complies _____

Bid does not comply _____

Switch Panel Backlighting

The switch panels shall include, on each panel, an individual intensity control as well as a backlighting color selection feature. Switch panel lighting that operates at the same level as the cab instrument panel or that illuminates both the front and rear panels at the same intensity will not be considered. The bidder must provide totally independent control for each panel. The panel perimeter lighting must have multiple color selections available with front and rear panels separately controlled.

Bid complies _____

Bid does not comply _____

Cab Control Switching and Display

Switch Activation:

The cab control center shall include 8 critical buttons installed in protective enclosure with proper ventilation to maintain temperature. The following minimum circuits shall be provided on the switch panel:

- Module Disconnect
- Emergency Master
- Emergency
- Interior Lights
- Exterior Lights
- Home
- Apps
- Options

The following displays will appear on the Home screen of the cab console:

- Voltage (to the nearest 0.10 volt)
- Amperage (to the nearest amp)
- Outside Temperature
- Inside Patient Area Temperature
- Access or Compartment Door Open Warning Message and Display
- Electrical System Diagnostics

- 24 Hour Clock
- HVAC
- Emergency Brake Warning
- Accent Lighting and Backlighting Controls
- Patient Warning

Bid complies _____

Bid does not comply _____

Door Open Indicator

The front panel shall include a door open warning indicator. This shall consist of a graphical diagram of the vehicle on the touch screen. A door open will appear on the screen allowing the operator to pinpoint which door is open. An audible alarm must sound if a door is left open and the vehicle is placed into gear. Under no circumstances will flashing lights or stand-alone audible indicators suffice to meet this requirement.

Bid complies _____

Bid does not comply _____

Patient Area Control Switching and Display

The patient area control center shall match the front control panel specified above in all but function. The rear panel is to specifically control patient care functions and shall include 8 mission critical buttons installed in a backlight aluminum control panel. The following circuits shall be controlled through these switches:

- Oxygen
- Vacuum
- Interior lighting
- Climate Control
- Scene/Load lights
- Ventilation
- “Home”

Additional functionality shall be available via the graphical touch screen. At a minimum the following information must be available and controllable through the rear panel in addition to functionality listed above:

- Patient Status
- Stop Clock
- Oxygen Line Pressure
- Oxygen Cylinder Pressure
- Patient Area Temperature
- Thermostat Setting
- Oxygen Warning

Bid complies _____

Bid does not comply _____

Compartment and Entry Door Switches

Exterior circuits such as loading lights, side scene lights and compartment lights shall be activated by low amperage, non-mechanical switches. The type of switch desired is a magnetic sensitive switch that activates the circuit when the magnetic plane is broken. Plunger type switches are not acceptable because of their short useful life and higher amperage requirements.

Bid complies _____

Bid does not comply _____

'Door Open' Indicator

A vehicle graphic door open warning indicator, with accompanying audible chime shall be installed in both the cab and patient area. A digital display shall appear on both consoles indicating which specific door has been left ajar. Under no circumstances will red flashing lights or systems that do not specifically pinpoint a specific open door be acceptable.

Central Electrical Distribution

The electrical system smart modules shall be independent and include their own logic. They must include RAM memory to execute commands without having to rely on a central CPU. The system must not be centered around the use of a logic-controlled microprocessor built into a single circuit board. This logic control system is required to maximize reliability of the electrical system and to minimize downtime. It must be provided in order to match the type of control system used in the chassis and to prevent communication problems caused when dissimilar systems are employed. The design of the system must totally separate chassis operation from converter feature installations. In the unlikely event of converter component failure, the chassis must still remain operable.

The computer based electrical system must utilize components similar in design to the computerized chassis functions such as the OEM cruise control system, fuel feed system, transmission control system and braking system.

Bid complies _____

Bid does not comply _____

Multiplexed Electrical Communications System

Because most chassis manufacturers have chosen multiplex electrical communication technology to operate the chassis system, this purchaser requires the same technology for the converter-added systems. A standardized electrical control and wiring system is required. "Off the shelf" third party systems are not desired. Standard systems controlled by outside vendors and modified for a specific vehicle or manufacturer will not be acceptable due to the unpredictability for future parts or service. Switch panels or modules that are not standard in design and are not interchangeable from one unit to another will not be considered. Since solid state logic-controlled technology is commonly available and not proprietary to any one manufacturer and has been proven to be more reliable with greater benefits, a blanket exception or clarification regarding the electrical specification is not acceptable and will be cause for automatic rejection of the bid.

Bid complies _____

Bid does not comply _____

In addition, the system will consist of a series of input / output control modules to manage and feed information and to control the various circuits required by this specification. Each smart module must have 32 power and 2 ground outputs and 12 inputs. The smart modules shall have a chassis gateway interface with a 120 amp max output. Universal Mate-N-Lock connectors shall be used for all load connections. Mini-Universal Mate-N-Lock connectors shall be used for data transmission lines. Under no circumstances will systems be acceptable that utilize screw type terminals or card connectors due to their susceptibility to working loose due to vibration normally encountered on a vehicle.

Bid complies _____

Bid does not comply _____

Under no circumstances may the operation of the central processing unit or the input or output modules be based upon the operation of mechanical relays. Relay based systems require higher amperage operating current and rely on mechanical contact points designed to degrade with use, creating short duty cycles for the vehicle electrical system. Relay based systems, due to those limited short duty cycles, will not be acceptable for the requirements of this specification.

Bid complies _____

Bid does not comply _____

Unit Function

The electrical control system shall be fully programmable and shall control a number of functions. The minimum functions to be controlled are as follows:

- Load Management
- Sequenced Start Circuit Activation
- Electrical System Diagnostics
- Climate Control Heat/AC operation
- Intensity Controls for Patient Dome Lights
- Oxygen Warning System (high and low pressure)
- All Warning Light Flashers and Flash Patterns

-Patient Status System

-Electrical Diagnostics

Bid complies _____

Bid does not comply _____

Unit Function Options

The electrical control system shall be capable of adding the following options:

-Up to four cameras

-Emergency GPS

-Pulse width Modulation

-USB port for field upgradability

-Seat belt monitor display

-Remote system activation from a mobile device

-Record ambulance PM schedule

The electrical control system shall include the ability to manage user defined maintenance issues. It shall also allow for the notification of critical issues such as oil changes and tire rotations.

Bid complies _____

Bid does not comply _____

Circuit Protection

Each converter added electrical circuit must have circuit protection for both over current limit and over temperature condition. The circuit protection shall be provided by solid-state circuit breaker/switching devices (MOSFETS) for both the input and output wire feeds for each circuit. The circuit protection shall require no user intervention such as that required for circuit breakers or fuses. The system shall be able to indicate an output fault warning.

Bid complies _____

Bid does not comply _____

No Prototype Systems

The converter-added electrical system represents the most important system in the design of this ambulance.

Reliability and proven performance is essential. Therefore, the bidder must be able to demonstrate that they have at least ten years' experience with solid state logic-controlled electrical systems installed in emergency vehicles. Further, the bidder must be capable of all programming required by the system without turning to outside vendors. This includes custom-programmed items as may be delineated in this specification.

Bid complies _____

Bid does not comply _____

The bidder may be required to demonstrate an in production or in service vehicle in order to guarantee compliance with this requirement. Prototype or first of a kind electrical systems are not acceptable. The purchaser may require the bidder to furnish specific references to further document compliance.

Bid complies _____

Bid does not comply _____

Wiring

The following minimum wiring standards are required:

Identification

By color, by itemized number, and by actual circuit name, stamped every 4-6"

Size:

Size will vary and will be dependent upon each wire being able to carry a minimum of 125% of the actual circuit load.

Protection of Wiring:

All wiring must be run in breakaway wire loom for protection against abrasion or chafing.

Bid complies _____

Bid does not comply _____

Diagnostics

The electrical system must have built-in capability to self-check each converter-added circuit and identify a short or open circuit automatically. The system must be designed to continuously monitor all outputs and to notify the operator of any faults via a message on the front control screen.

Bid complies _____

Bid does not comply _____

Support Data

Being able to service the electrical system should the need arise is of the utmost importance. To reduce the down time associated with servicing, the following information shall be provided at the time of delivery:

1. Electrical system operating instructions
2. Patient area heating/AC schematic and parts list
3. Oxygen and vacuum system schematic, parts list and leak check instructions
4. Battery and alternator schematic and system description
5. Radio communications installation instructions
6. Wire description list for converter added wiring
7. Individual schematics for all converter added electrical circuits

Bid complies _____

Bid does not comply _____

INPOWER BATTERY SWITCH, WITH WAKE BUTTON 5 min.

Install an Inpower electronic battery switch. Switch is to activate battery power through the vehicle ignition and is to include an automatic shutdown timer to deactivate battery power after the ignition is turned off.

Bid complies _____

Bid does not comply _____

LIFESINE INVERTER/CHARGER, INTERFACE, ELECT COMPT.

The vehicle converter shall furnish and install a Vanner #LSC12-1100 LifeSine Inverter/charger in the specified dedicated electrical compartment as noted. Inverter/battery status panels, if required, will be specified elsewhere within this document. The unit is to function through a dedicated switch in the converter-added control panel, and is to power all 110V outlets. **Inverter to default in the 'ON' position when the "MOULE DISCONNECT" switch is activated.** The charger portion shall be wired to provide power to the vehicle batteries from the specified shoreline.

Bid complies _____

Bid does not comply _____

110VAC/USB-C OUTLETS

Install seven (7) Hubbell model USB8300C5W 110VAC/USB Type C Outlets.

Locate as follows: 1 In Inhalation Area, 1 over crash barrier, 1 inside crash barrier, 1 in linen closet, 1 behind passenger seat, 1 front face of center console, and 1 in street side rear comp

Bid complies _____

Bid does not comply _____

INTERIOR 12VDC OUTLETS:

CL TYPE/USB 1 In Inhalation Area, 2 over crash barrier, 1 inside crash barrier, 1 in linen closet And 1 in street side rear comp 12V combination cigarette/USB style outlets are not be installed as noted and wired battery hot.

Bid complies _____

Bid does not comply _____

KUSSMAUL DUAL USB:

Install a dual USB port 091-219-5, 4.8 amp in the front console plate on the passenger side. Battery Hot

Bid complies _____

Bid does not comply _____

12VDC CIGAR STYLE OUTLET:

Install three (3) cigar style outlets on front console facing engine compartment near floor level. Battery Hot

Bid complies _____

Bid does not comply _____

SHORELINE 1, 20A SUPER AUTO EJECT, WHITE:

Mount a Kussmaul Super Auto Eject 20 amp shoreline inlet aft of the streetside intermediate compartment approximately 4 feet above ground level. Unit is to include a dynamic disconnect. Cover is to be white. Install a Blue Whelen OS light above the shoreline cover and use as the indicator light.

Bid complies _____

Bid does not comply _____

PD BOX LOCATION, LEFT HAND SIDE, SS INT. COMPARTMENT

The onboard power distribution panel is to be located on the left wall of the streetside (driver's side) intermediate compartment. The panel is to be covered with an aluminum closeout to match the finish in that compartment. Access to the panel shall be provided by removing the closeout.

Bid complies _____

Bid does not comply _____

WIRE ENGINE BLOCK HEATER:

The OEM engine block heater is to be wired to operate off of the shoreline. An accessible breaker must be provided to allow the block heater to be disconnected from shore power when necessary.

Bid complies _____

Bid does not comply _____

REPORT LIGHT, LED

Report lighting shall be installed above the main counter/work area. The fixture shall be 12" in length and LED. The fixture shall be controlled via a switch on the attendant control panel. This design will allow for simple "one touch" operation while still providing for flexibility in terms of lighting needs.

Bid complies _____

Bid does not comply _____

REPORT LIGHT, LED:

Install a 12" LED report light on the bench side to light the counter area.

Bid complies _____

Bid does not comply _____

CLOCK, DIGITAL W/SECONDS: OVER REAR DOORS

Install a large face digital Franklin 12/24 hour clock with seconds display over the rear access doors.

Bid complies _____

Bid does not comply _____

STEP WELL LIGHT VISTA LED

The side access door stepwell is to include a 10.5" LED light on the left hand side. The light is to illuminate with the opening of the side access door through the use of a magnetic door switch. Mechanical door switches will not be accepted.

Bid complies _____

Bid does not comply _____

2.5" CAB CEILING LIGHTS, WHITE/RED LED:

Install a combination white/red LED dome light centered in the cab headliner. Wire to a rocker switch in the front control and provide 'OFF', 'CLEAR' and 'RED' selections.

Bid complies _____

Bid does not comply _____

ROM DUROLUMEN LED ABOVE HEAD IN CEILING

A ROM Durolumen light fixture shall be provided and installed as noted above. Fixture is to be operable from the rear switch panel as well as through other means as noted within this document.

Bit complies _____

Bid does not comply _____

ROM DUROLUMEN LED ABOVE WAIST IN CEILING

A ROM Durolumen light fixture shall be provided and installed as noted above. Fixture is to be operable from the rear switch panel as well as through other means as noted within this document.

Bit complies _____

Bid does not comply _____

ROM DUROLUMEN LED ABOVE FOOT IN CEILING

A ROM Durolumen light fixture shall be provided and installed as noted above. Fixture is to be operable from the rear switch panel as well as through other means as noted within this document.

Bit complies _____

Bid does not comply _____

PATIENT CEILING DOME LIGHTS WHELEN LED

Whelen 80COEHCR LED dome lights shall be installed in the patient area ceiling. Patient area lighting is to meet applicable standards for patient area illumination. The lights will have a high/low feature with the switch in the rear control panel.

Bid complies _____

Bid does not comply _____

R/W DOME LIGHTS:

Install (2) 80CREHCR Red/White dome lights in the patient area ceiling, with Hi/Lo function. Locate 1 in the front curbside position and 1 in rear streetside position. Lights to default in white on position with module disconnect.

Bid complies _____

Bid does not comply _____

3 SWITCH PANEL BOLSTER FACE STEP WELL

The manufacturer shall install a 3-switch electrical control as noted above. The panel is to match the style of switches used on the main control panels.

Bid complies _____

Bid does not comply _____

TIMER, FLUOR/LED BOLSTER STEPWELL

An electronic momentary touch timer switch shall be installed in the specified switch panel on the side of the bolster facing the side stepwell. The switch will enable time limited operation of the specified check-out lights with the battery switch in the 'off' position. Set timer to 15 minutes. Mechanical timers are strictly prohibited.

Bid complies _____

Bid does not comply _____

SCENE LIGHT SWITCH, BOLSTER AT STEPWELL

Install an electronic momentary switch in the specified i4G style switch panel on the side of the bolster facing the side stepwell. The switch is to control the curbside scene lights. The switch shall override the position of the front control panel switches. The system shall default to normal operation with the door open circuit or by cycling the battery switch.

Bid complies _____

Bid does not comply _____

3 SWITCH PANEL INHALATION PANEL

The manufacturer shall install a 3-switch electrical control as noted above. The panel is to match the style of switches used on the main control panels.

Bid complies _____

Bid does not comply _____

SWITCH, O2, INHALATION PANEL

An electronic momentary switch shall be installed in the specified 3-switch panel on the inhalation panel. The switch will activate the onboard electronic oxygen system. A second depression of this switch shall deactivate the system.

Bid complies _____

Bid does not comply _____

SWITCH, SUCTION, INHALATION PANEL

An electronic momentary switch shall be installed in the specified 3-switch panel on the inhalation panel. The switch will activate the onboard aspirator system. A second depression of this switch shall deactivate the system.

Bid complies _____

Bid does not comply _____

SWITCH, REPORT LIGHT, INHALATION PANEL

Install report light control switch in the panel selected for the 3-switch panel on the inhalation panel.

Bid complies _____

Bid does not comply _____

3 SWITCH PANEL REAR DOOR PANEL

The manufacturer shall install a 3-switch electrical control as noted above. The panel is to match the style of switches used on the main control panels.

Bid complies _____

Bid does not comply _____

TIMER, DOME LIGHTS, REAR DOOR PANEL

An electronic momentary touch timer switch shall be installed in the specified switch panel on the right rear door panel. The switch will enable time limited operation of the specified dome lights with the battery switch in the 'off' position. Set timer to 15 minutes. Mechanical timers are strictly prohibited.

Bid complies _____

Bid does not comply _____

DUMP OVERRIDE, i4G, REAR DOOR PANEL

A switch shall be programmed into the specified switch panel on the interior panel of the right rear entry door to override the automatic dump feature for the rear suspension. Activation of this switch will prevent the automatic raising and lowering of the rear suspension that occurs with the opening of the left rear entry door.

Bid complies _____

Bid does not comply _____

LOAD LIGHT SWITCH, i4G, REAR DOOR PANEL

A switch shall be programmed into the specified switch panel on the interior panel of the right rear entry door to override the Load Lights

Bid complies _____

Bid does not comply _____

LED LIGHTING, INTERIOR MAIN WALL CABINETS

All main wall interior cabinets shall be equipped with LED cabinet lights. Lights shall include a snap-in 45 degree clip for light dispersion and ease of replacement. LED's shall be spaced a minimum of 1" apart. The lights shall be controlled through a switch in the rear control panel.

Bid complies _____

Bid does not comply _____

LED LIGHTING, INTERIOR BENCH WALL CABINETS

All bench overhead cabinet shall be equipped with LED cabinet lights. Lights shall include a snap-in 45 degree clip for light dispersion and ease of replacement. LED's shall be spaced a minimum of 1" apart. The lights shall be controlled through a switch in the rear control panel.

Bid complies _____

Bid does not comply _____

BACKUP ALARM RESET, MOMENTARY

Install a back-up alarm and provide a momentary backup alarm reset button on the front console. Use the BBS-TEK brand Self-adjusting Medium Duty Backup Alarm. Model #SA-BBS-97.

Bid complies _____

Bid does not comply _____

360 CAMERA SYSTEM, WHITE

Bidder shall supply and install a 360 degree camera system. This system shall consist of four (4) cameras feeding into the front control screen providing a 360 degree view around the vehicle. The system must stitch these views together to give an appearance on the screen of flying just above the unit where all four sides are visible at the same time. Each camera is to include a white housing for protection from the elements. Systems that do not include this protective housing will not be acceptable. Each housing is to incorporate four (4) red LED lights with clear lenses. Each light is to incorporate three (3) LEDs. These lights are to have the ability to function in emergency response mode, as additional turn signals, and when the vehicle is placed into reverse. The housings shall be designed in such a way as to not allow the lights wash out the view from the front screen.

Bid complies _____

Bid does not comply _____

PATIENT AREA CAMERA

Install a Brigade camera with microphone (VBV-701C) in the ceiling at rear of the patient area and face forward. Locate as far back as possible and centered per drawing. Wire the interior camera to a Windshield mounted Brigade Monitor model #VBV-770FM. Monitor will be a split screen with the patient area camera on one side and the 360 on the other.

Bid complies _____

Bid does not comply _____

AUXILLIARY CAMERA MONITOR, PATIENT AREA

Install a camera monitor on the forward face of overhead bench cabinet next to side access door. Display front/curbside/rear feeds from 360 cameras.

Bid complies _____

Bid does not comply _____

PROGRAMMING

PROGRAM, WARNING FLASHERS

Program to activate the warning flashers to secondary mode when ambulance is placed in reverse unless the flashers are already activated.

Bid complies _____

Bid does not comply _____

PROGRAM, RESET BUTTON

Program the warning reset buttons on both front and rear panels to be yellow for easy identification.

Bid complies _____

Bid does not comply _____

PROGRAM, SCENE/LOAD LIGHTS

Program the scene lights and load lights to activate when the Emergency Master is on and the emergency brake is engaged.

Bid complies _____

Bid does not comply _____

LIGHT PROGRAMMING: SIDE REAR SCENE

The rear scene lights on either side of the vehicle shall be programmed to be activated when the vehicle is placed into reverse gear. This is in addition to the other modes of operation as described elsewhere within this document. This feature shall be attained through the programming of the onboard electrical system. Systems that require additional wiring in order to provide this feature are not acceptable.

Bid complies _____

Bid does not comply _____

LIGHT PROGRAMMING: RIGHT SIDE SCENE

The curb side scene lighting shall be programmed to be activated when the patient compartment side access door is opened. This is in addition to the other modes of operation as described elsewhere within this document. This feature shall be attained through the programming of the onboard electrical system. Systems that require additional wiring in order to provide this feature are not acceptable.

Bid complies _____

Bid does not comply _____

LIGHT PROGRAMMING: LOAD LIGHT

The load lighting on the rear of the vehicle shall be programmed to be activated when the vehicle is placed into reverse gear. This is in addition to the other modes of operation as described elsewhere within this document. This feature shall be attained through the programming of the onboard electrical system. Systems that require additional wiring in order to provide this feature are not acceptable.

Bid complies _____

Bid does not comply _____

WHITE LIGHT CUTOFF SWITCH

A switch shall be installed in the front control panel that will deactivate all forward facing white flashing lights.

Bid complies _____
Bid does not comply _____

REAR LIGHT DIMMER SWITCH

A switch shall be provided in the front control panel that will dim all rear-facing lights to 50% intensity.

Bid complies _____
Bid does not comply _____

PROGRAMMING: AUDIBLE LOW VOLTAGE ALARM

An audible alarm shall be programmed to warn the operator should the vehicle's voltage drop below 11.8 volts for 120 seconds. This function is to operate through the onboard converter-install electrical system. Add-on components will not be accepted.

Bid complies _____
Bid does not comply _____

LIGHT PROGRAMMING: PARK BRAKE

When the vehicle is placed into 'Park' or 'Neutral' with the "Module Disconnect" switch 'On', then an audible alarm, accompanied by a visual readout on the cab console digital display, shall warn the vehicle operator to engage the emergency brake. Likewise, when the vehicle is placed into gear, then the same alarm will sound with a visual display warning the operator to disengage the emergency brake.

Bid complies _____
Bid does not comply _____

LIGHT PROG: BRAKE LIGHT, BRAKE OVERRIDE

The lower red flashing lights on the rear of the vehicle are to operate as supplemental brake lights. When in emergency response mode this programming is to allow the lights to flash as warning lights until the brake pedal is depressed. They will continue to operate as brake lights until the brake is released at which point they will return to flashing. Program the M9 lights to be at 50% intensity for brake lights.

Bid complies _____
Bid does not comply _____

LIGHT PROGRAMMING: CAB LIGHT CONTROL

The selected rear patient area dome lights, Duralumens and cabinet lighting are to be controlled through switching provided on the front control panel in addition to standard.

Bid complies _____
Bid does not comply _____

MODULE DISCONNECT, DEFAULT TO "ON"

The 'Module Disconnect' function, or the activation of the converter-added electrical system, shall automatically engage with the activation of the vehicle battery switch.

Bid complies _____
Bid does not comply _____

HVAC

COOLTECH I, RAM

A condenser shall be recessed into the roof and plumbed to the specified A/C system. The unit must be installed in a position to not interfere with the front wall lighting or the height of the vehicle. Underbody condenser designs and condensers mounted to the face of the body in any way, are not acceptable.

The external condenser shall be capable of producing a minimum of 100,000 BTU's of cooling capacity.

The condenser shall have a minimum of four flat mounted smart fans with a minimum flat surface area of 825 square inches. The smart condenser system shall activate fans one at a time based on system demand. The system shall reduce and optimize condenser AMP draw while reducing wear and tear on alternators and batteries. The 100,000 BTU's of added capacity will also reduce high head load on compressors while ensuring best performance in high temp and high humidity climates. This will ultimately increase the life of the unit.

The Condenser design shall offer protection in harsh climates from salt and other chemicals used to melt snow and ice. The unit shall have consistent performance due to reduced impact from mud, dirt, rocks, tar and other road debris. The unit shall have easy access for maintenance and service. The condenser mount shall be easily accessible and allow for easy cleaning.

Bid complies _____

Bid does not comply _____

12V HVAC, ATTENDANT'S SEAT

A ProAir 12V heat/AC system with brushless motor shall be installed beneath the attendant's seat. The unit shall be housed in a crash tested vented seat base. Air intake shall be through the seat base with output located over the head of the attendant's seat to create a circular uniform airflow throughout the patient compartment. The mounting plate for the attendant's seat shall be hinged with two bolts securing it in place. Access to the unit for maintenance shall be attained by flipping the attendant's seat up. Alternate designs will be not accepted.

The BTU and CFM ratings on the evaporator shall be as follows:

Heat: 65,000BTU

A/C: 32,000BTU

CFM: 650 CFM

Units providing for lower ratings will not be accepted.

Bid complies _____

Bid does not comply _____

NFPA COMPLIANT VENTING, CAST

An NFPA compliant venting system, to include a 400cfm exhaust fan along with a static vent, is to be installed. Install 9.5" square cast covers on both vents. Activation of the venting system is to be through the rear control panel.

Bid complies _____

Bid does not comply _____

RADIO

ANTENNA COAX 1

Start: Front Console End: Middle front of Mod Roof. An RG 58U coax shall be installed terminating as noted above.

Bid complies _____

Bid does not comply _____

ANTENNA COAX 2

Start: Radio Panel blank head of bench. Terminate: Middle of module roof. Install a 3/8" NMO antenna base

Bid complies _____

Bid does not comply _____

ANTENNA COAX 3

Start: Radio Panel blank head of bench. End: Middle rear of module roof.

Bid complies _____

Bid does not comply _____

ANTENNA COAX 4

Start: behind passenger seat. End: Middle of module roof between COAX 1 & 2 For Modem

Bid complies _____

Bid does not comply _____

3/8" NMO MOUNT COAX 1

Bidder shall provide and install a 3/8" NMO antenna mount in conjunction with the coax specified as 'Coax #1'.

Bid complies _____

Bid does not comply _____

3/8" NMO MOUNT COAX 2

Bidder shall provide and install a 3/8" NMO antenna mount in conjunction with the coax specified as 'Coax #2'.

Bid complies _____

Bid does not comply _____

3/8" NMO MOUNT COAX 3

Bidder shall provide and install a 3/8" NMO antenna mount in conjunction with the coax specified as 'Coax #3'.

Bid complies _____

Bid does not comply _____

3/8" NMO MOUNT COAX 4

Bidder shall provide and install a 3/8" NMO antenna mount in conjunction with the coax specified as 'Coax #4'.

Bid complies _____

Bid does not comply _____

CONSOLE, LINE-X, W/MAP STORAGE, RAM

An aluminum console shall be installed in the cab. The console shall be installed at floor level and shall allow space for siren and radio head installation. The rear section of the console will have three storage sections for maps, books etc. The console shall be covered with black polyurethane elastomeric coating. The top of the console shall be on a slant and shall house the emergency control panel and display. Under no circumstances shall the console interfere with the OEM vehicle controls or gauges, nor shall the control panel be installed in such a manner as to interfere with either the OEM vehicle controls, gauges, or the driver's line of vision.

Bid complies _____

Bid does not comply _____

FRONT CONSOLE NOTE

Install an adjustable angle front switch panel. Install 2 adjustable armrest to the front console. Match 283

Bid complies _____

Bid does not comply _____

SHIP LOOSE OEM CONSOLE

The OEM console is to be removed from the chassis prior to construction. This console is to be shipped loose with the completed vehicle.

Bid complies _____

Bid does not comply _____

CUP HOLDERS, JUMBO 4"

Two (2) 'jumbo' 4" cupholders shall be installed in the front console with easy access from both the driver's and the passenger's seats.

Bid complies _____

Bid does not comply _____

POWER TERMINAL, DUAL, HEAD OF BENCH

The manufacturer shall install three (3) 10 gauge 30 amp cables to insulated positive and ground studs at the head of the squad bench for radio power. The power is to be wired ignition hot (one stud), constant hot (one stud), and ground (one stud).

Bid complies _____

Bid does not comply _____

POWER TERMINAL, DUAL, BEHIND DRIVER

The manufacturer shall install three (3) 10 gauge 30 amp cables to insulated positive and ground studs behind the driver's seat for radio power. The power is to be wired ignition hot (one stud), constant hot (one stud), and ground (one stud).

Bid complies _____

Bid does not comply _____

RADIO INSTALLATION

Dealer to install customer supplied radios and control heads in the front console and in the patient area. Control heads in the front console to be recessed mounted in radio face plate. Rear control head to be mounted under the overhead cabinet on the curbside of patient area.

Bid complies _____

Bid does not comply _____

CRADLE POINT INSTALLATION

Dealer to install a customer supplied Cradle Point IBR900 / Antenna Plus Multi-Max MIMO Antenna - Threaded Bolt – Black prior to delivery.

Bid complies _____

Bid does not comply _____

DRIVE CAMERA

Dealer to provide and install a Roscoe Vision Drive Cam, Dual Vision XC4 system in the front windshield of the chassis.

Bid complies _____

Bid does not comply _____

OXYGEN

O2 MOUNT, VERT TRACK FOR QRM-V

Vertical track for mounting of the specified QRM-V O2 bottle mount shall be welded on the back wall of the streetside forward compartment in the right hand corner. The bracket is to be set up for an 'M' sized cylinder. Methods of attachment other than welding will not be accepted. Method of bottle bracket installation must meet all applicable standards.

Bid complies _____

Bid does not comply _____

O2 BOTTLE, BRACKET QRM-V

A Zico QRM-V oxygen cylinder bracket shall be installed in the streetside forward compartment and set up for an 'M' bottle.

Bid complies _____

Bid does not comply _____

O2 OUTLET, OHIO MEDICAL 1 In Inhalation Panel, 1 Head of bench above 12V outlets, 1 over chest of cot

Install O2 outlets per instructions above. Outlets to be Ohio Medical style.

Bid complies _____

Bid does not comply _____

OXYGEN WRENCH

A cylinder wrench shall be installed inside the oxygen compartment. The wrench shall be installed in such a way as it will not move or rattle. The wrench shall be chained to the compartment so that it cannot be removed, however, the chain or cable used must not interfere with the operation of the wrench.

Bid complies _____

Bid does not comply _____

VACUUM OUTLET, OHIO MEDICAL 1 suction recess

A single vacuum panel shall be installed in the inhalation area. The outlet shall be Ohio Medical style and shall be connected to the onboard vacuum pump.

Bid complies _____

Bid does not comply _____

ASPIRATOR, SSCOR, RECESSED, SS RISER

The manufacturer shall furnish and install an SSCOR suction system. The system shall include a wall-mounted regulator and a canister holder. The aspirator shall be recessed into the streetside riser per the attached prints and plumbed to the specified pump.

Bid complies _____

Bid does not comply _____

VACUUM PUMP CAPL #D34 SE (P282)

The aspirator system shall be operated through a CAPL #D34 SE (P282) 12V vacuum pump that is located inside an exterior compartment. The pump shall be activated by a switch on the inhalation area electrical control panel.

Bid complies _____

Bid does not comply _____

PORTABLE O2 BOTTLE BRACKETS

Provide and install (2) Zico QR-D-2 oxygen bottle brackets per customer locations.

Bid complies _____

Bid does not comply _____

CERTIFICATIONS**KKK-A-1822F CERTIFICATION LABEL**

The vehicle shall have weight/payload, electrical load, and the current KKK-A-1822 certification stickers installed in the O2 compartment. Failure to provide these certification labels will be cause for rejection of the completed vehicle. Labels that are found to be falsified will also be cause for rejection of the completed vehicle. The purchaser reserves the right to request documentation showing that all required testing has been completed at the time of the bid opening. Failure to provide this documentation, if requested, will result in the bid being rejected without further consideration.

Bid complies _____

Bid does not comply _____

CHANGE NOTICE 10 CERTIFICATION

The finished vehicle shall be certified to comply with Change Notice 10 requirements.

Bid complies _____

Bid does not comply _____

ADDITIONAL EQUIPMENT

FLASHLIGHTS

Provide and install (2) Streamlight Vulcan LED lights with recharging base. Locate per customer instruction.

Bid complies _____

Bid does not comply _____

HALLIGAN BAR

Provide a Leatherhead Tools Halligan Type Forcible Entry Bar

Bid complies _____

Bid does not comply _____

PAC TOOL BRACKETS

Provide and install (4) PAC Handle Lock mounting brackets in the street side intermediate compartment for irons.

Bid complies _____

Bid does not comply _____

GLASS BREAKER

Provide a Glas-Master Rescue Hand Tool

Bid complies _____

Bid does not comply _____

HAMMER

Provide a 4lb hammer

Bid complies _____

Bid does not comply _____

FIRE EXTINGUISHER

Provide (1) Amerex 2.5 Gallon Pressurized Water Extinguisher mounted in a Fire Hooks EZ Can Bracket. Provide (2) 5lb ABC fire extinguishers. Customer to give locations.

Bid complies _____

Bid does not comply _____

NYLON STRAPS

Provide (2) 1"x30" nylon straps with metal footman loops to secure equipment in compartments. Customer to specify location.

Bid complies _____

Bid does not comply _____