

**ADVERTISEMENT  
FOR THE USE AND BENEFIT OF  
NESHOPA COUNTY, MISSISSIPPI  
AND THE  
NESHOPA COUNTY AMBULANCE ENTERPRISE**

The NESHOPA COUNTY BOARD OF SUPERVISORS will receive competitive, sealed bids in the Office of the Chancery Clerk of Neshoba County, Mississippi in the Neshoba County Courthouse, 401 Beacon Street, Suite 107, Philadelphia, Mississippi 39350 until 11:00 a.m., on the 19<sup>th</sup> day of June 2017 for the purposes of acquiring the following equipment and lease-purchase financing proposals:

- a. One (1) or more, new 2017 Type III, Class One (4 x 2), Configuration A ambulance(s) for the use and benefit of Neshoba County and on behalf of the Neshoba County Ambulance Enterprise.
- b. Lease Purchase Financing proposals for the acquisition of the above described equipment.

Detailed specifications for the above described equipment and lease-purchase financing terms and bid forms may be obtained from the Neshoba County Board of Supervisors office at the Neshoba County Courthouse, 401 Beacon Street, Suite 201, Philadelphia, Mississippi 39350, by calling 601-656-6281 or by Neshoba County's website at [www.neshobacounty.net](http://www.neshobacounty.net). Neshoba County, Mississippi and/or the Neshoba County Ambulance Enterprise will determine if compliance with the specifications exist before accepting any bid.

**INSTRUCTIONS TO BIDDERS:**

All bids shall be placed on the Neshoba County Bid Form and along with the detailed proposal be placed in a sealed envelope marked "June 2017 Ambulance Bid" along with the date and time of bid opening, and filed with the Neshoba County Board of Supervisors C/O Chancery Clerk Guy Nowell, 401 Beacon Street, Suite 107, Philadelphia, Mississippi 39350. The proposals submitted for the lease-purchase financing of said vehicle(s) must be in compliance with the laws of the State of Mississippi. Neshoba County will not be responsible for opening of bids not properly marked.

It shall be incumbent upon each bidder to understand the specifications as listed herein and to obtain clarification when necessary. It is not the intent of these specifications to limit the bidding to any particular make or manufacturer of equipment or provider of services, but rather to select such emergency equipment or services to provide for specific needs and specific tasks. Any reference to name-brand materials or equipment is intended to establish the minimum necessary standards only and bids submitted on materials and equipment there to, at the sole discretion of Neshoba County, shall be considered.

Bidders may submit bids for the equipment only, the lease-purchasing financing only or both the equipment and lease-purchasing.

Published by Order of the Board of Supervisors of Neshoba County, Mississippi on the 1<sup>st</sup> day of May 2017.

/s/ GUY NOWELL  
GUY NOWELL, CLERK  
BOARD OF SUPERVISORS  
NESHOBIA COUNTY, MISSISSIPPI

Publication dates: 5/17/2017 & 5/24/2017

## INVITATION TO SUBMIT COMPETITIVE BIDS

The Neshoba County Board of Supervisors on behalf of Neshoba County, Mississippi and the Neshoba County Ambulance Enterprise is soliciting competitive, sealed bids from qualified vendors for the purchase of One (1), Type III, Class One (4 x 2), Configuration A ambulance(s) for the use and benefit of Neshoba County, Mississippi and the Neshoba County Ambulance Enterprise. Neshoba County reserves the right to reject any and/or all bids. Neshoba County also reserves the right to accept the bid most advantageous to Neshoba County Ambulance Enterprise.

The attached specification defines 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 (FMVSS), National Truck Equipment Association (NTEA) Ambulance Manufacturer's Division (AMD) standards and Ford Qualified Vehicle Modifier (QVM) Program Truck Guidelines.

This invitation is extended to all qualified vendors/manufacturers that are specifically in the business of building emergency medical vehicles and/or equipment.

For questions or clarifications of the specifications contained herein please contact Dale Joyner, Director, Neshoba County Ambulance Enterprise, at 601-781-2270 or [dale@neshoba-hospital.com](mailto:dale@neshoba-hospital.com).

## SPECIFICATIONS FOR SOLICITATION

### PARTY IDENTIFICATION:

AGENCY: "Agency" is hereinafter defined as the customer. The customer is an individual or a group of individuals whom represent the interest of Neshoba County and the Neshoba County Ambulance Enterprise and has been charged with the responsibility of purchasing one or more emergency medical vehicle(s).

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

BIDDER: "Bidder" is hereinafter defined as the vehicle manufacturer and/or its authorized representative. The bidder is an assigned representative who is authorized to commit to a contract with the "Agency".

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

VENDOR: "Vendor" is synonymous with "Bidder".

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

NOTICE TO BIDDERS: Bidders shall thoroughly examine any drawings, specifications, schedule, instructions and any other documents supplied as part of this invitation to bid.

Bidders shall make all investigations necessary to thoroughly inform themselves regarding the content of the written specifications, drawings and instructions supplied herein. No pleas of ignorance by the bidder pertaining to the content of the specifications, drawings, schedule or instructions will be considered by the

agency once the deadline for bid submission has occurred. Failure or omission on the part of the bidder to make the necessary examinations and investigations into the content of the specifications shall not be accepted as a basis for making variations to the spec. Failure or omission by the bidder to make all clarifications or explanations of exceptions and conditions that exist or that may exist hereafter shall NOT be accepted as a basis for making variations to the requirements of the agency or compensation to the bidder.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

#### DEFINITIONS:

CLARIFICATIONS: Clarifications shall be written correspondence between the bidder, the agency and all other qualified bidders. A Clarification shall include the paragraph number, page number, the text with unclear content (as written in the specification) and the definition of the clarification requested. Verbal clarifications shall be documented in writing and distributed to all other qualified bidders at least two business days prior to the deadline for bid submission.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

EXPLANATION OF EXCEPTIONS: Bidders may take exceptions to any part of the bid contained herein with a written itemized schedule. The schedule shall include the paragraph number(s), the text that the bidder feels he can not 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. This agency will share the exception/alternate solution with all other Qualified Bidders. Explanation of exceptions shall be documented in writing at least two business days prior to the deadline for bid submission.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

BID PACKAGES SHALL NOT TAKE TOTAL EXCEPTIONS: Bidders are required under this bid invitation 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 all disciplines of users, patients, maintenance and management personnel who are directly affected by the vehicle's performance.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

Careful consideration pertaining to safety, configuration, construction, and workmanship are based on working experiences by all 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

This agency makes no claim that ALL potential issues or improvements are included in the specifications supplied herein. This agency will consider any VALID concern by any bidder and will consider minor specification exceptions or alternates of equal or better performance, provided that the exception(s) are steered toward meeting the "Core design" intent AND the exception(s) are cleared up not less than two days prior to the bid opening date.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**Caution:**

A bidder who submits a bid that takes "Total Exception" and makes an offering of some "Standard" or "Stock" unit will be viewed by the agency as a bidder who did not make, and is not prepared to make, a valid bid, and is not qualified to manufacture the ambulance as specified herein. Alternate bids will **NOT** be considered.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

VEHICLE QUANTITY: THIS AGENCY is currently seeking to purchase one vehicle per the specifications set forth in this solicitation for bid. THIS AGENCY AND/OR other agencies that qualify to purchase under this contract will reserve the right to increase the number of vehicles to be purchased.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**VENDOR QUALIFICATIONS:**

FORD QVM: 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 their valid QVM Certification with their bid package. If for any reason the QVM Certification has been withdrawn or suspended by Ford Motor Company within the past five years, the bidder shall supply a full written explanation as to why it was withdrawn. The written explanation shall include any corrective actions taken to regain the QVM Certification.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

PRODUCT LIABILITY INSURANCE: Proof of current liability insurance shall be supplied. The proof of insurance shall bear the insurance carrier's name, address and phone number. The proof shall also bear the name and address of the insured. This document shall contain the coverage schedule, explaining the type of insurance, the policy number, the effective date of coverage, the policy expiration date and the individual limits. The minimum amount of coverage shall be as follows:

Commercial General Liability - as follows:

Each Occurrence: \$,1,000,000

Damage to rented premises, each occurrence: \$300,000

Medical Expenses: \$5,000

Personal and Adv Injury: \$1,000,000  
General Aggregate: \$4,000,000  
Products - Comp/OP Agg: \$4,000,000  
Automotive Liability - Combined Single Limit: \$1,000,000  
Comp/Coll Ded: \$1,000  
Excess Liability - Umbrella Form  
Each occurrence: \$5,000,000  
Aggregate: \$5,000,000  
Excess Liability: \$20,000,000  
Workers Compensation and Employers' Liability  
E.L. Each Accident: \$1,000,000  
E.L. Disease policy - Each Employee: \$1,000,000  
E.L. Disease - Policy Limit: \$1,000,000

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**NON-DISCRIMINATION AND EQUAL OPPORTUNITY:** The Bidder/Contractor agrees to comply with all federal statutes relating to non-discrimination. These include but are not limited to:

- (a) Title VI of the civil rights act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin;
- (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. 1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex;
- (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), which prohibits discrimination on the basis of handicaps and the Americans with Disabilities Act of 1990;
- (d) The Age Discrimination Act of 1974, as amended (42 U.S.C. 6101-6107), which prohibits discrimination on the basis of age;
- (e) The Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse;
- (f) The Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism;
- (g) 523 and 527 of the Public Health Service Act of 1912 (U.S.C. 290 dd-3 and 290 ee-3), as amended, relating to confidentiality of alcohol and drug abuse patient records;
- (h) Any other nondiscrimination provisions in any specific statute(s) applicable to any Federal funding for this Agreement;
- (i) The requirements of any other nondiscrimination statute(s) which may apply to this agreement.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**DRUG FREE WORK PLACE:** The Bidder shall conduct business as a Drug Free Workplace. The Bidder/Manufacturer and ALL of its sub-contractors shall provide notice to their employees and sub-contractors as required under the Drug-Free Workplace Act of 1988. A copy of Bidder's Drug-Free Workplace Policy shall be furnished to this agency upon request.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**QUALITY MANAGEMENT SYSTEM REGISTERED:** The manufacturer shall have a registration for ISO 9001(TM): 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

Bidder Complies exactly as written    Yes\_\_\_\_\_ No\_\_\_\_\_

## 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 mount hardware, 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.

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 023 - 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**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 successful bidder. The notice may be faxed, followed by phone contact. The customer 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**NON-COLLUSIVE BID CERTIFICATION:** By submission of this bid response, the Bidder and/or the Bidder's authorized representatives certify under penalty of perjury, that to the best of their knowledge and belief the following:

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

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

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

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**DEBARMENT STATUS:** By submission of this bid response, the Bidder and/or its authorized representative, certify under penalty of perjury, that to the best of their knowledge and belief they are not currently debarred from submitting bids or bid on contracts by any agency within the State of Mississippi, nor are they an agent of any person or entity that is currently debarred from submitting bids on contracts by any agency within the State of Mississippi.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

### **WARNING:**

This agency will not tolerate Vendors who state compliance to specifications but deliver an incomplete product and/or sub-standard materials and workmanship. Vendors who have made delivery of such an ambulance without making every reasonable effort to remedy the defects found at the time of delivery or within the warranty period will be notified that they are DEBARRED from submitting bids to this agency in the future.

This agency will not waste valuable time (more than once) trying to recover legal costs and deal with lost in-service time of new apparatus, working with vendors who are unresponsive to the needs of this agency.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

TYPE III AMBULANCE: The apparatus shall be a Class 1, Configuration A, 2-door cut-a-way van chassis with a transferable, modular, ambulance body.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

## CHASSIS

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".

CHASSIS MODEL: The apparatus shall be mounted on a 2017 or newer E-350, cutaway van cab, dual rear wheel, two wheel drive chassis equipped as follows below.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

WHEEL BASE: The wheel base shall be 138 inches with a cab to axle dimension of 80 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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

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. Aftermarket vacuum formed proprietary grille work made by the ambulance manufacturer is not acceptable due to replacement part cost and lack of immediate availability.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

TURNING DIAMETER: The proposed vehicle(s) turning diameter shall not exceed forty seven feet, eleven inches measured from one curb to another parallel curb. When measured wall to wall, the maximum turning diameter shall not exceed fifty feet, three inches.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

ENGINE: A V-10, gas engine shall be provided with a minimum displacement of 6.8 liters (408 cu in). The engine provides 305 horsepower @4,250 RPM and 420 lb-ft of torque at 3,250 RPM. The engine performance shall comply with or exceed the most current revision of KKK-A-1822.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

GROSS VEHICLE WEIGHT RATING (GVWR): The GVWR of the chassis supplied shall be at least 11,500 pounds.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

FRONT AXLE WEIGHT RATING (FAWR): The FAWR shall be rated no less than 4,600 pounds.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

REAR AXLE WEIGHT RATING (RAWR): The RAWR shall be rated no less than 7,800 pounds.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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

Bidder Complies exactly as written 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

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**SPEED CONTROL:** Ford OEM Speed Control option Code 525 shall be provided on the chassis.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**AIR BAG DE-ACTIVATION:** There shall be an OEM switch in the dash to de-activate the passenger side supplemental dash air bag.

Bidder Complies exactly as written 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

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

FUEL TANK: The fuel capacity shall be at least 40 US gallons. The fuel range shall be at least 250 miles per KKK-A-1822.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

REAR AXLE TYPE AND RATIO: The axle type shall be a Limited Slip Differential with a 4.10:1 gear ratio.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

AMBULANCE PREPARATION PACKAGE 47A: 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

WHEEL/RIM APPEARANCE: All four outside chassis wheels shall be covered in 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

FRONT STABILIZER BAR: A one and three eighth inch diameter, after market replacement anti-sway bar shall be supplied. This bar is larger in diameter than the OEM E-350 Bar. The bar shall regulate body shift and enhance drivability, handling and control. The solid torsional spring steel bar shall be attached at two points on



the front axle and two points on the vehicle frame. The OEM Natural rubber bushings shall be replaced with Urethane bushings at all four connection points. The two removable bushings shall be encased with U-shaped, heavy duty two bolt brackets.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**REAR STABILIZER BAR:** A one and one half inch diameter, after market replacement anti-sway bar shall be supplied. This bar is larger in diameter than the OEM E-350 Bar. The bar shall regulate body shift and enhance drivability, handling and control. The solid torsional spring steel bar shall be attached at two points on the rear axle and two points on the vehicle frame. The OEM Down link and natural rubber bushings shall be replaced with heavy duty angle steel brackets, through bolted the web of the vehicle frame. Urethane bushings at all four connection points shall be encased with U-shaped, heavy duty two bolt brackets.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**SPARE TIRE:** One (1) spare tire and wheel assembly shall be supplied. When the tire is to be carried on the unit, the tire hold down shall meet KKK-A-1822E 3.6.10. OEM tire tools shall be provided with the spare.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**SPARE TIRE STORAGE:** A full size, fully inflated spare tire shall be stored in the right rear compartment, located just aft of the rear wheel opening. The tire and wheel assembly shall be fastened to the compartment wall utilizing a winged fastener or a nut that can be removed with the tire iron. If supplied by the OEM, a jack and tire tools shall also be provided and clamped into place.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**JACK AND SPARE TIRE TOOLS:** The vehicle jack and tools associated with the spare tire and jack shall be installed:

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**SIDE REAR VIEW MIRRORS:** Dual OEM 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

CAB DOOR STRAPS: The cab doors shall have a pair of door straps. The straps shall be constructed of the same webbing material as seat belts. They shall be looped and sewn to allow the full tension of the door to be applied. The loops shall be fed through a coated steel "U" shaped bracket and then nut-serted and bolted into place the door and the jamb. These door straps shall alleviate tension from the cab door hinges during full extension.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

TIRE VALVE EXTENDERS: One pair of tire valve extenders shall be 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

BODY MEMBER ALLOY: The side, 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.

Bidder Complies exactly as written 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 with bid for review. **Non-compliant bids will be rejected.**

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

WELD QUALITY: All welds within the modular body shall meet American Welding Society codes for structural and sheet welding.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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 streetside that are continuously MIG welded or Huck structurally fastened to the structural grid. Since this is a safety item, no exceptions will be accepted

Bidder Complies exactly as written 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 streetside that are continuously MIG welded to the structural grid. Since this is a safety item, no exceptions will be accepted.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**LATERAL ROOF SUPPORTS:** If this agency requires ducted ceiling HVAC, additional structural support will be added as a result of the 2" ducted heat and A/C delivery system. 2" x 2" three sided extruded channel with two sides being .125" thick and the bottom surface for fastener acceptance to be .160" shall be full length of the body.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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 Multiflex 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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".*

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

## MOUNTING

**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 aftermarket 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

## MODULE CONFIGURATION

**OVER ALL LENGTH:** The overall length of the vehicle shall not exceed twenty feet, 6 inches (246 inches) per current revision of Federal Specification KKK-A-1822. The departure angle shall meet or exceed current revision of Federal Specification KKK-A-1822.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**MODULE LENGTH:** The module length shall be at least one hundred forty five inches.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**MODULE HEAD ROOM:** The module shall not be less than sixty six inches actual measured headroom. The measurement shall be taken from the patient compartment floor to the ceiling panels.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**DOOR CHECK:** The compartment door(s) in excess of 13" pass through width 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**CAB EXTENSION:** The cab length shall be extended six (6) 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**COMPARTMENT FLOOR CONFIGURATION:** This compartment floor shall be a sweep out type floor. The compartment floor shall be flush with the lower door jamb to facilitate compartment floor cleaning. The edge of the compartment floor shall be continuously welded to the lower door jamb. Heat generated from welding shall not distort the straightness or flatness of the jamb or compartment floor. The weld quality must be aesthetically uniform.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**JAMB PROTECTION:** At the curbside module entry door, a full width, formed, stainless steel jamb protection plate shall be provided to prevent heavy traffic from chipping the paint.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**STEP WELL:** A curbside entry door shall feature a single step "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. 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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

Bidder Complies exactly as written 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 58.6" High x 20.7" Wide x 17" Deep. This compartment is designed to hold main O2 cylinder and to allow access to stair chair cabinet. This access to the stair chair compartment and door shall be of aluminum diamond tread plate up to the rear wall of the

compartment. The compartment shall recess behind attendant seat and that section can be made of mica covered wood. This compartment shall have access from exterior left front compartment only. The aluminum diamond plated door shall have piano style hinge and held shut with soft pull latches.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**COMPARTMENT DOOR PANEL:** The inside door panel of this compartment shall be diamond plate.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**COMPARTMENT FINISH:** Unless specified otherwise, all exterior compartment walls and backs shall be constructed of .100 polished aluminum diamond plate.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**COMPARTMENT FLOOR CONFIGURATION:** This compartment floor shall be a sweep out type floor. The compartment floor shall be flush with the lower door jamb to facilitate compartment floor cleaning. The edge of the compartment floor shall be continuously welded to the lower door jamb. Heat generated from welding shall not distort the straightness or flatness of the jamb or compartment floor. The weld quality must be aesthetically uniform.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**COMPARTMENT DOOR:** A single, forward hinged, compartment door shall be set for this compartment. The door shall have a single handle and one rotary latch.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

COMPARTMENT LIGHT: One (1) Kinequip Brand 12V 8" LED strip light, Model #10881 shall be mounted in the compartment, per customer specified location.

Bidder Complies exactly as written 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 25 1/8" Wide x 17" Deep.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

COMPARTMENT DOOR PANEL: The inside door panel of this compartment shall be diamond plate.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

COMPARTMENT FINISH: Unless specified otherwise, all exterior compartment walls and backs shall be constructed of .100 polished aluminum diamond plate.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

COMPARTMENT FLOOR CONFIGURATION: This compartment floor shall be a sweep out type floor. The compartment floor shall be flush with the lower door jamb to facilitate compartment floor cleaning. The edge of the compartment floor shall be continuously welded to the lower door jamb. Heat generated from welding shall not distort the straightness or flatness of the jamb or compartment floor. The weld quality must be aesthetically uniform.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

COMPARTMENT DOOR: A single, forward hinged, compartment door shall be set for this compartment. The door shall have a single handle and one rotary latch.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**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, heavy duty shelf track. Incrementally adjustable, non-aluminum shelf track is not acceptable.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**SHELF BRACKET:** Each above exterior adjustable shelf 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**COMPARTMENT LIGHT:** One (1) Kinequip Brand 12V 8" LED strip light, Model #10881 in lieu of standard light, shall be mounted in the compartment, per customer specified location.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**AUXILIARY CONDENSER:** The module A/C system shall employ a separate condenser for the rear HVAC system. The condenser shall be through bolted to brackets that are welded to the body under the Street side M-2 compartment. Two electric cooling fans shall be mounted to the core assembly and blow toward the road. 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. None of the OEM Cab HVAC system components may be tied into for the rear AC system.

Bidder Complies exactly as written 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, non-conductive 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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

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

Bidder Complies exactly as written 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 73.8" High x 20" Wide x 7" Deep.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

COMPARTMENT DOOR PANEL: The inside door panel of this compartment shall be diamond plate.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

COMPARTMENT FINISH: Unless specified otherwise, all exterior compartment walls and backs shall be constructed of .100 polished aluminum diamond plate.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

COMPARTMENT FLOOR: This compartment shall feature a four inch (4") dropped floor. The edge of the compartment shall be continuously welded to the lower door jamb.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

COMPARTMENT DOOR: A single, forward hinged, compartment door shall be set for this compartment. The door shall have a single handle and two rotary latches.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

COMPARTMENT LIGHT: One (1) Kinequip Brand 12V 8" LED strip light, Model #10881 in lieu of standard light, shall be mounted in the compartment, per customer specified location.

Bidder Complies exactly as written 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 26" High x 30" Wide x 13 1/2" Deep. A tire well shall be integrated into the bottom of the compartment to accommodate a full size spare tire and wheel assembly.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**COMPARTMENT DOOR PANEL:** The inside door panel of this compartment shall be diamond plate.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**COMPARTMENT FINISH:** Unless specified otherwise, all exterior compartment walls and backs shall be constructed of .100 polished aluminum diamond plate.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**COMPARTMENT FLOOR:** This compartment shall feature a sweep out type floor with a rounded tire well. The main compartment floor shall be flush with the lower door jamb. The edge of the compartment floor shall be continuously welded to the lower door jamb. Heat generated from welding shall not distort the straightness or flatness of the jamb or compartment floor. The weld quality must be aesthetically uniform.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**COMPARTMENT DOOR:** A single, forward hinged, compartment door shall be set for this compartment. The door shall have a single handle and one rotary latch.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**COMPARTMENT LIGHT:** One (1) Kinequip Brand 12V 8" LED strip light, Model #10881 in lieu of standard light, shall be mounted in the compartment, per customer specified location.

Bidder Complies exactly as written 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 42.6" High by 18.375" Wide. The compartment door shall provide direct outside access into the right front advanced life support equipment storage area.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

COMPARTMENT DOOR: A single, forward hinged, compartment door shall be set for this compartment. The door shall have a single handle and one rotary latch.

Bidder Complies exactly as written 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" High x 18.3" Wide x 19.4" 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

COMPARTMENT FINISH: Unless specified otherwise, all exterior compartment walls and backs shall be constructed of .100 polished aluminum diamond plate.

Bidder Complies exactly as written 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.



Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**REAR ACCESS DOORS:** The rear of the module shall be equipped with double seamless patient compartment access doors. The doors shall be centered on the body and align with the patient compartment aisle space. The doors shall measure 48 3/4 inches wide by 56 5/8" high, jamb to jamb.

**REAR ACCESS DOOR JAMB:** At the rear access doors, a full width, formed seamless 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, cover the end of the sub-floor and cover the last six inches of the vinyl floor covering.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

#### **BODY PROTECTION AND BRIGHT WORK**

**FRAMING:** The rear step bumper shall exceed the current revision of KKK-A-1822. The bumper shall be framed in with 1/4 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.

**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, 1/4-20 bolts and Nylock nuts.

**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").

Bidder Complies exactly as written 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. The step shall have a red/white reflexite reflective strip across the flip up step. A stainless steel piano hinge shall have a staked in, 1/4" diameter pin, one inch knuckles and one Type-F 1/4" through bolt every four inches.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

DOCKING BUMPERS: The rear bumper shall be equipped with natural, black rubber dock bumpers. The bumpers shall measure 2 1/4 inches high by 8 inches long by 2 inches thick. The bumpers shall be through bolted to each pontoon with two (2) 3/8 diameter, grade 8 bolts. The bolts shall be counter bored into each dock bumper. Each mounting hole shall be reinforced with a counter bore diameter, thick flat washer. Each bolt shall be threaded into a spiral lock flanged nut or approved equal.

Bidder Complies exactly as written 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. There shall also be a series of twelve (12) rectangular holes, six (6) each side. Six (6) of the holes shall face outward and six (6) shall angle downward. The side facing shall be for warning lights and the downward shall be for ground lighting. 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

#### FRONT PAIR SKIRT RAIL LIGHTS

MODULE SKIRT LIGHTING; There shall be installed LED lighting into the module skirt rail to provide additional perimeter warning on the lower section of the module sides. Lighting shall flash and be controlled through the conversion electrical system. Lighting colors shall be RED/WHITE with location determined at a pre-build meeting.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

#### MIDDLE PAIR SKIRT RAIL LIGHTS

MODULE SKIRT LIGHTING; There shall be installed LED lighting into the module skirt rail to provide additional perimeter warning on the lower section of the module sides. Lighting shall flash and be controlled through the conversion electrical system. Lighting colors shall be RED/WHITE with location determined at a pre-build meeting.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

#### REAR PAIR SKIRT RAIL LIGHTS

MODULE SKIRT LIGHTING; There shall be installed LED lighting into the module skirt rail to provide additional perimeter warning on the lower section of the module sides. Lighting shall flash and be controlled

through the conversion electrical system. Lighting colors shall be RED/WHITE with location determined at a pre-build meeting.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**SKIRTRAIL LIGHT SWITCHING:** The above mentioned skirt rail LED lights shall be wired to activate by separate switch in cab console.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**MODULE SKIRT LIGHTING;** There shall be installed Six Kinequip LED lighting into the module skirt rail to provide additional perimeter warning on the lower section of the module sides. Lighting shall be controlled through the conversion electrical system. Lighting colors shall be White with location determined at a pre-build meeting.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**LED GROUND SWITCHING:** The above mentioned LED Ground lights shall be wired to activate by separate switch in cab console and with any entry or compartment door

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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

Bidder Complies exactly as written 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).

Bidder Complies exactly as written 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 with gaskets. The door shall have a ½ round stock loop that plunges into a positive rubber/cast socket.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

RUNNING BOARDS: Running boards (An auxiliary step) shall be constructed of .100 diamond plate and be provided on each side of the cab. The running boards shall not deflect when stepped on. Built in diamond plate mud flaps shall keep front tire induced road grime off the step.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**FRONT ICC 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**REAR ICC 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**POB LIGHT:** There shall be small LED red/white lights installed on all the ambulance doors. The light shall flash white alternate to red when powered. Mounted on each door approximately center beltline height and to the outside edge of door

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**LIGHT SWITCHING:** The above mentioned LED light(s) shall be switched with the door switch through the Module Master main control in the cab.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**SIDE MARKER LIGHTS:** Two Whelen 700 series Tail/Stop LED type side marker light shall be supplied and installed on the apparatus body per FMVSS and DOT Standards. Each light shall be wired with the running to be the tail steady and the turn is to be the stop and flash. Each light shall be populated with at least thirty eight light emitting diodes. The lights shall illuminate the end of the vehicle body.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**THIRD BRAKE LIGHT:** A third brake light shall be located centered above the rear access doors. The light/lens shall measure at least 15 square inches. The light is to be a Kinequip, model KFL-3BLO1 fixture.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**THIRD BRAKE LIGHT:** When the brake is applied the light will steady burn.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**REAR AIR CONDITIONING:**

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

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**REAR AIR CONDITIONING EVAPORATOR:** The module shall have an additional, self-contained A/C unit complete with an evaporator coil, heater core and a 12 volt blower. The fan shall be three speed and shall deliver 580 cubic feet of air per minute on high. The unit shall be rated at least 32,000 British Thermal Units (BTU) in A/C Mode and 43,300 BTU in Heater Mode. The Vehicle A/C and Heat system must meet or exceed current Federal specification KKK-A-1822. The A/C and Heat unit will be located in Upper Section of the Right Front Cabinet.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**RETURN AIR PLENUM:** A stamped powder coated steel vent will be provided in walk-thru area. This will allow constant fresh air for the HVAC unit. The plenum will run from the floor, on the left side of the cabinet, to the HVAC unit in the ALS Cabinet.

Bidder Complies exactly as written 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 is 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**LINER PANELS:** The patient cabin head liner substrate material shall be one quarter inch thick, composite metal with powder coated finish laminated to center plastic material. 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**PATIENT CABIN FLUORESCENT LIGHTS:** In addition to the base dome light package, three recess mounted fluorescent light shall be installed in the ceiling center pad, centered between the right and left bank of dome lights. The light(s) shall be 12 Volt Thinlite #716XL (18" long) or approved equal. A cutoff switch located in the action area panel will be installed in addition to the switch on the end of the fixture.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**FLUORESCENT LIGHT LOCATION:** The aforementioned fluorescent light shall be located in the center panel of the patient cabin ceiling. The longitudinal light position shall emphasize light intensity on the patient.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**LIGHTS POWERED BY TIMER:** The aforementioned timer shall power all of the fluorescent lights, mounted in the ceiling panels. The duration of the light shall vary with the setting of the timer.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**AUXILIARY STEREO SPEAKERS:** Two 5 inch diameter stereo speakers shall be wired to the OEM Dash mounted radio. The speakers shall be rated at least 30 watts, 16W RMS with 4 ohms of impedance. The magnet shall be at least 6 ounces. One speaker shall be located in the center pad toward the front of the patient cabin and one toward the rear.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**VOLUME CONTROL:** A variable volume control for the patient compartment stereo speakers shall be provided in the action area panel, adjacent to the switch panel.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**LOCATION:** Located of the Primary patient, in the close proximity to the Knee/Waist area of the patient.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**IV HOOK No 2:** One chrome plated, surface mounted IV hook, with a spring loaded retention gate, shall be supplied in the ceiling of the patient cabin. The hook shall feature an anti-swing strap next to the hook.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**LOCATION:** Located of the Secondary patient, in the close proximity to the Head/Chest area of the patient.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**IV HOOK No 3:** One chrome plated, surface mounted IV hook, with a spring loaded retention gate, shall be supplied in the ceiling of the patient cabin. The hook shall feature an anti-swing strap next to the hook.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

LOCATION: Located of the Primary patient, in the close proximity to the Knee/Waist area of the patient.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

IV HOOK No 4: One chrome plated, surface mounted IV hook, with a spring loaded retention gate, shall be supplied in the ceiling of the patient cabin. The hook shall feature an anti-swing strap next to the hook.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

LOCATION: Located of the Secondary patient, in the close proximity to the Knee/Waist area of the patient.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

ADDITIONAL INSULATION: In addition to the standard reflectix circumferential insulation, there shall be fiberglass bat insulation added to the walls and ceiling between the aluminum structural beams. It shall be cut into square or rectangular pieces to fit into the above locations.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

ADDITIONAL FRONT WARNING LIGHTS: There shall be installed four additional warning lights in the front upper zone.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**LED FLASHER:** There shall be a Titan flasher manufactured by TSD for the sole purpose of flashing the additional LED front body lights in these specifications. The flash sequence shall be determined by the end user and put on the final build order sent to production.

Bidder Complies exactly as written    Yes\_\_\_\_\_ No\_\_\_\_\_

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

Bidder Complies exactly as written    Yes\_\_\_\_\_ No\_\_\_\_\_

**WARNING LIGHT:** There shall be installed a Whelen 900 Series Split Red and White LED lights with Clear lens. The light is non-programmable and relies on a separately installed flasher for operation.

Bidder Complies exactly as written    Yes\_\_\_\_\_ No\_\_\_\_\_

**FLASH PATTERN:** The Non-programmable split color light shall have each independent color wired to a separate flash circuit by the manufacturer. The flash pattern number shall be confirmed by the agency at the pre-construct meeting. The individual sections of the light are not synched to any other light portion.

Bidder Complies exactly as written    Yes\_\_\_\_\_ No\_\_\_\_\_

**ALTERNATIVE LIGHT BAR SWITCHING:** The switching of the lighting package that makes up the alternative light bar package shall be through a separate switch in the cab console labeled "Light bar".

Bidder Complies exactly as written    Yes\_\_\_\_\_ No\_\_\_\_\_

**WARNING LIGHT FLASHER:** A Heavy Duty, Duo-mode electronic flasher shall provide momentary power (Flash) the Halogen light heads at a rate of 75 to 80 flashes per minute (+-8%). The device shall have three output legs with maximum output current ratings of: Terminal A with sixty amperes, Terminal B with forty amperes and Terminal C with forty amperes. Primary mode is the standard running mode which flashes alternately between light heads powered off Leg A and those lights powered off Legs B and C. In secondary mode (used at the scene), all lights on Leg C will go out. The device shall function with an input voltage ranging from ten to sixteen volts, direct current. (10V - 16V). The flasher shall operate in the most severe environments with an operating ambient air temperature range, around the device of negative forty to positive one hundred twenty two degrees Fahrenheit. (-40 to 122 F) The input circuit shall be protected with overload protection. The flasher shall feature four flash patterns; Alternate Flash, Triple Burst Flash, Quad Burst Flash, and Dual Burst Flash. The flasher shall meet or exceed all GSA Triple K-1822 and AMD specifications.

Bidder Complies exactly as written    Yes\_\_\_\_\_ No\_\_\_\_\_

**FLASH PATTERN:** The warning lights shall flash in the sequence described in the present revision of the Federal specification KKK-A-1822.

Bidder Complies exactly as written    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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

GRILLE LIGHTS: A pair of TIRLIN-3 LED lights shall be mounted in chrome flanged housings on the grille supports and mounted in such a way as not to block air flow.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

ADDITIONAL GRILLE LIGHTS: There shall be (2) Whelen TIRLIN3 White LED, Clear Lens installed on the chassis grille in such a manner as to not block air flow.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

FRONT INTERSECTION LIGHTS: A set of warning lights shall be installed on the chassis front fender to warn oncoming intersection traffic. The lights shall be two Whelen 700 Series Super LED lights with Red LED diodes and clear lens. The lights shall have 700-Chrome Flanges one each light.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

FRONT UPPER ZONE WARNING LIGHT: There shall be installed one warning light in the upper front center of the module zone. The light shall be a Whelen 900 Series White LED light with Clear lens. The light is non-programmable and relies on a separately installed flasher for operation.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

FRONT UPPER ZONE WARNING LIGHTS: There shall be installed two warning lights in the upper front of module zone. The lights shall be a Whelen 900 Series RED LED light with Clear lens. The light is non-programmable and relies on a separately installed flasher for operation.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

MODULE SIDE WARNING LIGHTS: There shall be four Whelen 900 series Super LED lights in the upper outermost positions two on each side. The lights shall be a Whelen 900 Series RED LED lights with Clear lens. The light is non-programmable and relies on a separately installed flasher for operation

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

REAR UPPER WARNING LIGHT ZONE: There shall be (2) Rear Upper Body Lights: There shall be installed a Whelen 900 Series RED LED lights with Clear lens. The light is non-programmable and relies on a separately installed flasher for operation.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

ADDITIONAL REAR WARNING LIGHTS: There shall be installed (2) Whelen 900 Series Split Red and Amber LED warning lights with clear lens.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

LOCATION: On the rear of the module, aligned with each upper window in the access doors. The light shall flash through the window when the doors are opened.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

FLASH PATTERN: The Non-programmable split color light shall have each independent color wired to a separate flash circuit by the manufacturer. The flash pattern number shall be confirmed by the agency at the pre-construct meeting. The individual sections of the light are not synched to any other light portion.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

BRAKE LIGHT OVERRIDE: The rear RED warning lights described above shall steady burn with the brake light switch on the foot pedal. The Amber shall flash as an additional turn signal also.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

BRAKE OVERRIDE FUNCTION: The brake light override feature shall function during all modes of lighting operation EXCEPT primary mode. The aforementioned lights shall steady burn when the brake pedal switch is activated even when the emergency lighting is turned OFF. When the warning lights are in Secondary mode, then the rear lights specified above shall steady burn for the duration of the foot pedal depression and resume flashing when the foot brake is released.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

REAR UPPER ZONE WARNING LIGHT: There shall be installed one Whelen 600 Super Amber LED light with Clear lens in the upper rear center of the module zone.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

UNDER CAB INSULATION PACKAGE: The underside of the curbside cab shall be insulated between the structures with blue block foam and then the underside shall be capped off with aluminum sheet to protect the blue block foam from weather elements.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

SPOT LIGHT: A hand held 140,000 candlepower, 100 watt halogen spot light shall be provided in the cab. The housing shall be an impact resistant, one piece Unibody UV treated black colored neoprene. The light shall feature a momentary rocker switch to prevent the light from burning while not in the user's hand. This light shall feature a coil type cord that is at least three feet long retracted and fifteen feet extended. The weight of this light shall not exceed three pounds.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

HANDHELD SPOTLIGHT LOCATION: The spot light shall be hard wired to the center console. The light shall be enabled through the battery switch.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

TWO BATTERY SYSTEM: The ambulance conversion and chassis shall run with two maintenance free twelve volt batteries as specified below. Both batteries shall be wired in parallel to maximize starting amperage. The batteries shall be wired to work together simultaneously per Ford QVM bulletin number sixty three.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

BATTERY BRAND: Both batteries shall be MOTORCRAFT and shall be rated at a minimum of seven hundred fifty cold cranking amps at thirty two degrees Fahrenheit. Each battery shall have a reserve capacity of at least sixty five amp-hours. 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

Battery Location: One OEM battery shall remain at the OEM location under the chassis engine hood. The remainder of batteries shall be relocated to the right front slide out compartment.

Bidder Complies exactly as written 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 affected by this switch per Fords Qualified Vehicle Modifiers program, bulletin No 63. An indicator light shall illuminate on the cab console panel.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**MODULE DOOR LOCKS:** The module door locks shall be operated solely by key activation into the lock cylinder.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**HIDDEN DOOR LOCK SWITCH:** A weather proof momentary switch shall be installed, concealed from view.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**LOCATION:** The switch shall be located in the OEM grille area.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**CAMERA SYSTEM:** The vehicle shall include a single camera backup monitoring system. The system shall include, but not limited to a 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 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. There shall be a second camera (low profile) mounted in the patient area, hidden from plain view. A third and fourth camera shall be mounted to the right and left front fenders and shall show clear view of the lane to the right and left of this vehicle. 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

#### **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.

Bidder Complies exactly as written 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).

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

CAB CONSOLE: The ambulance conversion control console shall be ergonomically designed, ABS plastic and molded to the contours of the engine cover. Accommodations shall include an electronic siren and a



contoured switch and gauge panel. At least 60 square inches of additional console area (UNUSED by the manufacturer) shall be located just below the main switch and gauge panel for communications radio heads. The console shall be easily removed from the engine cover to minimize engine repair time.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**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 Laser router shall engrave permanent switch legends, switch holes, meter holes, and indicator legends. The switches shall be organized in one row. The row shall start with an Emergency Master switch. The switch panel features an auto-dimming capability as related to a light sensor in the volt meter. Each switch features a reinforced hub as part of the integral sealed housing. The Sealed rocker switches are LED illuminated. Each switch meets or exceeds IP66 ratings for contamination.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**REAR SWITCH PANEL, ACTION AREA:** 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 sealed switches shall be organized in one row and control all patient compartment functions, dome lights, action area light, exhaust vent, inverter (if equipped), HVAC, suction pump and any added features.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**CUSTOM LOGO:** The agency's custom logo shall be engraved at the top of the main cab switch panel. The logo shall be to scale and back lighted with the head light switch.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**AUXILIARY CAB CONSOLE:** An ergonomically designed extension console shall be contour matched to the Main ambulance conversion console. The console shall be a tapered design with a fourteen and one half inch width at the front of the console and a twelve inch width at the rear of the console. The height shall not exceed the height of the engine cover console measured at the rear. The length of the console, measured at the center, shall be at least twenty-one inches.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**DRINK HOLDERS:** The aforementioned extension console shall feature two drink holders, large enough to accommodate 44 ounce paper cups. The drink holders shall be recessed into the console with one piece, self-rimming trim rings. The console finish and the drink hole recessed areas shall be water proof, due to cup condensation.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

The Drink Holder shall be located at the Front of the Add-On Console and it shall have room to mount 2-way radio.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**NOTE BOOK SLOT:** The aforementioned extension console shall feature a four inch by full width slot specifically designed to hold note books and/or clipboards. The inside finish of the slot shall be of the same material as the outside laminate. The slot shall be located in the rearward most end of the extension console.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**CAB CONSOLE FINISH:** The console body shall be finished with a 20 mil Easy Grip film. The Easy Grip shall be a self-adhesive as well as bonded to the substrate with high bond contact adhesive. All joints shall be inconspicuous and bonded along the edges.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**CAB CONSOLE FASTENERS:** The control console shall be fastened to the engine cover with black colored, No 2 Phillips, pan head screws.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**CUT-OFF SWITCH, BACK UP ALARM:** The backup alarm shall include a momentary type cut off switch to silence the alarm. The alarm enable circuit shall automatically reset when the transmission is shifted out of REVERSE, hence the backup alarm will sound when the vehicle is placed in REVERSE again.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**12 VOLT POWER INVERTER:** A highly reliable 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

The power inverter shall reside inside the second street-side exterior compartment.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**BATTERY CHARGER/CONDITIONER:** When the system is connected to shore/utility power, the battery charger 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**LOW VOLTAGE INDICATOR:** There will be an amber indicator light located in the cab console to illuminate if the vehicle voltage drops below 11.8 volts DC. If the voltage remains under 11.8 volts DC in excess of 120 seconds, there shall be a warning buzzer in addition to the light.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**COMMUNICATIONS RADIO(S) RELATED RADIO POWER:**

**POWER SOURCE FOR COMMUNICATION RADIO(S) No 1:** Positive and Negative polarity ten gauge wires shall be supplied and installed for subsequent installation of communications radio(s). The wires shall be barreled off and protected by a thirty (30) ampere automatic reset circuit breaker

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

POWER SOURCE FOR COMMUNICATION RADIO(S) No 2: Positive and Negative polarity ten gauge wires shall be supplied and installed for subsequent installation of communications radio(s). The wires shall be barreled off and protected by a thirty (30) ampere automatic reset circuit breaker.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

#### ANTENNA LEADS

COMMUNICATIONS RADIO ANTENNA PRE-COAX No 1: This coaxial cable shall be RG58-U type. Leave an 18 service loop at the mod roof and a 36 tail at the interior termination point. A tag shall specify the other termination point for each coax provided.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

ORIGINATION POINT: The Coaxial cable shall originate on the module roof. The port location shall be centered side to side and approximately 36" back from the front edge of the module roof.

TERMINATION POINT: The Coaxial cable shall terminate in the cab / drivers' cabin in the center console.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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 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 current Federal specification KKK-A-1822.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

OUTLET LOCATION: This 12 Volt outlet shall be located in the patient cabin's main "Action Area" installed on wall 3, or front wall of the area. This location provides distance from the oxygen outlets and allows for maximum use of the action area countertop.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

POWER SOURCE: The input for the outlet shall be wired to the output of the battery switch.

Bidder Complies exactly as written 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 current Federal specification KKK-A-1822.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

OUTLET LOCATION: This 12 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

POWER SOURCE: The input for the outlet shall be wired exactly like outlet Number One.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

PRIMARY SHORE LINE INLET: A 125 volt, twenty amp (20A) Straight blade (NEMA 5-20R), shore line inlet shall be provided on the module left, positioned behind the left front compartment and above the left front middle compartment. This inlet shall supply power to all 125 volt outlets, and engine block heater. The inlet shall be grounded to keep continuity with the buildings GFI Breaker. The inlet shall have a spring loaded, weather proof cover over the inlet. The inlet must be male. An engraved placard or permanent vinyl label, stating voltage and amperage shall be located over the inlet.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

125 VAC OUTLETS: The following outlets shall be UL listed, 125 Volt, Hospital grade, Straight blade NEMA 5-15R outlets. 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

OUTLET LOCATION: This 115 Volt outlet shall be located in the patient cabin's main "Action Area", on the side wall.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

ELECTRICAL OUTLET 2: There shall be installed a 125 VAC outlet receptacle at the location designated by following options.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**ELECTRONIC SIREN:** The siren hardware shall consist of an amplifier with control head, Whelen 295SLSA1. The two channel siren amplifier shall operate two 100 watt RMS speaker drivers and the following functions: RAD, PA, MAN, HF, WAIL, YELP, PIER. The siren control head shall feature a rocker type power switch, rotary function/Mode switch, a Manual momentary button switch, Diagnostic indicator lights a hardwired microphone and a microphone volume control potentiometer.

Bidder Complies exactly as written 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 OEM 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**SIREN OR HORN SELECTOR SWITCH:** The OEM horn ring shall control the OEM electric horn and the siren's manual momentary input controls. A switch shall connect the horn ring to either the OEM 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**LEXANTM COLOR:** The LEXANTM 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**HANDLES, LEXAN WINDOW 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.

Bidder Complies exactly as written    Yes\_\_\_\_\_ No\_\_\_\_\_

**SECURITY TAG FEATURE:** Each sliding polycarbonate door shall have a footman eye loop secured to the outer part of the sliding Lexan frames down low on the frame. Adjacent to the eyelet shall be a hole drilled into the full length extruded aluminum handle. The hole shall be large enough in the extruded handle designed to install security tags. The tags are designed to identify cabinets that have been entered and need to be restocked.

Bidder Complies exactly as written    Yes\_\_\_\_\_ No\_\_\_\_\_

**ATTENDANT SEAT;** The main attendant seat shall be an EVS high backed fixed 10.5 degree back seat with six point black seat belt. The vacuum formed cover shall be Blue Ridge in color. The seat shall be tested by the original seat manufacturer to current J3027 test standards and mounted to the instructions provided to the matching base as recommended. The seat shall have travel slide mechanisms attached to the seat base.

Bidder Complies exactly as written    Yes\_\_\_\_\_ No\_\_\_\_\_

**SEAT BASE:** There shall be a powder coated metal seat that is tested to be utilized with the mounted EVS seat. The metal base shall be concealed behind a substrate with mica laminate to be color keyed to the patient area interior. There shall be a flush mounted solid door on a stainless steel hinge with a spring loaded lever latch.

Bidder Complies exactly as written    Yes\_\_\_\_\_ No\_\_\_\_\_

**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.

Bidder Complies exactly as written    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.

Bidder Complies exactly as written    Yes\_\_\_\_\_ No\_\_\_\_\_

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

Bidder Complies exactly as written    Yes\_\_\_\_\_ No\_\_\_\_\_

**NON-LOCKING LATCH:** A black positive latch shall be supplied and installed on the cabinet door. A small "preload" on the latch shall be imposed to prevent the door from rattling.



Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**AIR CONDITIONING EVAPORATOR CABINET:** The patient cabin shall be equipped with a rear air conditioning and heat unit. It will have a ducted heat and A/C delivery system. The system will have (10) spherical adjustable vents. There will be (8) vents will be located in ceiling panel, (2) vents on the heat/ac panel. A cabinet specifically designed to fit, form and function to the constraints set forth in the surrounding cabinet design and air exchange for cooling/heating performance requirements, shall be installed in the upper right front corner of the patient cabin. The cabinet design shall include enhanced condensation water drainage by angling the entire evaporator unit toward the drain hose. The design shall provide adequate air return to meet or exceed current Federal specification KKK-A-1822. There will be an air return plenum extending full length in ALS cabinet for sufficient air return.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**BULKHEAD UPPER AND CIRCUIT BOARD CABINET:** This cabinet shall be located behind and over the seated attendant. Access to the main circuit board shall be provided through the cabinet back. Screw on panels over the main circuit board is not acceptable. The door shall feature a detachable cable door check. When the cable check is attached to the door the door shall be supported at ninety to one-hundred degrees from the closed position. When the cable check is disconnected, the door shall be capable of opening up to one-hundred and eighty degrees. The cable shall be detachable by a spring loaded clip so that there are no parts that are lost when the cable is disconnected.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**SOLID HINGED DOOR:** A solid door shall be supplied on the 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, pre-punched stainless steel piano hinge with mounting screws. The door shall be finished sides with white cabinet liner on the inside and with the same colored mica as the cabinet face on the outside of the door. The door will have two vents.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**NON-LOCKING LATCH:** A black positive latch shall be supplied and installed on the cabinet door. A small "preload" on the latch shall be imposed to prevent the door from rattling.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**CURB SIDE REAR GLOVE BOX STORAGE:** There shall be glove box storage for three (3) boxes of gloves located on the curbside (right side) of the patient cabin, over the squad bench. The cabinet size shall be maximized and start at the curbside wall and extend out to the curbside aisle. A three box glove dispenser shall be built into the cabinet with a fixed partition between each box of gloves. The gloves shall dispense through oblong slots cut into the 3/8-inch thick Lexan door. One door shall cover all three glove box bays, hinge across the top and feature a brass bodied, roller bearing type catch at the bottom.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**CABINET "L":** 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 a single opening and one adjustable shelf with adjustable side mounted track for adjustment.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**HANDLES, LEXAN WINDOW 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.

Bidder Complies exactly as written 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 3/4 lip. The ALS cabinet shall be provide at least 22.0 cubic feet of storage and Configured as follows.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**ADJUSTABLE SHELVES:** Two shelves shall be supplied in the cabinet. Each shelf shall be made of 1/2" substrate and finished in white colored cabinet liner laminate. Both sides of the shelf shall be laminated. The shelf shall be secured with four (4) shelf clips to the incrementally adjustable shelf standard tracking on the sides of the cabinet. There shall be two shelf standards are both left and right sides of the adjustable shelf. An anodized aluminum angle shall be securely fastened to the front edge of each shelf. The vertical leg of the angle shall provide a lip along the front edge to prevent storage items from shifting against the doors.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**DOUBLE SOLID HINGED DOORS WITH POLYCARBONATE INSERT:** Two oppositely hinged, 3/4" (19mm) thick door frames, with a 3/16" (0.188) thick transparent inserts shall be supplied on the aforementioned cabinet. The door frames shall be drop cut from one piece of material, laminated on both sides and mated to the polycarbonate inserts secured on the backside of the door. The doors shall be flush fitted to the opening and have uniform gap spacing around the perimeter of the doors. Each door shall be finished with white cabinet liner laminate on the inside and the same colored mica as the cabinet face on the outside.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**HINGE ORIENTATION:** The doors shall be hinged along the outside edge of each door.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**C-HANDLES:** The door shall be fitted with a four inch wire pull with a brushed chrome finish.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**ADJUSTABLE SHELF:** A shelf shall be supplied in the cabinet. The shelf shall be finished in white colored laminate. Upper, lower and aisle side surfaces of the 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**SQUAD BENCH:** A squad bench shall be installed on the curbside of the patient compartment. The number of seating locations shall be installed as described in the options following this general heading specification. 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

WASTE CONTAINER: One six quart (346 cubic inch), rimmed plastic waste container shall be supplied and fitted into the "Bio-waste" enclosure.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

SQUAD BENCH LIDS: Two (Split) squad bench lids shall be supplied over the squad bench storage area.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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. The net shall be tightly stretched and attached at two points on each of the following surfaces:

The floor at head of squad bench

The curb side wall

The ceiling.

All Restraint Net attachment devices shall be aviation quality and pull strength tested. A 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**STAIR CHAIR/ STORAGE CABINET:** The cabinet behind the attendant seat shall be constructed the same as the other interior cabinets and covered in the same high pressure laminate and color as the other interior cabinetry. This cabinet shall be a cover to the exterior compartment that stores the stair chair as noted in the compartment section of this specification.

Bidder Complies exactly as written    Yes\_\_\_\_\_ No\_\_\_\_\_

**CABINET "A":** An upper, interior cabinet shall be provided directly over the rearward section of the Base wall cabinet. This cabinet shall feature two fixed dividers that is set back from the cabinet face. The position of the dividers shall divide the cabinet evenly. This cabinet shall accommodate a power air exhaust blower with a removable service panel. Must meet current Federal specification KKK-A-1822.

Bidder Complies exactly as written    Yes\_\_\_\_\_ No\_\_\_\_\_

**SLIDING POLYCARBONATE DOORS:** The cabinet shall be equipped with three sliding 3/16" polycarbonate doors within a closed anodized aluminum track/frame. The center door shall slide in the outer track and the outer two doors shall ride in the inner track. The door overlay area shall align with the fixed cabinet dividers.

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.

Bidder Complies exactly as written    Yes\_\_\_\_\_ No\_\_\_\_\_

**HANDLES, LEXAN WINDOW 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.

Bidder Complies exactly as written    Yes\_\_\_\_\_ No\_\_\_\_\_

**CABINET "B":** An upper, interior cabinet shall be provided directly over the "Action Area". This cabinet shall feature a fixed divider that is set back from the cabinet face. The position of the divider shall be centered. Must meet current Federal specification KKK-A-1822.

Bidder Complies exactly as written    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.

Bidder Complies exactly as written    Yes\_\_\_\_\_ No\_\_\_\_\_

**HANDLES, LEXAN WINDOW 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

CABINET "C": An upper, interior cabinet for storage shall be provided directly over the "Action Area". Must meet current Federal specification KKK-A-1822.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

SIMPLEX LOCK: There shall be a push button and turn knob simplex style lock on the above mentioned cabinet door. There shall be a generic combination that is included in the vehicle owner's manual with instructions on how this agency can change it to our unique code.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

C-HANDLES: The door shall be fitted with a four inch wire pull with a brushed chrome finish.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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 3.3 square feet. The work area height shall be 15 inches to 17 inches. The work surface shall have a three quarter inch (3/4") high lip.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**ACTION AREA SURFACE TYPE:** The action area shall be finished with the primary color laminate.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**ADJUSTABLE SHELF:** A shelf shall be supplied in the cabinet. The shelf shall be finished in white colored laminate. Upper, lower and aisle side surfaces of the 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**CABINET "D-1":** An interior cabinet shall be provided at the rearward end of the base cabinet on the street side. This multipurpose cabinet interior shall be finished in high impact, white colored mica that is impervious to disinfectants and cleaners. The cabinet shall add at least 2.2 cubic feet of interior stowage accommodations described in Federal specification KKK-A-1822E 3.11.1.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**ADJUSTABLE SHELF:** A shelf shall be supplied in the cabinet. The shelf shall be finished in white colored laminate. Upper, lower and aisle side surfaces of the 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**HANDLES, LEXAN WINDOW 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

COMPARTMENT INTERIOR ACCESS: The compartment shall not be accessible through the INSIDE of the module.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

CABINET "D-2": An interior cabinet shall be provided at the rearward end of the base cabinet on the street side. This multipurpose cabinet interior shall be finished in high impact, white colored mica that is impervious to disinfectants and cleaners. The cabinet shall add at least 2.2 cubic feet of interior stowage accommodations described in Federal specification KKK-A-1822.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

ADJUSTABLE SHELF: A shelf shall be supplied in the cabinet. The shelf shall be finished in white colored laminate. Upper, lower and aisle side surfaces of the 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

HANDLES, LEXAN WINDOW 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

CABINET "E-1": An interior cabinet shall be provided above the primary patient within the base wall cabinet on the street side. This multipurpose cabinet's interior shall be finished in high impact, white colored laminate. Must meet current Federal specification KKK-A-1822.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

ADJUSTABLE SHELF: A shelf shall be supplied in the cabinet. The shelf shall be finished in white colored laminate. Upper, lower and aisle side surfaces of the 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**HANDLES, LEXAN WINDOW 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**CABINET "E-2":** An interior cabinet shall be provided above the primary patient within the base wall cabinet on the street side. This multipurpose cabinet's interior shall be finished in high impact, white colored laminate. Must meet current Federal specification KKK-A-1822.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**ADJUSTABLE SHELF:** A shelf shall be supplied in the cabinet. The shelf shall be finished in white colored laminate. Upper, lower and aisle side surfaces of the 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**HANDLES, LEXAN WINDOW 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

CABINET "F": An interior cabinet shall be provided above the "Action Area" within the base wall cabinet on the street side. This multipurpose cabinet's interior shall be finished in high impact, white colored laminate. This cabinet shall feature a fixed divider that is set back from the cabinet face. The position of the divider shall be centered. Must meet current Federal specification KKK-A-1822.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

HANDLES, LEXAN WINDOW 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

CYLINDER VIEWING WINDOW: Cylinder access shall be supplied per current Federal specification KKK-A-1822. The sliding viewing window provided herein shall allow access to the cylinder valve.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

RESTRAINT SYSTEM(S): The Seat Belt System(s) shall be in the following locations:

MULTI POINT RESTRAINTS: There are to be two P-6 restraints on the Squad Bench.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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).

Bidder Complies exactly as written 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 vinyl floor with diamond plate like impression on the surface. The floor covering shall be Lonseal Lonplate II No 421 "Mica" (Light Gray).

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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 edge. There shall then be a .125" aluminum sheet that is full width of the rear door area and mate to the top of the rear access door jamb and cover at least six inches of flooring. Yellow Speedliner coating shall be applied to the top surface of the aluminum sheet.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**C/S THRESHOLD:** The C/S threshold shall be made of .100 polished aluminum diamond plate.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

## COT MOUNT HARDWARE

**PRIMARY COT MOUNT:** The main cot mount shall be a single position, Stryker model No 6390. Power Load System

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**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 AMD. Standard 004 utilizing lesser materials.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

COT LOCATION No 1: 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 KKK-A-1822E 3.10.4

Bidder Complies exactly as written 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 Huck fasteners.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

PRIMARY COT: The aforementioned cot fastener shall be set up to use a Stryker Power-Pro Cot Model.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

COT HOOK: A Stryker Cot hook for the power load system of solid aluminum shall be through bolted to the power load system near 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 in to 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

## 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.

Bidder Complies exactly as written 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, (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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

LOCATION: The Oxygen outlet shall be located in the primary action area switch and outlet console.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

LOCATION: The Oxygen outlet shall be located in the primary action area switch and outlet console.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

LOCATION: The Oxygen outlet shall be located in curb side wall, over the squad bench and near the curbside entry door.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**PORTABLE CYLINDER BRACKET No 1:** A Ferno Washington model 521 or a 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.

Bidder Complies exactly as written    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.

Bidder Complies exactly as written    Yes\_\_\_\_\_ No\_\_\_\_\_

**MAIN CYLINDER RESTRAINT No 1:** One user supplied M-size compressed, medical gas cylinder shall be carried and secured, vertically inside the left front exterior compartment. The cylinder rack shall be through bolted to the back wall. A rust-free cylinder rack with (3) heavy duty ratchet style, web straps. The cylinder valve shall also be visible and accessible from the inside through a clear polycarbonate door.

Bidder Complies exactly as written    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.

Bidder Complies exactly as written    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.

Bidder Complies exactly as written    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.

Bidder Complies exactly as written    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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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 installed per manufacturers recommendations. The retention bracket when installed per directions is SAE J3043 retention testing compliant.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**COLLECTION JAR PLUMBING:** The collection jar shall be connected directly to the regulator panel in the action area console.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**EMERGENCY INTERIOR LATCH RELEASE:** There shall be a red tipped lever to activate a rotary latch at both the top and bottom interior of each patient access door. These shall be used should the door rods become unattached from either the handle or latch assembly. The mechanisms shall be at the point of latching to the nader pin.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

#### **ENTRY DOOR PANELS / WINDOWS / HARDWARE**

**INTERIOR GRAB HANDLE COLOR:** The interior grab handles listed below will be powder coated with anti-microbial, yellow in color.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**CURB SIDE ENTRY DOOR GRAB HANDLE:** The curbside entry door shall be equipped with a two point, 1 ¼ diameter, stainless steel with yellow anti-microbial coating, handicap style grab handle to aid in door closure and entry assistance. The handle shall measure at least eighteen inches long.

The handle shall run horizontally, directly above the inside door latch. The door handles shall be fastened directly to the horizontal door structure that is welded to the door assembly.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**REAR ACCESS DOOR GRAB HANDLES:** Each rear access door shall be equipped with a two point, 1 ¼ diameter, stainless steel with yellow anti-microbial, handicap style grab handle to aid in door closure and entry assistance. The handle shall measure at least ten inches long. The handle shall run horizontally, directly above the inside door latch. The door handles shall be fastened directly to the horizontal door structure that is welded to the door assembly.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**DOOR PANELS:** The inside UPPER door panels shall be made of .080 aluminum diamond plate. The edges of the diamond plate shall be recessed into the door frame extrusion. The center panel shall be upholstery over a smooth aluminum substrate.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**CURBSIDE LOWER DOOR PANEL:** The inside door panel shall be made of .080 aluminum diamond plate. The edges of the diamond 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 an neoprene lock washer.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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 be fixed position. All glass shall be tinted safety glass.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**LOCATION:** The light shall be mounted to the action area.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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 Blue. A sample of the actual color shall be submitted with the bid for approval.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**FULL CUSHIONS:** The post and wheel cups normally placed on the squad bench for secondary stretchers shall be DELETED in favor of full seat cushions without cutouts. The seat cushions shall be the same size as the squad bench lid and WITHOUT cutouts. The user chooses to use a backboard in lieu of a stretcher for a secondary patient.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**CLOCK:** An Emergency Time manager is defined as a 24-hour clock and timer designed to assist Emergency medical personnel with time management. The time Manager shall provide four functions:

Time of day in hours and minutes

LED sweep second hand shall sweep around the hour and minute display

Elapsed time in hours and minutes

4-alarm timers in 1, 2, 5, and 10 minute increments

The clock size shall be approximately 4 3/4" high by 6 3/4" long with a second hand sweep of 3 1/2" diameter. The main digital display shall have 1/2" high characters. The four digit display shall operate in three modes; "time of day", "Elapsed time" and "timer" mode. In "time of day" and "Elapsed time" mode, the display will show hour and minutes. In "Timer" mode, an audible alarm shall sound when timer reaches zero.

The clock shall feature power consumption protection, whereas, the clock display shuts down, 20 minutes after the vehicle's engine is shut down and charging voltages are not present. The display shall come back on when the engine is restarted.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

## **PAINT**

**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.

Bidder Complies exactly as written 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."

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**COMPARTMENT FINISH:** Unless specified otherwise, all exterior compartment walls and backs shall be constructed of .100 polished aluminum diamond plate.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**REFLECTIVE / PRISMATIC TAPE:** The aforementioned center step shall have a bright conspicuous prismatic, reflective tape strip applied the rearward facing edge of the step. The tape shall have alternating colors (Red and White). The tape color shall begin and end in Red, and each segment shall measure between seven and nine inches.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**REFLECTIVE STRIPE:** There shall be a eleven inch tall reflective stripe installed on the chassis cab and module in a straight manner at approximately the belt line of the overall unit. This main stripe is to provide nearly continuous safety identification to the sides and rear of the ambulance while in use.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**REFLECTIVE MAIN STRIPE:** The main reflective stripe on the chassis cab sides and module sides and rear shall be reflective orange.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**PIN STRIPE:** The aforementioned paint belt shall be bordered with 1/4" wide automotive pin stripe tape. The tape shall be reflective blue in color. The tape shall be firmly pressed onto the paint, on the center of the color change joint.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**ROOF PAINT:** Color match to sides, top finish to exceed industry standard of 5 plus mill thickness.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**STRIPING AREA:** The Rear of the modular body above the rear Kickplate and including both the area outboard and above including the rear entry doors shall include:

**REAR CHEVRON:** The reflective material shall be installed in an offset pattern so two stripes are reflective orange and white that alternate.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**DECALS:** The vehicle will have a 11" orange reflective stripe even over Chevrons on the rear from left front fender to right front fender. The DOT KKK star of life kit shall be installed. The custom Neshoba logo and decals shall be furnished and installed. Decals must match current fleet. Bidders are encouraged to inspect fleet and measure decals before bidding.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**ROOF STAR OF LIFE:** There shall be installed on the module roof a reflective star of life symbol large sized to meet state of MS requirements.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

MANUFACTURER LOGOS; There shall be self-adhesive logos provided and installed for the unit.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

FIRE EXTINGUISHER: One (5) five pound A-B-C type fire extinguisher shall be supplied loose with the vehicle on delivery.

Bidder Complies exactly as written 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.

Bidder Complies exactly as written 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 tpi threaded male connector for the input hose to the system.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

AMBULANCE STRETCHER: The ambulance shall be supplied with a Stryker 6506 Power-Pro Cot:

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

CHARGING SYSTEM: Shall be Smart Chip 12v system.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

COT SIDE RAIL: There shall be installed on the cot an XPS side rail system to provide expanded support surface for the patient retention.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

Cot Option: Stryker, IV Pole 3 Stage, Patient Right Side

Cot STD: Stryker, Trendelenburg Feature

Cot Option: Stryker, Equipment Hook

Cot Option: Stryker, Pocketed Backrest Pouch 6500-130-000

Cot Option: Stryker, Mattress, Bolster

Cot Option: Stryker, Fowler O2 Bottle Holder 6500-241-000

Cot Option: Stryker, Restraint Package, Standard

Cot Option: Stryker Wheel Lock, Dual Adjustable 6086-602-010

Cot Option: Stryker Hook, "J" Hook

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**PATIENT COT INERFACE TO POWER LOAD:** The patient cot shall have this upgrade item ordered at time of cot order, to install the interface between the patient cot and the Stryker power load system. This option does not provide for the power load system.

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**DELIVERY:** The vehicle shall be delivered upon its own power to Philadelphia, MS

Bidder Complies exactly as written Yes\_\_\_\_\_ No\_\_\_\_\_

**PAYMENT TERMS:** Upon delivery and receipt of the complete unit Neshoba County will present payment of EMSOF Grant funds by check in the amount of \$18,001.00 to the vendor. Because the unit is a lease purchase the remainder of funds will be wired from the lease purchase provider for this solicitation. Upon receipt of the purchase order for the purchase of this unit the vendor will provide wiring instructions for final payment. An invoice is required upon delivery or in advance of delivery to ensure the most expeditious processing for final payment from the lease purchase provider.

Bidder Complies exactly as written YES\_\_\_\_\_ NO\_\_\_\_\_

**WARRANTY:** There shall be a minimum of a 7-year or 70,000 mile warranty covering all paint and conversion work done on the OEM chassis. Lifetime warranties that are general and not specific will not be satisfactory to Neshoba County. A copy of said warranty shall be enclosed in the vendor's proposal. The Body Structure Warrantee shall be for a minimum of 20 years.

Bidder Complies exactly as written YES\_\_\_\_\_ NO\_\_\_\_\_

**WARRANTY CENTERS:** Bidders shall have at least two established warranty centers located within 225 miles from Philadelphia, MS. Both warranty centers shall have been established for at least five years from date of bid opening. At least one of the warranty centers shall have a complete paint and body shop in addition to an adequate supply of parts and technicians to satisfactorily complete any needed repairs bumper to bumper.

Bidder Complies exactly as written YES\_\_\_\_\_ NO\_\_\_\_\_



**LIST WARRANTY CENTERS**

COMPANY NAME: \_\_\_\_\_

ADDRESS\_\_\_\_\_

CITY, STATE, ZIP \_\_\_\_\_

CONTACT \_\_\_\_\_

PHONE (\_\_\_\_\_)\_\_\_\_\_

FAX (\_\_\_\_\_)\_\_\_\_\_

COMPANY NAME: \_\_\_\_\_

ADDRESS\_\_\_\_\_

CITY, STATE, ZIP \_\_\_\_\_

CONTACT \_\_\_\_\_

PHONE (\_\_\_\_\_)\_\_\_\_\_

FAX (\_\_\_\_\_)\_\_\_\_\_

Bidder Complies exactly as written YES\_\_\_\_\_ NO\_\_\_\_\_

Signature required verifying above statement \_\_\_\_\_

**NESHOBA COUNTY BID FORM**

**AMBULANCE BID PROPOSAL FORM**

Bid Date: June 19, 2017

Bid Time: 11:00 AM

**We are pleased to submit the following bid for:**

\_\_\_\_\_  
\_\_\_\_\_

YEAR MODEL: \_\_\_\_\_ AMBULANCE MFG: \_\_\_\_\_

PRICE COMPLETE, AS SPECIFIED: \$ \_\_\_\_\_ (per vehicle)

F.O.B. POINT: **DELIVERED TO PHILADELPHIA, MS**

DELIVERY (Calendar Days Only): \_\_\_\_\_

BID IS: \_\_\_\_\_ as per specifications, taking no exceptions.

\_\_\_\_\_ taking only those specifications exceptions listed by letter attached and referenced to  
page numbers specified (no alternate bids accepted)

NAME OF BIDDER: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY, STATE, ZIP: \_\_\_\_\_

TELEPHONE: \_\_\_\_\_ TOLL FREE: \_\_\_\_\_

PERSON TO CONTACT REGARDING THIS BID: \_\_\_\_\_

The undersigned bidder agrees that the signature submission of this bid represents the bidder's acceptance of all terms, conditions, and requirements of bid specifications and, if awarded, the bid will represent the agreement between the parties. Additionally, by signing this bid, the bidder warrants that there was no collusion of any kind in submission of this bid.

SIGNED: (sign manually, in ink) \_\_\_\_\_

NAME PRINTED: \_\_\_\_\_ TITLE: \_\_\_\_\_

## **LEASE PURCHASE SOLICITATION**

The Neshoba County Board of Supervisors on behalf of Neshoba County, Mississippi and the Neshoba County Ambulance Enterprise is soliciting Lease Purchase Proposals for the Ambulance to be acquired under the aforementioned Bid Specifications.

The anticipated cost of this Ambulance is not expected to exceed a maximum cost of \$175,000 but the actual bids received will determine the final lease purchase amount. Because this ambulance is being acquired, in part, with funds from the Mississippi Emergency Medical Services Operating Fund Grant to Neshoba County, said grant funds in the amount of \$18,001.00 will be applied toward the acquisition of this ambulance with the remainder of the total cost to be financed. Anticipated build and delivery time could be as much as 90 to 120 days or more for this unit and vendors proposing lease purchase financing should be aware of this possibility. In response to this solicitation please provide a detailed proposal for lease purchasing the Ambulance to be acquired under this bid with a 36 month term (36 monthly payments) and the Interest Rate. To help determine the approximate monthly cost to be expected for this lease purchase please provide a rate factor assuming 36 monthly payments of the principal amount financed.

Please provide a complete proposal indicating any additional information and/or requirements necessary in response to this solicitation. Please respond to this solicitation as instructed in the Instructions to Bidders portion of the Advertisement for Bids.