

JOHNSTON COUNTY

**DEPARTMENT OF EMERGENCY SERVICES
Division of Emergency Medical Services**

Invitation for Bids #: 17-IFB-0002

Ambulances and Equipment

Date of Issue: February 1, 2017

Bid Opening Date: February 20, 2017 at 3:00 P.M. ET

Direct all inquiries concerning the IFB to:

Pam Radford, Purchasing Agent

pam.radford@johnstonnc.com

Phone: 919-989-5110

**FAXES OR EMAILS ARE NOT ACCEPTED
FOR THIS FOR THIS INVITATION FOR BIDS**

1.0 PURPOSE AND BACKGROUND

It is the intent of this Invitation for Bids (IFB) to obtain pricing and subsequently contract for three Type III, Class One, Configuration A ambulances for use by the Johnston County Emergency Medical Services System (sometimes referred to as “Agency”). The attached specifications define a heavy-duty, commercial emergency medical vehicle, built to withstand adverse driving conditions. The vehicle shall meet or exceed the latest revision to federal specification KKK-A-1822, Federal Motor Vehicle Safety Standards (FMVS.), National Truck Equipment Association (NTEA) Ambulance Manufacturer's Division (AMD) standards and Ford Qualified Vehicle Modifier (QVM) Program Truck Guidelines (“even though the specifications describe an ambulance other than a Ford”). This invitation is extended to all qualified vendors/manufacturers that are specifically in the business of building emergency medical vehicles and/or equipment.

2.0 GENERAL INFORMATION

2.1 INVITATION FOR BIDS DOCUMENT

This IFB is comprised of the base IFB document, any attachments, and any addenda released before Contract award. All attachments and addenda released for this IFB in advance of any Contract award are incorporated herein by reference. Vendors will be held accountable for having full knowledge of the contents of this IFB and for performing any due diligence that may be necessary to submit a binding bid. “Vendor” is synonymous with “Bidder”.

2.2 INTENDED SCHEDULE

The following table below shows the intended schedule for this IFB. The key events are as follows:

DATE	EVENT
February 1, 2017	Issue IFB
February 14, 2017 by 2:00 p.m. E.T.	Deadline to Submit Written Bid Questions
February 20, 2017 at 3:00 p.m. E.T.	Bid Submission & Opening – Bids are due by 3:00 p.m. on February 20, 2017, at the Johnston County Finance Office. All Bids will be date and time-stamped upon receipt and held in a secure place until this date. All Bids will be opened and publicly read aloud. LATE SUBMISSIONS WILL NOT BE ACCEPTED.
February 21, 2017 – February 28, 2017	Bid Evaluation
March 6, 2017	Contract Award by Johnston County Board of Commissioners

2.3 BID QUESTIONS

Purpose: Upon review of the IFB documents, Vendors may have questions to clarify or interpret the IFB in order to submit the best bid possible. To accommodate the Bid Questions process, Vendors shall submit any such questions by the above due date. NO PHONE CALLS OR FAX.

Instructions: Written questions shall be emailed to pam.radford@johnstonnc.com by the date and time specified above. Vendors will enter “17-IFB-0002 – Questions” as the subject for the email. Questions submittals will include a reference to the applicable IFB section and be submitted in the format shown below:

Reference	Vendor Question
IFB Section, Page Number	Vendor question...?

Questions received prior to the submission deadline date, the County’s response, and any additional terms deemed necessary by the County will be posted in the form of an Addendum to this IFB. No information, instruction or advice provided orally or informally by any County personnel, whether made in response to a question or otherwise in connection with this IFB, shall be considered authoritative or binding. Vendors shall be entitled to rely only on written material contained in an Addendum to this IFB.

2.4 BID CONTENTS

For each Vendor’s bid, Vendors shall populate all attachments of this IFB that require the vendor to provide information and include an authorized signature where requested, as outlined below.

- a. Complete the Bid Response Forms provided in sections 4 and 5, along with Attachments A, D, E, and F of this IFB. Bid responses must be submitted on these forms.
- b. Bid responses must be typewritten or completed in ink, signed by the Vendor or the Vendor’s firm’s authorized representative. All erasures or corrections must be initialed and dated by the person who signs the Bid Response Form on behalf of the Vendor.
- c. Bids must be accompanied by accurate descriptions of the exact materials, supplies, and/or equipment offered for purchase. The Specifications may require that copies of detailed factory specifications, ratings, and/or technical data be submitted along with the Vendor’s response package.

2.5 BID SUBMITTAL

Instructions: Sealed bids, subject to the conditions made a part hereof and the receipt requirements described below, shall be received at the address indicated in the table below, for furnishing and delivering those items as described herein. Refer to Section 2.4 BID CONTENTS for details on required content of submitted bids.

Mailing Address for Delivery of Bid Via U.S. Postal Service	Office Address for Delivery by Any Other Means, Special Delivery, Overnight Delivery, or By Any Other Carrier
BID NUMBER: 17-IFB-0002 Johnston County Finance Office Attn: Pam Radford P. O. Box 1049 Smithfield, NC 27577	BID NUMBER: 17-IFB-0002 Johnston County Finance Office Attn: Pam Radford 207 East Johnston Street, B-207 Smithfield, NC 27577

Important Note: It is the responsibility of the Vendor to have the signed bid physically in this office by the specified time and date of opening, regardless of the method of delivery. This is an absolute requirement. The time of delivery will be marked on each bid when received, and any bid received after the bid submission deadline will not be accepted or evaluated. Sealed bids, subject to the conditions made a part hereof, will be received at the address indicated in the table in this Section, for furnishing and delivering the commodity as described herein.

All risk of late arrival due to unanticipated delay – whether delivered by hand, U.S. Postal Service, courier or other delivery service or method – is entirely on the Vendor. Note that the U.S. Postal Service generally does not deliver mail to the street address above, but to the County’s Post Office Box. Vendors are cautioned that bids sent via U.S. Mail, including express mail, may not be delivered to the Johnston County Finance Office on the due date in time to meet the bid deadline. All Vendors are urged to take the possibility of delay into account when submitting a bid.

Vendors shall deliver two (2) signed, original executed bid responses of its bid to the address identified in the table in this Section. Include only bids in response to this IFB in a sealed package. Address package and insert bid number as shown in the table in this Section.

Bids shall be marked on the outside of the sealed envelope with the Vendor’s name, Bid number, and date and time of opening.

Attempts to submit a bid via facsimile (FAX) machine, telephone or electronic means, including but not limited email, in response to this IFB will **not** be accepted. Bids are subject to rejection unless submitted with the information included on the outside of the sealed bid package.

Critical updated information may be included in Addenda to this IFB. It is important that all Vendors proposing on this IFB periodically check the County’s website for any Addenda that may be issued prior to the bid opening date. All Vendors shall be deemed to have read and understood all information in this IFB and all Addenda thereto.

2.6 NOTICE TO VENDORS

Each bid constitutes an offer to become legally bound to a contract with the County incorporating the IFB and the Vendor's bid that is binding for one hundred twenty (120) calendar days from the date of the bid opening. Upon contract award by the Johnston County Commissioners, the County will send the Successful Bidder the contract which will include terms and conditions of this IFB. By execution and delivery of a bid in response to the IFB, Vendor agrees that any additional or modified terms and conditions, whether submitted purposely or inadvertently, or any purported condition to the offer shall have no force or effect, and will be disregarded. Noncompliance with, or any attempt to alter or delete, this paragraph shall constitute sufficient grounds to reject Vendor's bid as nonresponsive.

2.7 COUNTY'S RIGHTS AND OPTIONS

The County reserves the following rights, which may be exercised at the sole discretion of Johnston County:

- a. to supplement, amend, substitute or otherwise modify this IFB at any time;
- b. to cancel this IFB with or without substitution of another IFB;
- c. to take any action affecting this IFB, this IFB process, or the products or services subject to this IFB that would be in the best interests of the County;
- d. to issue additional requests for information;
- e. to require one or more Vendors to supplement, clarify or provide additional information in order for the County to evaluate the bids submitted;
- f. to conduct investigations with respect to the qualifications and experience of each bidder;
- g. to change the bid opening date or any other dates relevant to this IFB;
- h. to waive any defect or irregularity in any bid received;
- i. to reject any or all bids;
- j. to award all, none or part of the items that is in the best interest of the County, with one or more of the Vendors responding, which may be done with or without re-solicitation; and
- k. to enter into any agreement deemed by the County be in the best interest of the County, with one or more of the Vendors responding.

2.8 BIDS ON ALL OR PART

Unless otherwise specified by the County or the Vendor, the County reserves the right to make award on all or part of the items purchased. Vendors may restrict their bids to consideration in the aggregate by so stating in the bid. However, bids restricted to consideration in the aggregate but must also include a unit price on each item bid.

2.9 INVITATION FOR BID NOT AN OFFER

This Invitation for Bid does not constitute an offer by the County. No recommendations or conclusions from this IFB process shall constitute a right (property or otherwise) under the Constitution of the United States or under the Constitution, case law, or statutory law of North Carolina.

2.10 AWARD CRITERIA

The County reserves the right to award a contract to the lowest responsive responsible bidder taking into consideration Vendor qualifications and experience, quality, delivery, workmanship, services, facility requirements, inventory control and reporting. The County reserves the right to reject any bid on the basis of function, compatibility with user requirements of utility as well as costs.

2.11 CONTRACT AWARD BY JOHNSTON COUNTY BOARD OF COMMISSIONERS

The contract to be awarded under this IFB must be approved by the Johnston County Board of Commissioners. If such approval is granted, the Johnston County Finance Office will provide the contract to the vendor for the vendor to sign and return. In the event Johnston County Board of Commissioners approval is not received within one hundred twenty (120) calendar days after opening of the bids, the vendor may request that it be released from the bid.

3. TERMS AND CONDITIONS

Each bid submitted in response to this IFB constitutes an offer to become legally bound to a contract incorporating the terms and conditions set forth in this IFB. For purposes of this section, a Vendor that enters into a contract with the County may be referred to as the “Successful Bidder” or the “Company”.

3.1 CONTRACT TYPE

The contract resulting from this IFB will be of the type indicated below:

 Definite Quantity: The contract will be a fixed-price contract that provides for a definite quantity of Product and Services either at specified times or when ordered.

 X Indefinite Quantity: The contract will be a unit price contract for an indefinite amount of Products and Services to be furnished at specified times or as ordered. In some cases, indefinite quantity contracts may state a minimum quantity that the County is obligated to order. The County may make available to Vendors information regarding the County’s purchase history or projected estimates of the approximate quantity of Products that will be needed. The County makes no representations as to the accuracy of such information. Each Vendor is required to perform its own due diligence on which to base its bid. Inaccuracy of purchase history or projected quantity estimates provided by the County will not give rise to any claim against the County, or entitle any vendor to rescind its bid or terminate or amend the contract.

3.2 TERMS OF CONTRACT

 X (A) Unit Price Contract: Contract awarded is for a unit price when product and service needs are based upon indefinite quantities, and where orders will be based on actual needs that may exceed or be less than projections. All

expenditures under a unit price contract are contingent upon appropriations having been made by the Johnston County Board of Commissioners.

Contract Terms and Renewal Options: The contract term shall be for a period of two (2) years from the date of award. The County at its option may extend the contract for up to two (2) additional one-year extensions unless the Company objects in writing at least ninety (90) days prior to the beginning of the extension term.

___ (B) One Time Purchase: Contract awarded is for a specific quantity purchased at one time.

3.3 NOTICE TO PROCEED

The Successful Bidder shall not commence work or make shipment under this IFB until duly notified by receipt of an executed contract from the County. If the Successful Bidder commences work or makes shipment prior to that time, such action is taken at Successful Bidder's risk, without any obligation of reimbursement by the County.

3.4 DELIVERY TIME

When delivery time is requested in this IFB, (whether in the form of a specific delivery date or maximum number of days for delivery) time is of the essence. Each bid shall be deemed a binding commitment of the Vendor to meet the delivery time stated herein unless the Bid specifically takes exception. If such delivery time is not met, the County shall be entitled to terminate the Contract and immediately default and/or exercise any other remedies available at law or in equity.

3.5 PRICES ARE FIRM

Each Vendor warrants the bid price(s) and terms and conditions quoted in its bid shall be firm for acceptance by the County for a period of one hundred twenty (120) calendar days from the date of the Bid opening. Once award is made and a Contract is in place, prices shall remain firm and fixed for the entire Contract period, unless otherwise allowed in the Special Conditions and stated in the Bid. If your Bid includes price increases of the term of the Contract, such increases must be clearly designated on Attachment A, Pricing Form.

3.6 PRICE ADJUSTMENT AS PART OF BID

To submit price adjustments as part of your Bid, you must: (a) comply with any limitations or instructions that are stated in this IFB; and (b) state very clearly in the Price Sheet of your Bid Response the proposed price adjustments or, if permitted, the price adjustment formula. Restrictions and instructions regarding price adjustments are provided in the Bid Response Forms. It is important that the Bidder check for these restrictions and instructions carefully. In some instances price adjustments are not permitted as part of the Bid. In other instances formula

price increases are prohibited due to the difficulty they create in comparing Bid prices.

3.7 PROMPT PAYMENT DISCOUNTS

Bidders are urged to compute all discounts into the price offered. If a prompt payment discount is offered, it will not be considered in the award of the contract except as a factor to aid in resolving cases of identical prices.

3.8 QUALITY

Unless the IFB specifically states otherwise for a particular item, all components used to manufacture or construct any supplies, materials or equipment or Products provided under the IFB shall be: (a) new; (b) the latest model; (c) of the best quality and highest grade workmanship; and (d) in compliance with all applicable federal, state and local laws, regulations and requirements. By “new”, the County means that the item has been recently produced and has not been previously sold or used.

Whenever this IFB or any part of the Contract states that a Product or Service shall be in accordance with laws, ordinances, building codes, underwriter’s codes, applicable A.S.T.M. regulations or similar expressions, the requirements of such laws, ordinances, etc. shall be constructed to be minimum requirements that are in addition to any other requirements that may be stated in this IFB or the Contract.

4. SPECIFICATIONS

4.1 The scope of this IFB is to establish a contract for the purchase, delivery and other inherently related activities of the Products and Services in compliance with the specifications and terms and conditions set forth in this ITB.

All Products and specific brands furnished under the Contract shall be new, shall comply with the specifications and terms and conditions set forth in this IFB, and shall operate in full compliance with these Specifications.

4.2 QUANTITIES

The County does not guarantee quantities and will purchase quantities of Products according to actual need during the term of the Contract. The quantities listed in this IFB are estimates only, and may differ substantially from actual quantities ordered. Multiple orders will be placed on an as needed basis during the term of the Contract.

4.3 PRICING

Bid price shall constitute the total cost to the County for delivery fully assembled, including all applicable charges for shipping, delivery, handling, administrative and other similar fees. Vendor shall not invoice for any amounts not specifically allowed for in this IFB. Complete ATTACHMENT A: PRICING FORM and include with Bid.

4.4 TRANSPORTATION AND IDENTIFICATION

The Vendor shall deliver Free-On-Board (FOB) Destination as requested with all transportation costs included in the total bid price.

When an order is placed using a purchase order, the purchase order number shall be shown on all packages and shipping manifests to ensure proper identification and payment of invoices. A complete packing list shall accompany each shipment. Vendors shall not ship any products until they have received an order.

4.5 DELIVERY

The Vendor shall deliver Free-On-Board (FOB) Destination to the following location:

Johnston County EMS
109 S. Fourth Street
Smithfield, NC 27577

Delivery will be made within **120** consecutive calendar days after receipt of purchase order. Promptness of delivery may be used as a factor in the award criteria. Twenty-Four Hour notice is required.

4.6 FORD QVM QUALIFICATION

All Bidders shall be members in good standing of the Ford Motor Company's Qualified Vehicle Modifier Program (QVM). Each bidder shall supply a copy of his valid QVM Certification with their bid. If for any reason the QVM Certification was withdrawn or suspended by Ford Motor Company within the past five years, the bidder shall supply a full written explanation of the QVM violation, withdrawal or suspension and any corrective actions taken to regain QVM Certification. This reference is being made even though the specifications describe an ambulance other than a Ford.

Is the Vendor Ford QVM Qualified? ___ YES ___ NO

Is the Vendor's Valid QVM Certification Attached? ___ YES ___ NO

4.7 QUALITY MANAGEMENT SYSTEM REGISTERED

The manufacturer shall have a registration for ISO 9001: 2008 for their Quality Management System (QMS). The QMS provides establishment, documentation, implementation, maintenance and improvement of management systems that impact the final quality of the product. Registration of the vendor's QMS demonstrates an enduring commitment to quality, a sharp focus on the customer, and robust communication throughout the product process chain to the customer. This registration provides for oversight with routine inspection of the QMS to

maintain certification status. Proof of certification shall be readily available upon demand. Proof of Certification shall be provided with bid during initial bid process.

IS the Vendor QMS registered? YES NO

IS Vendor’s proof of QMS certification attached? YES NO

4.8 AUTHORIZED RESELLER.

The Vendor shall be authorized by the manufacturer to resell the products and/or maintenance offered in this IFB. **The Vendor shall provide with its bid response a signed statement from the manufacturer confirming authorization. Failure to provide the statement shall constitute sufficient grounds for rejection of the Vendor’s offer, in the discretion of the County. Is Vendor authorized to sell the manufacturer brands and models?**

YES NO

4.7 PRODUCT RECALL

Vendor expressly assumes full responsibility for prompt notification to the Buyer listed on the face of this IFB of any product recall in accordance with the applicable state or federal regulations. The Vendor shall support the County, as necessary, to promptly replace any such products, at no cost to the County.

4.8 WARRANTY

CONVERSION WARRANTY

7 Year, 70,000 mile Mechanical & Electrical including Workmanship

7 Year, 70,000 mile Standard Paint Warranty

36 Month Paint Coatings Corrosion Warranty

20 Year Body Structure Warranty

Vendor is authorized by manufacturer to repair equipment offered during the warranty period?

YES NO

Will the Vendor provide warranty service?

YES NO, an authorized third party will perform warranty service

Contact information for warranty service provider:

Company Name: _____

Company Address: _____

Contact Person (name) _____

Contact Person (phone #) _____

4.9 REFERENCES

Vendors are requested to provide at least three (3) references for which your company has provided goods and services of substantially the same features and quantity to those solicited herein. The County may contact these users to determine the goods provided are substantially similar to those bid herein and the Vendor’s performance has been satisfactory. Such information may be considered in the evaluation of the bid.

Company Name	Contact Name	Telephone Number

4.10 DESCRIPTIVE LITERATURE

Each bid is requested to be accompanied by complete descriptive literature, specifications, certifications, and all other pertinent data necessary for through evaluation of the item(s) bid and sufficient to determine compliance of the item(s) with the specifications. Failure to include such information may be a sufficient basis for rejection of the bid.

4.11 INVOICES

Vendor shall invoice Johnston County Emergency Medical Services at PO Box 530 Smithfield, NC 27577. The standard format for invoicing shall be Single Invoices meaning that the Vendor shall provide the County with an invoice for each order. Invoices shall include detailed line item information to allow County to verify

pricing a point of receipt matches the correct price from the original date of order. At a minimum, the following fields shall be included on all invoices:

Vendor's Billing Address, Customer Account Number, Order Date, County Purchase Order Number, Item Numbers, Item Descriptions, Price, Tax, Quantity, and Unit of Measure.

5.0 PRODUCT SPECIFICATIONS

CORE DESIGN INTENT: The core design intent of the specifications supplied herein is to purchase an ambulance with the highest level of engineering excellence. The "Core Design" intent of this vehicle shall be centered on the patient's need for pre-hospital care, in conjunction with a safe working environment for the Emergency Medical Personnel. See attached Exhibit 1 for drawings to be incorporated as if fully set forth herein. See attached Exhibit 2 for photographs which are illustrative of the current fleet.

EXPLANATION OF EXCEPTIONS: Vendors may take exceptions to any part of the bid contained herein with a written itemized schedule. The schedule shall include the page and paragraph number(s), the text that the bidder feels he cannot comply with an explanation why the bidder feels that the requirement is not in the best interest of the agency and/or an alternate bidder solution. Alternate bidder solutions may be considered by the agency, if the bidder can show the agency that the alternate solution is, in quality and quantity, equal to OR better than the specified item.

Vendors are required under this invitation for bid to give, for the consideration of the agency, a proposal that will comply with the written specifications, drawings and schedules supplied herein. The specifications supplied represent a compilation of input from disciplines of users who are directly affected by the vehicle's performance.

Careful consideration pertaining to safety, configuration, construction and workmanship are based on working experiences by the personnel who have direct, working contact with the subject vehicle specified herein. The "core design" of this ambulance was created as a result of resolving issues and improvement suggestions that have originated from the personnel most qualified to make such input.

This agency makes no claim that ALL potential issues or improvements are included in the specifications supplied herein. This agency will consider any request for Bid Questions pursuant to Section 2.3 above.

No Alternate Bids taking TOTAL Exceptions of "Standard" or "Stock" units.

NATIONAL TRUCK EQUIPMENT ASSOCIATION TESTING

AMD 001 - AMBULANCE BODY STRUCTURE STATIC LOAD TEST: The ambulance described herein shall be type tested to the National Truck Equipment Association's Ambulance Manufacturing Division, Standard 001 - Ambulance Body Structure Static Load Test except the test weight shall be a minimum of 55,000 pounds. The test shall be conducted by an independent testing laboratory. The module body bid herein shall contain extrusion shapes and general structural layout identical to the test body used in the test.

AMD 002 - BODY DOOR RETENTION COMPONENTS TEST: The ambulance described herein shall be type tested to the National Truck Equipment Association Ambulance

Manufacturing Division, Standard 002 - Body Door Retention Components Test. The test shall be conducted by an independent testing laboratory. The module body bid herein shall contain identical door extrusion shapes, door skin configuration and general structural layout as the test body used in the test.

Safety is this Agency's first concern. Entry and compartment door integrity is crucial to the safety of the patient, public, passengers and crew. If the Bidder has experienced any of the following door conditions as a result of collision, roll over or other accidental impact, then the Bidder shall supply the Agency with a report containing the date, a full explanation of the incident and corrective actions taken.

- A) Any entry door rendered inoperative.
- B) Any door that has come open.
- C) Foreign object penetration into patient cabin through the body structure.

Catastrophic door failure during a collision indicates mechanical defects in the design, hardware and/or the direct construction of the modular door. Any AMD Standard 002 testing prior to the incident is deemed invalid, regardless of the expiration date of the original test.

AMD 003 - OXYGEN TANK RETENTION SYSTEM STATIC TEST: The ambulance described herein shall be type tested to the National Truck Equipment Association Ambulance Manufacturing Division, Standard 003 - Oxygen Tank Retention System Static Test. The test shall be conducted by an independent testing laboratory.

Safety is this Agency's first concern. Main cylinder control is extremely important and is crucial to the safety of the patient, public, passengers and crew. If the Bidder has experienced a cylinder rack separation from the oxygen compartment wall, OR if the cylinder has come loose from the cylinder restraining device, then the Bidder shall supply the Agency with a report containing the date, a full explanation of the

incident and corrective actions taken to prevent future failures. Main Oxygen/Air Cylinders that come loose during a collision indicate mechanical defects in the design of the restraining device or the mounting method. Any AMD Standard 003 testing prior to the incident is deemed invalid, regardless of the expiration date of the original test.

AMD 004 - LITTER RETENTION SYSTEM STATIC TEST: The cot/litter retention system described herein shall be tested to the National Truck Equipment Association, Ambulance Manufacturing Division Standard 004 - Litter Retention System Static Test. The cot mounting method and floor reinforcement areas shall exceed the test as described in AMD 004. This test shall be conducted by an independent testing laboratory. The cot mount hardware shall meet with specifications of the selected cot as outlined in the cot mount specifications section of this document.

Safety is this Agency's first concern. Main cot/litter retention is critical to patient care. If the Bidder has experienced a litter ejection due to a hardware defect or a defect in the mounting method, then the Bidder shall supply the Agency with a report containing the date, a full explanation of the incident and corrective actions taken to prevent future ejections. Main Cot/Litter ejection's that occur during a collision indicates mechanical defects in the design of the restraining device or the mounting method; Therefore ALL Bidder AMD Standard 004 testing dated prior to the incident is deemed invalid, regardless of the expiration date of the original test.

AMD 005 - 12-VOLT DC ELECTRICAL SYSTEMS TEST: The 12-Volt DC Electrical System described herein shall be tested to the National Truck Equipment Association, Ambulance Manufacturing Division Standard 005 - 12-Volt DC Electrical System s Test. This test is valid for the test article vehicle ONLY. The test shall be conducted on EACH ambulance. The results of the test shall be recorded on an electrical system performance sheet and shall be included with the delivery documents. This test shall be conducted by a qualified quality control electrician at the ambulance manufacturing plant.

Reliability and Safety is this Agency's first concern. The 12-volt electrical system must be functional under all normal or adverse driving and operating conditions. Each electrical device, electrical component, wire, wire route and connection quality shall be tested for reliability as a "SYSTEM" on each vehicle sold. If the Bidder has experienced an electrical fire or an electrical failure resulting in a disabled ambulance going to an emergency call or during transportation, shall supply the Agency with a report containing the date, a full explanation of the incident and corrective actions taken to prevent future electrical failures.

AMD 006 - PATIENT COMPARTMENT SOUND LEVEL TEST: The ambulance described herein shall meet or exceed the National Truck Equipment Association Ambulance

Manufacturing Division Standard 006 - Patient Compartment Sound Level Test. The sound level in the driver or patient cabin shall be eighty decibels or less under the conditions described in AMD Standard 006.

AMD 007 - PATIENT COMPARTMENT CARBON MONOXIDE LEVEL TEST: The ambulance described herein shall meet or exceed the National Truck Equipment Association, Ambulance Manufacturing Division Standard 007 - Patient Compartment Carbon Monoxide Level Test. The patient and driver cabin shall be environmentally sealed from carbon monoxide gases that are emitted from internal combustion engines. The ambulance specified herein shall have safe carbon monoxide levels of ten parts per million or less while the vehicle is exposed to the conditions described in AMD Standard 007.

AMD 008 - PATIENT COMPARTMENT GRAB RAIL STATIC LOAD TEST: The patient cabin grab rails shall be tested to the National Truck Equipment Association, Ambulance Manufacturing Division Standard 008 - Patient Compartment Grab Rail Static Load Test. The ceiling mounted grab rails shall be subject to a three axis load of three hundred pounds.

The ceiling mounted grab rail shall not come loose from the ceiling or permanently deform. All mounting fasteners shall be threaded into metal structure not less than .125 inches thick.

AMD 009 - 125-VOLT AC ELECTRICAL SYSTEMS TEST: The patient cabin shall be wired per the National Truck Equipment Association, Ambulance Manufacturing Division Standard 009 - 125 -Volt AC Electrical Systems Test.

The ambulance wiring shall comply with the National Electric Code in effect at the time of manufacture of the ambulance. The system specified herein shall be a 2-wire system with a ground. All outlets and 120-volt hard wired devices, on the ambulance, shall have ground fault interrupter protection.

AMD 010 - WATER SPRAY TEST: The ambulance specified herein shall be water spray tested for water leakage into the patient's and driver's cabins. The door to jamb seal, window installation and seals shall be tested against leakage per the National Truck Equipment Association, Ambulance Manufacturing Division Standard 010 - Water Spray Test. This test shall be conducted on EACH ambulance by the quality assurance department.

AMD 011 - EQUIPMENT TEMPERATURE TEST: The ambulance and equipment specified herein shall operate satisfactorily operate between 30 degrees and 125 degrees Fahrenheit per the National Truck Equipment Association,

Ambulance Manufacturing Division Standard 011 - Equipment Temperature Test. This standard must be type certified by an independent testing laboratory on a like test model.

AMD 012 - INTERIOR CLIMATE CONTROL TEST: The ambulance and equipment specified herein shall be equipped with a HVAC (Heating, Ventilation, and Air Conditioning) System that will meet or exceed the performance criteria set forth in the National Truck Equipment Association, Ambulance Manufacturing Division Standard 012 - Interior Climate Control Test. This standard must be type certified by an independent testing laboratory on a like test model.

AMD 013 - WEIGHT DISTRIBUTION GUIDELINES: The ambulance specified herein shall be weighed at the end of the ambulance manufacturer's production cycle to assure compliance with the National Truck Equipment Association, Ambulance Manufacturing Division Standard 013 - Weight Distribution Guidelines.

The vehicle specified herein must be weighed on a four point scale that measures the weight imposed on EACH wheel. The side to side weight difference tolerance shall not exceed five percent (5%).

The total weight imposed on the FRONT axle shall not exceed the chassis manufacturer's gross axle weight rating minus three hundred pounds.

The total weight imposed on the REAR axle shall not exceed the chassis manufacturer's gross axle weight rating minus one thousand pounds.

The aggregate total of all four points shall not exceed the gross vehicle weight rating minus eleven hundred pounds regardless of customer specified equipment.

AMD 014 - ENGINE COOLING SYSTEM TEST: The cooling system in the ambulance specified herein shall be tested to assure compliance with the National Truck Equipment Association, Ambulance Manufacturing Division Standard 014 - Engine Cooling System Test. The vehicle specified herein must be tested at the end of the ambulance manufacturers manufacturing cycle to determine if the cooling system capacity is adequate to maintain safe engine operating temperature at ninety five degrees, ambient temperature for one hour. EACH ambulance shall be checked to assure a leak and trouble free cooling system performance.

AMD 015 - AMBULANCE MAIN OXYGEN SYSTEM TEST: Each ambulance's main Oxygen System shall be tested to assure compliance with the National Truck Equipment Association, Ambulance Manufacturing Division Standard 015 - Ambulance Main Oxygen System Test. The subject vehicle specified herein must be equipped with an Oxygen system that can withstand a 150

PSI charge of dry air or Nitrogen for a period of four hours without a loss exceeding five pounds per square inch of pressure. The results of this test shall be posted inside the oxygen tank stowage compartment. A certificate shall be supplied, describing the test conditions, the initial test pressure, the final pressure (after four hours) and the name of the inspector who performed the test.

AMD 016 - PATIENT COMPARTMENT LIGHTING LEVEL TEST: The ambulance and equipment specified herein shall be equipped with patient compartment lighting that will meet or exceed the performance criteria set forth in the National Truck Equipment Association, Ambulance Manufacturing Division Standard 016 - Patient Compartment Lighting Level Test. This standard must be type certified by an independent testing laboratory on a like test model.

AMD 017 - ROAD TEST: The ambulance and equipment specified herein will meet or exceed the performance criteria set forth in the National Truck Equipment Association, Ambulance Manufacturing Division Standard 017 - Road Test. This standard must be type certified by an independent testing laboratory on a like test model.

AMD 018 - REAR STEP AND BUMPER STATIC LOAD TEST: The rear step and bumper shall be type tested to the National Truck Equipment Association, Ambulance Manufacturing Division Standard 018 - Rear Step and Bumper Static Load Test. This standard must be type certified by an independent testing laboratory on a like test model.

AMD 019 - MEASURING GUIDELINES: COMPARTMENTS AND CABINETS: The ambulance specified herein shall be in compliance with the National Truck Equipment Association, Ambulance Manufacturing Division Standard 019 - Measuring Guidelines: Compartments and Cabinets.

AMD 020 - FLOOR DISTRIBUTED LOAD TEST: The ambulance specified herein shall be type tested to the National Truck Equipment Association, Ambulance Manufacturing Division Standard 020 - Floor Distributed Load Test. This standard must be type certified by an independent testing laboratory on a like test model.

AMD 021 - ASPIRATOR SYSTEM TEST, PRIMARY PATIENT: Each ambulance's primary patient aspirator system shall be tested to assure compliance with the National Truck Equipment Association, Ambulance Manufacturing Division Standard 021 - Aspirator System Test, Primary Patient.

AMD 022 - COLD ENGINE START TEST: The ambulance specified herein shall be type tested to the National Truck Equipment Association, Ambulance Manufacturing Division Standard 022 - Cold Engine Start Test.

AMD 023 - SIREN PERFORMANCE TEST: The ambulance siren system shall be type tested to the National Truck Equipment Association, Ambulance Manufacturing Division Standard 0 23 Siren Performance Test.

AMD 024 - PERIMETER ILLUMINATION TEST: The ambulance and equipment specified herein shall be equipped with perimeter lighting that will meet or exceed the performance criteria set forth in the National Truck Equipment Association, Ambulance Manufacturing Division Standard 016 - Perimeter Illumination Test. This standard must be type certified by an independent testing laboratory on a like test model.

AMD 025 - MEASURING GUIDELINES: OCCUPANT HEAD CLEARANCE ZONES: The ambulance specified herein shall be in compliance with the National Truck Equipment Association, Ambulance Manufacturing Division Standard 025 - Measuring Guidelines: Occupant Head Clearance Zones.

Vendor Complies? Yes No

CRASHWORTHINESS:

Safety is a primary objective for modular ambulance vehicles produced under this specification. In addition to compliance with design criteria incorporated herein, manufacturer shall also provide certified documentation to provide proof of crash worthiness of vehicle(s) proposed.

Crash worthiness of vehicle shall be demonstrated through a minimum of two actual crash tests of modular body ambulance under laboratory conditions. These crash tests will be similar in scope to testing performed by the National Highway Traffic Safety Administration and the Insurance Institute for Automobile Safety to verify the crash worthiness of passenger vehicles.

An independent test laboratory accepted and utilized by the National Highway Traffic Safety Administration for their crash tests shall perform this testing and provide certification. Testing shall be performed and verified by SAE Member Engineers.

Test criteria shall be defined as a minimum of two actual high-speed impact crash tests between an ambulance and mid-size passenger vehicles. Collisions shall be into each side of manufacturer's standard production modular ambulance body mounted on a chassis, struck by an actual bullet vehicle. Crash energy at impact shall be a minimum of 3,000 pounds at 42 miles per hour.

Reports from crash testing shall be certified by testing lab, and shall include the following minimum results:

- 1) The required six-point medic restraint system shall hold all attendants in their seats. There shall be no head contact with anything except head rests. There shall be no excessive excursion of the attendants in their seats regardless of which way they were facing.
- 2) The ambulance body structure shall remain intact after both impacts. Bending of body shall be localized to point of impact, and doors adjacent to the actual crash point shall continue to operate. There shall be no intrusion into the patient compartment.
- 3) The body mount and pucks shall remain intact as a result of the impacts. There shall be no visual damage to body mounts or floor structure.
- 4) All interior cabinetry and fixtures shall remain in place and undamaged.

This provision requires actual crash testing of an ambulance by high-speed moving vehicles to validate safety and crash worthiness. Crash simulations, acceleration testing, sled testing; barrier testing or other theoretical tests are not sufficient to meet this requirement. **Certified documentation from a qualified independent testing laboratory shall be provided with the bid in order to validate compliance with this requirement.**

Vendor Complies? Yes No

QUALITY CONTROL – Specification Compliance

QUALITY ASSURANCE: The Vendor shall inspect and test all systems, electrical loads, per current Federal specification KKK-A-1822 Section 4. Testing results shall be documented and displayed in the Oxygen compartment and/or supplied with the delivery handbook.

QUALITY/COMPLIANCE ASSURANCE: A thorough quality/compliance inspection by this agency's employees or this agency's hired representative shall compare the Ambulance to the specifications within 10 calendar days of written notice of vehicle completion by the Vendor. The notice may be faxed, followed by phone contact. The Agency reserves the right to authorize the bidder's DEALER to conduct the inspection provided the DEALER is authorized and qualified to correct quality/compliance issues at the DEALER site.

Vendor Complies? Yes No

CHASSIS

OEM: The acronym OEM is Original Equipment Manufacturer. The OEM is the chassis manufacturer and the vehicles Make Origin.

CHASSIS MAKE: The apparatus shall be mounted on a commercially available cut-away cab and chassis manufactured by Ford Motor Company. The chassis

manufacturer shall be the vehicle's point of origin. The chassis shall be supplied by Ford as an incomplete vehicle to the successful ambulance manufacturer. The chassis supplied shall conform to all applicable Federal Motor Vehicle Safety Standards in force at the time of manufacture. A statement of conformity shall be supplied with the chassis in an "Incomplete Vehicle Manual".

Vendor Complies? **Yes** **No**

CHASSIS MODEL: The apparatus shall be mounted on a 2017 or newer E-450, cutaway van cab, dual rear wheel, two wheel drive chassis equipped as follows below.

Vendor Complies? **Yes** **No**

WHEEL BASE: The wheel base shall be 158 inches with a cab to axle dimension of 100 inches. **The wheel base shall be factory supplied by the OEM** Modified wheel bases made from chassis with shorter or longer wheel bases is not acceptable.

Vendor Complies? **Yes** **No**

TRIM PACKAGE: The highest level trim package shall be supplied from the OEM. The package shall include high quality chrome like bright work on the grille face. Chrome plated steel bumper(s) shall also be supplied by the OEM. Argent or painted bumpers are not acceptable. The OEM grille work shall remain OEM. After market vacuum formed, proprietary grille work made by the ambulance manufacturer is not acceptable due to replacement part cost and lack of immediate availability.

Vendor Complies? **Yes** **No**

TURNING DIAMETER: The proposed vehicle(s) turning diameter shall not exceed fifty four feet, one inch measured from one curb to another parallel curb. When measured wall to wall, the maximum turning diameter shall not exceed fifty six feet, nine inches.

Vendor Complies? **Yes** **No**

ENGINE: A V-10, gas engine shall be provided with a minimum displacement of 6.8 liters (408 cu in). The engine performance shall comply with or exceed the most current revision of KKK-A-1822.

Vendor Complies? **Yes** **No**

ENGINE BLOCK HEATER: A 750 watt 125 volt AC Engine Block Heater package shall be included on the chassis as installed by the chassis OEM manufacturer. It shall remain an independent function requiring manual power connection by the user per the manufacturer's owner's manual. After-market systems will not be acceptable.

Vendor Complies? Yes No

TRANSMISSION: A 5-speed, automatic with overdrive transmission shall be provided. A Tow/Haul selectable mode shall be provided that compensates for altitude, grade and load conditions.

Vendor Complies? Yes No

GROSS VEHICLE WEIGHT RATING (GVWR): The GVWR of the chassis supplied shall be at least 14,500 pounds.

Vendor Complies? Yes No

FRONT AXLE WEIGHT RATING (FAWR): The FAWR shall be rated no less than 5,000 pounds.

Vendor Complies? Yes No

REAR AXLE WEIGHT RATING (RAWR): The RAWR shall be rated no less than 9,600 pounds.

Vendor Complies? Yes No

CAB INTERIOR COLOR: The color of the cab interior shall be gray. All conversion manufacturers' added consoles and devices shall be pleasing in color with the interior color provided by the OEM.

Vendor Complies? Yes No

REAR SUSPENSION - SPRINGS: The unmodified OEM springs shall be supplied. The springs shall be single stage, constant rate leaf type with a combined 9,450 pound rating, measured at the ground.

Vendor Complies? Yes No

CAB FLOOR COVERING: The cab floor shall be covered with an OEM black rubber mat.

Vendor Complies? Yes No

BRAKES: 4-wheel anti-lock, power assisted hydraulic brakes shall be supplied by the OEM the brakes shall be 4-wheel Disc type with Dual piston calipers. The front disc diameter shall be 13.03 inches in diameter and the rear disc shall be 12.90 inches in diameter. The parking brake shall be a foot operated, independent mechanical drive line brake, provided by the OEM.

Vendor Complies? **Yes** **No**

TILT STEERING WHEEL: The steering wheel shall be tilt adjustable. An easy to operate, column mounted pull to adjust lever shall lock the steering wheel angle position.

Vendor Complies? **Yes** **No**

SPEED CONTROL: Ford Speed Control option Code 525 shall ordered on the chassis.

Vendor Complies? **Yes** **No**

AIR BAG DE-ACTIVIATION: There shall be an OEM switch in the dash to deactivate the passenger side supplemental dash air bag.

Vendor Complies? **Yes** **No**

INTERIOR UPGRADE PACKAGE: Ford interior upgrade package shall be ordered and supplied on the chassis. This package shall include:

- Cloth Headliner
- High trim door panels
- Ford option code 21A high back bucket seats
- Cloth sun visors
- Power Door locks
- Power Windows
- Insulation package

Vendor Complies? **Yes** **No**

DOOR LOCKS: The chassis shall have OEM power door locks. There shall be a remote OEM key fob included with the package.

Vendor Complies? **Yes** **No**

DAYTIME RUNNING LIGHTS: Daytime running light option No 942 shall be supplied and installed by the OEM. Both headlights shall come on with the ignition switch.

Vendor Complies? **Yes** **No**

SHOCK ABSORBERS: The chassis supplied shall be equipped with one shock absorber for each side of each axle. An OEM selected one and three eighth (1-3/8") inch gas type shock shall control vehicle spring oscillation and dampen road related jounce and harshness. Ambulance related shields, floor members or other devices shall not interfere with shock replacement.

Vendor Complies? **Yes** **No**

FRONT STABILIZER BAR: A computer selected, one inch diameter anti-sway bar shall be supplied. The bar shall regulate body shift and enhance drive-ability, handling and control. The solid torsion spring steel bar shall be attached to the vehicle frame utilizing natural rubber bushings and removable steel bushing housings. The ends of the bar shall be inserted into natural rubber bushings, located near the front wheels. Both axle attachment points shall be cast into the forged steel, I-beam front axle.

Vendor Complies? **Yes** **No**

REAR STABILIZER BAR: A computer selected, one and one eighth inch (1-1/8") diameter anti-sway bar shall be supplied. The bar shall regulate body shift and enhance drivability, handling and control. The solid torsion spring steel bar shall be attached at two points on the rear axle and to two 9/16" diameter sway bar links that are through bolted the web of the vehicle frame. Each flexible connection point shall be isolated with natural rubber bushings.

Vendor Complies? **Yes** **No**

FUEL TANK: The fuel capacity shall be at least 55 US gallons. The fuel range shall be at least 250 miles per current KKK-A-1822.

Vendor Complies? **Yes** **No**

REAR AXLE TYPE AND RATIO: The axle type shall be a Limited Slip Differential with a 4.56:1 gear ratio.

Vendor Complies? **Yes** **No**

SPARE TIRE: The spare tire and wheel assembly will not be carried on the unit. The spare tire and all the related tools, shall be supplied by the OEM and shall be shipped loose with the completed vehicle.

Vendor Complies? **Yes** **No**

TIRES: All tires shall be identical make, tread type, size and load range. For GVWR the tires shall be LT225/75R16 load range E. A label with the recommended tire pressure shall be located above each wheel opening, unless specified otherwise by the purchaser. All tires shall be balanced per current KKK-A-1822.

Vendor Complies? **Yes** **No**

AMBULANCE PREPARATON PACKAGE: The chassis provided shall be equipped with an ambulance preparation package designed and installed by the OEM. The package shall be designed to hold up to the demands and duty cycles inherent with Emergency Medical Vehicles.

Vendor Complies? **Yes** **No**

ALTERNATOR - CHARGING SYSTEM: Ford's option No 63N single alternator option shall be supplied and installed by the OEM. The single alternator shall have an output of 225 amperes, measured with an under hood temperature of 200 degrees Fahrenheit. The alternator shall be controlled by the vehicle on board computer. The alternators' output cable, originally connected directly to the positive post of the under hood battery, shall be rerouted to a 3/8" diameter, solid brass junction post. A 2/O positive battery cable shall reconnect the alternator to the batteries from the junction post. The ambulance load cable shall connect under the hood to the aforementioned junction post.

Vendor Complies? **Yes** **No**

CAB STEREO: An OEM AM/FM/CD in dash radio and two cab door speakers shall be included with the chassis. The radio features a clock and auxiliary input jack.

Vendor Complies? **Yes** **No**

SIDE REAR VIEW MIRRORS: Dual Velvac-Mirrors with power adjusted mirror glass and manually telescoping mirror heads, shall be mounted to the forward, lower corner of the cab door window. Both mirrors shall feature a bi-directional break-away function to permit folding the mirror heads against body in close quarters. The mirrors shall be seven inches wide by eight inches high and flat on both right and left sides. Additionally convex mirrors shall be provided below each flat glass area on both sides to minimize blind spots.

Vendor Complies? **Yes** **No**

WHEEL/RIM APPEARANCE: All four outside chassis wheels shall be Phoenix polished stainless steel wheel simulators. The wheel simulator design shall not affect tire and wheel balance when the vehicle is driven between zero and eighty miles per hour. The lugs shall be capped off with bright stainless steel, snap on caps designed to cover wrench marks, normally left on the lug nuts. No vendor logo should be included on the wheel.

Vendor Complies? **Yes** **No**

THROTTLE CONTROL: There shall be a set of diodes and resistors connected to OEM provided wiring to activate the High Idle function when conditions are met. When the vehicle is in Park, parking brake engaged, and the coolant has reached 140 degrees Fahrenheit the high idle system shall activate during a low power indication.

Vendor Complies? **Yes** **No**

TIRE VALVE EXTENDERS: One pair of tire valve extenders shall supplied and installed for each inside rear wheel. The tire valve extenders shall permit the user to check tire pressure and fill the inside rear tires without removing the outer tire.

The extenders shall have a braided stainless steel outer jacket to resist abrasions and cuts. The filler end shall be supported by a valve bracket.

Vendor Complies? **Yes** **No**

MODULE CONSTRUCTION - GENERAL

SERVICE INTENT: The ambulance body shall be all aluminum. The body sheet shall be reinforced with structural members designed to resist deflection and hold up to extreme ambulance service per the latest revision of federal specification KKK-A-1822.

Vendor Complies? **YES** **NO**

BODY MEMBER ALLOY: The side, roof, front and rear sheet shall be derived from .125", 5052-H-32 aluminum sheet. The roof sheet shall be one (1) piece, .090", from roof rail to roof rail. The side structure and structural shapes shall be extruded of 6105-T5 aluminum.

Vendor Complies? **YES** **NO**

STRUCTURAL INTEGRITY: The body shall be capable of providing impact, deformation and penetration resistance in the event of a collision. The body structure shall be capable of passing a standalone static load test on a type-tested body. The test shall be conducted in accordance to AMD-001 **except the test weight shall be a minimum of 55,000 pounds**. The same unit shall be subjected to the same test with the body turned on its side. A complete copy of the testing documents with photos, must be supplied upon bid review if requested by this agency. Non-compliant bids will be rejected.

Vendor Complies? **YES** **NO**

WELD QUALITY: All welds within the modular body shall meet American Welding Society codes for structural and sheet welding. Compliance documentation must be supplied upon bid review if requested by this agency.

Vendor Complies? **YES** **NO**

CREVICE PREPARATION: All skin and extrusion surfaces destined to be mated together, shall be primed with epoxy, etching primer prior to assembly. All overlapping extrusion to skin surfaces shall be bedded with a two part acrylic high strength bonding adhesive.

Vendor Complies? **YES** **NO**

SIDE STRUCTURAL MEMBERS: The sheet edges will be fit into slots designed within a proprietary, double hollow, corner post extrusion in addition to the two part acrylic bonding agent. The sheet will be MIG welded and structurally bonded to the extrusion. Double-hollow designed corner post extrusions shall be used to weld side and end assemblies together. Horizontally oriented, adjoining

structural box tubes shall be welded to the corner post with a minimum 50% surface weld. The intermediate structural members of the side grid shall be two (2) inch by two (2) inch 6105-T5 aluminum, architectural box tubing. All entry and compartment door adjacent members shall be one quarter (1/4") inch, two (2) inch by two (2) inch proprietary extruded shape. The main structure shall surround the compartment openings and provide intermediate skin support. The intermediate structure spacing shall have a nominal dimension of twelve (12) inches. All grid structure shall be welded together with a minimum of 75% of available mating surface. The side skin shall be bonded to the structural grid using (1.75") wide, VHB (Very High Bond) adhesive tape. The edges of the tube that touch the skin will be sealed with Bostik Brand, Simson ISR 70-03 Construction Adhesive.

Vendor Complies? **YES** **NO**

SIDE IMPACT RAILS: There shall be four (4) side impact rails, located in the upper and lower sections of the side walls. They shall consist of 6105-T5 aluminum, that is solid half (1/2) inch thick by four (4) inch plate on the curbside and one-half (1/2) inch by four (4) inch plates on the street side that are continuously MIG welded or Huck structurally fastened to the structural grid. Since this is a safety item, no exceptions will be accepted.

Vendor Complies? **YES** **NO**

SEAT BELT ANCHORAGE: Occupant seat belts shall be drilled and tapped through one-half (1/2) inch by four (4) inch plate on the curbside and one-half (1/2) inch by four (4) inch plates on the street side that are continuously MIG welded to the structural grid. Since this is a safety item, no exceptions will be accepted.

Vendor Complies? **YES** **NO**

SIDE SHEET: The side sheet shall be .125 thick, 5052-H32 aluminum. The side sheet compartment opening cut outs shall be cut with CNC controlled, gantry mounted plasma or high speed routing equipment. The door opening shall be cut to allow for the skin to be molded into the jamb opening to create a crevice free jamb with a smooth paint finish. The machine formed skin shall return into the body at least 3/4" to meet the jamb extrusion. This method will encourage square openings to receive the door assemblies and maintain critical structural locations. The door jamb shall have a full structure frame behind the jamb skin return. It shall not rely strictly on the skin for the compartment jamb. Pre-determined ventilation louvers shall be *formed* into the body sheet, where specified. *A seamless door jamb exterior is required to minimize corrosion. Extruded type exposed door jambs do not meet this specification. The skin shall completely conceal the door-jamb from view.* The only visible seams on the body sheet shall be at the corner posts. The skin shall extend .688" below the skirt rail extrusion to a drip edge to keep moisture from collecting underneath where the skin meets the skirt rail extrusion.

Vendor Complies? **YES** **NO**

CORNER POST EXTRUSION: The corners of the modular body shall be made from an extruded aluminum structure that has an alloy of 6063-T6. The corner post extrusion shall be 3.25" x 3.25" with a 2" radius on the outer corner. The corner post extrusion shall have an internal web member that runs on a 45 degree angle to the front and side of the modular body. Where the internal web meets the exterior extrusion wall the internal web shall flair into a .125" radius giving a .25" wall thickness at the exterior wall of the extrusion. There shall be a .75" flange on each side of the corner post extrusion that is a side skin receiver. The side skin receiver shall be funnel shaped to allow the exterior side skin to fully seat into the corner post extrusion. The interior walls of the corner post extrusion shall be .125" thick and they shall incorporate a 45 degree weld bevel on the interior corners.

Vendor Complies? **YES** **NO**

REAR SILL EXTRUSIONS; the rear body and floor substructure shall be constructed of a dual proprietary aluminum extrusion with mating joints. The lower floor extrusion is a combination continuous extrusion with an incorporated L mating surface. The lower door extrusion is a multi-chamber construction with matching radius corner and surfaces to the floor sill. This combination of extrusion and joint structure provides for strong joint strengths, and continuous contact surface between the floor sill and the outer-body door extrusion.

Vendor Complies? **YES** **NO**

FRONT AND SIDE WALL GUSSET PLATES: The front wall and side wall structural members shall have additional support with a fully welded gusset system that shall be made of 5052-H32 aluminum plate, one quarter (1/4) inch thick by four (4) inch by four (4) inch.

Vendor Complies? **YES** **NO**

REAR AND SIDE WALL GUSSET PLATES: The rear wall and side wall structural members shall have additional support with a fully welded gusset system that shall be made of 5052-H32 aluminum plate, one quarter (1/4) inch thick by four (4) inch by four (4) inch.

Vendor Complies? **YES** **NO**

ROOF RAIL EXTRUSIONS: The roof corners of the modular body shall be made from an extruded aluminum structure that has an alloy of 6063-T6. The roof rail extrusion shall be 4.55" x 3.5" with a 2" radius on the outer corner. A full length drip rail shall be incorporated into the roof rail corner post extrusion, drip rails at the top of the modular body that are not inclusive of the roof rail extrusion do not meet the intent of the specification and are deemed non-compliant to this specification. The roof rail extrusion shall have an internal web member that runs on a 45 degree angle to the front and side of the modular body. Where the internal web meets the exterior extrusion wall the internal web shall flair into a .125" radius

giving a .25" wall thickness at the exterior wall of the extrusion. There shall be a .75" flange on the lower side of the roof rail extrusion that is a side skin receiver. The side skin receiver shall be funnel shaped to allow the exterior side skin to fully seat into the roof rail extrusion. There shall be a .75" x .125" recess into the roof side of the extrusion for locating the roof sheeting. This recess shall have a 45 degree weld bevel. The interior wall of the roof rail extrusion that is in-board of the side skin funnel shall be 2" wide so that they line up with the exterior side wall. The interior wall of the roof rail extrusion that is in-board of the roof sheeting recess shall be 2.25" wide so that they line up with the 2.25" roof bows. The interior walls of the roof rail extrusion shall be .125" thick and they shall incorporate a 45 degree weld bevel on the interior corners.

Vendor Complies? **YES** **NO**

ROOF SHEET: The four (4) edges of the sheet shall be continuously welded to the roof rail extrusion to prevent leaks. All perimeter welds shall be ground smooth and worked smooth prior to the overall body paint and finish. Non-fully welded roof sheets to the roof rail extrusions do not meet the intent of this specification and are deemed non-compliance to this specification.

Vendor Complies? **YES** **NO**

ROOF BOWS: The roof sheet shall be supported by full width .125" x 2" x 2.25" architectural box tubing. The roof bows shall be located on twelve (12) inch centers. The roof bows shall be MIG welded to the roof rail extrusions with no less than four (4) and one-half (1/2) inches of continuous weld per end. The roof sheet shall be bonded to the roof bows with VHB (Very High Bond) adhesive tape.

Vendor Complies? **YES** **NO**

ROOF CORNERS: The roof rail extrusions shall be welded together along the roof bow mating walls at the corners. In addition, the outer surfaces of the roof rail extrusions shall be 100% continuously TIG welded to cast aluminum corner castings. The castings shall have internal mating flanges that extend horizontally inside the upper roof rail extrusion and vertically down the corner post extrusions.

Vendor Complies? **YES** **NO**

FLOOR MEMBERS: Floor structures shall be 6105-T5 aluminum, one-quarter (1/4) inch by 1.500 by 3.000 aluminum, architectural proprietary shape with bevels built into the extrusion die to allow for full weld penetration on the edge of the extrusions. The die must be designed so that the inside of the corner has the same thickness of aluminum as the remaining four sides.

Vendor Complies? **YES** **NO**

FLOOR GUSSET PLATES: The floor member to side wall fully welded gusset system shall be made of 5052-H32 aluminum plate, one quarter (1/4) inch thick by

four (4) by four (4) inch and quarter (1/4) inch x six (6) inch x six (6) inch. A minimum of 12 gussets shall be located, dual gusset plates at each main cross member site.

Vendor Complies? ___ YES ___ NO

FULL WIDTH CROSS MEMBERS: The module floor shall provide core support for the side assemblies and shall incorporate a minimum of three (3) full body width floor members shall connect to and support the side wall assemblies. Each member shall be made of 6063-T6 aluminum. The front floor tube is to be a minimum of 3.000 x 1.500 x .250 thick 6105-T5 aluminum tube which is fully MIG welded into the front corner post at each side of the vehicle. On top of the tube is to be a minimum .188 thick 5052 aluminum front sill running full width of the body. One of the members located just forward and/or rear of the rear wheel housing shall be one-quarter (1/4) inch by 1.500 by 3.000 rectangular architectural box tubing. The last floor cross-member shall be a 1.625 x 2.188 x .250 6105-T5 aluminum tube on the rear wall which is fully MIG welded into the rear corner posts at each side of the vehicle. This tube is butted up and welded to a 2.000 x 1.000 x .125 thick 6105-T5 tube which is also fully MIG welded to the rear corner post. A minimum of eight (8) total 6" gussets, (1/4) inch thick will be installed to reinforce two (2) at each cross member and sidewall tubes directly fore and aft of the axle.

Vendor Complies? ___ YES ___ NO

WATER TIGHT PATIENT CABIN: The sub floor shall be shielded from moisture. A forty (40) mil thick aluminum sub sheet shall be sealed to the floor structure with silicone sealant. Additional aluminum plates shall be intermittent welded between compartments, wheel well liners, step wells and fuel filler housings. All of the areas shall be thoroughly sealed from one to the other, creating a sealed patient cabin from the outside. Extrusion hollows shall be filled with expandable foam sealant to prevent fumes and moisture from entering.

Vendor Complies? ___ YES ___ NO

DOOR CONSTRUCTION

DOOR SKIN: No welded seams are allowed, only one piece formed corners. The door skin shall be .090 thick, 5052-H32 aluminum sheet formed on all four sides utilizing an ACF Multiplex Corner Former Model MF 25 to create a crevice free surface for best paint adhesion and corrosion resistance. The formed edges shall not have elongation cracks due to forming and shall maintain material thickness uniformly over the entire sheet. The formed edges uniformly round off seamless for better paint adhesion and aesthetic appeal that does not require cutting and welding in the corners.

Vendor Complies? ___ YES ___ NO

DOOR FRAMING: The door frame shall reinforce the perimeter of the skin pan. The extrusion shall incorporate a T-slot to receive an extruded, hollow, dual durometer closed cell UV protected TPV gaskets with relief holes for even compression for a proper and complete seal from the door to the door jamb. The gasket corners shall be welded without using adhesives for bonding. The door frame extrusion shall also add torsion resistance to the door assembly. The door jamb extrusion and frame extrusion shall be cut 45 degree on each corner. Each of the four corners shall incorporate a key way and spline that is designed to drive into each corner and maintain a perfect 90 degree angle prior to welding. The door castings shall include gusset plates for additional support for the door construction. The door frame shall also incorporate a clearance way for UNF threaded blind fasteners for the door panels. The door panel shall not rest on the body of the blind fasteners.

Vendor Complies? **YES** **NO**

FINAL DOOR ASSEMBLY: The door skin shall be bonded to the frame assembly with an adhesive sealant in addition to intermittent welding. For entry doors: Additional, horizontal structure shall be added to maintain door skin flatness as well as penetration resistance in the event of a collision. The horizontal members are extruded J-channel, 0.150” thick. A minimum of two (2) horizontal members shall be welded in. A vertically oriented 0.150” thick formed hat-channel shall be welded to the webs of both horizontal channels for additional buckling resistance. Compartment doors shall have a reinforcement system of horizontal or horizontal/vertical structure added to maintain skin flatness and impact resistance.

Vendor Complies? **YES** **NO**

ENTRY DOOR WINDOW(S) OPENINGS: The entry door(s) shall incorporate recessed areas that are stamped into the outer door skin to allow for a flush window appearance and shall not protrude with a lip on the outer door skin of the modular body.

Vendor Complies? **YES** **NO**

DOOR PANELS: The inside entry door panels shall be made of (.080”) thick aluminum plate and shall be finished per these specifications later in this document. The center panel shall be removable for easy lock service/lubrication. The inside of the compartment door panels shall be made of (.080”) thick polished aluminum diamond plate. The edges of the door panel shall be recessed into the door frame extrusion. The panels shall be fastened to the door frame with stainless steel, #10-32 UNF machine screws threaded into aircraft quality blind fasteners. Each fastener shall have an internal tooth lock washer to preclude loosening.

Vendor Complies? **YES** **NO**

DOOR JAMB: The door jamb shall accommodate rigid fastening of compartment door hinges. The jamb shall include a hollow cell that shall conceal wiring for the non-mechanical door switch. The door jamb frame shall be cut 45 degree on each corner from the door edge corner, each of the four corners shall consist of a key way and spline that is designed to drive into each corner and maintain a perfect 90 degree angle prior to welding. Additionally, the jamb shall be continuously MIG welded on the inside and the outside corners. *A seamless door jamb exterior is required to minimize corrosion extruded type door jambs do not meet this specification. The skin shall completely conceal the door-jamb from view. "No Exterior Door Extrusions Allowed".*

Vendor Complies? **YES** **NO**

HINGE: All doors shall have stainless steel, continuous, piano hinge. The pin diameter shall be .250 and staked into place to prevent drifting out of the hinge leaf. The knuckle lengths shall be one inch. The hinge attachment bolts shall be one quarter inch diameter by one inch long stainless steel Type TT (Thread Rolling Screws) hex head bolts. All tapped holes for hinge bolts shall be treated with an anticorrosion compound prior to installation of each hinge bolt. Thread cutting screws are not acceptable. Each hinge leaf shall have a Mylar insulation strip (3M Scotch No 8411) between the leaf and the Jamb/Door.

Vendor Complies? **YES** **NO**

LATCHES: The latches shall meet FMVSS 206. All latches shall be two-stage, rotary type. The latches shall be through bolted to the door frame extrusion. All entry doors shall have two rotary latches per door. To assure uniform latch timing and functional door reliability, only straight, one-quarter (1/4) inch diameter rods shall connect the latches to the handle. All double hung compartment doors shall have two rotary latches per door.

Vendor Complies? **YES** **NO**

NADER PINS: All nader pins shall be headed to prevent the door(s) from opening under impact. They shall be hex headed Grade-8 fully adjustable with a 5/16" thick knurled stainless steel retainer plate to keep the nader pin from moving after adjusted. The opening in the door jamb extrusion shall be large enough to allow full adjustment with the nader pin washer covering the hole.

Vendor Complies? **Yes** **No**

BODY BUILD INFORMATION

DOOR CHECK: The curbside entry door shall be equipped with a door check (hold open) device. All vertically hinged doors in excess of 13" pass through width shall have a gas operated bi-directional spring shock door check. Door check brackets shall be drilled and tapped through a minimum of 3/8" material to preclude coming loose.

Vendor Complies? **Yes** **No**

CAB EXTENSION: The cab length shall be extended ten (10) inches beyond the OEM cab back. With the seat backs set in a normal, comfortable angle, both driver and passenger seats must have 100% of the OEM seat travel without interference between the seat and the finished bulkhead wall. A rigid integral aluminum channel frame shall be built into the body front to accommodate this requirement. The channel frame shall extend from the module floor to the roof rail as well as a horizontal channel that is height aligned with the cab roof. The cab extension frame work shall enhance the strength of the cab and shall be positioned to receive twenty five (25), 1/4" x 28 cab to body attachment bolts. The cab extension area shall be professionally finished in heavy duty vinyl upholstered plywood panels. The vinyl color shall be keyed to the cab and all fasteners shall be concealed with snap on, upholstered button shaped caps. Fiberglass cowls or cab extensions are not acceptable. Fiberglass extensions tend to crack, leak and offers little structural enhancements to the cab.

Vendor Complies? **Yes** **No**

COMPARTMENT CONSTRUCTION

MATERIALS: Unless specified otherwise, all exterior compartment walls and backs shall be constructed of .100 polished aluminum diamond plate. All compartment floors shall be formed of .125 aluminum sheet. Compartments for generators, oxygen, and backboards will have .250 compartment floors. All compartment ceilings shall be formed of .090 aluminum sheet. The ceilings and floors shall form around the sides and back to provide an overlapping joint. The floor and ceiling surfaces shall be double action (DA) sanded to 180 grit. The floors and ceilings are bonded to the walls and back and intermittent welded on six (6) inch centers.

Vendor Complies? **Yes** **No**

DRAIN HOLES: Drain holes shall be provided on the bottom of the compartments. Each hole shall be baffled to prevent splash water from entering the compartment.

Vendor Complies? **Yes** **No**

COMPARTMENT DOOR PANEL: The inside door panel of this compartment shall be smooth aluminum.

Vendor Complies? **Yes** **No**

CEILING VENTILATION: Specified compartments shall have a hat channel at the ceiling level. The hat channel shall run to no closer than 1" from the compartment side walls to allow for air exchange. Hidden from view, shall be two to three, (4") holes above the hat channel to exhaust the compartment air when the door is closed to allow it to close with minimal effort.

Vendor Complies? **Yes** **No**

VENTILATION: There shall be three sets of six louver punches on the outside and inside door panel to properly ventilate the electrical components located in the above mentioned compartment.

Vendor Complies? **Yes** **No**

VENTILATION: There shall be a hole in the compartment below floor line approximately 5-3/8" wide x 2-9/32" tall that will accept a specially designed baffled vent. The baffles shall have a stainless steel spring that allow for only one way operation. They allow air to escape out of the compartment when the door is closed, but not for air to come back into the compartment to keep dirt and dust out of the compartment interior. Engineering shall determine the amount of these vents required by the volume of space in the compartment.

Vendor Complies? **Yes** **No**

CURB SIDE ACCESS DOOR: The curbside access door shall be at least 73 13/16" high by 31" wide measured at the door jamb opening.

Vendor Complies? **Yes** **No**

CURB SIDE ACCESS DOOR LOCATION: The module side entry door shall be located on the curbside of the module, just rearward of the ALS cabinet to provide efficient egress into the module.

Vendor Complies? **Yes** **No**

BIO-WASTE CLOSEOUT: Outside enclosure box for interior only access to the bio-waste receptacle shall be provided in the exterior compartment. The closeout shall be located in the upper right hand corner of the compartment, aligned with the bio-waste cavity built into the action area tray. The closeout shall be made out of the same material as the compartment interior and shall be finished out as though it was designed to be there and not screwed in place as an afterthought.

Vendor Complies? **Yes** **No**

LEFT FRONT COMPARTMENT (M-1): This compartment shall be located in the left front corner of the modular body. The minimum compartment dimensions shall be 79.8" high x 18.6" wide x 19.4" deep.

Vendor Complies? **Yes** **No**

LEFT FRONT MIDDLE COMPARTMENT (M-2): This compartment is located adjacent and rearward to the left front compartment. The minimum compartment dimensions shall be 31 1/2" High x 44 1/2" Wide x 19 7/16" Deep.

Vendor Complies? **Yes** **No**

RIGHT REAR COMPARTMENT (M-5): This compartment shall be located in the right rear corner of the body. The minimum compartment dimensions shall be 79 13/16" High x 25 5/8" Wide x 21" Deep.

Vendor Complies? **Yes** **No**

RIGHT REAR FORWARD COMPARTMENT (M-6): This compartment shall be located just forward of the right rear compartment aft of the rear wheel opening. The minimum compartment dimensions shall be 17 1/4" High x 13 13/16" Wide x 19 3/16" Deep.

Vendor Complies? **Yes** **No**

RIGHT FRONT COMPARTMENT (M-7): This compartment shall be located in the right front corner of the module body. The minimum compartment dimensions shall be 46 5/8" High by 25 1/4" Wide. The compartment door shall provide direct outside access into the right front advanced life support equipment storage area.

Vendor Complies? **Yes** **No**

RIGHT FRONT BATTERY COMPARTMENT (M-8): This compartment shall be located in the lower right front corner of the module body. The minimum jamb pass through dimensions shall be 12 1/8" High x 25 1/4" Wide x 21.4" Deep. The 2-battery tray shall accommodate two group 31 series batteries and be mounted on full extension slides with a 250 pound per pair rating.

Vendor Complies? **Yes** **No**

REAR ACCESS DOORS: The rear of the module shall be equipped with double, hinged patient compartment access doors. The doors shall be centered on the body and align with the patient compartment aisle space. The doors shall measure 46 3/4 inches wide by 60 5/8" high, jamb to jamb.

Vendor Complies? **Yes** **No**

REAR ACCESS DOOR JAMB: At the rear access doors, a full width, formed, stainless steel jamb protection plate shall be provided to prevent the cot frames from chipping the paint. The stainless steel protection package shall start from under the kick plate and follow the contour of the jamb extrusion, cover the end of the sub-floor and cover the last four inches of the vinyl floor covering.

Vendor Complies? **Yes** **No**

LOAD HEIGHT: Load height is defined as the vertical measurement from the level ground to the finished floor plane. The load height specified herein shall not exceed the current Federal specification KKK-A-1822.

Vendor Complies? **Yes** **No**

STEP WELL: A curbside entry door shall feature a "step well" to assist in patient cabin egress. The step shall have a tread dimension of not less than 10 inches. The riser dimension shall not exceed nine and one-half inches, measured from the step tread to the floor of the patient cabin. The upper step shall be reduced in overall width to the space available to create a pocket on the rearward side. There shall be

installed a retention system for storage of portable oxygen bottles. A right angled trim, made of bright aluminum diamond plate, shall be formed over the flooring material and wrap around the 3-sided perimeter of the step well. Step well material shall be 0.100 thick, Polished aluminum diamond plate. The step well shall be illuminated. The step well shall meet or exceed the current revision of Federal specification KKK-A-1822.

Vendor Complies? **Yes** **No**

MOUNTING SYSTEM: The outside dimension, across the frame rails on this chassis is forty-two inches. Ford provides ten factory punched, one and one-half inch diameter mounting holes in the frame. The after-market provider shall drill (not torch) two additional holes within seven inches of the end of the OEM frame. Outrigger mounts on this chassis are not acceptable. Outriggers are not necessary and restrict compartment depth. Each mount shall accommodate a natural rubber vibration isolator and support for the body's mounting sill. All mounting sills shall be made of one inch thick by three inch wide solid aluminum flat bar. A grade L-9 seven sixteenth inch diameter by four-inch long hex-head bolt shall be used to bolt the sill down at each isolator site.

Vendor Complies? **Yes** **No**

MODULE CONFIGURATION

OVER ALL LENGTH: The overall length of the vehicle shall not exceed twenty-three (23) feet, nine (9) inches. The departure angle and length shall meet or exceed the current revision of Federal Specification KKK-A-1822.

Vendor Complies? **Yes** **No**

MODULE LENGTH: The module length shall be at least one hundred seventy two (172) inches.

Vendor Complies? **Yes** **No**

MODULE WIDTH: The module width shall comply with the current revision of Federal Specification KKK-A-1822. The module shall be ninety five (95) inches wide, excluding lights and accessories.

Vendor Complies? **Yes** **No**

MODULE HEAD ROOM: The module shall not be less than seventy two (72) inches actual measured headroom. The measurement shall be taken from the patient compartment floor to the ceiling panels.

Vendor Complies? **Yes** **No**

LEFT REAR COMPARTMENT (M-3): This compartment shall be located in the left rear corner of the body. The minimum compartment dimensions shall be 58 1/2" High x 33 1/8" Wide x 19 7/16" deep.

Vendor Complies? **Yes** **No**

COMPARTMENT DRAWER FRONT (M-8): A single non-hinged compartment door shall be bolted to the rollout tray. The door construction shall utilize the same construction techniques and materials that are used for the other hinged doors found on the unit body compartments. This front shall have two striker pins, one on each end of the door. The tray front shall support the door squarely with the jamb. The door shall roll out with the tray as a drawer front configuration.

Vendor Complies? **Yes** **No**

BODY DROP: The Curbside of the modular body ahead of the rear wheels skirt shall be 3" lower than the street side and behind the rear wheels. This will allow the curbside entry step to be lower to ground level making it easier to enter the curbside entry door and meet the requirement of KKK-A-1822 latest revision.

Vendor Complies? **Yes** **No**

EXTERIOR ENTRY AND COMPARTMENT DOOR HANDLES: Large chrome plated, die cast paddle handles shall be provided to open all module doors. Blind fasteners shall be used to fasten the handles to the door from the backside. Blind Stabilizer pins shall be incorporated on the backside of the handle for alignment purposes. Every paddle handle shall have an isolation gasket between the paddle body and the door skin. All door skin surfaces shall be painted prior to installation of the handle hardware. All paddles, on single hung and leading double doors shall be locking type and keyed the same (unless specified otherwise). Trailing doors shall; have non-locking paddle handles, mounted on the outside of the door. The Handle shall have a bright chrome like finish mounted into the bright chrome dish. When the door is in the locked position, the handle shall extend when pulled like an automotive handle (free floating) to show the operator that the door is locked and needs to be unlocked to be opened. Systems that utilize a handle that does not free float shall not be accepted as it could bind up the inner hardware and shorten the life of the door operation and timing.

Vendor Complies? **Yes** **No**

INTERIOR ENTRY AND COMPARTMENT DOOR HANDLES: The interior handle shall be lever type. A Lock/Unlock lever shall be installed below the inside lever handle and be clearly marked Lock/Unlock. The inner chrome plated handle shall have a black powder coated cast aluminum bezel for strength.

Vendor Complies? **Yes** **No**

OVER FILL PROTECTION: The painted surface, located under the fuel fill housing shall be protected with .100 polished diamond plate. The plate shall run from the fill housing to the skirt line of the module and be 12" wide at the widest point before any fender flare taper.

Vendor Complies? ___ Yes ___ No

FUEL FILLER AND HOUSING: The filler neck supplied by the OEM shall be used. The filler neck shall be vented and be diameter indexed to accommodate a FUEL pump nozzle. The fuel filler neck shall be bolted to a cast aluminum fill housing. The filler housing shall be an open design with a bright polished mounting flange. The housing configuration and filler installation shall comply with the OEM Body Builders Layout Book. The fuel filler neck shall be grounded directly to the frame rail to prevent static electric charges from igniting the fuel vapors during refueling. The fuel filler cap shall be supplied by the OEM. The cap shall be attached to the filler housing with a lanyard. The filler cap shall incorporate an over-tighten protection device that ratchets, when the preset cap torque is reached.

Vendor Complies? ___ Yes ___ No

UREA FILLER AND HOUSING: The filler neck shall be a Cast Products Inc. model FG4503-1-163. The filler neck shall be vented and be diameter indexed to accommodate the DEF nozzle. The fuel filler neck shall be bolted to the cast aluminum fill housing. The housing bezel shall be bright and polished. The housing configuration and filler installation shall comply with the OEM's Body Builders Layout Book. The filler cap shall be supplied by the OEM.

Vendor Complies? ___ Yes ___ No

DOOR JAMB SILL PROTECTION: On the compartments specified below, the paint on the bottom horizontal portion of the door jamb shall be protected by a twenty (20) gauge minimum stainless steel protection plate. This plate shall originate at the toe of the door jamb lip (where it mates against the skin), then forms around the lower flat surface, then forms up across the gasket mating surface and finally forms across the inner jamb surface and terminates where the compartment meets the jamb.

M-1: Left Front Compartment - Single Bend

Left Front Compartment Bottom Door Jamb.

M-2: Left Front Middle Compartment - Single Bend

Left Front Middle Compartment Bottom Door Jamb.

M-3: Left Rear Compartment - Single Bend

Left Rear Compartment Bottom Door Jamb.

M-5: Right Rear Compartment - Single Bend

Right Rear Compartment Bottom Door Jamb.

M-6: Right Rear Compartment - Single Bend

Right Rear Forward Compartment Bottom Door Jamb.

M-7: Right Front Compartment - Single Bend
Right Front "ALS" Compartment Bottom Door Jamb.

Vendor Complies? **Yes** **No**

BODY PROTECTION AND TRIM PACKAGE:

BODY PROTECTION AND BRIGHT WORK

Step Well, CURBSIDE Entry, 2-Step DP, Elongated for Portable O2

FRAMING: The rear step bumper shall exceed the current revision of KKK-A-1822. The bumper shall be framed in with ¼ x 2 x 4 aluminum 6063-T6 rectangular tubing. The bumper shall be bolted directly to the chassis frame. In addition the top of the bumper shall be mounted below the body skirt-line, so that minor collisions do not damage the body. The bumper will collapse under the body.

Vendor Complies? **Yes** **No**

OUTER PONTOONS: The outer bumper ends (pontoons) shall be covered in .100 polished aluminum diamond plate. The outer corners shall have an angle of 50 degrees. Each pontoon cover shall be through bolted to the bumper frame with stainless steel, pan-head, Phillips head, ¼-20 bolts and Nylock nuts.

Vendor Complies? **Yes** **No**

DEPTH OF BUMPER: The rear bumper shall protrude from the rear surface of the module body to the rearward most metal surface by at least eleven inches (11") and not more than eleven and one-half inches (11 1/2").

Vendor Complies? **Yes** **No**

SKIRT RAILS: The entire skirt-line of the body, forward and aft on the rear wheels shall have formed .188" diamond plate skirt rails to protect the body. Each skirt rail shall meet current Federal Specification KKK-A-1822. Each rail shall be chamfered 45 degrees at both ends. The rails shall be fastened through the bottom of the rail into the bottom of the modular body. The rails shall not cut into the paint. They shall be mounted through nylon isolators in such a manner that they are spaced off the body.

Vendor Complies? **Yes** **No**

BODY CORNER POST PROTECTION: The lower seventeen inches (17") of the corner post extrusions shall be protected against stones and road debris. The corner post guards shall be formed of .080" thick polished aluminum diamond plate, contour fit to the corner post extrusions and riveted into place. A bead of silver colored, silicone sealant shall be applied across the top edge of the guards. The bottom of edge of the guard shall be left unsealed to promote moisture drainage.

Vendor Complies? **Yes** **No**

FRONT OF BODY: The front of the body shall have skirt-line protection plates made of .080 aluminum diamond plate. The corner posts shall have form fit diamond plate protection height matched to the front body stone guards. The height of the protection is seventeen inches up from the body skirt line.

Vendor Complies? **Yes** **No**

REAR KICK PLATE: The rear kick plate shall be made of 0.100 inch thick polished aluminum diamond plate and run from corner post to corner post. The height shall be from the skirt-line of the body to the bottom door jamb under the rear access doors.

Vendor Complies? **Yes** **No**

CENTER STEP: A flip up step shall be provided to allow closer access to the patient cabin floor. The step shall be as wide as the rear access door jamb. The step shall have aggressive traction. A stainless steel piano hinge shall have a staked in, ¼" diameter pin, one inch knuckles and one Type-F ¼" through bolt every four inches.

Vendor Complies? **Yes** **No**

FENDER: The rear fenders shall be made of extruded rubber. The rubber fender mounting lip shall be reinforced with a radius matched 0.125 aluminum strip to promote even compression pressure between the fasteners. The mounting fasteners shall be 100% nylon bolt with 100% nylon nuts shall hold the fender to the body. The fastener centers shall not exceed ten inches (10").

Vendor Complies? **Yes** **No**

RECESSED TAG AREA: The kick plate shall feature a centered and illuminated recessed area to mount a standard U.S. six inch high by twelve inch wide license plate. The recessed area must be located as specified below and aesthetically TIG Welded around the perimeter of the opening. Threaded inserts and bolts to install the tag shall be installed and provided.

Vendor Complies? **Yes** **No**

RECESSED TAG AREA LOCATION: The tag area shall be centered in the kick plate.

Vendor Complies? **Yes** **No**

REAR ACCESS DOOR CHECKS: Rear access doors shall open at least 150 degrees. The door checks shall be 2 piece, heavy duty, cast aluminum, grabber type. The door shall have a ½ round stock loop that plunges into a positive rubber/Cast socket. Each half of the door checks shall be insulated from the skin with a rubber gasket. Each door check half shall be rigidly mounted. Skin flex is

not acceptable. One door check positioned at the top and bottom of each rear access door is required.

Vendor Complies? **Yes** **No**

DOOR SWING: The compartment door checks shall be installed to allow the door to open ninety degrees (90) from the fully closed position.

Vendor Complies? **Yes** **No**

FRONT MUD FLAPS: Mud flaps shall be mounted to the front fenders just behind the front tires. The mud flaps shall be 1/4" thick natural rubber material. Each mud flap shall be sandwiched between the wheel well liner and a torque distribution plate. The torque distribution plate shall be at least .100 thick aluminum plate. Each mud flap shall be through bolted to the fender with at least three (3) fasteners.

Vendor Complies? **Yes** **No**

REAR MUD FLAPS: Mud flaps behind both sets of rear tires shall be supplied and installed. The mud flaps shall be 1/4" thick natural rubber material. Each mud flap shall be sandwiched between the wheel well liner and a torque distribution plate. The torque distribution plate shall be at least .100 thick aluminum plate. Each mud flap shall be through bolted to the wheel well liner with at least three (3) one-quarter inch (1/4") diameter stainless steel bolt.

Vendor Complies? **Yes** **No**

RUNNING BOARDS: Running Boards (An Auxiliary step) shall be constructed of .100 diamond plate with an aggressive traction "Grip strut" insert. The aggressive traction shall be part of the running board and not a welded in section. One running board shall be provided on each side of the cab. Built in diamond plate mud flaps shall keep front tire splash and road grime off the step.

Vendor Complies? **Yes** **No**

ACCESS HOLES; Access to the recovery eyes shall be made through a finished access hole through the Diamond plate "Kick panel" under the rear doors. The access holes shall be at least five inches in diameter and the edges of the holes shall be covered in automotive edge trim. The trim must be bonded to the kick plate in addition to the clamp on ribbing that shall be built into the trim.

Vendor Complies? **Yes** **No**

RECOVERY EYES: Two vertically oriented, heavy duty chrome tow eyes with a one inch threaded stud shall be through bolted to a one half inch thick steel plate that is continuously welded to the end of the OEM Frame. The recovery eyes shall be recessed into the kick panel so that the tangency of the eyes are co-planer with

OR set back up to one inch. The recovery (Tow) eyes shall not be trip hazard to personnel entering and leaving the rear access doors.

Vendor Complies? **Yes** **No**

PLACARD HOLDERS: There shall be four (4) total, three sided slide in holders to be mounted on the ambulance body to allow the agency to change truck numbers as needed. The frames shall be constructed from anodized aluminum channel with 45 degree mitered corners and adhered the ambulance body. Final placement shall be at the confirmation with the successful bidder.

Vendor Complies? **Yes** **No**

DIVIDER MATERIAL: The divider(s) shall be made of 0.125 thick 5052-H32 aluminum sheet.

Vendor Complies? **Yes** **No**

(2) Shelves, Adjustable, Ext: .125 Aluminum, 2" Upward Lips
ADJUSTABLE SHELF: A standard duty aluminum adjustable shelf shall be provided. The shelf shall be formed of .125 (1/8") thick aluminum, with 2 inch upward turned lips on all four sides. The shelf shall be mounted on Unistrut tracking, infinitely adjustable, aluminum extruded, and heavy duty shelf track. Incrementally adjustable, non-aluminum shelf track is not acceptable.

Vendor Complies? **Yes** **No**

VERTICAL DIVIDER: Located in the "M2" compartment shall be NE semi-rigid fixed divider shall be formed of 5052-H32 aluminum sheet. The divider shall be full height of the compartment by fourteen inches (14") deep; measured from the back of the compartment. The exposed edge shall be covered with automotive edge trim.

Vendor Complies? **Yes** **No**

ADJUSTABLE DIVIDERS: One semi-rigid adjustable divider shall be formed of 5052-H32 aluminum sheet. The divider shall be sixty inches (60") high by fourteen inches (14") deep; measured from the track; and have a two inch return flange formed along the sixty inch edge for mounting. All corners on the dividers shall be rounded or chamfered. The exposed edges shall be covered with automotive edge trim. Two full width, horizontally oriented, Unis rut C-channel tracks shall be fastened to the back wall of the aforementioned compartment.

Vendor Complies? **Yes** **No**

RETAINER BAR: There is to be a tube, approximately 1" diameter installed in the selected compartment to help protect from back boards falling out of the compartment when the door is opened.

Vendor Complies? **Yes** **No**

SHELF BRACKET: Each above exterior adjustable shelves shall include four (4) self-gusseted .157" thick shelf brackets that will allow for easy adjustment up and down for each shelf. Each bracket shall be secured to the shelf by carriage head bolts on the top of the shelf and hex head bolts to secure them to the shelf tracking material in the compartments. This will guard against shelf deformation in the compartments when the shelves are secured in place.

Vendor Complies? **Yes** **No**

RETAINER STRAP: One two inch wide webbed restraint strap shall be supplied in the compartment. The strap shall employ a metal buckle system with a push button release. The strap is to be fastened to the compartment walls with a two inch footman's loop. The fastener is not to be fastened through the webbing material.

Vendor Complies? **Yes** **No**

FOOTMAN LOOP: There shall be a 2" footman loops located back from the jamb opening on the compartment.

Vendor Complies? **Yes** **No**

CORROSION: The anti-electrolysis procedure for any holes that are drilled for application of materials is to be as follows, after the hole is drilled, the opening(s) are to be treated with Tactile 517 prior to installation of any fasteners to guard against any future corrosion.

Vendor Complies? **Yes** **No**

EXTERIOR FASTENERS: All screw sites require a replaceable nylon insert for the fastener to thread into to isolate the dissimilar metals. Each hole shall be treated with an Electrolysis Corrosion Control compound (Tactile 517) prior to installation of the nylon inserts. All exterior screws shall be stainless steel.

Vendor Complies? **Yes** **No**

(6) BRIGHT CHROME-LIKE FLANGES: The 600 series tail light group shall be embellished by bright trim flanges.

Vendor Complies? **Yes** **No**

BODY CORNER CAPS: The front and rear upper body corners shall include a cavity built into the aluminum body that shall not sacrifice the body integrity.

Vendor Complies? **Yes** **No**

FRONT CORNER ICC LIGHTS: The front body corner caps shall include DOT approved compliant light fixtures with clear lenses. The lenses shall house ICC fixtures that include amber LED's to be mounted to the front and front corners. There shall also be additional LED lights that alternate red and clear within the light to act as additional warning lights.

Vendor Complies? **Yes** **No**

FRONT I.C.C. LIGHTS: Clearance lights shall be provided per FMVSS 108. The lights shall illuminate the height of the vehicle, define the vehicle center line. Three (amber) lights shall be provided on the front of the module and be populated with at least two LED's.

Vendor Complies? **Yes** **No**

REAR I.C.C. LIGHTS: Clearance lights shall be provided per FMVSS 108. The lights shall illuminate the height of the vehicle, and define the vehicle centerline. Three red lights shall be provided on the rear of the module and be populated with at least two LED's.

Vendor Complies? **Yes** **No**

REAR CORNER ICC LIGHTS: The rear body corner caps shall include DOT approved compliant light fixtures with clear lenses. The lenses shall house ICC fixtures that include red LED's to the rear and rear corners. There shall also be additional LED lights that alternate red and amber within the light to act as additional warning lights.

Vendor Complies? **Yes** **No**

SIDE MARKER LIGHTS: Side marker lights shall be Kinequip Model 112401RD (Red) and shall flash alternately with the rear turn lights. All lights shall be LED.

Vendor Complies? **Yes** **No**

STOP/TAIL LIGHT: The stop/tail light fixtures on the rear of the body shall be Whelen Brand series 600 Fully Populated Light Emitting Diode. The lights shall operate as both tail and stop modes and shall be red when illuminated.

Vendor Complies? **Yes** **No**

TURN SIGNAL LIGHT: The turn signal light fixtures on the rear of the body shall be Whelen Brand series 600, Light Emitting Diode. The lights shall operate as left and right turn signal lights, and shall be amber arrow when illuminated.

Vendor Complies? **Yes** **No**

BACK UP SIGNAL LIGHT: The backup signal light fixtures on the rear of the body shall be Whelen Brand series 600, halogen light to operate as left and right back up signal lights and shall be clear when illuminated.

Vendor Complies? **Yes** **No**

POB LED LIGHT: There shall be a Whelen 500 Series LED Red light installed on the ambulance. Final location shall be determined by this Agency and noted on the final build order at confirmation.

Vendor Complies? **Yes** **No**

COURTESY STEP LIGHTS: There shall be a pair of courtesy step lights consisting of a Whelen style T0CACCCR 2" light, mounted to the front of the

modular body on the lower body diamond plate stone guards. The lights shall be illuminated with the door ajar circuit for the cab doors.

Vendor Complies? **Yes** **No**

COMPARTMENT LIGHT: (1) One light shall be mounted in the ceiling of the "M-1" compartment. The light shall be surface mount and shall be LED.

Vendor Complies? **Yes** **No**

COMPARTMENT LIGHT: (1) One light shall be mounted in the ceiling of the "M-2" compartment. The light shall be surface mount and shall be LED.

Vendor Complies? **Yes** **No**

COMPARTMENT LIGHT: (1) One light shall be mounted in the ceiling of the "M-3" compartment. The light shall be surface mount and shall be LED.

Vendor Complies? **Yes** **No**

COMPARTMENT LIGHT: (1) One light shall be mounted in the ceiling of the "M-5" compartment. The light shall be surface mount and shall be LED.

Vendor Complies? **Yes** **No**

COMPARTMENT LIGHT: (1) One light shall be mounted in the ceiling of the "M-6" compartment. The light shall be surface mount and shall be LED.

Vendor Complies? **Yes** **No**

TAG LIGHT: The tag area shall be LED illuminated with the park light circuit.

Vendor Complies? **Yes** **No**

SCENE/FLOOD LIGHTS (LED-24 Series)

EXTERIOR FLOOD and LOAD LIGHTING:

LEFT SCENE LIGHTS: Two scene lights shall be provided on the left side of the module. The lights shall be Whelen LED-24, 900 series. The scene light group shall meet or exceed the present revision of the Federal specification KKK-A-1822.

Vendor Complies? **Yes** **No**

RIGHT SCENE LIGHTS: Two scene lights shall be provided on the right side of the module. The lights shall be Whelen LED-24, 900 series. The scene light group shall meet or exceed current revision of the Federal specification KKK-A-1822.

Vendor Complies? **Yes** **No**

REAR LOAD LIGHTS: Two rear load lights shall be provided on the rear of the module, above the rear access doors. The lights shall be Whelen LED-24, 900 series. The scene light group shall meet or exceed current Federal specification KKK-A-1822.

Vendor Complies? **Yes** **No**

ADDITIONAL COMPARTMENT LIGHT: (1) One light, in addition to standard light, shall be mounted in the compartment, per customer specified location. The light shall be surface mount and shall be LED.

Vendor Complies? **Yes** **No**

AC EVAPORATOR LOCATION: The evaporator will be located on the floor, in the cabinet behind the Attendant Seat.

Vendor Complies? **Yes** **No**

CONDENSATION DRAIN PAN: A condensation pan shall be provided to collect water condensation from the evaporator coil. The drain pan shall be formed from 1/8 ABS plastic sheet and shall be listed (tilted) toward the drain fitting. The Evaporator unit shall be mounted so that the weight of the coil, case and blower assembly does not rest on the pan. Additionally the entire evaporator shall list toward the condensation drain fitting to enhance water flow to the drain hose. The drain hose shall be 1/2 I.D., collapse resistant and fiber reinforced poly-tubing. The hose shall be routed from the condensation pan to the street.

Vendor Complies? **Yes** **No**

A/C CONDENSER: Air Conditioning is hereinafter referred to as A/C. The module A/C system shall employ the O.E.M. Condenser.

Vendor Complies? **Yes** **No**

HVAC ACC Ducted in Ceiling (AC Heat Unit) - Vertical Diesel/Gas

REAR AIR CONDITIONING EVAPORATOR: The cabinet shall have an additional, self-contained A/C unit complete with an evaporator coil, heater core and a 12 volt blower capable of 580 cfm on high. The unit shall be rated at least British Thermal Units (BTU) 43,300 on Heat and 32,000 on Cooling. The Vehicle A/C and Heat system must meet or exceed the current Federal KKK-A-1822 specification.

Vendor Complies? **Yes** **No**

HEATER HOSES: Heater hoses for the cab shall remain O.E.M. 5/8 inside diameter, EPDM rubber hoses shall route from the O.E.M tie in point to the rear heater core.

Vendor Complies? **Yes** **No**

AUXILIARY CONDENSER: The module HVAC system shall employ a separate condenser for enhancement of the patient environmental cooling system.

The condenser shall be through bolted to brackets that are bolted to the front of the module. Two electric cooling fans shall be mounted to the core assembly and move air thru the double stacked condenser coils making for a compact unit. The condenser fans shall come on when either the cab or the patient cabin A/C unit is turned on.

Fan blades shall be protected by a high impact resistant grille work that is molded into the fan body. All fan wiring shall be routed, secured and protected from road hazards. The condenser body shall not fall within the vehicles maximum ramp break over angle. The condenser shall have minimum ratings of 43,000 BTU/hr. with 1,200 cfm with a maximum amp draw of 11.5 amps.

Vendor Complies? **Yes** **No**

AIR CONDITIONING HOSES: All A/C Hoses shall meet Society of Automotive Engineers

(SAE) J-2064. The discharge (High side) hoses shall not be less than 5/16 inside diameter (Size 6). The suction (Low side) hoses shall not be less than 1/2 inside diameter (Size 10). All fittings shall be leak proof. All hose to fitting clamps shall be machine crimped, plated steel ferrule type.

Vendor Complies? **Yes** **No**

HEATER HOSES: Heater hoses for the cab shall remain O.E.M. 5/8 inside diameter, EPDM Nomex rubber hoses shall route from the O.E.M tie in point to the rear heater core.

Vendor Complies? **Yes** **No**

RETURN AIR GRILLE: Installed around the Heat/AC unit shall be a perforated 13 gauge steel grille. The grille shall allow 156 inches of return air flow to the Heat/AC unit. The grille shall provide complete access to the Heat/AC unit. The grille to have a black powder coat finish. There shall be two quarter turn locks supplied and installed on the grille. The locks shall have a black powder coated finish. Lock pawl activation shall be enabled with a round bitted key.

Vendor Complies? **Yes** **No**

CARBON FILTER: The return air grille shall be supplied with a pre carbon filter that is designed to fit the slot within the grille. It shall be installed and shall not rattle. The filter shall be replaceable and/or cleanable by this department's fleet maintenance in the field.

Vendor Complies? **Yes** **No**

CEILING DUCTED INSULATED AIR CONDITIONING DELIVERY (10):

One duct shall route over the primary patient and attendant, and one shall run over the lap area of squad bench. Each duct shall contain four spherically adjustable

registers, evenly spaced, total of 8. There shall also be two registers located directly behind the attendant's seat.

Vendor Complies? **Yes** **No**

LINER PANELS: The patient cabin head liner substrate material shall be one quarter inch thick, hardwood plywood. The substrate shall be covered with a minimum 28 mil thick gloss white laminate. An upholstered center panels shall provide access to ceiling wiring and be covered in the same upholstery type as the seat and back rest pads found on the squad bench and/or CPR seat.

Vendor Complies? **Yes** **No**

PATIENT CABIN DOME LIGHTS: The patient cabin shall have eight dual intensity, Kinequip LED dome lights in the ceiling. The domes centers shall be aligned along two, four light banks. The left bank shall provide light directly over the patient; the right bank shall provide light directly over the aisle/squad bench. The dome lights and configuration shall meet current Federal Specifications KKK-A-1822.

Vendor Complies? **Yes** **No**

STEP WELL ILLUMINATION: A 3" LED clear interior light shall illuminate the curbside step well per the current revision of Federal specification KKK-A-1822.

Vendor Complies? **Yes** **No**

FLASH LIGHT LOCATION: The flash light shall be located behind the passenger's seat in the driver's cabin.

Vendor Complies? **Yes** **No**

FLASH LIGHT POWER: The aforementioned flash light shall be Constant Hot.

Vendor Complies? **Yes** **No**

FLEX SHAFT LIGHT: A 12 Volt Hella flex shaft light shall be mounted on the passenger's side of the cab console, near the dash to illuminate the area in front of the passenger without distracting the driver. The light head shall pivot about the shaft.

Vendor Complies? **Yes** **No**

OVERHEAD CAB DOME LIGHT: A pair of 12 Volt Kinequip LED lights shall be installed in the cab headliner, one over driver and one passenger side to illuminate each side of the cab. The switch on each light shall switch the light from Off to Red and Off to Clear.

Vendor Complies? **Yes** **No**

FLASHLIGHT PRE-WIRE; There shall be a 12v power and ground wire ran to the location determined by the pre-build conference to provide for recharging of a portable flashlight.

Vendor Complies? **Yes** **No**

MODULE INSULATION: The module insulation, except the under the floor shall consist of material having the following characteristics, 8mm thick nonabsorbent, reflective and shall have an air cell core. The air cell core shall consist of one layer of polyethylene bubble film that is sandwiched between one (1) layer of 99 percent pure aluminum foil and white colored polyethylene film. The insulation shall be installed with at least ½ air space from exterior skins, exposed to direct sun light. The insulation thermal rate testing shall be conducted in accordance with A.S.T.M. E84-89A, ANSI 2.5, NFPA 255, UBC 42-1, and U.L. 723. The walls shall not be less than R-15.0 down, R-7.31 Horizontally and R5.4 up. The insulation shall have a NFPA Class A and a UBC Class 1 fire rating with a flame spread index of 20 and a smoke developed index of 30. The application shall include a single layer of the insulation on all four walls, doors, compartments, ceiling and floor.

Vendor Complies? **Yes** **No**

MODULE FLOOR INSULATION: The floor shall have 0.5 inch thick mass loaded acoustical (XPS) extruded polystyrene foam composite attached to the inside floor surface to provide a noise reduction of 75%. Patient compartment floor is now fully insulated for sound deadening and enhanced temperature control without increasing load height. The total R value of the floor must be greater than or equal to 4.5 to 5.0 per inch.

Vendor Complies? **Yes** **No**

ALTERNATIVE LIGHTBAR SWITCHING: The switching of the lighting package that makes up the alternative light bar package shall be through the Primary/Secondary switching system. The primary switch feature should include all emergency lights activated. The secondary switch feature should include only red and amber lights, as appropriate warning for on-coming vehicles when parked beside the roadway.

Vendor Complies? **Yes** **No**

Whelen, 700 Super LED, (4), (2) RED & (2) RED/WHITE

ADDITIONAL WARNING LIGHTS; There shall be 4 additional warning lights on the front upper zone of the module.

Vendor Complies? **Yes** **No**

Flanges: (2) 700-Chrome Flanges for lights

FLANGES: The above lights shall have Whelen's optional bright trim bezel (Flange), to embellish the light head.

Flanges: (4) 900-Chrome Flanges for lights

FLANGES: The above lights shall have Whelen's optional bright trim bezel (Flange), to embellish the light head.

Flanges: (4) 900-Chrome Flanges for lights

FLANGES: The above lights shall have Whelen's optional bright trim bezel (Flange), to embellish the light head.

Flanges: (4) 700-Chrome Flanges for lights

FLANGES: The above lights shall have Whelen's optional bright trim bezel (Flange), to embellish the light head.

Flange: (1) 900-Chrome Flanges for light

FLANGES: The above light shall have Whelen's optional bright trim bezel (Flange), to embellish the light head.

Flange: (1) 700-Chrome Flange for lights

FLANGES: The above lights shall have Whelen's optional bright trim bezel (Flange), to embellish the light head.

Flanges: (2) 700-Chrome Flange for lights

LOCATION: On the side of the module, over each rear wheel well opening on the ambulance body.

LOCATION: On the rear of the module, one in each upper outer corner inside of the structural corner post.

Location: REAR, (2) aligned w/ rear windows (2) Beside Center Rear Amber

LOCATION: On the rear of the module, aligned with each upper window in the access doors.

The lights shall flash through the windows when the doors are opened.

Vendor Complies? ___ Yes ___ No

(4) Grille Lights, Whelen LINZ6, SLED, Chrome Flange

GRILLE LIGHTS; There shall be two red and two white warning lights installed on the chassis front grille in a location that provides maximum direct warning while blocking minimal air flow or none if possible.

Vendor Complies? **Yes** **No**

FRONT INTERSECTION LIGHTS; A set of warning lights shall be installed on the chassis front fender to warn oncoming intersection traffic. Whelen 700, Super LED

Vendor Complies? **Yes** **No**

FRONT UPPER ZONE WARNING LIGHT; There shall be installed one warning light in the upper front center of the module zone. Whelen 700, Super LED

Vendor Complies? **Yes** **No**

FRONT UPPER ZONE WARNING LIGHTS; There shall be installed two warning lights in the upper front of module zone. Whelen 900, Super LED

Vendor Complies? **Yes** **No**

MODULE SIDE WARNING LIGHTS; There shall be four Whelen 900 series Super LED lights in the upper outermost positions.

Vendor Complies? **Yes** **No**

(2) Rear Intersection Lets : Whelen 700, (Super LED)

ADDITIONAL WARNING LIGHTS; There shall be additional warning lights installed on the mid side of the ambulance module toward the rear.

Vendor Complies? **Yes** **No**

REAR UPPER WARNING LIGHT ZONE; There shall (2) Rear Upper Body Lights: Whelen 900 Series Super LED

Vendor Complies? **Yes** **No**

ADDITIONAL REAR WARNING LIGHTS; There shall be installed Four (4) Whelen 900 series Super LED lights.

Vendor Complies? **Yes** **No**

REAR CENTER UPPER BODY WARNING; There shall be installed a Whelen 900 series AMBER Warning light (Super LED) at the upper center location.

Vendor Complies? **Yes** **No**

Four (4) Light: Whelen 900, Super RED LED/RED LENS, Programmable IATS
WARNING LIGHT; There shall be installed a Whelen 900 Series Red LED lights with Red lens. The light is programmable and has an installed flasher for operation.

Vendor Complies? **Yes** **No**

Lights: (2) Whelen 700, Super RED LED/RED LENS, Programmable IATS
WARNING LIGHT; The light shall be two Whelen 700 Series Super LED light with Red LED diodes and red lens. The light shall feature an internal flasher.

Vendor Complies? **Yes** **No**

Lights :(2) Whelen 700, Super Split RED/WHITE LED/CLEAR LENS, Programmable iats

WARNING LIGHT; The light shall be two Whelen 700 Series Super Split LED light with Red and White LED diodes and clear lens. The light shall feature an internal flasher.

Vendor Complies? **Yes** **No**

Lights: (2) Whelen 700, Super RED LED/CLEAR LENS, Programmable ILOS
WARNING LIGHT; The light shall be two Whelen 700 Series Super LED light with RED LED diodes and clear lens. The light shall feature an internal flasher.

Vendor Complies? **Yes** **No**

Two (2) Light: Whelen 900, Super RED LED/RED LENS, Programmable ILOS
WARNING LIGHT; There shall be installed a Whelen 900 Series Red LED lights with Red lens. The light is programmable and has an installed flasher for operation.

Vendor Complies? **Yes** **No**

Four (4) Light: Whelen 900, Super RED LED/RED LENS, Programmable ILOS
WARNING LIGHT; There shall be installed a Whelen 900 Series Red LED lights with Red lens. The light is programmable and has an installed flasher for operation.

Vendor Complies? **Yes** **No**

Two (2) Light: Whelen 900, Super RED LED/RED LENS, Programmable ILOS
WARNING LIGHT; There shall be installed a Whelen 900 Series Red LED lights with Red lens. The light is programmable and has an installed flasher for operation.

Vendor Complies? **Yes** **No**

One (1) Light: Whelen 900, Super AMBER LED/AMBER LENS, Programmable ILOS

WARNING LIGHT; There shall be installed a Whelen 900 Series Amber LED lights with Amber lens. The light is programmable and has an installed flasher for operation.

Light: Whelen 700, Super WHITE LED/CLEAR LENS, Programmable ILOS
WARNING LIGHT; There shall be installed a Whelen 700 series Super LED light with White LED diodes and clear lens. The light shall feature an integrated flasher.

Vendor Complies? **Yes** **No**

Two (2) Light: Whelen 700, Super RED LED/CLEAR LENS, Programmable ILOS

WARNING LIGHT; There shall be installed a Whelen 700 series Super LED light with Red LED diodes and clear lens. The light shall feature an integrated flasher.

Vendor Complies? **Yes** **No**

One (1) (2) RED ION Series, Wide Angle LED, Surface Mount, IATS

GRILLE LIGHTS:

LIGHT HEADS: A pair of Whelen Engineering, ION Series RED LED Light heads shall be supplied in the aforementioned location. The light head shall feature Light Emitting Diodes. The light head shall comply with all photometric, chromaticity and physical requirements set forth in the current revision of Federal specification KKK. The lens shall feature a smooth outer surface designed to filter light frequency (Color) evenly over the area of the entire light head. A certificate of Compliance shall be made available to the agency upon request. A second pair of Whelen IO series Clear LED light heads will also be provided for the grille.

One (1) (2) AMBER ION Series, Wide Angle LED, Surface Mount, Additional 05-PL- on rear upper box to flash with turn signals.

Vendor Complies? **Yes** **No**

Two (2) Light, Whelen LINZ6, RED S-LED, Chrome Flange on rear doors to flash with brake lights

Vendor Complies? **Yes** **No**

Two (2) Additional Light, Whelen LINZ6, WHITE S-LED, Chrome Flange

Vendor Complies? **Yes** **No**

PUBLIC ADDRESS (Visual) WARNING LIGHTS

ELECTRICAL SYSTEM 12 Volt - General

MODULE GROUNDING: A minimum of (2) two braided ground straps shall be through bolted to the chassis frame and the floor structure of the modular body. The bolts shall be at least 3/8 diameter. A flat washer shall be provided under the head of the bolt, over the strap lug. Additionally an internal tooth lock washer shall preclude loosening. Conventional stranded copper cables are not acceptable because they do not suppress RFI and does not meet SAE J551.

Vendor Complies? **Yes** **No**

GENERAL GROUNDS: To comply with current Federal specification KKK-A-1822 plus enhance ground quality and reduce trouble shooting time, all devices

wired within the ambulance conversion shall be centrally grounded. Each device shall have a separate ground wire routed to a central buss bar then grounded via fine strand cable to the module body. Local grounds are acceptable only when the device is drawing at or less than 100 milliamps (0.1 amps).

Vendor Complies? **Yes** **No**

12 VOLT WIRE: All wires within the ambulance harnesses shall meet current Federal specification KKK-A-1822. All wire insulation shall be GXL cross-linked polyethylene.

Permanent wire identification and wire function shall be printed on 4 centers along the full length of the wire. Wire conductors shall be stranded copper.

Vendor Complies? **Yes** **No**

WIRE PROTECTION: All wire within the conversion shall be protected and run in split convoluted loom with a melting temperature of 300 degrees, Fahrenheit. All wire harnesses shall be clamped and routed to eliminate possibility of damage due to cut/chaffed wire. Grommets made of rubber or plastic shall be used where harnesses pass through metal or wood. Large holes and irregular shaped wire passages shall use automotive edge trim to protect the wire conduit/loom. Wire harnesses shall be neatly clamped into protective routing areas away from heat sources, unfriendly edges or moving devices.

Vendor Complies? **Yes** **No**

Customer Supplied Part(s): 4 Antennas

Vendor Complies? **Yes** **No**

HEADLIGHT FLASHER OPERATION: The head light flasher shall begin to operate when a separate switch labeled "Headlight Flasher" is turned on. The flasher will NOT function when the head lights are turned ON to maintain OEM manufacturer recommendations.

Vendor Complies? **Yes** **No**

Geo Tab Prewire Installed

Vendor Complies? **Yes** **No**

THREE BATTERY SYSTEM: The ambulance conversion and chassis shall run with three maintenance free twelve volt batteries as specified below. At least two batteries shall be wired in parallel to maximize starting amperage. The third battery may be wired for other purposes. The vehicle starting system requires at least TWO (2) batteries to adequately crank the engine.

Vendor Complies? **Yes** **No**

BATTERY BRAND: All three batteries shall be the same brand, model and type. Each battery shall be rated at a minimum of seven hundred fifty cold cranking amps at thirty two degrees Fahrenheit with a minimum of sixty five amp-hours of reserve capacity. The batteries shall be warranted by the battery manufacturer for at least three years (thirty six months) from the date of delivery to the agency.

Vendor Complies? **Yes** **No**

Battery Location: Relocate frame rail and additional batteries to right front slide out compartment, M-8.

Vendor Complies? **Yes** **No**

BATTERY SWITCH: A conversion disconnect switch shall be supplied. Constant battery power shall be supplied for device memories. None of the chassis functions shall be effected by this switch per Fords Qualified Vehicle Modifiers program, bulletin No 63. An indicator light shall illuminate on the cab console panel.

Vendor Complies? **Yes** **No**

RADIO POWER

POWER SOURCE FOR COMMUNICATION RADIO(S) No 1: Positive and Negative polarity ten position brass buss bars shall be supplied and installed. The buss bar shall be protected by a thirty (30) ampere automatic reset circuit breaker.

Vendor Complies? **Yes** **No**

POWER SOURCE FOR COMMUNICATION RADIO(S) No 2: Positive and Negative polarity ten position brass buss bars shall be supplied and installed. The buss bar shall be protected by a thirty (30) ampere automatic reset circuit breaker.

Vendor Complies? **Yes** **No**

POWER SOURCE FOR COMMUNICATION RADIO(S) No 3: Positive and Negative polarity ten position brass buss bars shall be supplied and installed. The buss bar shall be protected by a thirty (30) ampere automatic reset circuit breaker.

Vendor Complies? **Yes** **No**

LOCATIONS: The power sources shall be located (1) console, in the cab and (1) behind the A/A panel.

Vendor Complies? **Yes** **No**

POWER SOURCE FOR PORTABLE EQUIPMENT No 1: Power sources are located and included with a purchased inverter.

Vendor Complies? **Yes** **No**

POWER SOURCE: The power provision shall be fed off of the output of the conversion main power (Battery) switch.

Vendor Complies? **Yes** **No**

RADIO POWER SOURCE: The power provision shall be fed off of the output of the conversion main power (Battery) switch.

Vendor Complies? **Yes** **No**

POWER SOURCE: The Portable Equipment power provision shall be fed off of the output of the ignition switch or when the battery charger/conditioner is connected to the shoreline.

Vendor Complies? **Yes** **No**

LOCATION: The power source shall be located behind the Action area control panel in the patient cabin.

Vendor Complies? **Yes** **No**

LOCATION: The aforementioned power source shall be located in the left front middle compartment (M-2 LFM).

Vendor Complies? **Yes** **No**

LOCATION: The aforementioned power source shall be located in the center console, in the cab.

Vendor Complies? **Yes** **No**

DOOR LOCK SWITCH: The aforementioned door lock(s), shall be wired to activate with the OEM cab door locks and their switches in the cab.

Vendor Complies? **Yes** **No**

OEM KEY FOB: The manufacturer shall provide one additional remote key fob to activate the chassis OEM door lock system.

Vendor Complies? **Yes** **No**

POWER MODULE DOOR LOCKS: Each compartment and/or entry doors listed below shall Lock or Unlock with a single depression of a momentary switch. Each door shall be fitted with a bidirectional, momentary electric solenoid designed to operate a mechanical rod in a linear fashion. The rod shall mechanically interface with the door lock mechanism inside the door. All rod connections shall be designed for high cycle operation without mechanical disconnection. The battery compartment shall NOT have the power lock/unlock feature. This compartment shall remain key operated.

Vendor Complies? **Yes** **No**

DOOR LOCK SWITCHES: The module entry doors shall have internal integrated electric door lock activation switches.

Vendor Complies? **Yes** **No**

POWER DOOR LOCK (M1 – Left Front); There shall be installed an electric solenoid powered actuator for the compartment door lock.

Vendor Complies? **Yes** **No**

POWER DOOR LOCK (M2 – Left Middle); There shall be installed an electric solenoid powered actuator for the compartment door lock.

Vendor Complies? **Yes** **No**

POWER DOOR LOCK (M-3 – Left Rear); There shall be installed an electric solenoid powered actuator for the compartment door lock.

Vendor Complies? **Yes** **No**

POWER DOOR LOCK (Rear Module Entry); There shall be installed an electric solenoid powered actuator for the module door lock.

Vendor Complies? **Yes** **No**

POWER DOOR LOCK (M-5 – Right Rear); There shall be installed an electric solenoid powered actuator for the compartment door lock.

Vendor Complies? **Yes** **No**

POWER DOOR LOCK (M-6, Right Rear, Forward); There shall be installed an electric solenoid powered actuator for the compartment door lock.

Vendor Complies? **Yes** **No**

POWER DOOR LOCK (Curbside Entry Door); There shall be installed an electric solenoid powered actuator for the module entry door lock.

Vendor Complies? **Yes** **No**

POWER DOOR LOCK (M-7, Right Front); There shall be installed an electric solenoid powered actuator for the compartment door lock.

Vendor Complies? **Yes** **No**

15 MINUTE TIMER: A variable 0 to 15 minute, spring wound, and mechanical timer switch shall provide temporary illumination of the patient cabin for check out purposes. The switch input shall be wired directly to the vehicle batteries. The switch shall be located on the curbside wall, by the C/S access doors over the squad bench lid. The timer circuit shall comply with the latest revision of KKK-A-1822.

Vendor Complies? **Yes** **No**

LIGHTS POWERED BY TIMER: The aforementioned timer shall power the street side (Left side) bank of dome lights on the high intensity setting. The duration of the light shall vary with the setting of the timer.

Vendor Complies? **Yes** **No**

HIDDEN DOOR UNLOCK SWITCH: A weather proof momentary switch shall be installed, concealed from view. Installation of Remote Door Unlock Switch feature may increase likelihood of unauthorized entry into vehicle. By checking this option, purchaser further agrees to hold chassis manufacturer harmless for any loss of vehicle or contents caused by unlawful access. This should be placed on the driver side rear, just above the break light. This switch should be covered by a clear Kussmaul cover, giving the appearance of a charging port.

Vendor Complies? **Yes** **No**

CAB CAMERA MONITOR: The vehicle shall include a single 7" color monitor that is mounted within clear view of the driver, but not to obstruct view out the front windshield at eye level. The monitor shall be connected to a camera(s) mounted as listed below.

Vendor Complies? **Yes** **No**

CAB MONITOR MOUNT; The vehicle shall include an ABS monitor housing, mounted on cab ceiling. The housing shall feature a flip down feature to allow the monitor to be put in the up position when not needed, and flipped down for viewing.

Vendor Complies? **Yes** **No**

CAMERA #1: There shall be a camera mounted on the rear of ambulance body to allow the driver to view as they are backing up. Unless otherwise specified, the camera shall be mounted over the rear doors as close to the centerline of the vehicle as possible. The system shall include all the necessary cables and adapters to connect the system together with power as needed. The monitor shall automatically be tied in so that when the vehicle is placed in reverse, it will automatically illuminate the monitor and through the monitor controls shall allow for the monitor to be illuminated when the vehicle is in any gear.

Vendor Complies? **Yes** **No**

CAMERA #2: There shall be a second camera mounted on a bracket in the patient area, in plain view. The optimum location shall be to suspend from the patient headliner where it is least likely to be hit by another object.

Vendor Complies? **Yes** **No**

CAMERA MOUNTING: Towards rear of the patient area to show the forward section of the patient area.

Vendor Complies? **Yes** **No**

CIRCUIT BOARD: The single relay control board is a fully integrated relay control board designed and built to IPC Class 3* guidelines. The VF4 style socket relay is rated at 20A at 24 VDC with built-in on-board diode suppression. Three status indicators for Blown Fuse, Coil Power and Load allow for intuitive operation and troubleshooting. Also included is a medium sized ATO blade style fuse / circuit breaker holder that is rated for 20A. Wiring connections are made via a WAGO Cage Clamp removable lockable connector, which provides a secure, vibration proof and corrosion resistant wire termination. Installation time is reduced by as much as 75%. All of these features are mounted in a 2"x2" DIN Rail mountable package. Clearly, the Single Relay Control Board is a best-in-class solution for Emergency Vehicle relay applications.

Vendor Complies? **Yes** **No**

MASTER SWITCHES: The patient area master switches shall be located in both the cab switch console and the action area console in the patient area. They shall operate like a 3-way system.

Vendor Complies? **Yes** **No**

BACK UP ALARM: The apparatus shall include a 97 to 107 decibel back up alarm, activated by shifting into reverse.

Vendor Complies? **Yes** **No**

CIRCUIT BREAKERS: All conversion related circuits shall be protected with manual reset blade breakers. The value of the breaker for each circuit shall not exceed 75% of the rated capacity of the weakest component in the circuit.

Vendor Complies? **Yes** **No**

GROUND STRAPS: Four (4) 7/8" wide by 1/8" thick, fine strand, woven straps shall provide a ground path from the module body to the chassis frame. Woven straps filter out RFI noise originating from alternators, strobe power supplies and other devices that may find their way into intercom, stereo and two way communication radios. Each end of the ground straps shall be through bolted with 3/8" diameter, grade 5 or 8, hex head bolts and lock nuts. Each connection site shall be cleaned to the bare metal prior to fastening the strap. The connections shall have a dielectric anti corrosion spray applied.

Vendor Complies? **Yes** **No**

ADDITIONAL FLOOD LIGHT ACTIVATION: The rearward scene lights shall come on with when the vehicle is placed in reverse in addition to the rear flood/load lights.

Vendor Complies? **Yes** **No**

SCENE LIGHT SWITCHING: The scene lights shall come on with two separate rocker switches labeled Right Flood and Left Flood, located in the center cab

console controlled by the master switch. The right (curb side) scene lights shall also come on when the side entry door is opened.

Vendor Complies? **Yes** **No**

REAR LOAD LIGHT SWITCHING: The rear load lights shall come on with a separate rocker switch located in the cab console controlled by a master switch. The switch shall be labeled "Rear Flood" and shall control both rear load lights on the rear of the body and above the rear access doors. The rear load lights will come on when rear doors are opened.

Vendor Complies? **Yes** **No**

Brake Light Override: Wire into rear warning lights above

LOAD MANAGER: Sequential switching of lamp loads is extremely important on this vehicle. An "Emergency Master" switch that simultaneously energizes a large number of lights can momentarily reduce the vehicle's voltage. Similarly the simultaneous removal of these loads can cause high alternator output voltage transients which may damage sensitive electronic equipment. The LOAD MANAGER sequencer assures that loads are applied and removed gradually, thus eliminating the possibility of inducing failures in the vehicle's equipment.

The load manager shall be a precision, solid state controller which sequentially switches "ON" seven relays at 1/2 second intervals. Individual switches shall enable the operator to select output "ON" or "OFF" status, at any time. The sequencer shall be initiated by the "Emergency Master" switch. The sequencer priority shall be set at the pre-build conference.

The aforementioned LOAD MANAGER shall monitor the vehicles battery voltage. When the electrical loads have exceeded the charging system output, the voltage falls. When the voltage falls to 11.5 volts, the LOAD MANAGER will begin to shed up to five loads. The load shed priority shall be set by the circuit significance, followed closely by circuit draw. The LOAD MANAGER will shed loads until the voltage level begins to rise. A LOAD MANAGER bypass switch shall be installed on the circuit board to override.

The device Warranty shall be covered by the device manufacturer for a period of three years.

Vendor Complies? **Yes** **No**

BUILT-IN BATTERY CHARGER: The aforementioned built in battery charger shall be wired to the vehicle batteries to allow charging/conditioning when the shoreline is energized.

Vendor Complies? **Yes** **No**

12 VOLT POWER INVERTER: A highly reliable Vanner 1050CUL electronic power conversion unit that utilizes MOSFET power semiconductors and a

microprocessor controller shall be supplied, installed and wired to the outlets specified herein. A Built in 30A automatic transfer switch shall transfer all loads from the inverter to the shore line, when the shore line cord is plugged into 125 vac shoreline power. The device shall convert 12 volt DC battery power into 1,050 watts of precisely regulated modified sine wave 125 volt AC power. The device shall hold output power between 114 volts and 126 volts AT a frequency of 59.9 to 60.1 Hertz. The device shall not consume more than 105 amperes at 12 volts direct current (DC).

The device shall be certified by Underwriters Laboratories to the present revision of the Federal Specification KKK-A-1822. The location of the inverter is specified below.

Vendor Complies? **Yes** **No**

BATTERY CHARGER/CONDITIONER: When the system is connected to shore/utility power, the battery charger (built into the aforementioned inverter) will automatically charge the batteries, then keep them fully charged. The system's microprocessor controls the charging sequence, starting with the high charger (55 Amp) mode. When the batteries are fully charged, it switches to the ready/maintenance mode to keep the battery "topped up". The battery charger shall be designed to charge either lead acid flooded (wet) or gel type batteries.

Vendor Complies? **Yes** **No**

COVER: There shall be a Lexan Cover over the inverter for protection.

Vendor Complies? **Yes** **No**

Inverter Location: M-2 (LFM) Compartment

The power inverter shall reside in the left front middle compartment.

VOLT METER: The charging system voltage condition shall be indicated through a conventional two inch diameter, analog type gauge. The volt meter shall be wired through the ignition switch and indicate system voltage ranging from eight to sixteen volts, direct current.

Vendor Complies? **Yes** **No**

AMP METER: The charging system condition shall be indicated through an advanced 1.8 inch diameter, LED type gauge. The ammeter shall utilize a sender as described under the alternator paragraph specified herein. The LED display shall vary intensity according to an independent built in sensor. The meter shall read zero to 300 amp.

Low Voltage Indicator: Amber with Buzzer

Vendor Complies? **Yes** **No**

**COMMUNICATIONS RADIO(S) RELATED;
ANTENNA LEADS**

Antenna, (1) Customer Supplied prior to production, Installed

ANTENNA INSTALLATION: This agency will supply the antenna to be installed by the manufacturer per the customers' requirements.

Vendor Complies? ___ Yes ___ No

CONDUIT No 1: An empty one and one half inch diameter conduit expressly designed to add wires after vehicle delivery by the end user or his/her authorized agent shall be supplied and installed. The conduit shall be have semi-rigid, nonconductive liner that is free of inside ridges that can bind on the wire harness being pulled through the conduit. The outer jacket shall be a nonconductive, spiraled rigid coil designed to maintain the original shape of the liner, throughout the length of the conduit run.

Vendor Complies? ___ Yes ___ No

CONDUIT No 2: An empty 1.5 "diameter conduit expressly designed to add wires after vehicle delivery by the end user or his/her authorized agent shall be supplied and installed. The conduit shall be have semi-rigid, nonconductive liner that is free of inside ridges that can bind on the wire harness being pulled through the conduit. The outer jacket shall be a non-conductive, spiraled rigid coil designed to maintain the original shape of the liner, throughout the length of the conduit run. There shall be provided a pull wire through the conduit to aid the purchasing agency in future installation of equipment.

Vendor Complies? ___ Yes ___ No

One (1) CONDUIT ORIGINATION POINT: M-2 compartment

ORIGINATION POINT: The aforementioned conduit shall originate in the left front middle (M-2), exterior compartment.

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One (1) CONDUIT TERMINATION POINT: Add on Console

TERMINATION POINT: The aforementioned coaxial cable shall terminate in the cab behind the driver's seat.

One (1) CONDUIT TERMINATION POINT: Behind A/A Board (Panel)

TERMINATION POINT: The aforementioned conduit shall terminate in the patient cabin behind the main action area control panel.

One (1) **CONDUIT TERMINATION POINT:** Behind Curbside Action Area
TERMINATION POINT: The aforementioned conduit shall terminate in the patient cabin behind the main action area control panel.

One (1) Standard Conduit: 1-1/2", with pull wire

CONDUIT No 1: An empty one and one half inch diameter conduit expressly designed to add wires after vehicle delivery by the end user or his/her authorized agent shall be supplied and installed. The conduit shall be have semi-rigid, nonconductive liner that is free of inside ridges that can bind on the wire harness being pulled through the conduit. The outer jacket shall be a non-conductive, spiraled rigid coil designed to maintain the original shape of the liner, throughout the length of the conduit run.

SWITCH PANEL, CAB CONSOLE: A switch panel made from 3/16 thick, translucent, acrylic sheet. The acrylic material shall evenly disperse label, indicator illumination. The Sheet shall be coated with a black colored, rigid plastic film. A CNC router shall engrave permanent switch legends, switch holes, meter holes, and indicator legends. The switches shall be organized in two rows. The top row shall start with an Emergency Master, followed by primary/secondary and then all of the emergency related switches. The bottom row shall start with a Master Switch, followed by all of the non-emergency related switches.

Vendor Complies? Yes No

COMPARTMENT AJAR INDICATOR LIGHT: A back lighted "Compt Open" light shall be engraved in the cab console's main switch panel. This light color shall be AMBER. The light shall meet current Federal Specification KKK-A-1822.

INDICATOR LIGHT FUNCTION: The door ajar indicator light shall flash when two conditions are met:

- 1) The main conversion power switch is turned to the ON position.
- 2) Any compartment or entry door is opened.

The door ajar light shall come ON with a door that is not COMPLETELY latched.

Vendor Complies? Yes No

BATTERY POWER "ON" INDICATOR LIGHT: An indicator light, labeled "Amb Pwr" shall be engraved in the cab console's main switch panel. The light color shall be GREEN. The light shall meet current Federal Specification KKK-A-1822.

INDICATOR LIGHT FUNCTION: The "Amb Pwr" indicator light shall burn steady when the main conversion power switch is turned to the ON position.

Vendor Complies? Yes No

DOOR AJAR INDICATOR LIGHT: A back lighted "Door Ajar" light shall be engraved in the cab console's main switch panel. This light color shall be RED. The light shall meet current Federal Specification KKK-A-1822.

Vendor Complies? ___ Yes ___ No

SWITCHPANEL ILLUMINATION; Illumination of the switch panels shall be provided by LED strips attached to the underside of the switch panels. The strips shall be powered by 12volt DC.

Vendor Complies? ___ Yes ___ No

ENGINE COVER CONSOLE: The OEM engine cover console shall have an ABS cover. The cover shall be contoured matched to the OEM console. The cover shall be attached to the OEM console with Phillips heads fasteners.

Vendor Complies? ___ Yes ___ No

125V SHORE LINE AND OUTLETS

SHORE LINE INLET No 1: The primary 125 Volt shore line inlet, rated at 20 Amperes shall be supplied. The plug style shall be a straight blade (NEMA 5-20P) style with a U-shaped ground. The inlet shall automatically eject the shore line connector when the vehicle ignition switch is placed in the START position. The shore line inlet shall employ a novel internal switch that closes and opens the 125 Volt circuit after the mating connector is inserted and before the connector is removed to eliminate arcing at the connector contacts. This will prolong the life of the inlet and the shore line connector. The inlet shall be protected with a white weather proof cover.

SHORELINE EJECT TIMER: The shoreline timer shall be an Inpower VCM-05-01SF to allow the auto eject to be wired to the ignition switch ILO splicing into the OEM starter circuit.

Vendor Complies? ___ Yes ___ No

INTERIOR 12 Volt Direct Current (DC) OUTLETS:

12 VOLT OUTLET No 1: This outlet shall be a, 12 volt, direct current, 20 Ampere, automotive "cigar" lighter size commercial outlet. This outlet shall be located in the front console. The outlet shall be separately protected and shall be electrically isolated from other electrical functions on the vehicle. This outlet shall be wired per current Federal specification KKK-A-1822.

Vendor Complies? ___ Yes ___ No

12 VOLT OUTLET No 2: This outlet shall be a, 12 volt, direct current, 20 Ampere, automotive "cigar" lighter size commercial outlet. This outlet shall be located and wired as specified below. The outlet shall be separately protected and shall be electrically isolated from other electrical functions on the vehicle. This outlet shall be wired per federal specification KKK-A-1822D 3.7.7.3.

OUTLET LOCATION: This 12 Volt outlet shall be located in the patient cabin's main "Action Area", on the back wall.

Vendor Complies? **Yes** **No**

125 VAC OUTLETS

125 VAC OUTLET No. 1: The following outlets shall be UL listed, 125 Volt, Hospital grade, Straight blade NEMA 5-15R outlets, Ivory color. Each outlet shall be installed in a UL listed, recessed, fiberglass back box with a minimum of one and three quarter inch of box depth. The outlet cover shall be stainless steel. The outlet must be grounded and protected by a GFI (Ground Fault Interrupted) Breaker. Each outlet body must illuminate when power is applied to the outlet. Each Outlet shall be clearly labeled with a permanent RED colored decal defining the outlet voltage.

125 VAC Outlet, No 2: 15A, Hospital Grade, IVORY

125 VAC Outlet, No 3: 15A, Hospital Grade, IVORY

125 VAC Outlet, No 4: 15A, Hospital Grade, IVORY

125 VAC Outlet, No 5: 15A, Hospital Grade, IVORY

OUTLET LOCATION: This 125 Volt outlet shall be located in the patient cabins, main "Action Area", with location as shown on the approval drawings.

LOCATION: Curbside, see Drawing

OUTLET LOCATION: This 125 Volt outlet shall be located in the on the interior curb side, within the main wall panel and just above the top of the squad bench. The location of the outlet shall be defined on the proposal drawings.

LOCATION: RF ALS, (See Drawing)

OUTLET LOCATION: This 125 Volt outlet shall be located inside of the right front ALS Cabinet. The outlet shall be mounted on the back wall of the cabinet (related to inside access) in the upper right corner. The location of the outlet shall be defined on the proposal drawings.

LOCATION: RF ALS, (See Drawing)

OUTLET LOCATION: This 125 Volt outlet shall be located inside of the right front ALS Cabinet. The outlet shall be mounted on the back wall of the cabinet (related to inside access) in the upper right corner. The location of the outlet shall be defined on the proposal drawings.

LOCATION: Telemetry Area, (See Drawing)

OUTLET LOCATION: This 125 Volt outlet shall be located in the patient cabin's, telemetry area that is located just aft of the street side CPR side seat. The outlet shall be mounted on the back wall so that the depth of the back box does not protrude into adjacent cabinets.

The location of the outlet shall be defined on the proposal drawings.

One (1) Power Source: Medical Isolator, Battery (CONSTANT) Hot

POWER SOURCE: The input for the aforementioned outlet shall be wired directly to the vehicle batteries.

One (1) Power Source: Medical Isolator, Battery (CONSTANT) Hot

POWER SOURCE: The input for the aforementioned outlet shall be wired directly to the vehicle batteries.

Vendor Complies? **Yes** **No**

SIREN HEAD LOCATION: The siren head shall be located in a molded in position of the front edge of the engine cover console. lower front bumper

Vendor Complies? **Yes** **No**

ELECTRONIC SIREN: This apparatus shall be supplied with an electronic siren amplifier that has been developed utilizing solid state components and is designed around silicon power transistors and an output transformer. The siren shall have two amplifiers in one amplifier box AND an output for each amplifier. Each output shall operate one 100 watt RMS speaker AND have its' own FUSE. With EACH output fused, one output may remain functional even though the other output has ruptured its fuse.

The full featured siren must have a rotary switch for selecting siren tones and radio, a momentary push button for tone override, a master on/off switch, a dual mode switch, a noise-canceling PA microphone and a large PA volume control knob. The remote siren also features LED backlighting and the function that enables the driver hands-free control of the siren by cycling through the tones with the vehicles horn. The features of the siren must be easily selected at installation using an internal DIP switch. The siren must designed to power two siren-speakers and include external fusing, short circuit, high voltage and reverse polarity protection systems. A wiring connector and optional mounting bracket for the PA microphone are included.

- 200-watt electronic 2 channel siren amplifier delivers dual tone capabilities
- Dual mode switch to select between single and dual tone modes
- Single lead connection between the control head and amplifier

- 12 different tone combinations using Wail, Yelp, Manual, Phaser, and Air Horn tones with optional European HiLo/Two-Tone siren tone

- Six position rotary switch with a momentary push-button override
- PA override with attached noise-canceling microphone and large PA volume control knob LED backlighting
- Horn Ring Cyclor 2 (HRC2) for hands free siren tone control
- DIP switch programmable
- External fusing
- Short circuit, high voltage and reverse polarity protection systems
- Wiring connector
- Mounting brackets for the PA microphone
- Control Head: 2-7/8" H x 6-1/4" W x 1" D
- Amplifier: 2-1/8" H x 8" W x 6-3/4" D

Mechanical Siren Sounds

Wail

Yelp

Phaser

Manual

Horn

Wail and Yelp

Mechanical Siren

Air Horns

A Carson Warning Systems Model SS-441-17F will comply with this specification.

Vendor Complies? **Yes** **No**

SIREN SPEAKERS: Each speaker shall have a 100 watt driver and shall emit through the cast aluminum horn, specifically designed to custom fit against the contours of the O.E.M. Front bumper. The cast horn to bumper fit shall be tight and aesthetically pleasing. The edges of each hole, in the bumper, shall be clean and shall have rust preventative treatment, prior to final installation of the speakers. The siren and speakers shall meet or exceed current Federal KKK-A-1822.

Vendor Complies? **Yes** **No**

SIREN OR HORN SELECTOR SWITCH: The O.E.M. horn ring shall control the O.E.M. electric horn and the siren's manual momentary input controls. A switch shall connect the horn ring to either the O.E.M. HORN or to the SIREN. The switch shall be located in the cab console's switch panel. The switch legend that clearly defines the switch function shall be engraved in the switch panel. The legend shall be illuminated when the head light switch is on.

Vendor Complies? **Yes** **No**

STROBE SWITCHING: The above mentioned lights shall be wired to activate in Primary and Secondary modes.

Vendor Complies? **Yes** **No**

CORNER CAP WARNING LIGHT SWITCHING: The above mentioned corner cap LED lights shall be wired to activate in Primary Only.

Vendor Complies? Yes No

PRIMARY / SECONDARY SWITCH: The warning light system shall be controlled with a switch (es) located in the cab console. The switch(es) shall allow for "Off" position, "Primary" position, and "Secondary" position. Each output of the switch shall be indicated with a small red lamp, integrated in the switch legend area. The switch shall have an engraved, illuminated legend that clearly defines the function of the switch.

Vendor Complies? Yes No

GENERAL CABINET CONSTRUCTION

SUBSTRATES; The interior cabinets and components shall be constructed of exterior water boil proof resin (WBP). The glue line between layers shall be of similar chemical makeup as the phenolic resin used in marine Grade plywood, as designated by the APA (American Plywood Association). Phenolic resins are designed to eliminate formaldehyde off gassing often associated with most hardwood plywood. The exposed layers of the substrate shall be hard wood on both sides of the sheet, these layers shall be 99% void free. Cabinet cases are to be made from at least 12mm thick, minimum 5 ply. Bench Lids and Doors shall be made from at least 18 mm thick, minimum 7 ply.

Vendor Complies? Yes No

CABINET INTERIOR FINISH: Cabinet interior shall be laminated with white colored, high impact, abrasion resistant laminate. The contact adhesive shall be a high bond contact adhesive, specifically designed to bond plywood to laminate. The laminate shall be at least 28 mills thick.

Vendor Complies? Yes No

LAMINATE: A high impact, phenolic backed, high impact, and abrasion resistant laminate shall be used. The laminate shall be at least 45 mills thick. This material as well as all interior components shall meet or exceed F.M.V.S.S. #302 (Burn rate of interior components). Color selection shall be specified at the pre-build conference.

Vendor Complies? Yes No

CABINET ASSEMBLY: To maximize fastener bite, cabinet substrate parts shall be stapled with pneumatic fired equipment. The length of the fastener shall be at least 2.25 times the thickness of the material being pierced through. In addition to staples, the entire cabinet assembly must be screwed together with a minimum #8 screw size and a length not less than 2.25 times the thickness of the pierced substrate. Screw heads shall be countersink type and driven flush. Reinforcement

cleats shall be bonded to the inside corners where the backside of the face of the cabinet meets the case of the cabinet. The glue used shall be, yellow colored water proof resin type.

Vendor Complies? **Yes** **No**

CABINET TRIM: All trim throughout the interior conversion shall be anodized aluminum or formed stainless steel. All exposed corners within the patient compartment shall have padded or rounded corners. Rounded corners shall be at least .250 inch radius. Rounded corners shall not compromise maximum cabinet assembly strength. The trim shall be bonded with a high strength adhesive.

Vendor Complies? **Yes** **No**

FIT AND FINISH: Mitered joints throughout the interior conversion shall have a gap-less, hairline fit. Sliding polycarbonate door assemblies shall be scratch free and all edges shall be smooth and free of saw marks and sharp edges. Cabinet to cabinet joints shall not require more than 7/32 diameter welting to create a finished/well-fit look. Cabinets shall fit tightly against the ceiling as well.

Vendor Complies? **Yes** **No**

FUNCTION: Doors and drawers shall fit the opening. When specified, flush fitting doors shall have even door to opening gaps. All doors shall open and close bind free. Drawers shall slide in and out freely, without drag. All drawers shall be mounted on side mounted, full extension drawer slides, rated no less than 75 pounds per pair. All hinged wood core doors shall have positive latches. High traffic, high cycle doors shall have adjustable tension, brass bodied catches. All hinged polycarbonate doors shall have adjustable tension, brass bodied catches.

Vendor Complies? **Yes** **No**

CABINET DOORS

SLIDING POLYCARBONATE DOORS: Polycarbonate shall hereinafter be identified as Lexan. Unless specified otherwise, all cabinets along the street and curb side of the vehicle shall have a mitered framed, sliding transparent Lexan door assembly. The polycarbonate shall be at least 3/16 inch thick. Each door shall be fitted with a full length, extruded aluminum door handle. The door pull extrusion shall also add bend resistance to the door. The door track/Frame extrusion shall incorporate a flocked natural rubber track insert to prevent the doors from sliding free during transit. The corners of the assembly shall have drive-in corner spline. Each spline shall be riveted into place. All extrusions shall be anodized.

Vendor Complies? **Yes** **No**

HINGED POLYCARBONATE DOORS: Polycarbonate shall hereinafter be identified as Lexan. The polycarbonate shall be at least 3/16 inch thick. The desired thickness shall be noted within this specification at each door location. The door

orientation, hinge style and latch shall also be noted at each door location as well. The door edges shall be rounded and smooth since it will be the finished edge that will be visible.

Vendor Complies? **Yes** **No**

SOLID HINGED DOOR: When a solid door is specified, a 3/4" (19mm) thick door shall be supplied on the cabinet. The substrate shall be 7-ply, A-A (Cabinet grade), hardwood plywood. The door shall be flush fitted to the opening and have uniform gap spacing around the perimeter of the door. The door shall be hung on a continuous, stainless steel piano hinge with mounting screws, spaced every two inches along the full length of the pre-punched hinge. The door shall be finished on both sides with white cabinet liner laminate on the inside and the same colored mica as the cabinet fascia on the outside.

Vendor Complies? **Yes** **No**

BULKHEAD, PATIENT / DRIVER CABIN: A permanent partition shall be installed between the driver's cabin and the patient cabin. The partition shall be through bolted through cab extension structural C-channels. The C-channels shall be integrated into the front section of the module body. The channel flanges shall be directed toward the cab interior to permit through bolting of the bulkhead panel and cabinetry.

Vendor Complies? **Yes** **No**

MICA COLOR: The mica color selection shall be Light Gray with a Glossy finish. A sample of the subject mica color shall be supplied at the post award conference.

Vendor Complies? **Yes** **No**

POLYCARBONATE COLOR: The polycarbonate throughout the vehicle shall be transparent with a gray medium tint. All doors shall be at least three sixteenths of one inch thick (3/16"), shatter proof and scratch resistant. The edges of the door shall be worked and burned smooth. The material shall be flexible enough to be cold formed (Bent) at ninety degrees, without fracturing the material.

Vendor Complies? **Yes** **No**

HANDLES, POLYCARBONATE DOORS: Full height, anodized aluminum, extruded drive on handles shall be supplied on each 3/16" door. The handle shall wrap around the leading edge of each door and mount with one way angular, blind mounting teeth designed to be driven on.

Vendor Complies? **Yes** **No**

SECURITY HOLES: Each sliding polycarbonate door shall have 1 inch holes designed to install security tags. The holes shall be located adjacent to the overlapped area with both doors closed.

The tags are designed to identify cabinets that have been entered and need to be restocked.

Vendor Complies? **Yes** **No**

AIR CONDITIONING EVAPORATOR CABINET: The patient cabin shall be equipped with a rear air conditioning and heat unit. AC Unit to be located on the floor behind the Attendant seat. The design shall provide adequate air return to meet or exceed the current revision of the Federal specification KKK-A-1822.

Vendor Complies? **Yes** **No**

BULKHEAD UPPER CABINET: This cabinet shall be located behind and over the seated attendant. The access door shall be hinged along the top with a "C" shaped handle at the bottom. The hinges to be reel torque style and there shall be an adjustable roller ball grabber catch to hold the door in the closed and latched position.

Vendor Complies? **Yes** **No**

CURBSIDE UPPER CABINET: The curbside upper cabinet is located on the curbside (right side) of the patient cabin, over the squad bench. The cabinet length shall be maximized and start within two inches of the curbside entry door opening and mate to the right rear wall of the patient cabin.

Vendor Complies? **Yes** **No**

REAR GLOVE BOX STORAGE: There shall be glove box storage for four (4) boxes of gloves located over the rear entry doors, at each end of cabinet, with open space in middle for mounting a clock. The gloves shall dispense through oblong slots cut into the individual 3/8-inch thick Lexan doors, hinged at the top and feature a brass bodied, roller bearing type catch at the bottom.

Vendor Complies? **Yes** **No**

ADJUSTABLE SHELF: Two adjustable shelves shall be supplied in the cabinet. Each shelf shall be finished in white colored laminate. Both sides of each shelf shall be laminated. The shelf shall be secured to four shelf clips with Phillips head wood screws, from the bottom of the shelf. An anodized aluminum angle shall be securely fastened to the front edge of the shelf. The vertical leg of the angle shall provide a lip along the front edge.

Vendor Complies? **Yes** **No**

DOOR EDGE FINISH: The edges of the aforementioned door(s) shall be covered with anodized aluminum, U-shaped trim. The trim shall be miter cut and wrapped around the perimeter of the door (On ALL four sides), including the hinged side. The trim shall be bonded to the door edge and clamped. No screws or other mechanical fastener shall be used to fasten the trim work to the door(s). The corners

of the doors shall be broken (rounded) after application. Vinyl "Iron on" or mica edge banding is not acceptable.

Vendor Complies? **Yes** **No**

ALS CABINET WEBBING: There shall be a removable cover over the right front ALS cabinet opening. The cover shall consist of 2" seat belt webbing material. The 2" webbing shall be constructed so that the openings are no larger than about 7" squares. The ends shall be sewn in loops to allow installation through a metal footman style loop that will be fastened to the edge of the ALS cabinet. The netting shall be quick released for access to the secured equipment through automotive style metal buckles. The design shall be so that the stored medical equipment is not able to come through the holes in the net and is secured when the net is in place.

Vendor Complies? **Yes** **No**

ACTION AREA COUNTER SURFACE: The action area counter surface shall be made from one half inch thick solid surfacing material. The color shall compliment the color scheme of the mica, floor and upholstery in the remaining areas of the vehicle interior. This material shall be installed by certified personnel trained on the specific brand of solid surfacing material being installed. The successful bidder shall disclose the make of the solid surfacing material they are providing to the agency on their "Shop Order".

The proposed solid surfacing material shall meet the following minimum technical specifications:

TEST	TEST VALUE	TEST METHOD
Stain Resistance:	24	ANSI 5.2.1
Barcol Hardness	60-62	Barcol Impressor
Flexural Strength, PSI	8250	ASTM D-790 Flexural
Modulus, PSI x 10 1.41		ASTM D-790
Dart Impact, 2lb dart	No Fracture	30" Drop
Fire Rating	Class A / Class 1	ASTM E-84
Sample Thickness	0.785 inches	
Color Fastness	Pass	ANSI Z124.3-1986
The samples shall show no significant change in color after 200 hours of exposure.		
Wear ability	Pass	ANSI Z124.3-1986
After completion of 10,000 scrub cycles, no wear through shall be observed.		
Ability to Clean	Pass	ANSI Z124.3-1986
The average absolute loss of white light reflectance after application and removal of standard dirt with liquid detergent shall be 0.0%. No additional cleaning shall be necessary.		
Chemical Resistance	Pass	ANSI Z124.3-1986

Solid Surface material is defined as a composite of high tech resins and natural minerals giving the bold and elegant perception of stone. The material shall be 100% solid meaning the surface color goes all the way through. This material shall

be chemically engineered to resist stains, nicks and scratches. The material shall be nonporous and shall not support the growth of mold, mildew and bacteria.

Vendor Complies? **Yes** **No**

TELEMETRY AREA COUNTER SURFACE: The telemetry area counter surface shall be made from one half inch thick solid surfacing material. The color shall compliment the color scheme of the mica, floor and upholstery in the remaining areas of the vehicle interior. The material shall be tested to the same material as the "Action Area". The successful bidder shall disclose the make of the solid surfacing material they are providing to the agency on their "Shop Order".

Vendor Complies? **Yes** **No**

PLASTIC VENT: A fifteen square inch free air flow ventilation hole be cut into the above door. The edges of the cut out shall be banded. The hole shall be covered with an aesthetically appealing, molded plastic louver cover. The louver cover shall be black in color and secured with at least one No 8 screw in each corner.

Vendor Complies? **Yes** **No**

OPEN CABINET - NO DOOR(S): The cabinet shall have full open access to all levels within the cabinet. The perimeter of the opening shall be protected with anodized aluminum trim. The trim shall be set with an adhesive in addition to counter sink screws.

Vendor Complies? **Yes** **No**

CABINET TRIM TYPE: The aforementioned cabinet opening shall be finish trimmed with three quarter inch by one quarter inch chamfered trim. The anodized trim shall be designed to be applied to an un rounded corner to maximize bonding area surface between the cabinet and the trim. The trim shall yield a chamfered outer corner and provide 3/4" material protection on one leg and 3/16" on the other leg. The frontal surface shall angle close (to within 1/32") of the cabinet fascia to minimize snagging clothing, equipment or other items while passing by the trimmed opening. The trim shall be thick enough to protect the access opening and withstand normal working abrasions of equipment coming out of and being placed into the cabinet.

Vendor Complies? **Yes** **No**

SLIDING POLYCARBONATE DOORS: The cabinet shall be equipped with two sliding 3/16" polycarbonate doors within a closed anodized aluminum track/frame. The sliding polycarbonate door track shall be an extruded, anodized aluminum shape designed to accommodate a flocked, felt type track for the doors to slide in and lightly resist movement. The mitered corners shall be spline together and riveted. The extrusion shape shall cover one half of one inch of cabinet fascia around the perimeter of the track frame.

Vendor Complies? **Yes** **No**

CABINETS "K1 & K2": An interior cabinet shall be provided above the squad bench, on the curb side of the vehicle. This multipurpose cabinet interior shall be finished in high impact, white colored mica that is impervious to disinfectants and cleaners. The cabinet shall have two openings, each with a fixed divider set back from the face.

Vendor Complies? **Yes** **No**

HINGED POLYCARBONATE DOOR: A 3/8" (0.375 in) thick, overlay hinged door with three oblong, dispense through holes shall be supplied on the aforementioned cabinet. The outer door edges and the oblong hole edges in the door shall be router semi-round and burned smooth. Each oblong hole shall align with the center of each divided cabinet cell. The design intent for the oblong holes is to be capable of dispensing gloves through the door, directly from the box.

Vendor Complies? **Yes** **No**

RESTOCKING FEATURE: The uppermost cabinets, shall have sliding polycarbonate doors. Additionally the entire framed assembly shall hinge upward 90 degrees to provide 100% access for the purpose of restocking the cabinet. The assembly shall be supported by a gas piston spring on each side and latched with two positive, slam action latches that are blind mounted behind each end of the window frame. The use of plywood in this assembly is not acceptable, due to lost access area.

Vendor Complies? **Yes** **No**

One (1) Doors, Sliding Lexan, Mitered AL Assy: Restocking

RESTOCKING FEATURE: The uppermost cabinets, shall have sliding polycarbonate doors. Additionally the entire framed assembly shall hinge upward 90 degrees to provide 100% access for the purpose of restocking the cabinet. The assembly shall be supported by a gas piston spring on each side and latched with two positive, slam action latches that are blind mounted behind each end of the window frame. The use of plywood in this assembly is not acceptable, due to lost access area.

Vendor Complies? **Yes** **No**

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window frame. The use of plywood in this assembly is not acceptable, due to lost access area.

Vendor Complies? **Yes** **No**

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Vendor Complies? **Yes** **No**

One (1) (K) Doors: Dual Flip Up 3/8" Lexan

DUAL FLIP UP POLYCARBONATE DOORS: Dual 3/8" (0.375 in) thick, overlay flip up doors shall be supplied on the cabinet.

Vendor Complies? **Yes** **No**

One (1) Hinges: Reel Torque

HINGES: Reel Torque Style.

One (1) Hinge Orientation: TOP

HINGE ORIENTATION: The aforementioned door shall be hinged along the top edge of the door.

One (1) Hinge Orientation: LEFT

HINGE ORIENTATION: The aforementioned door shall be hinged along the left edge of the door.

One (1) Hinge Orientation: RIGHT

HINGE ORIENTATION: The aforementioned door shall be hinged along the right edge of the door.

Vendor Complies? **Yes** **No**

One (1) Door, Single Solid Flush Fitted

SOLID HINGED DOOR: A 3/4" (19mm) thick door shall be supplied on the aforementioned cabinet. The door shall be flush fitted to the opening and have uniform gap spacing around the perimeter of the door. The door shall be hung on a continuous, stainless steel piano hinge with mounting screws, spaced every two inches along the full length of the pre-punched hinge. The door shall be finished with white cabinet liner laminate on the inside and the same colored mica as the cabinet face on the outside.

Vendor Complies? **Yes** **No**

One (1) Door, Single Solid Flush Fitted

SOLID HINGED DOOR: A 3/4" (19mm) thick door shall be supplied on the aforementioned cabinet. The door shall be flush fitted to the opening and have uniform gap spacing around the perimeter of the door. The door shall be hung on a continuous, stainless steel piano hinge with mounting screws, spaced every two inches along the full length of the pre-punched hinge. The door shall be finished with white cabinet liner laminate on the inside and the same colored mica as the cabinet face on the outside.

Vendor Complies? **Yes** **No**

One (1) Door, Single Solid Flush Fitted

SOLID HINGED DOOR: A 3/4" (19mm) thick door shall be supplied on the aforementioned cabinet. The door shall be flush fitted to the opening and have uniform gap spacing around the perimeter of the door. The door shall be hung on a continuous, stainless steel piano hinge with mounting screws, spaced every two inches along the full length of the pre-punched hinge. The door shall be finished with white cabinet liner laminate on the inside and the same colored mica as the cabinet face on the outside.

Vendor Complies? **Yes** **No**

C-HANDLES: The door shall be fitted with a four inch wire pull with a brushed chrome finish.

Vendor Complies? **Yes** **No**

DOOR CATCH: An opposing ball bearing catch shall be supplied and installed on the cabinet door. The catch body shall be made of brass with Built in tension adjustment to relax or intensify the "grip" on the door.

Vendor Complies? **Yes** **No**

Lock (KV-70): 1/2 turn pawl - Hinged Door

LOCK: A quarter turn lock shall be supplied and installed on the cabinet door. The lock shall have a bright finish. Lock pawl activation shall be enabled with a single sided bitted key. The depth of the pawl shall be adjusted against a stop that precludes the door movement when locked.

Vendor Complies? **Yes** **No**

One (1) Round Pull Latch: Non-locking - Chrome Finish

NON-LOCKING LATCH: A round pull style chrome positive latch shall be supplied and installed on the cabinet door. A small "pre-load" on the latch shall be imposed to prevent the door from rattling.

Vendor Complies? **Yes** **No**

One (1) Round Pull Latch: Non-locking - Chrome Finish

NON-LOCKING LATCH: A round pull style chrome positive latch shall be supplied and installed on the cabinet door. A small "pre-load" on the latch shall be imposed to prevent the door from rattling.

Vendor Complies? **Yes** **No**

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NON-LOCKING LATCH: A round pull style chrome positive latch shall be supplied and installed on the cabinet door. A small "pre-load" on the latch shall be imposed to prevent the door from rattling.

Vendor Complies? **Yes** **No**

One (1) Round Pull Latch: Locking - Chrome Finish

LOCKING LATCH: A round pull style chrome positive latch shall be supplied and installed on the cabinet door. There shall be a key included for locking purposes.

Vendor Complies? **Yes** **No**

LEFT FRONT CABINET, CABINET "H": Cabinet "H" is the electrical cabinet behind the attendant seat on top of the AC Unit. This cabinet will house the modular electrical components to include two air vents in the door.

Vendor Complies? **Yes** **No**

RIGHT FRONT CABINET OUTSIDE ACCESS: The right front cabinet of the module shall have outside access through the right front (M-7) compartment door.

Vendor Complies? **Yes** **No**

INTERIOR COLOR: The above cabinet interior surfaces shall be lined with Laminate that is color Keyed to the Vehicle interior laminate color.

Vendor Complies? **Yes** **No**

CABINET ACCESS: The above cabinet shall be accessible through the inside and outside of the module. Exterior Access shall be made through a separate right front compartment door. Exterior access common to enlarged entry doors are not acceptable.

Vendor Complies? **Yes** **No**

RIGHT FRONT CABINET (I): The right front cabinet is hereinafter known as ALS cabinet. All fixed and adjustable shelf surfaces shall be covered in Easy Grip material. All fixed and adjustable shelf lips shall be covered with anodized aluminum trim. All shelves shall have a ¾ lip. The ALS cabinet shall be provide at least 22.0 cubic feet of storage and Configured as follows.

Cabinet I-1: (4) Glove Storage

CABINET I-1: This cabinet is located on the top section of the right front patient area.

Vendor Complies? **Yes** **No**

Cabinet I-2 and I-3: Custom Split

CABINET I-2: This cabinet is the upper middle section of the ALS (Cabinet I).

Vendor Complies? **Yes** **No**

RIGHT REAR COMPARTMENT COVER: All exposed surfaces of this patient area side of the M5 compartment shall be fully laminated with color keyed laminate. The vertical outer corner shall feature a radius anodized aluminum trim. The trim shall originate from the top of the mated squad bench and terminate into the ceiling.

Vendor Complies? **Yes** **No**

UPHOLSTERY PAD: An upholstered pad covering the entire forward facing wall, over the squad bench shall be provided to protect occupants sitting on the squad bench. The pad shall include at least 1/2" thick foam padding covered in the same heavy duty vinyl covering specified for the squad bench cushions and the remaining upholstery package.

Vendor Complies? **Yes** **No**

DRINK HOLDER: The drink holder shall be located at the middle of the add on console.

Vendor Complies? **Yes** **No**

UNDER LID STOWAGE: The squad bench shall provide storage under the access lids. This multipurpose storage area shall be finished in high impact, white colored laminate. Must meet current Federal specification current KKK-A-1822.

Vendor Complies? **Yes** **No**

BIO-WASTE RECEPTACLE: A biological waste receptacle shall be supplied and installed in the squad bench. The receptacle shall accommodate a sharps container and a solid waste container per the following paragraphs. Both the sharps and the solid waste containers shall be enclosed and secured in a molded enclosure, free of crevices. The molded enclosure shall be covered with a red Lexan hinged door, inset a molded in perimeter rim. The door pull shall be full length. A white colored "Bio-waste" symbol and legend shall be applied to the door.

Vendor Complies? **Yes** **No**

SHARPS CONTAINER: A puncture proof, disposable sharps container located at the head of the squad bench with a 3 quart capacity shall be supplied for safe

disposal of used/contaminated syringes. The unit shall include a spring loaded clip in the mounting to allow for secure mounting in the case of an accident.

Vendor Complies? **Yes** **No**

WASTE CONTAINER: One six quart (346 cubic inch), rimmed plastic waste container shall be supplied and fitted into the "Bio-waste" enclosure

Vendor Complies? **Yes** **No**

SHARPS SYSTEM CONTAINER & BRACKET: The truck shall be equipped with a Kendall Sharps Container, Model # 8507SA. Also equipped with a Sharps bracket, the bracket will have locking door that shall be hinged Left. The container will be a drop in style and removable from the top.

Vendor Complies? **Yes** **No**

SQUAD BENCH: A squad bench shall be installed on the curbside of the patient compartment. Seating shall be installed as described writing these specifications. All seat belts and anchorage shall comply with FMVSS. 209 and 210. The Squad Bench shall comply with current KKK-A-1822. A back and head rest shall be supplied for all seated personnel along the squad bench.

Vendor Complies? **Yes** **No**

EDGE TRIM: The edge of the squad bench lid shall be finished with aluminum anodized "J" trim. The trim is to be supplied with countersunk holes to allow for screws to be installed flush so the screw head does not catch anything.

Vendor Complies? **Yes** **No**

HINGE, SQUAD BENCH LID(S): All squad bench lids shall be installed with butt style, hinges. The hinges shall be through bolted for longevity of the vehicle. There shall be a minimum of two hinges per lid.

Vendor Complies? **Yes** **No**

LID LATCH: One latch to hold each lid down shall be supplied. The lid latch shall be stamped stainless steel construction and latches automatically by simply closing the bench lid.

Vendor Complies? **Yes** **No**

LID CHECKS: Each squad bench lid shall have a bi-directional gas spring lid check (Hold open). The force value selected and ball stud locations shall provide lift assistance after twenty degrees of bench lid lift angle. The ball stud mounts shall be at least 10 millimeter.

Vendor Complies? **Yes** **No**

SQUAD BENCH LIDS: Two (Split) squad bench lids shall be supplied over the squad bench storage area.

Vendor Complies? **Yes** **No**

SEAT BASE: There shall be a powder coated metal seat that is tested to be utilized with the WISE seat picked. The metal base shall be mounted to the ambulance floor and secured to modular body sub-structure according to the manufacturer's guidelines. The seat base pull handle shall be replaced with a durable T shaped handle.

Vendor Complies? **Yes** **No**

CABINET "A": An upper, interior cabinet shall be provided directly over the rearward section of the Base wall cabinet. This cabinet shall accommodate a power air exhaust blower with a removable service panel. This multipurpose cabinet interior shall be finished in high impact, white colored laminate. Must meet current Federal specification KKK-A-1822.

Vendor Complies? **Yes** **No**

CABINET "B1": An upper, interior cabinet for storage shall be provided directly over the "Action Area" and slightly forward. Must meet current Federal specification KKK-A-1822.

Vendor Complies? **Yes** **No**

CABINET "B": An upper, interior cabinet shall be provided directly over the "Action Area". This multipurpose cabinet interior shall be finished in high impact, white colored laminate. The cabinet shall be ergonomically angled toward the CPR seat. Must meet current Federal specification KKK-A-1822.

Vendor Complies? **Yes** **No**

SHELF STANDARDS: The aforementioned cabinet shall be equipped with non incremental, aluminum, C-shaped shelf standards.

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One (1) Shelf **Track:** Small alum unis rut type

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Vendor Complies? **Yes** **No**

BASE WALL CABINET: The base wall cabinet is located on the Street side (Left side) of the patient cabin. The overall height of the Base Wall Cabinet shall be

approximately 75% of the overall head room. This cabinet shall be built in ONE piece. The laminate along the fascia shall be ONE piece on single color laminate selections. A CPR Side Seat shall be provided on the street side aligned with the primary patient abdomen.

Vendor Complies? **Yes** **No**

ACTION AREA: The action area is a work surface located on the forward end of the Base Wall Cabinet and adjacent to the attendant seat. The work surface shall be at least 5.5 square feet. The work area height shall be 24 inches to 29 inches. The work surface shall have a three quarter inch (3/4") high lip.

Vendor Complies? **Yes** **No**

BIO-WASTE RECEPTACLE: A biological waste receptacle shall be supplied and installed in the action area. The receptacle shall accommodate a sharps container and a solid waste container per the following paragraphs. Both the sharps and the solid waste containers shall be enclosed and secured in a molded enclosure, free of crevices. The molded enclosure shall be covered with a red Lexan hinged door, inset a molded in perimeter rim. The door pull shall be full length. A white colored "Bio-waste" symbol and legend shall be applied to the door.

Vendor Complies? **Yes** **No**

BACK REST: The CPR side seat shall feature a padded, fixed back rest with chamfered upper corners.

Vendor Complies? **Yes** **No**

CABINET "C": An interior cabinet shall be provided at the rear end of the base cabinet on the street side. This cabinet interior shall be finished in high impact, white colored laminate. Must meet current Federal specification KKK-A-1822.

Vendor Complies? **Yes** **No**

CABINET "D": An interior cabinet shall be provided directly over the rearward "Telemetry Area just aft of the CPR side seat within the base cabinet on the street side. This cabinet will be ergonomically angled towards the CPR seat. This multipurpose cabinet interior shall be finished in high impact, white colored laminate. The cabinet shall be ergonomically angled toward the CPR seat. Must meet current Federal specification KKK-A-1822.

Vendor Complies? **Yes** **No**

CABINET "F": An interior cabinet shall be provided directly below the "Telemetry" Area. This multipurpose cabinet interior shall be finished in high impact, white colored laminate. Must meet current Federal specification KKK-A-1822.

Vendor Complies? **Yes** **No**

CPR SEAT: A left side "CPR" side seat shall be provided on the street side and aligned with the primary patient's abdomen. The seat shall be at least twenty four (24") inches wide and normal squad bench seat height. Upholstered seat pads shall be located within the seat area for the seat, back, both arms and hips. The CPR seat area shall have rounded corners.

Vendor Complies? Yes No

TELEMETRY AREA: A four inch wide upholstery covered and padded arm rest shall be installed. The arm rest shall create a 3/4" to 1" lip on the leading edge of the telemetry area.

Vendor Complies? Yes No

Diamond Plate Storage Caddy Installed on CSE Door

Vendor Complies? Yes No

FLOOR AND SUBSTRATE: The floor of the module shall be (3/4) thick 7-Ply, Formaldehyde free, exterior grade, A-C plywood. The glue line between the layers shall be phenolic based. The glue shall be of similar chemical make up to the phenolic glue used in Marine grade plywood, as designated by the A.P.A. (American Plywood Association).

Vendor Complies? Yes No

FLOORING MAIN EDGE: The one-piece patient cabin floor covering material shall run the full width of the aisle space plus roll up (3") three inches along the Base wall cabinet, squad bench and the right rear cabinet (when applicable). Both roll-up areas shall be recessed approximately 1/2" into the face of the cabinets.

Vendor Complies? Yes No

FLOOR COVERING: The floor substrate shall be free of dents, voids and moisture prior to application of the floor covering. The plywood substrate shall be 3/4" (19mm) 7-ply exterior grade plywood. The substrate sheet shall be cut from a 60 inch wide by 144 inch long oversized sheet. No substrate seams are allowed in high foot traffic areas. This means NO SEAMS are permitted within 132" of the rear access doors or near the side access door.

On longer bodies, the only ONE seam is permitted as long as the full length of the seam is located directly over the center of a 0.250 x 2 x 3 box tube floor member AND the seam does not fall in the aforementioned "High Traffic" areas.

The floor covering shall be one piece throughout the patient cabin regardless of the body length. The flooring material shall be commercial grade sheet floor with diamond plate like impression on the surface. The floor covering shall be Lonseal Lonplate II No 424TX "Gun Metal" (Dark Gray). The main field of the flooring around the diamonds, shall be textured to minimize the appearance of minor scratches and imperfections brought on by wear.

Vendor Complies? Yes No

REAR THRESHOLD: The rear threshold shall be made of 16 gauge brushed stainless steel sheet. The threshold shall conceal the end of the vapor sheet, sub floor, and flooring. The threshold shall mate to the top of the rear access door jamb and cover at least six inches of flooring. Installed over the stainless steel threshold shall be two 2.5" wide "nonskid" tape, strips applied. The color of the tape shall be safety yellow with black diagonal stripes.

Vendor Complies? **Yes** **No**

C/S THRESHOLD: The C/S threshold shall be made of .100 polished aluminum diamond plate.

Vendor Complies? **Yes** **No**

PRIMARY COT MOUNT: The main cot mount shall be a dual position, Stryker model No 6377. The mounts shall be set in the center of aisle and seven inches (7) left of center position.

COT FASTENER MOUNTING METHOD: All mounting bolts shall be 3/8" diameter, socket head cap screws with at least 16 threads per inch. All mounting blocks shall be supplied and manufactured by the cot mount manufacturer. The mounting blocks may protrude above the flooring surface by up to 3/16", as long as all of the edges are chamfered. The aforementioned cap screws shall not protrude above the upper surface of the mounting block.

All cap screws shall be through bolted through 1/2 (.500) inch thick, 6061-T-6 Aluminum plate structure. One and one half (1-1/2) inch x six (6) inch thick plates shall either be MIG welded or Chuck structurally fastened to the floor grid for both cot mount and attendant seat fastening locations. All fastening hardware shall be either through bolted or tapped depending on under floor clearances due to chassis installed components. Mounting bolts shall not point toward fuel filler or fuel vent hoses, in accordance with good engineering practices set forth by the Society of Automotive Engineers and Ford's Qualified Vehicle Modifiers' program.

Bidders shall meet or exceed mechanical strength described in the aforementioned minimum fastening method. Material thickness and/or through bolt criteria is mandatory even if the vendor has current certification to A.M.D. Standard 004 utilizing lesser materials. Cot Mount Hardware shall be included.

Vendor Complies? **Yes** **No**

COT POSITION No 1: PRIMARY CENTER POSITION: This cot position shall be set up for a primary wheeled cot set centered laterally (side to side) in the aisle. The longitudinal location shall be set 30 inches measured from the backrest of the attendant's seat (set all the way toward the front of the patient cabin) to the head of the primary cot frame, per current KKK-A-1822.

Vendor Complies? **Yes** **No**

COT LOCATION No 2: SECONDARY SIDE LOCATION: This cot position shall be set up for a primary wheeled cot set approximately eight inches left of center laterally (side to side) in the aisle or as close to the left side wall cabinet as practical. The longitudinal location shall be set 30 inches measured from the backrest of the attendant's seat (set all the way toward the front of the patient cabin) to the head of the primary cot frame, per current Federal KKK-A-1822.

Vendor Complies? Yes No

COT HOOK: A Stryker manufactured ramped hook derived of solid aluminum shall be through bolted to the threshold at the rear access doors. The design intent is to prevent accidental cot roll off during loading and unloading a one man cot. The hook shall snag a tubular drag bar that is built into the cot frame. The cot hook shall be placed in a position where the under carriage of the cot can be erected and locked into place before release of the drag bar.

Vendor Complies? Yes No

PRIMARY COT POSITION REINFORCEMENT; There shall be a singular piece of aluminum reinforcement installed running the length of the primary cot position in the modular ambulance. It shall be secured to the modular tubes by welding or hock fasteners.

Vendor Complies? Yes No

INTERIOR GRAB HANDLE COLOR: The interior grab handles listed below will be powder coated with anti-microbial, yellow in color.

Vendor Complies? Yes No

CURB SIDE ENTRY DOOR GRAB HANDLES: The curbside side entry door shall be equipped with a three point, "L" Shaped 1 ¼ diameter, stainless steel with Yellow anti-microbial coating, handicap style grab handles to aid in door closure and entry assistance.

The grab handle shall run horizontally, directly above the inside door latch and bend Ninety degrees downward to create a banister (handrail) to aid in vehicle egress. The door handle shall be fastened directly to the horizontal door structure that is welded to the door assembly.

Vendor Complies? Yes No

REAR ENTRY DOOR GRAB HANDLES: The rear entry doors shall be equipped with a three point, "L" Shaped 1 ¼ diameter, stainless steel with gray anti-microbial coating, handicap style grab handles to aid in door closure and entry assistance.

The grab handle shall run horizontally, directly above the inside door latch and bend Ninety degrees downward to create a banister (handrail) to aid in vehicle egress.

The door handle shall be fastened directly to the horizontal door structure that is welded to the door assembly.

Vendor Complies? **Yes** **No**

RESTRAINT NET: A detachable net shall be installed at the head of the squad bench. In the event of sudden stop or frontal accident, the design intent of the net is to minimize injuries to unbelted personnel seated on the squad bench. The net is a safety barrier between the occupant/personnel and the bulkhead cabinetry. The net shall be a grid of 2 wide safety web, spaced on maximum centers of 8 inches.

The net shall be secured at six points. All points must be secured to 0.250 inch thick Aluminum tapping plates; or body structure with wall thickness of 0.250 inch; or through bolted to cabinet interface reinforcement brackets that are bolted to 0.250 thick welded body structure. The net shall be tightly stretched and attached to the following surfaces:

One point on the ambulance floor on the aisle side of the squad bench.

One point at the top of the squad bench near the curb side wall.

Two points at the curb side wall, near the side entry door.

Three points in the ceiling.

All Restraint Net attachment devices shall be aviation quality and pull strength tested. Tested to 2,000 pound force applied in shear (Horizontally). Detachment of the net shall be done without the need for a removal or installation tool(s). Each device shall feature a cadmium plated steel attachment ring that is forged in one continuous ring, without a split or seam. Each device shall be sewn onto the net webbing with a 1 3/4 inch square shaped thread path and diagonal X-shaped thread path to assure web to ring security.

Vendor Complies? **Yes** **No**

NECK STRAP: There shall be an additional webbed strap looped onto the racks upper most securing strap. The strap is to have two loops. The bottom loop will be the section secured to the upper most strap and the upper loop shall be secured onto the neck of the oxygen or medical air bottle to help secure it in place in the case of an upward exertion.

Vendor Complies? **Yes** **No**

OXYGEN OUTLETS - GENERAL: Each outlet shall be comprised of an "*Inlet Box*" and a "*Latch Plate*" as defined herein. The "*inlet box*" shall be a universal inlet service box with a 165 mm type "K" (3/8") OD Copper inlet pipe stub which is silver brazed to a brass, one piece, and (1 5/16") inlet body. The "*inlet box*" shall

be designed specifically for positive pressure gas service and feature a primary and secondary check valve. Each check valve shall be rated at 1,379 kPa (200psi).

The "*Latch Plate*" shall insert into the universal "*Inlet Box*". The "*Latch Plate*" is comprised of the outer cover plate and latching mechanism that will define the adapter type/Brand that will ultimately connect the patient to the oxygen system. The outlet cover shall be color coded GREEN in addition to having a clear permanent legend that identifies the gas type. Dual gas specific safety pins shall be integrated in the face of the outlet "*Latch Plate*" for safety.

Outlet adapter types shall be easily changed by simply removing the "*Latch plate*" specifically designed for brand "A" to brand "B" without any further plumbing changes.

As with all medical gas outlets specified herein, all outlets shall be hydrostatically tested and cleaned for oxygen service. All medical gas outlets specified herein shall be UL (Underwriters Laboratory) listed and CSA approved. All outlets will be subject to a line pressure of 50 PSI and shall be leak tested at 150 PSI Per Federal specification KKK-A-1822. Pressure drop across the outlet shall be less than 2.0 PSI At normal working pressure.

Vendor Complies? **Yes** **No**

OXYGEN OUTLET No 1: This outlet latch shall be designed to accept (Ohio) style, quarter turn / quick release adapters. This Oxygen outlet shall be provided where specified below.

Oxygen Outlet No 2: Amico Console - Ohmeda/Ohio Diamond Style
LOCATION: Curbside Action Area

OXYGEN OUTLET No 2: This outlet latch shall be designed to accept (Ohio) style, quarter turn / quick release adapters. This Oxygen outlet shall be provided where specified below.

Oxygen Outlet No 3: Amico Console - Ohmeda/Ohio Diamond Style

LOCATION: The Oxygen outlet shall be located in the primary action area switch and outlet console.

OXYGEN OUTLET No 3: This outlet latch shall be designed to accept (Ohio) style, quarter turn / quick release adapters. This Oxygen outlet shall be provided where specified below.

Oxygen Outlet No 4: Amico Console - Ohio Diamond Style

LOCATION: Center Pad of Liner Panel, Over Head/Chest

OXYGEN, AIR and VACUUM SYSTEMS

OXYGEN HOSES: All oxygen system service hoses, fittings and devices shall be made of nonferrous materials. Hoses used to pipe Medical Oxygen shall be electrically non-conductive, ¼ inside diameter with an abrasion resistant, green colored outer jacket. The hose manufacturer's name, part number, inside dimension and working pressure rating shall be permanently marked along the entire length of the hose. All hoses shall have a working pressure rating of at least 250 pounds per square inch, withstand a system test pressure of 150 PSI / 1033 kPa test prescribed in current Federal specification KKK-A-1822. Each ambulance shall be tested.

Vendor Complies? ___ Yes ___ No

PORTABLE CYLINDER BRACKET No 1: A CCP or an approved, certified equal with the following minimum features and quality level shall be installed in the location specified below. This universal, adjustable portable cylinder rack shall be supplied and installed to accommodate one cylinder. The bottle rack shall accommodate either D-size, Jumbo D-size or E-size cylinders made of steel OR aluminum. The entire rack shall be constructed of heavy gauge stainless steel and aluminum alloy. The rack design shall include a stainless steel cylinder neck restraint that does not interfere with oxygen regulator controls. A heavy duty nylon strap and metal buckle shall keep the cylinder into the rack. The rack shall be through bolted to reinforced, structural members or brackets that tie in directly to the body of the ambulance.

Vendor Complies? ___ Yes ___ No

PORTABLE CYLINDER BRACKET No 2: A second CCP portable oxygen cylinder rack shall be supplied and installed in the location specified below.

Vendor Complies? ___ Yes ___ No

CYLINDER TYPE: This rack shall be for a MEDICAL OXYGEN cylinder. The oxygen system input hose shall be suspended over this rack. This input hose shall feature a nonferrous 9/16-18 RH bottle nut and regulator barb. This connection shall comply with the diameter index safety system (DISS) set forth by the Compressed Gas Association (CGA) for safety.

Vendor Complies? ___ Yes ___ No

CYLINDER TYPE: This rack shall be for a MEDICAL OXYGEN cylinder. The oxygen system input hose shall be suspended over this rack. This input hose shall

feature a nonferrous 9/16-18 RH bottle nut and regulator barb. This connection shall comply with the diameter index safety system (DISS) set forth by the Compressed Gas Association (CGA) for safety.

Vendor Complies? **Yes** **No**

CYLINDER RACK LOCATION: The main oxygen cylinder shall be stored in the left front compartment. The cylinder rack shall be through bolted on the back wall, near the right hand wall of the compartment. The cylinder neck shall be visible and accessible through the viewing window.

Vendor Complies? **Yes** **No**

CYLINDER RACK LOCATION: The main oxygen cylinder shall be stored in the left front compartment. The cylinder rack shall be through bolted to the back wall and near the left wall. The cylinder neck shall be visible and accessible through the viewing window.

Vendor Complies? **Yes** **No**

MAIN CYLINDER RESTRAINT No 1: One manufacturer supplied M-size compressed, medical gas cylinder shall be carried and secured, vertically inside the left front exterior compartment. Cylinder rack shall be through bolted to the back wall. A rust free cylinder rack with (2) heavy duty pull style, web straps with quick spring loaded release shall be type tested to AMD Test 003 Oxygen Tank Retention system Test. The cylinder valve shall also be visible and accessible from the inside through a clear polycarbonate door.

Vendor Complies? **Yes** **No**

MAIN CYLINDER RESTRAINT No 2: One user supplied M-size high pressure cylinder shall be carried and secured, vertically inside the left front exterior compartment. A rust free cylinder rack with (2) heavy duty pull style, web straps with quick spring loaded release shall be type tested to AMD Test 003 Oxygen Tank Retention system Test. The cylinder valve shall also be visible and accessible from the inside through a clear polycarbonate door.

Vendor Complies? **Yes** **No**

FLOW METER: One flow meter shall be supplied with Ohio style quarter turn to release adapters.

Vendor Complies? **Yes** **No**

Cylinder Wrench: There shall be a cast aluminum main oxygen cylinder wrench installed in the compartment with the main oxygen cylinder rack. The wrench shall include a cable lanyard that secures the wrench to the compartment wall allowing

enough length of cable to loosen and tighten the regulator fitting on the customer installed main oxygen cylinder. The wrench shall be stored in place with either a hat channel bracket or Velcro to keep it secured while the vehicle is in motion.

Vendor Complies? **Yes** **No**

COLLECTION JAR: The suction system shall be equipped with a shatter proof, graduated, 1200cc, transparent collection container. The container shall be regulated through the Sscor panel and secured in a "boxed in" padded shelf.

Vendor Complies? **Yes** **No**

COLLECTION JAR PLUMBING: The collection jar shall be connected directly to the regulator panel in the action area console.

Vendor Complies? **Yes** **No**

SUCTION PUMP: The suction pump shall be installed in the left middle compartment, adjacent to the action area panel. The exhaust tube shall be routed to the outside of the vehicle. The pump shall be mounted on rubber vibration isolators to minimize any vibration noise emitted into the patient cabin. The pump shall provide a free air flow of at least 20 liters per minute and achieve a minimum of (11.81 in) Hg vacuum within four seconds after the suction tube is closed. This 49-state pump shall meet or exceed current Federal specification KKK-A-1822.

Vendor Complies? **Yes** **No**

SUCTION PUMP LOCATION: The suction pump shall be installed in the left front middle compartment. The pump shall be mounted to the ceiling of this compartment on rubber vibration isolators.

Vendor Complies? **Yes** **No**

VACUUM (SUCTION) PANEL: A variable vacuum regulator and gauge panel shall be installed in the action area control panel. The vacuum regulator shall vary vacuum delivered to a 1200 cubic-centimeter collection jar specified below. The Vacuum gauge shall not be mounted on the collection jar itself.

Vendor Complies? **Yes** **No**

RESTRAINT SYSTEM(S): The Seat Belt System(s) shall be in the following locations:

(2) on Squad Bench, (1) CPR Side Seat

RESTRAINT SYSTEM(S): The rear seating locations shall consist of the P-6 6-Point restraint system. The P-6 Advanced Restraint System is a "Vehicle mounted" 6-Point restraint system dispersing loads to 6 points of reinforced structure within the vehicle as opposed to concentrating loads on the seat frame. It promotes a seated position with a wide range of mobility. The seated position, in conjunction

with the seat system, has been proven to be safer than isolated standing positions in a moving vehicle. As well it is easy to use encouraging greater use in the field than more cumbersome systems involving additional latches, levers, and cables. There shall be two P-6 restraints on the Squad Bench and one P-6 restraints on the CPR Side Seat.

Vendor Complies? **Yes** **No**

SECONDARY PATIENT RESTRAINT SYSTEM: There shall be a location for a secondary patient on top of the squad bench located on the curbside interior of the patient area of the ambulance. To secure the patient there shall be three inertia style retractable straps that match up to three 9" sleeved buckles on the face of the squad bench and 5" sleeved retractors by the squad bench lid hinge. The straps and buckles shall be mounted to comply with the pull test requirements in the present revision of KKK-A-1822.

Vendor Complies? **Yes** **No**

CURBSIDE LOWER DOOR PANEL: The inside door panels shall be made of .090 aluminum sheet and covered in color keyed mica. The edges of the plate shall be recessed into the door frame extrusion. The panels shall be fastened to the door frame with stainless steel, #10-32 UNF machine screws threaded into aircraft quality blind fasteners. Each screw shall have a neoprene lock washer.

Vendor Complies? **Yes** **No**

ENTRY DOOR PANELS / WINDOWS / HARDWARE

DOOR PANELS: The inside door panels shall be made of .090 aluminum sheet and covered in color keyed mica. The center panel shall be removable for easy lock service/lubrication. The edges of the door panel shall be recessed into the door frame extrusion. Exposed, raw, sheared, unfinished sheet-metal edges are not acceptable. The panels shall be fastened to the door frame with stainless steel, #10-32 UNF machine screws threaded into aircraft quality blind fasteners. Fasteners tapped into the aluminum framework is not acceptable. Each screw shall have an internal tooth lock washer to preclude loosening.

Vendor Complies? **Yes** **No**

WALK THROUGH DOOR: The walk through door specified here in shall comply with current Federal specification KKK-A-1822. The door will slide on parallel extruded aluminum tracks, behind the passenger's seat in the cab. The door shall be fastened to a glide plate featuring nylon wheels specifically designed for the track. An upper and lower track is required. The door substrate shall be (3/4") laminated with color matching laminate. The door shall be fitted with a sliding polycarbonate window assembly with a minimum see through area of 150 square inches. An adjustable tension, brass bodied CATCH will hold the door OPEN and

a slam action LATCH to hold the door closed. The latch shall be installed on the cab side of the door.

Vendor Complies? **Yes** **No**

FIRE EXTINGUISHER: One (5) five pound A-B-C type fire extinguisher shall be installed in customer specified location.

Vendor Complies? **Yes** **No**

PLASTIC VENTILATED COMPARTMENT TILE: A plastic color keyed, ventilated tile shall be installed on all compartment floors and shelves. The tile is to be designed to keep equipment off the floor or shelf to promote drying of wet equipment.

Vendor Complies? **Yes** **No**

I. V. BAG HANGING HARDWARE, No 1: One self-contained recessed I. V. Hook assembly shall be installed in the ceiling. The I. V. Hook assembly shall fold and stow recessed in a cast aluminum housing. The hooks are to be spiral shaped to preclude I. V. Bag from falling off with push button release for each fluid bag. The I. V. Hook assembly shall hold (2) two bags of fluid. A rubber with Velcro anti-sway device shall be included for IV retention, without depending on adjacent cabinetry. Located of the Primary patient, in the close proximity to the Head/Cest area of the patient.

Vendor Complies? **Yes** **No**

I. V. BAG HANGING HARDWARE, No 2: One self-contained recessed I. V. Hook assembly shall be installed in the ceiling. The I. V. Hook assembly shall fold and stow recessed in a cast aluminum housing. The hooks are to be spiral shaped to preclude I. V. Bag from falling off with push button release for each fluid bag. The I. V. Hook assembly shall hold (2) two bags of fluid. A rubber with Velcro anti-sway device shall be included for I. V. retention, without depending on adjacent cabinetry. Located of the Secondary patient, in the close proximity of the Head/Chest area of the patient.

Vendor Complies? **Yes** **No**

ASSIST RAIL: This rail shall be naturally accessible to assist persons entering the rear of the module in maintaining their balance. The rail shall be 1 ¼ diameter, 100% stainless steel with Yellow anti-microbial coating and 18” long. All rail fittings shall be TIG welded to the main rail. The rail shall be located prior to order confirmation. Grab rails that utilize separate, setscrew rail fittings are not reliable and not acceptable.

Vendor Complies? **Yes** **No**

CURB SIDE OVER HEAD ASSIST RAIL: This rail shall be naturally accessible to assist working attendants in maintaining their balance. The rail shall exceed federal specification KKK-A-1822 3.15.2C. The rail shall be 1 ¼ diameter, 100% stainless steel and 72 inches long. All rail fittings shall be TIG welded to the main rail. The rail shall be located over the squad bench. Grab rails that utilize separate, setscrew rail fittings are not reliable and not acceptable.

Vendor Complies? Yes No

STREET SIDE OVER HEAD ASSIST RAIL: This rail shall be naturally accessible to assist working attendants in maintaining their balance. The rail shall exceed federal specification KKK-A-1822 3.15.2C. The rail shall be 1 ¼ diameter, 100% stainless steel and 72 inches long. All rail fittings shall be TIG welded to the main rail. The rail shall be located over the primary patient. Grab rails that utilize separate, set screw rail fittings are not reliable and not acceptable.

Vendor Complies? Yes No

REAR ENTRY DOOR WINDOWS: The rear entry doors shall have an automotive style window. The window will be recessed in a factory stamped opening. The windows will be near flush. They will be in a fixed position. Each window will have a nominal area of 320 square inches. All glass shall be tinted safety glass.

Vendor Complies? Yes No

SIDE ENTRY DOOR WINDOW: The curb side (Right) entry door shall be equipped with an automotive style window. The window will be recessed in a factory stamped opening. The window will be near flush. Window will fold out at bottom for ventilation. All glass shall be tinted safety glass.

Vendor Complies? Yes No

REAR AC CONTROL / THERMOSTAT: The air conditioning and heat for the patient cabin shall be controlled by a thermostatically sensitive panel located in the action area console. The panel shall feature a three speed fan control switch, a system "heat-off-cool" switch and a variable temperature control. LED lights shall indicate "cool" and "heat" modes. A digital display shall indicate the patient cabin temperature.

Vendor Complies? Yes No

LOCATION: The light shall be mounted to the action area.

ACTION AREA LIGHTING: A 12 volt LED light shall be provided directly over the forward, street side work surface. A 12 inch swivel fixture shall be provided. The light shall have an on/off rocker switch on the body of the light housing.

Vendor Complies? Yes No

UPHOLSTERY MATERIALS: All padding and upholstered seating shall be covered in 36 ounce vacuum form ready vinyl. Sewn seams in the seat covers and cushions shall be minimized. Upon request, the manufacturer shall be capable of supplying vacuum formed, seamless vinyl covered upholstery. The color shall be color keyed to the laminate color selections made.

Vendor Complies? **Yes** **No**

SEAT / BACKREST CORE MATERIAL: The vinyl covered foam shall meet current Federal Specification KKK-A-1822. Seat cushions shall be ergonomically contoured. All core material shall be open cell, high resilience foam.

Vendor Complies? **Yes** **No**

UPHOLSTERY COLOR: All padding and upholstered seating shall be covered in 36 ounce vacuum form ready vinyl per the aforementioned specification. The color of the vinyl shall be Light Gray. A sample of the actual color shall be submitted with the bid for approval.

Vendor Complies? **Yes** **No**

TROUGH COVER: All upholstered pad that is built to cover the trough running down the center line of the vehicle separating the curbside and street side of the patient compartment shall be manufactured of 1/4" luan non voided plywood with padding and covered with 36 ounce vinyl. The color of the vinyl shall be the same as the remainder of the upholstery in the patient area. The cover shall be fastened to the headliner using stainless steel screws with washers that will accept button covers that are color matched to the trough cover.

Vendor Complies? **Yes** **No**

UPHOLSTERY JOINERY TYPE: All padding and upholstered seating shall feature upholstery covered foam that eliminates sewn, visible seams. All cushion corners shall be vinyl wrapped. NO sewn seams are permitted, even at the corners. Seat cushion vinyl shall be pre-formed to the cushion shape to eliminate ALL visible seams. Seat cushions with welting/piping and sewn corner seams are not acceptable since blood and other liquid form biological discharge can penetrate the seam holes and reside in the foam. All vinyl surfaces shall be pulled tight against the foam, utilizing a hardwood plywood backing board. Loose fitting vinyl coverings are not acceptable.

Vendor Complies? **Yes** **No**

ATTENDANT SEAT: There shall be a high back captain's seat mounted in the patient area. The seat shall have an integrated child safety seat with a pull down backrest and concealed 4-point child restraint. The seat shall be mounted per the

requirements in the latest revision of KKK-A-1822. The seatbelt on the main part of the seat shall be an integrated, 4-point that is supplied and tested by the seat manufacturer as a complete package. The color of the seat shall be Dove.

Vendor Complies? **Yes** **No**

ARM RESTS: The aforementioned captains' chair attendant seat shall have an arm rest for both arms of the seated attendant. The arm rests shall swivel upward to facilitate easy egress.

Vendor Complies? **Yes** **No**

HEAD PROTECTION - CURB SIDE ACCESS DOOR: A seamless pad specifically designed to protect the head during egress is required. The pad shall consist of a two inch thick foam sheet over a hardwood plywood backing board and covered in seamless vinyl upholstery.

Vendor Complies? **Yes** **No**

HEAD PROTECTION - REAR ACCESS DOORS: A seamless pad specifically designed to protect the head during egress is required and shall comply with current Federal Specification KKK-A-1822. The pad shall consist of a two inch thick foam sheet over a hardwood plywood backing board and covered in seamless vinyl upholstery.

Vendor Complies? **Yes** **No**

PAINT

Paint and graphics should match existing units in the fleet.

100% PAINT FILM COVERAGE: All stages of primer and paint shall cover all surfaces. Hinge mating surfaces on the doors and jambs shall be painted. Bare aluminum and primer only preparation is not acceptable under door hinges. Doors shall be painted without actuation handles installed and doors removed from body. Paint film thickness to be no less than 4.1 mil thickness.

Vendor Complies? **Yes** **No**

PAINT SYSTEM TYPE: The paint shall be Poly-Urethane type electrostatic application process without exception.

An electrostatic paint spray system is a highly efficient technology for the application of paint to specific work pieces. Negatively charged atomized paint particles and a grounded work piece create an electrostatic field that draws the paint particle to the work piece, minimizing over spray.

For this technology, an ionizing electrode, typically located at the paint gun atomizer tip, causes paint particles to pick up additional electrons and become negatively charged. As the coating is deposited on the work piece, the charge dissipates through the ground and returns to the power supply, completing the

circuit. The electrostatic field influences the path of the paint particles. Because the charged particles are attracted to the grounded work piece, over spray is significantly reduced. Paint particles that pass a work piece can be attracted to and deposited on the back of the piece. This phenomenon is known as "wrap."

Vendor Complies? **Yes** **No**

MECHANICAL ADHESION PROMOTER: The entire module shall be degreased. Degreaser shall be applied to manufacturer's recommendations. The module body is to be inspected for flaws and imperfections, and to assure built to order specifications. All surfaces shall be initial sanded with 180 grit paper and all imperfections repaired.

Vendor Complies? **Yes** **No**

CHEMICAL ADHESION PROMOTER: The module shall be hot-water washed at (140 degrees or greater). Then the aluminum Body shall be treated with Alumiprep 33 acid etching followed by a complete De-ionized body rinse. To ensure all surfaces are cleaned, this step shall be repeated a second time. The entire unit shall be wet coated with Alodine 5700 conversion coating and de ionized water mixed. The module body is baked at 160 degrees to dry.

Vendor Complies? **Yes** **No**

PRIMER: The module shall then have 2 coats of epoxy primer. The unit is then baked at 140 degree metal temperature for one hour. The module body will then undergo any bodywork or filler that is required at transition(s). A third coat of epoxy primer is applied and cured. The module body will then be final sanded prior to Paint color application. Primer shall be sanded with 320 grit paper to assure flat, orange peel free surface.

Vendor Complies? **Yes** **No**

TOP COAT (PAINT): Entire module shall be degreased. Degreaser shall be applied to manufactures recommendations. Two coats of BTLV High Solids color shall be applied.

Vendor Complies? **Yes** **No**

CLEAR COAT: The clear coat shall be manufactured by the same company as the primer and base coat. Two coats of "clear coat" polyurethane shall be applied per the manufacturer's instructions.

Vendor Complies? **Yes** **No**

3M POLISHING SYSTEM: Prior to 100% paint cure, the paint on the ambulance body shall be sanded to 1200 grit and polished flat per 3Ms Perfect-It product program for smooth finish.

Vendor Complies? **Yes** **No**

CORROSION: Anti-electrolysis procedures include, but are not limited to the following.

- 1) Ensure all bare substrate is dry and free from contamination.
- 2) If bare substrate is showing signs of corrosion/oxidation, sand and remove. Use 180 grit until area is removed.
- 3) Thoroughly blow off areas to remove sand dust and metal shavings.
- 4) Thoroughly degrease to be pre-primed using the wipe-on, wipe-off method with clean white rags. (Use good quality automotive Degreaser)
- 5) Apply Wash primer CR using a brush to all mated surfaces. Allow to flash for 15 minutes at 70 deg Fah. Mix wash primer CR 1:1 with wash-hardener.
- 6) Apply Urethane caulk to all mated surfaces before assembly to reduce the possibility of corrosion.

Vendor Complies? **Yes** **No**

EXTERIOR FASTENERS: All screw sites require a replaceable nylon insert for the fastener to thread into. This will isolate the dissimilar metals. Each hole shall be treated with an Electrolysis Corrosion Control compound prior to installation of the nylon inserts. All exterior screws shall be stainless steel.

Vendor Complies? **Yes** **No**

PAINT WARRANTY: The conversion paint shall be warranted to the original owner for a period of 7 years, 70,000 miles. The color shift shall be no greater than Delta E of 4.0 with minimum gloss retention of 60 gloss units at twenty-degree angle. Warranty to include a 36 month Corrosion coverage with no exclusions.

Vendor Complies? **Yes** **No**

REFLECTIVE TAPE: The module door frames shall have a three quarter inch (3/4") wide white reflective tape applied to the door frame interior. The tape shall illuminate the outline shape of the door when the door is opened.

Vendor Complies? **Yes** **No**

MAIN BODY COLOR: The main body color shall be oxford white (Ford YZ). The paint finish shall be laid onto the body in a flat, orange peel free, mirror like shine on all four sides.

Vendor Complies? **Yes** **No**

Lettering: To Match Last Unit

Vendor Complies? **Yes** **No**

DRIP RAILS: A bright drip rail shall be provided over each compartment. Full height compartments are exempt because the perimeter roof rail drip rails will cover these compartments.

Vendor Complies? **Yes** **No**

ROOF PAINT; Color match to sides, top finish to exceed industry standard of 5 plus mill thickness. Glossy.

Vendor Complies? **Yes** **No**

UNDERCOATING; the bottoms side of the module shall be undercoated, with an exception to any area affected by exhaust system direct heat. Application standards for the undercoating shall be achieved or exceeded as directed by QVM or governing standards.

Vendor Complies? **Yes** **No**

OWNER'S MANUAL; There shall be shipped loose with each completed unit a DVD data file with pertinent information from the build of the vehicle.

Vendor Complies? **Yes** **No**

AMBULANCE MARKING PACKAGE: The vehicle shall be supplied with a lettering and "star of life" symbol decal package as described in current Federal specification KKK-A-1822. The "star of life" symbols shall meet Figure 4 required by KKK-A-1822.

Vendor Complies? **Yes** **No**

SAFETY PLACARDS; There shall be installed in the chassis cab and patient area descriptive placards in durable materials to remind occupants to fasten seatbelts and to refrain from smoking.

Vendor Complies? **Yes** **No**

REFLECTOR PACKAGE: Six reflectors shall be supplied on the outside of the module body. The reflectors shall be located at skirt line level and the area size shall be at least 3.75 square inches. Each side shall have one AMBER forward reflector and one RED rearward reflector. The rear of the body shall have one RED reflector, located just above the diamond plate kick plate.

Vendor Complies? **Yes** **No**

OXYGEN REGULATOR: A fixed output medical regulator shall be supplied with the apparatus. The output shall be fixed via a single chamber pressure setting

which can produce a 50 psi +/- 5psi at 7.25 LPM. The output of the regulator may vary as the tank pressure lowers or flow rate is changed. The regulator shall have a CGA 540 thread for the bottle and a 9/16- 18 tip threaded male connector for the input hose to the system.

Vendor Complies? **Yes** **No**

AMBULANCE MARKING PACKAGE - ROOF STAR: A 32" roof star shall be included as a part of the lettering and "star of life" symbol decal package (as described in the current Federal specification KKK-A-1822).

Vendor Complies? **Yes** **No**

OUTLET LOCATION: 12 Volt outlet shall be located in the patient cabin, Action Area panel.

Vendor Complies? **Yes** **No**

ADDITIONAL 12 VOLT OUTLETS: Three (3) additional 12 Volt outlets should be in the front cab passenger side at the bottom of the console.

Vendor Complies? **Yes** **No**

DRINK HOLDERS; there shall be installed in the additional console, drink holders for cup type beverages of the BIG GULP size.

Vendor Complies? **Yes** **No**

Console, radio, add-on, in cab,

CONSOLE EXTENSION; There shall be an extended portion of the console developed to allow for customer radios and a double notebook slot.

Vendor Complies? **Yes** **No**

Glove Storage: (4) Glove Box Storage across Rear

GLOVE STORAGE: There shall be glove storage at the rear of the add on console as part of the add on console. It shall be designed to hold (4) four boxes of gloves standing on end for easy access.

Vendor Complies? **Yes** **No**

GLOVE STORAGE: There shall be glove storage at the rear of the add console as part of the add on console. It shall be designed to hold (4) four boxes of gloves standing on end for easy access.

Vendor Complies? **Yes** **No**

LOCATION: The item shall be installed in a designated area as discussed at the pre-construct conference and notated in the shop notes of the production order.

Vendor Complies? **Yes** **No**

Vendor To Cut out for customer installed radio heads:

Radio: Mobile, XG-100M XM-100F-D02

Control Head: Control Unit, CH721, Scan Remote Mount XMCP9E

Vendor Complies? Yes No

Primary cot: Stryker Power Pro

Stretcher Wheel locks

Stretcher Under head caddy

Stretcher IV pole

5.2 DEVIATIONS

The nature of all deviations from the Specifications/Requirements listed herein shall be clearly described by the Vendor. Otherwise, it will be considered that items offered by the Vendor are in strict compliance with the Specifications/Requirements, and the successful Vendor shall be held responsible to supply conforming goods. Deviations shall be explained in detail below or on an attached sheet. **No implication is made or intended by the County that any deviation will be acceptable.**

ATTACHMENT A: PRICING FORM

FURNISH AND DELIVER:

ITEM #	QTY.	UOM	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
1.		Ea	Ambulance and Equipment in accordance with Invitation for Bid issued January 25, 2017	\$ _____	\$ _____
			TOTAL EXTENDED PRICE		\$ _____

Manufacturer: _____

Model Year: _____

Delivery Date from date of Purchase Order: _____

Cab and Chassis Warranty: _____

Body Warranty: _____

No Price Adjustments Allowed.

ATTACHMENT B: INSTRUCTIONS TO VENDORS

1. **READ, REVIEW AND COMPLY:** It shall be the Vendor's responsibility to read this entire document, review all enclosures and attachments, and any addenda thereto, and comply with all requirements specified herein, regardless of whether appearing in these Instructions to Vendors or elsewhere in this IFB document.
2. **LATE BIDS:** Late bids, regardless of cause, will not be opened or considered, and will automatically be disqualified from further consideration. It shall be the Vendor's sole responsibility to ensure delivery at the designated office by the designated time.
3. **ACCEPTANCE AND REJECTION:** The County reserves the right to reject any and all bids, to waive any informality in bid and, unless otherwise specified by the Vendor, to accept any item in the bid. If either a unit price or an extended price is obviously in error and the other is obviously correct, the incorrect price will be disregarded.
4. **BASIS FOR REJECTION:** The County reserves the right to reject any and all offers, in whole or in part, by deeming the offer unsatisfactory as to quality or quantity, delivery, price or service offered, non-compliance with the requirements or intent of this solicitation, lack of competitiveness, error(s) in specifications or indications that revision would be advantageous to the County, cancellation or other changes in the intended project or any other determination that the proposed requirement is no longer needed, limitation of available funds, circumstances that prevent determination of the best offer, or any other determination that rejection would be in the best interest of the County.
5. **EXECUTION:** Failure to sign the Execution page in the indicated space will render bid non-responsive and it shall be rejected.
6. **ORDER OF PRECEDENCE:** In cases of conflict between specific provisions in this solicitation or in any resulting contract, the order of precedence shall be (high to low) (1) any special terms and conditions specific to this IFB, including any negotiated terms; (2) requirements and specifications in Sections 5 of this IFB; (3) Johnston County General Contract Terms and Conditions in ATTACHMENT C: JOHNSTON COUNTY GENERAL CONTRACT TERMS AND CONDITIONS; (4) Instructions in ATTACHMENT B: INSTRUCTIONS TO VENDORS; and (5) Vendor's Bid.
7. **INFORMATION AND DESCRIPTIVE LITERATURE.** Vendor shall furnish all information requested and in the spaces provided in this document. Further, if required elsewhere in this bid, each Vendor shall submit with their bid sketches, descriptive literature and/or complete specifications covering the products offered. Reference to literature submitted with a previous bid or available elsewhere will not satisfy this

provision. Bids that do not comply with these requirements shall constitute sufficient grounds to reject the bid.

- 8. CONFIDENTIAL INFORMATION:** To the extent permitted by applicable statutes and rules, the County will maintain confidential trade secrets that the Vendor does not wish disclosed. As a condition to confidential treatment, each page containing trade secret information shall be identified in boldface at the top and bottom as “CONFIDENTIAL” by the Vendor, with specific trade secret information enclosed in boxes or similar indication. Cost information shall not be deemed confidential under any circumstances. Regardless of what a Vendor may label as trade secret, the determination whether it is or is not entitled to protection will be determined in accordance with N.C.G.S. 132-1.2. Any material labeled as confidential constitutes a representation by the Vendor that it has made a reasonable effort in good faith to determine that such material is, in fact, a trade secret under N.C.G.S. 132.1.2. Vendors are urged and cautioned to limit the marking of information as a trade secret or as confidential so far as is possible.
- 9. MISCELLANEOUS:** Masculine pronouns shall be read to include feminine pronouns, and the singular of any word or phrase shall be read to include the plural and vice versa.
- 10. WITHDRAWAL OF BID:** A bid may be withdrawn only in writing and actually received by the purchasing agent prior to the time for the opening of bids identified on the cover page of this IFB (or such later date included in an Addendum to the IFB). A withdrawal request shall be on Vendor’s letterhead and signed by an official of the Vendor authorized to make such a request. Any withdrawal request made after the opening of bids shall be allowed only for good cause shown and in the sole discretion of the Johnston County Finance Officer.
- 11. INFORMAL COMMENTS:** The County shall not be bound by information explanations, instruction or information given at any time by anyone on behalf of the County during the competitive process or after award. The County is only bound by information provided in this IFB and in formal Addenda issued through Johnston County Finance Office.
- 12. COST FOR BID PREPARATION:** Any costs incurred by Vendor in preparing or submitting bids are the Vendor’s sole responsibility. Johnston County will not reimburse any Vendor for any costs incurred prior to award.
- 13. VENDOR’S REPRESENTATIVE:** Each Vendor shall submit with its bid the name, address, and telephone number of the person(s) with authority to bind the Vendor and answer questions or provide clarification concerning the firm’s bid.

14. INSPECTION AT VENDOR'S SITE: The County reserves the right to inspect the equipment, plant, store or other facilities of a Bidder prior to Contract award, and during the Contract term from time to time as the County deems necessary to confirm that such equipment, plant, store or other facilities conform with the Specifications and are adequate and suitable for property and effective performance of the Contract. Such inspections shall be conducted during normal business hours and upon at least three (3) days' notice to the Bidder (expect that a store may be inspected at any time during regular store hours without notice).

15. CERTIFICATION OF INDEPENDENT PRICE DETERMINATION: By submission of a Bid, the Bidder certifies, and in the case of a joint Bid each party thereto certifies as to its own organization, that in connection with this procurement:

- A. The prices in the Bid have been arrived at independently, without consultation, communication, or agreement for the purpose of restriction competition, as to any matter relating to such prices with any other bidder or with any competitor;
- B. Unless otherwise required by law, the Bidder has not knowingly disclosed the prices that have been quoted in this bid directly or indirectly to any other Bidder or to any competitor prior to the opening of the bid; and
- C. No attempt has been made or will be made by the Bidder to induce any other person or firm to submit or not submit a Bid for the purpose of restricting competition.

16. INSURANCE: All Bidders must indicate compliance with the Insurance requirements stated in Attachment D the Johnston County General Contract Terms and Conditions.

ATTACHMENT C: JOHNSTON COUNTY GENERAL CONTRACT TERMS AND CONDITIONS

1. **DEFAULT AND PERFORMANCE BOND:** If, through any cause, Vendor shall fail to fulfill in timely and proper manner the obligations under this contract, the County shall have the right to terminate this contract by giving written notice to the Vendor and specifying the effective date thereof. In that event, all finished or unfinished deliverable items under this contract prepared by the Vendor shall, at the option of the County, become its property, and the Vendor shall be entitled to receive just and equitable compensation for any acceptable work completed on such materials. Notwithstanding, Vendor shall not be relieved of liability to the County for damages sustained by the County by virtue of any breach of this contract, and the County may withhold any payment due the Vendor for the purpose of setoff until such time as the exact amount of damages due the County from such breach can be determined. The County reserves the right to require at any time a performance bond or other acceptable alternative performance guarantees from a Vendor without expense to the County.

In addition, in the event of default by the Vendor under this contract, or upon the Vendor filing a petition for bankruptcy or the entering of a judgment of bankruptcy by or against the Vendor, the County may immediately cease doing business with the Vendor and immediately terminate this contract for cause.

2. **GOVERNMENTAL RESTRICTIONS:** In the event any Governmental restrictions are imposed which necessitate alteration of the material, quality, workmanship or performance of the items offered prior to their delivery, it shall be the responsibility of the Vendor to notify, in writing, the County Purchasing Agent at once, indicating the specific regulation which required such alterations. The County reserves the right to accept any such alterations, including any price adjustments occasioned thereby, or to cancel the Contract.
3. **AVAILABILITY OF FUNDS:** Any and all payments to the Vendor shall be dependent upon and subject to the availability of funds to the County for the purpose set forth in this contract.
4. **TAXES:** Any applicable taxes shall be invoiced as a separate item.
 - a. G.S. 143-59.1 bars the County from entering into Contracts with Vendors if the Vendor or its affiliates meet one of the conditions of G.S. 105-164.8(b) and refuses to collect use tax on sales of tangible personal property to purchasers in North Carolina. Conditions under G.S. 105-164.8(b) include: (1) Maintenance of a retail establishment or office, (2) Presence of representatives in the State that solicit sales or transact business on behalf of the Vendor and (3) Systematic exploitation of the market by media-assisted, media-facilitated, or media-solicited means. By execution of the bid document the Vendor certifies that it and all of its affiliates, (if it has affiliates), collect(s) the appropriate taxes.

- b. The County is exempt from Federal Taxes, such as excise and transportation. Exemption forms submitted by the Vendor will be executed and returned by the using agency.
 - c. Prices offered are not to include any personal property taxes, nor any sales or use tax (or fees) unless required by the North Carolina Department of Revenue.
5. **SITUS**: The place of this Contract, its situs and forum, shall be Johnston County, North Carolina, where all matters, whether sounding in Contract or tort, relating to its validity, construction, interpretation and enforcement shall be determined.
 6. **GOVERNING LAWS**: This Contract is made under and shall be governed, construed and enforced in accordance with the laws of the State of North Carolina, without regard to its conflict of laws rules.
 7. **PAYMENT TERMS**: Payment terms are Net not later than 30 days after receipt of correct invoice or acceptance of goods, whichever is later.
 8. **CONDITION AND PACKAGING**: Unless otherwise provided by special terms and conditions or specifications, it is understood and agreed that any item offered or shipped has not been sold or used for any purpose and shall be in first class condition. All containers/packaging shall be suitable for handling, storage or shipment.
 9. **STANDARDS**: All manufactured items and/or fabricated assemblies subject to operation under pressure, operation by connection to an electric source, or operation involving a connection to a manufactured, natural, or LP gas source shall be construed and approved in a manner acceptable to the appropriate state inspector which customarily requires the label or re-examination listing or identification marking of the appropriate safety standard organization; such as the American Society of Mechanical Engineers for pressure vessels; the Underwriters Laboratories and/or National Electrical Manufacturers' Association for electrically operated assemblies; or the American Gas Association for gas operated assemblies, where such approvals of listings have been established for the type of device offered and furnished. Further, all items furnished shall meet all requirements of the Occupational Safety and Health Act (OSHA), the U.S. Food and Drug Administration and state and federal requirements relating to clean air and water pollution.
 10. **INTELLECTUAL PROPERTY INDEMNITY**: Vendor shall hold and save the County, its officers, agents and employees, harmless from liability of any kind, including costs and expenses, resulting from infringement of the rights of any third party in any copyrighted material, patented or unpatented invention, articles, device or appliance delivered in connection with this contract.
 11. **TERMINATION FOR CONVENIENCE**: If this contract contemplates deliveries or performance over a period of time, that County may terminate this contract at any time by

providing thirty (30) days' notice in writing from the County to the Vendor. In that event, all finished or unfinished deliverable items prepared by the Vendor under this contract shall, at the option of the County, become its property. If the contract is terminated by the County as provided in this section, the County shall pay for services satisfactorily completed by the Vendor, less any payment or compensation previously made.

12. ADVERTISING: Vendor agrees not to use the existence of this Contract or the name of the County as part of any commercial advertising or marketing of products or services. A Vendor may inquire whether the County is willing to act as a reference by providing factual information directly to other prospective customers.

13. ASSIGNMENT: No assignment of the Vendor's obligations nor the Vendor's right to receive payment hereunder shall be permitted. Upon advance written request, the County may, in its unfettered discretion, approve an assignment to the surviving entity of a merger, acquisition or corporate reorganization, if made as part of the transfer of all or substantially all of the Vendor's assets. Any purported assignment made in violation of this provision shall be void and a material breach of this Contract.

14. INSURANCE:

COVERAGE – During the term of the Contract, the Vendor at its sole cost and expense shall provide commercial insurance of such type and with such terms and limits as may be reasonably associated with the Contract. As a minimum, the Vendor shall provide and maintain the following coverage and limits:

- a. **Worker's Compensation** – The Vendor shall provide and maintain Worker's Compensation Insurance, as required by the laws of North Carolina, as well as employer's liability coverage with minimum limits of \$500,000.00, covering all of Vendor's employees who are engaged in any work under the Contract. If any work is sub-contracted, the Vendor shall require the sub-Contractor to provide the same coverage for any of his employees engaged in any work under the Contract.
- b. **Commercial General Liability** – General Liability Coverage on a Comprehensive Broad Form on an occurrence basis in the minimum amount of \$1,000,000.00 Combined Single Limit. (Defense cost shall be in excess of the limit of liability.)
- c. **Automobile** – Automobile Liability Insurance, to include liability coverage, covering all owned, hired and non-owned vehicles, used in connection with the Contract. The minimum combined single limit shall be \$1,000,000.00 bodily injury and property damage for any vehicle used during the performance of this Contract.

REQUIREMENTS – Providing and maintaining adequate insurance coverage is a material obligation of the Vendor and is of the essence of this Contract. All such insurance shall meet all laws of the State of North Carolina. Such insurance coverage shall be obtained from companies that are authorized to provide such coverage and that are authorized by the Commissioner of Insurance to do business in North Carolina. The

Vendor shall at all times comply with the terms of such insurance policies, and all requirements of the insurer under any such insurance policies, except as they may conflict with existing North Carolina laws of this Contract. The limits of coverage under each insurance policy maintained by the Vendor shall not be interpreted as limiting the Vendor's liability and obligations under the Contract.

15. GENERAL INDEMNITY: The Vendor shall hold and save the County, its officers, agents, and employees, harmless from liability of any kind, including all claims and losses accruing or resulting to any other person, firm, or corporation furnishing or supplying work, services, materials, or supplies in connection with the performance of this Contract, and from any and all claims and losses accruing or resulting to any person, firm or corporation that may be injured or damaged by the Vendor in the performance of this Contract and that are attributable to the negligence or intentionally tortious acts of the Vendor. The Vendor represents and warrants that it shall make no claim of any kind or nature against the County's agents who are involved in the delivery or processing of Vendor goods to the County. The representation and warranty in the preceding sentence shall survive the termination or expiration of this Contract. It is the intent of this section to require Vendor to indemnify County to the fullest extent permitted under North Carolina law.

16. COMPLIANCE WITH LAWS: Vendor shall comply with all laws, ordinances, codes, rules, regulations, and licensing requirements that are applicable to the conduct of its business and its performance in accordance with this contract, including those of federal, state, and local agencies having jurisdiction and/or authority.

17. ENTIRE AGREEMENT: This IFB and any documents incorporated specifically by reference represent the entire agreement between the parties and supersede all prior oral or written statements or agreements. The IFB, any Addenda hereto, and the Vendor's bid are incorporated herein by reference as though set forth verbatim.

All promises, requirements, terms, conditions, provisions, representations, guarantees, and warranties contained herein shall survive the contract expiration or termination date unless specifically provided otherwise herein, or unless superseded by applicable Federal or State statutes of limitation.

18. AMENDMENTS: This contract may be amended only by a written amendment duly executed by the County and the Vendor.

19. WAIVER: The failure to enforce the waiver by the County of any right or an event of breach or default on one occasion or instance shall not constitute the waiver of such right, breach or default on any subsequent occasion or instance.

20. FORCE MAJEURE: Neither party shall be deemed to be in default of its obligations hereunder if and so long as it is prevented from performing such obligations as a result of events beyond its reasonable control, including without limitation, fire, power failures, any act of war, hostile foreign action, nuclear explosion, riot, strikes or failures or refusals to

perform under subcontracts, civil insurrection, earthquake, hurricane, tornado, or other catastrophic natural event or act of God.

21. GOVERNMENTAL IMMUNITY: County and Vendor agree that nothing in this contract shall be construed to mandate purchase of insurance by County pursuant to N.C.G.S. §153A-435; or to in any other way waive County's defense of sovereign or governmental immunity from any cause of action alleged or brought against County for any reason if otherwise available as a matter of law.

22. E-VERIFY: Vendor shall comply with the requirements of Article 2 of Chapter 64 of the North Carolina General Statutes. Further, if Vendor utilizes a subcontractor, Contractor shall require the subcontractor to comply with the requirements of Article 2 of Chapter 64 of the North Carolina General Statutes.

This Space is Intentionally Left Blank

**ATTACHMENT D: CERTIFICATION OF FINANCIAL
CONDITION**

Name of Vendor: _____

The undersigned hereby certifies that: [check all applicable boxes]

- The Vendor is in sound financial condition and, if applicable, has received an unqualified audit opinion for the latest audit of its financial statements.

Date of latest audit: _____

- The Vendor has no outstanding liabilities, including tax and judgment liens, to the Internal Revenue Service or any other government entity.
- The Vendor is current in all amounts due for payments of federal and state taxes and required employment-related contributions and withholdings.
- The Vendor is not the subject of any current litigation or findings of noncompliance under federal or state law.
- The Vendor has not been the subject of any past or current litigation, findings in any past litigation, or findings of noncompliance under federal or state law that may impact in any way its ability to fulfill the requirements of this Contract.
- He or she is authorized to make the foregoing statements on behalf of the Vendor.

Note: This shall constitute a continuing certification and Vendor shall notify the County Purchasing Agent within 15 days of any material change to any of the representations made herein.

If any one or more of the foregoing boxes is NOT checked, Vendor shall explain the reason in the space below:

ATTACHMENT E: IRAN DIVESTMENT ACT
CERTIFICATION

CERTIFICATION OF ELIGIBILITY
Under the Iran Divestment Act

As provided in G.S. 147-86.59, any person identified as engaging in investment activities in Iran, determined by appearing on the Final Divestment List created by the State Treasurer pursuant to G.S. 147-86.58, is ineligible to contract with the State of North Carolina or any political subdivision of the State. The Iran Divestment Act of 2015, G.S. 147-86.55 *et seq.** requires that each Vendor, prior to contracting with the State certify, and the undersigned on behalf of the Vendor does hereby certify, to the following:

1. that the Vendor is not identified on the Final Divestment List of entities that the State Treasurer has determined engages in investment activities in Iran;
2. that the Vendor shall not utilize on any contract with the State agency any subcontractor that is identified on the Final Divestment List; and
3. that the undersigned is authorized by the Vendor to make this Certification.

Vendor: _____

By: _____
Signature Date

Printed Name Title

The State Treasurer's Final Divestment List can be found on the State Treasurer's website at the address <https://www.nctreasurer.com/inside-the-department/OpenGovernment/Pages/Iran-Divestment-Act-Resources.aspx>, which will be updated every 180 days.

- Note: Enacted by Session Law 2015-118 as G.S. 143C-55 *et seq.*, but renumbered for codification at the direction of the Revisor of Statutes.

ATTACHMENT F:
EXECUTION OF BID PAGE

17-IFB-02 - Ambulances and Equipment Bid

Date:

By submitting this proposal, the Vendor certifies the following:

An authorized representative of the firm has signed this proposal.

It can obtain insurance certificates as required within 10 calendar days after notice of award.

The Vendor has determined the cost and availability of all equipment, materials and supplies associated with performing the services outlined herein.

All labor costs, direct and indirect, have been determined and included in the proposed cost.

The Vendor is aware of the prevailing conditions associated with performing this contract.

The Vendor agrees to complete the scope of work for this project with no exceptions.

Therefore, in compliance with the foregoing Invitation for Bids, and subject to all terms and conditions thereof, the undersigned offers and agrees, if this proposal is accepted within (120) days from the date of the opening, to furnish the Products or Services bid for the prices quoted.

Vendor: _____

Mailing Address: _____

City, State, Zip Code: _____

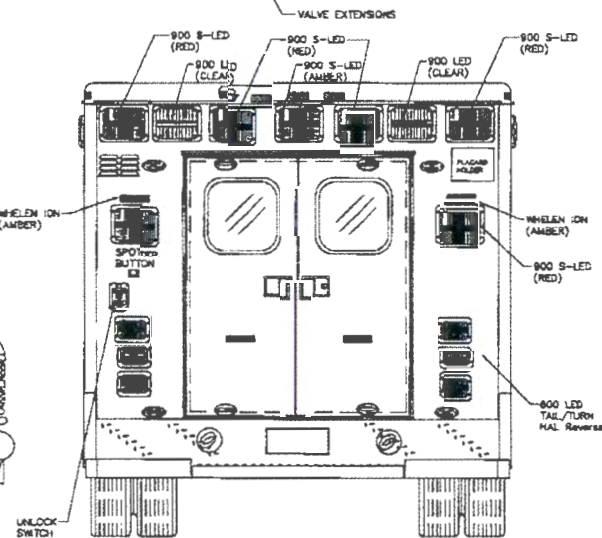
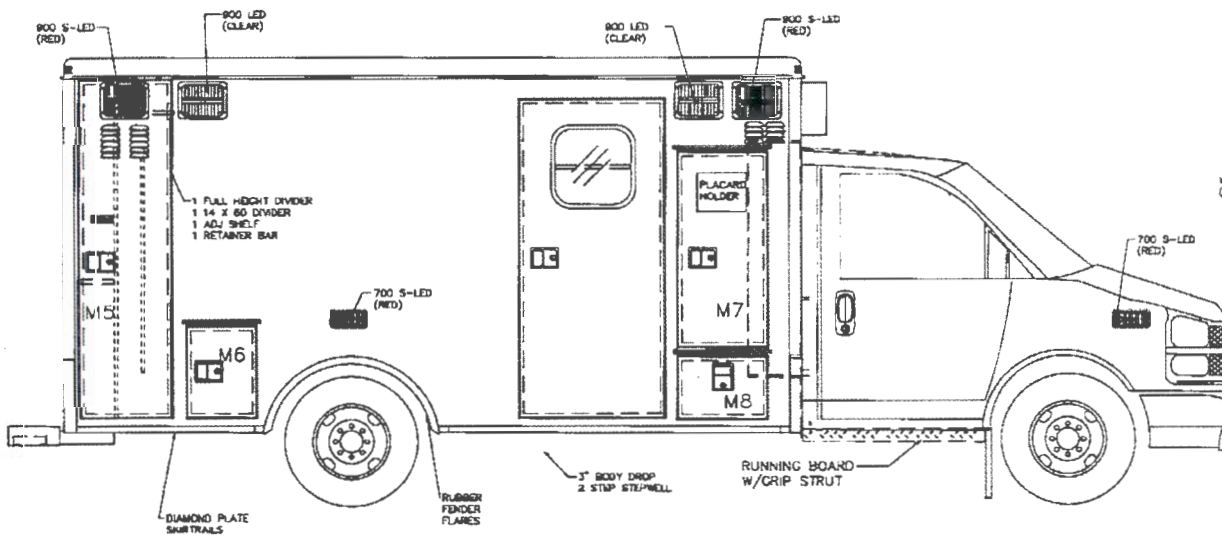
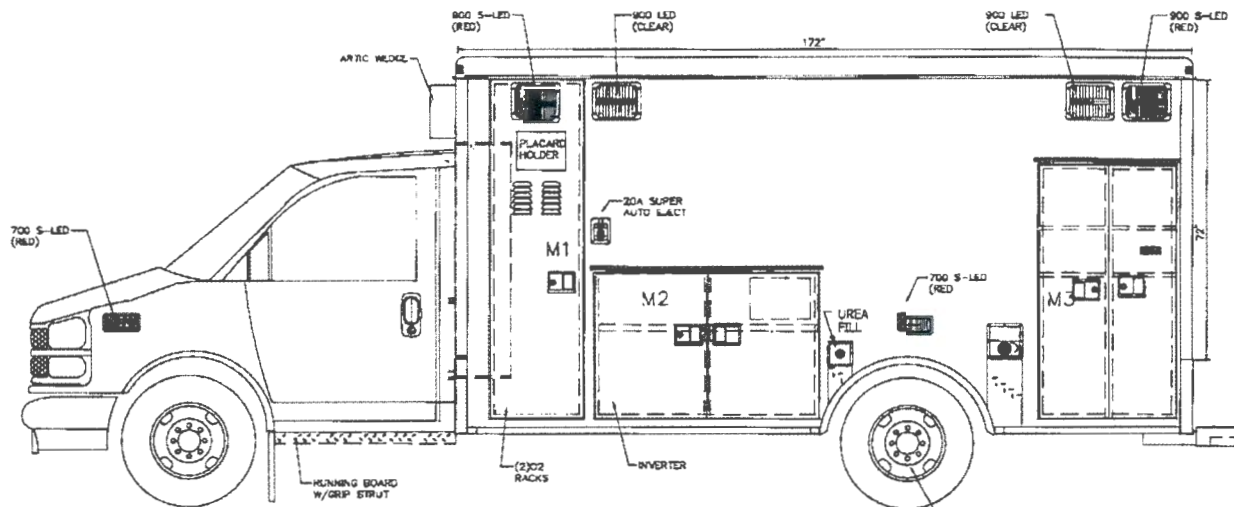
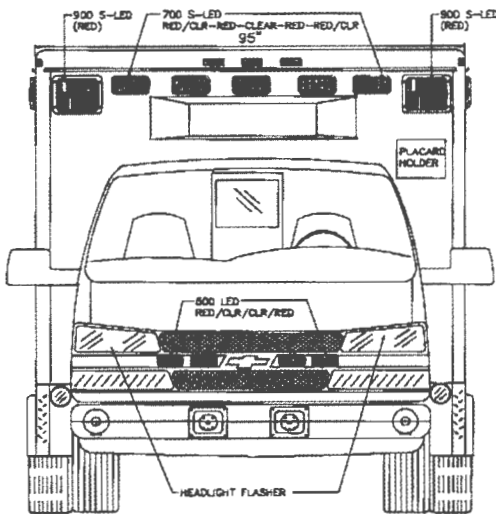
Telephone Number: _____

Principal Place of Business
if different from above _____

By _____ Title: _____
(Type or Print Name)

(Signature)

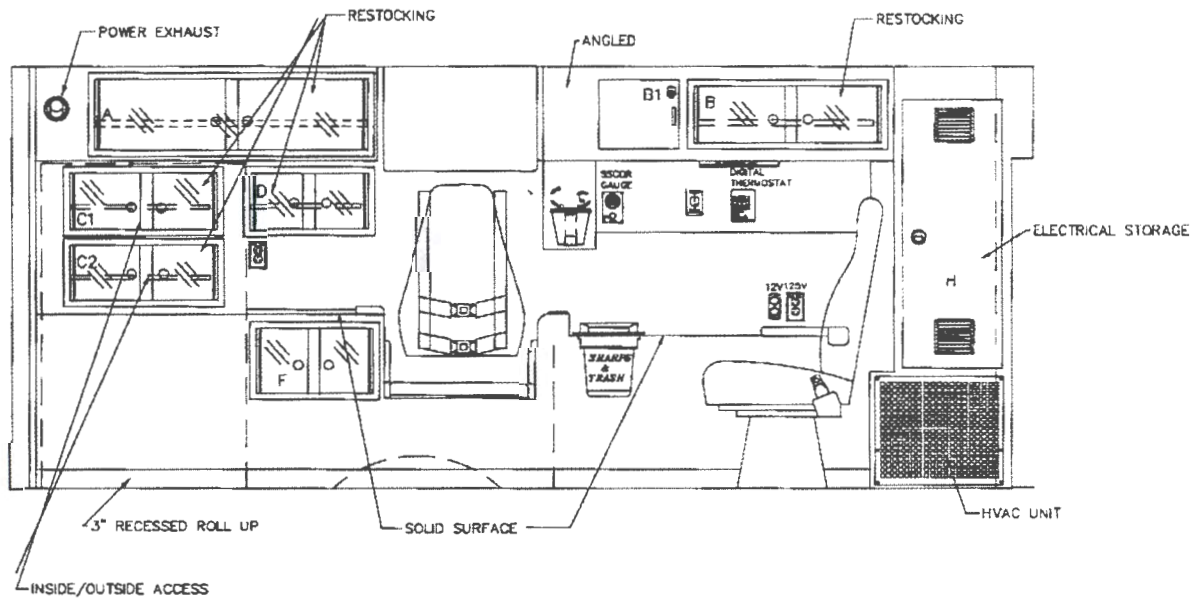
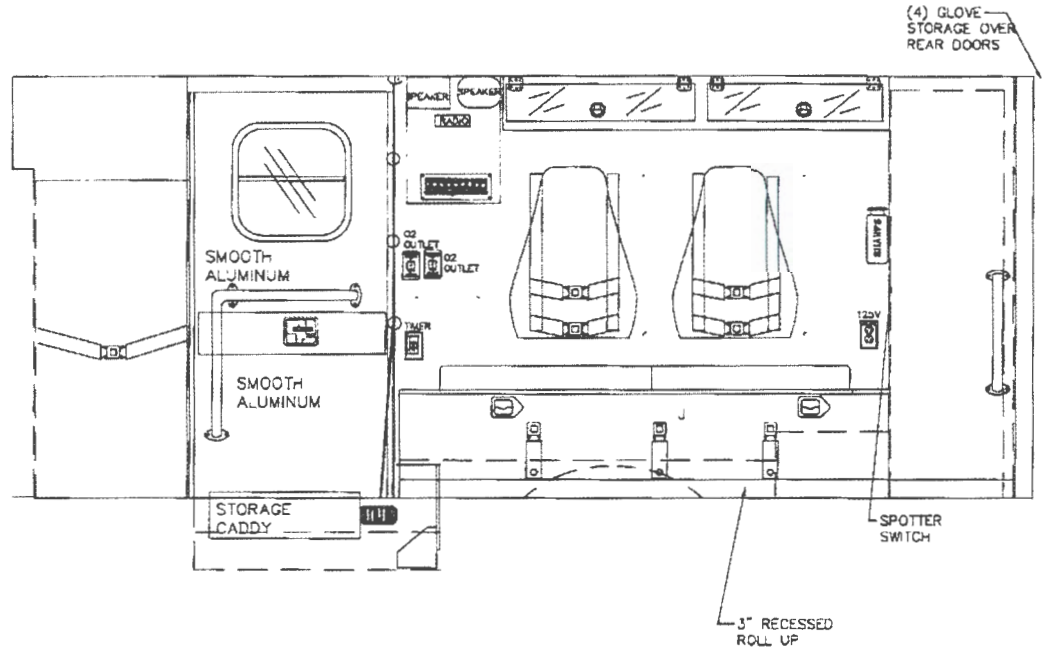
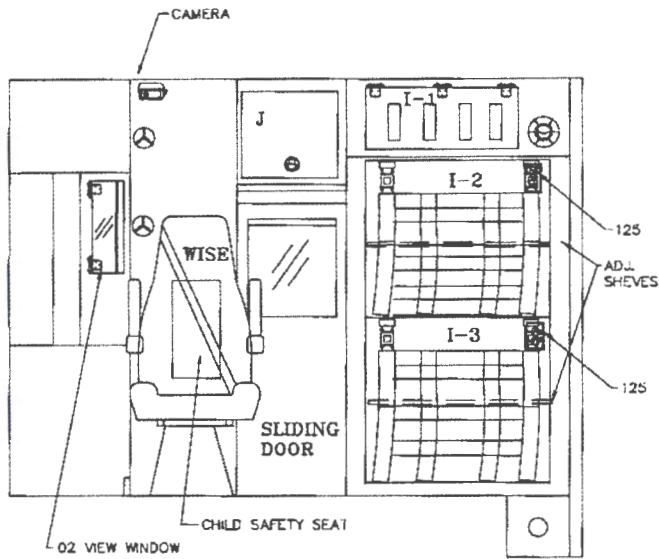
CONCEPTIONAL DRAWINGS ONLY: DRAWINGS ARE NOT TO SCALE, ALL MEASURES ARE APPROXIMATE & SUBJECT TO ENGINEERING CHANGE



Compartment Dimensions			
Cmpt	Height	Width	Depth
M1	79.8"	18.6"	19.4"
M2	31.5"	44.5"	19.4"
M3	58.5"	33.1"	19.4"
M5	79.8"	25.6"	21"
M6	17.2"	13.5"	19.4"
M7	46.6"	25.2"	N/A
M8	12.1"	25.2"	21.4"
C/S Access	76.8"	31"	N/A
Rear Access	60-5/8"	46-3/4"	N/A

TITLE	Type 3, 172", Exterior	JOHNSTON COUNTY
DWG.#	REV.#	
TRUCK#	BY: JBC DATE: 10-18-16	
BODY #		

CONCEPTIONAL DRAWINGS ONLY: DRAWINGS ARE NOT TO SCALE, ALL MEASURES ARE APPROXIMATE & SUBJECT TO ENGINEERING CHANGE



TITLE		JOHNSTON COUNTY
TYPE 3, 172" Interior		
DWG.#	REV.#	
TRUCK#		
BY: JBC DATE 10-18-16		

Exhibit 2





JOHNSTON COUNTY

EMS

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