

# Barrow County Board of Commissioners

30 North Broad Street Winder Georgia 30680 Phone: (770) 867-1977 Fax: (770) 307-3141

Cindy F. Clack  
Purchasing Agent



## MEMORANDUM

**To:** Parties Interested In RFB2015-7

**From:** Cindy Clack

**Date:** 12/17/2014

**Re:** RFB2015-7 – Emergency Medical Vehicles

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RFB2015-7 is attached for your consideration. Anyone accessing this Request for Bid from the Barrow County web site is responsible to insure the latest documents are in their possession including any addenda. All addenda, questions and answers will be posted on this site. ***This site should be visited frequently to insure an awareness of any updates.***

Please insure bids are submitted exactly as specified in the RFB. If you have any questions, please submit them in writing to the Barrow County Purchasing Agent as called for in the RFB.

Thank you.



**Barrow County Board of Commissioners  
30 North Broad Street  
Winder, GA 30680**

**REQUEST FOR BID  
RFB2015-7**

**EMERGENCY MEDICAL VEHICLES  
PER SPECIFICATIONS**

**BARROW COUNTY, GEORGIA**

**DECEMBER 17, 2014**

**REQUEST FOR BID**

**RFB2015-7**

**BARROW COUNTY, GEORGIA**

Date: December 17, 2014

PURPOSE:

The purpose of this request is to provide interested suppliers with the sufficient information to enable them to submit a uniform bid for the County's review. Also, to set-forth a systematic method that will be fair and impartial to all parties concerned and to generate a response that can be equally evaluated by the County.

GENERAL:

Barrow County is in the process of securing sealed bids for two (2) New Dodge 4500 Emergency Medical Vehicles or Equivalent per attached specifications and equipment list (Exhibit A) for the Barrow County Fire and Emergency Services. Special attention should be given to the technical schedule and conditions below.

Regular Bid: Each supplier must comply with all requirements for a regular bid as directed or required by this notice. Notice is hereby given to all suppliers that if their bids are defective or irregular, the same may be rejected immediately.

Uniform Bid: To facilitate comparative analysis and evaluation of quotations, it is desired that a uniform format be employed in structuring each bid. The required format will coincide with specifications given later in this notice. The supplier's degree of compliance with the requirements of this notice will be a factor in the subsequent evaluation and award of contract for these items. All instructions are to be considered an integral part of the RFB.

Right to Reject Any or All Bids: Barrow County reserves the right to reject any or all bids, to waive technicalities or informalities, and to accept any bid deemed in the best interest of the county. Where two or more suppliers are deemed equal, the County reserves the right to make the award to one of the suppliers.

Firm Price: Prices quoted by supplier shall be firm prices, and not subject to increase during the schedule hereinafter set-forth and shall not include Federal or State Tax.

Right to Submitted Materials: All responses, inquires, or correspondence relating or in reference to this schedule, exhibit, and other documentation by the supplier shall be properly identified as to supplier and will become the property of the County when received. Supporting technical manuals will be returned at the request of the supplier. Selection of a suppliers bid does not affect this right.

**INQUIRIES:** Bidders **shall not** contact any members, or employees, of the Barrow County Board of Commissioners or any Barrow County Elected Officer or employee of Barrow County Elected Officer, regarding this RFB, bid evaluation, or selection process from the time the RFB is issued until the time a notification of intent to award is announced. **Questions relating to this RFB must be submitted in writing to: Cindy Clack, Purchasing Agent (email: [cclack@barrowga.org](mailto:cclack@barrowga.org)).** The deadline for submission of questions relating to this RFB shall be 5:00 p.m., Friday, January 2, 2015. All questions submitted in writing prior to the deadline will be compiled, answered in writing and posted to the website [www.barrowga.org](http://www.barrowga.org) as an addendum to the RFB.

**SEALED QUOTATIONS:** An original (un-bound) and four copies of the bid must be submitted in a sealed envelope, addressed to Owner. Each sealed envelope containing a bid must be plainly marked on the outside with **“RFB2015-7 – Emergency Medical Vehicles”**. If a bid is forwarded by mail, the sealed envelope containing the bid must be enclosed in another envelope to the attention of the Owner at the address previously given and also plainly marked with **“RFB2015-7 – Emergency Medical Vehicles”**. The county will not be responsible for late mail deliveries and no bid will be accepted if received after the time stipulated by this RFB. No bid may be withdrawn or modified in any way after the deadline for RFB opening. **FAILURE TO COMPLY WITH THE ABOVE INSTRUCTIONS WILL DISQUALIFY BID QUOTE.**

**PROPOSALS SHALL BE SUBMITTED TO:**  
**Barrow County Board of Commissioners**  
**Clerk’s Office**  
**30 North Broad Street**  
**Winder, GA 30680**

**EVENTS:** Sealed bids will be accepted in the Clerk’s Office, no later than **12:00 Noon, Thursday, January 15, 2015.** Bids will be opened and read aloud in the Main Floor Conference Room at 30 North Broad Street, Winder, GA 30680 at 2:00 p.m. on January 15, 2015. All bids will be evaluated and the project will be awarded, if it is awarded, within 120 days of the bid opening. These prices will be good for 120 days from this date.

**The following dates and times apply to this RFB:**

Issue Request for Bid -----	December 17, 2014
Deadline for Questions -----	January 2, 2015 (5:00 p.m.)
Bid Due Date -----	January 15, 2015 (12:00 p.m.)
Bid Opening -----	January 15, 2015 (2:00 p.m.)

**DOCUMENTS:** The following documents are included in this Request for Bid:

- Memo (1 Page)
- Request for Bid (4 Pages)
- Specifications (48 Pages)
- Bid Form (3 Pages)

**BID CONTENT:** Please include the following documents with your submittal (*an original unbound and four copies*):

- Bid Form (included in the RFB)
- Specification Requirement (Yes/No) Document (included in the RFB)
- Manufacturer Specifications
- Descriptive Literature

**DELIVERY TIME:** *Please advise number of days from the date of order in which delivery can be expected.*

**TECHNICAL REQUIREMENTS:** The technical requirements are normally given as generic in nature, where a company's part is listed, no exceptions or substitutions will be accepted, unless stated otherwise in the RFB.

**PAYMENT:** Payment will be made Net 10 Days from date of receipt of equipment. No monies will be paid up front with the order. Bidder agrees to render invoice electronically ([payables@barrowga.org](mailto:payables@barrowga.org)). Bidder agrees to accept the Barrow County Purchase Order Form to execute the actual purchase of equipment; no other contract document will be generated for the purchase.



[BARROW COUNTY EMERGENCY  
SERVICES]  
[SPECIFICATION FOR MEDICAL APPARATUS]

[BARROW COUNTY EMERGENCY SERVICES]

## **GENERAL CONDITIONS**

**PURCHASER:** The "Purchaser" who is hereinafter referred to as the "County" AND has been charged with the responsibility of purchasing two (2) Emergency Medical Vehicles.

**BIDDER:** The "Bidder" is hereinafter defined as the ambulance manufacturer and/or it's authorized Representative/Dealer.

## **BIDDER'S INSTRUCTIONS**

Bidders shall thoroughly examine all drawings, specifications, schedules, instructions and any other documents supplied as part of this invitation to bid and shall make all investigations necessary to thoroughly inform themselves regarding the content of the written specifications, drawings, and instructions supplied herein. No plea of ignorance by the bidder pertaining to the content of the specifications, drawings, schedule, or instructions will be considered by the purchaser on the deadline, if 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 AND 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 purchaser or compensation to the bidder.

## **PURCHASER'S INTENT**

The intent of the specifications supplied herein is to purchase an ambulance with the highest level of quality and engineering excellence. The intent of this vehicle is centered on the patient's need for pre-hospital care, in conjunction with a safe working environment for the Emergency Medical Personnel.

## **PRODUCT TESTING**

**AMBULANCE MANUFACTURER'S DIVISION:** The Bidder shall be a member in good standing with the National Truck Equipment Association (N.T.E.A.) and the Ambulance Manufacturer's Division (A.M.D.) of N.T.E.A. The bidder shall supply a letter with the bid response to verify current membership in both the N.T.E.A. and the A.M.D.

### **AMD STANDARD 001: STATIC LOAD TEST**

A.M.D. 001 - MANUFACTURERS' BODY STRUCTURE TESTING: The ambulance described herein shall be tested to the National Truck Equipment Association's Ambulance Manufacturer's Division, AMD Standard 001 - Static Load Test, except the test weight shall be at least 32,000 pounds. The test results shall be certified by an independent engineering firm not directly associated with the Ambulance Manufacturer. These certified test results shall be supplied to the purchaser upon request.

### **KKK-A-1822F TESTING CERTIFICATION**

The bidder shall provide documentation within this bid, which verifies that all KKK-A-1822F testing is current and certified by an independent engineering firm.

### **QUALITY ASSURANCE - SPECIFICATION COMPLIANCE**

The manufacturer shall inspect and test all systems and electrical loads per Federal specification KKK-A-1822F Section 4. Testing results shall be documented and displayed in the oxygen compartment and supplied with the vehicle delivery handbook.

NOTE: The purchaser will have zero tolerance towards bidder/vendors who state compliance to specification, but delivers an incomplete product and/or substandard materials and workmanship.

### **NON-COLLUSIVE BID CERTIFICATION**

By submission of this bid response, the Bidder and/or Bidder's authorized representative(s), certify under penalty of perjury, to the best of their knowledge and belief the following:

A. The prices in this 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.

### **DEBARMENT STATUS**

By submission of this bid response, the Bidder and/or its authorized representatives, certify under penalty or perjury, that to the best of their knowledge and belief they are not currently debarred from submitting bids or bidding on contracts from any agency within the home state of the purchaser, nor are they an agent of any person or entity that is currently debarred from submitting bids on contracts by any agency within the home state of the purchaser.

### **REQUIRED DELIVERY ITEMS**

REQUIRED DELIVERY ITEMS: Upon a successful bid award, the vendor shall provide the following to the purchaser, upon ambulance delivery:

1. Manufacturer's Quality Assurance Vehicle Testing and acceptance documents.
2. One (1) copy of conversion parts, service, and operational manuals.
3. OEM Chassis Owner's Guide materials as provided by the chassis manufacturer.
4. Two (2) copies of "as built" customized electrical schematics for the ambulance conversion.

### **FORCE MAJEURE**

The bidder shall not be charged with liquidated damages or any excess cost when delay in delivery of goods is due to:

Any preference or priority of an allocation order duly issued by a government agency.

Unforeseeable cause beyond the control and without the fault, of the ambulance manufacturer, or acts of God or of the public enemy, acts of the purchaser, acts of another contractor in the performance of a contract with the purchaser, fire, flood, epidemics, quarantine restrictions, strikes, freight embargoes, and unusually severe weather; and;

Any delays of subcontractors occasioned by any of the causes specified in the two immediately preceding clauses.

## **EXCEPTIONS**

The following apparatus specifications are considered minimum design and construction standards against which the apparatus will be inspected. It is the intent to receive bids on equipment/apparatus meeting the attached detailed specifications in their entirety. Any bid submitted, without "Full Compliance" with these specifications shall so state on the bid form, followed by a detailed "Letter of Exceptions" listing the areas of non-compliance. The reference must include page number, paragraph, and the exact nature of the exception.

Failure to follow this format, provided for the convenience of the Purchaser, will render the vendor's proposal non-responsive and ineligible for award of contract.

The Purchaser may add the statement "No Exception" to a component or design feature in these specifications. In the interest of fleet conformity or specific performance requirements, the Purchaser will not permit exceptions taken to these item(s). The Purchaser reserves the right to reject any or all bids and purchase the equipment it deems most suitable to its needs. The Purchaser does not, in any way, obligate itself to accept the lowest or any bid. Any bidder taking total exception to the complete specification or a major element will result in immediate rejection of the bid.

## **SERVICE REQUIREMENTS**

Each bidder shall supply, with their proposal, detailed information on the bidder's ability to perform routine and emergency service on the apparatus after delivery. Detailed information shall be provided on service facilities, personnel, service vehicles, and the type and nature of repair work the bidder is able to provide. **Bidder shall state the number of miles from the Purchaser's facility to the nearest fully staffed repair facility operated by the bidder.** It is the intent of the Purchaser to assure that parts and service are readily available for the equipment specified. **Service capabilities will be one of the criteria for award of this contract.**

## **PRE-CONSTRUCTION CONFERENCE**

A pre-construction conference shall be held at the Barrow County Fire Headquarters Station, located at 222 Pleasant Hill Church Road, Winder, Ga. 30680 prior to the final order being released by the manufacturer. Those in

attendance shall include members from the Barrow County Fire and Emergency Services and representatives from the successful manufacturer.

**Pre-Delivery Inspection Trip**

A pre-delivery inspection trip for up to three (3) representatives from the Barrow County Fire and Emergency Services shall be held at the successful manufacturer’s facility prior to the completed truck being delivered. This trip shall take place when the truck is 100% complete and ready for delivery. The trip shall consist of a minimum of three (3) days that include; one (1) day travel to the manufacturer’s facility, one (1) full day of inspection at the manufacturer’s facility and one (1) day travel back to Barrow County, Georgia. If the manufacturer’s facility is more than 300 miles from Winder, Georgia, the means of transportation shall be commercial airline travel. If commercial airline travel is used, flight schedules must be made so that flights depart and return thru Hartsfield-Jackson International Airport in Atlanta, Georgia. Departing flight’s to the manufacture’s facility shall be scheduled on either Monday or Tuesday of the week and leave between the hours of 8:00 a.m. and 2:00 p.m. Eastern Standard time. Return flights back to Atlanta shall be scheduled on Wednesday, Thursday or Friday of the week and return no later than 8:00 p.m. Eastern Standard time. Travel and inspection time will not be allowed on weekends or Holidays. All expenses (including travel, meals and lodging) shall be the responsibility of the successful manufacture.

**EMERGENCY MEDICAL VEHICLE SPECIFICATIONS**

TYPE I - AMBULANCE - CHIEF XL I - 72" INTERIOR HEADROOM Y\_\_N\_\_

SPECIFICATION INTENT: Type I, 169-inch module, constructed with not less than 72-inches interior module height, an overall length of 306.50-inches, an overall width of 98-inches, and an overall height not to exceed 110-inches.

CHASSIS - RAM 4500 192" WB 4x2 Y\_\_N\_\_

2015 Retail Ram 4500 2WD Reg Cab 192" WB 108" CA SLT DP4L65

**SELECTED MODEL AND OPTIONS**

Sales Code Description  
DP4L65 2015 Ram 4500 2WD Reg Cab 192" WB 108" CA SLT  
NAS 50-STATE EMISSIONS

ETK ENGINE: 6.7L I6 CUMMINS TURBO DIESEL -inc: 4.10 Rear Axle Ratio, Cummins Turbo Diesel Badge, 87 mph Maximum Speed, Current

Generation Engine Controller, Diesel Exhaust Brake, Selective Catalytic Reduction (Urea), RAM Active Air (With the selection of NAS, requires XKH)

DF2 TRANSMISSION: 6-SPEED AUTOMATIC AISIN AS69RC HD  
(Requires ETK)

29G QUICK ORDER PACKAGE 29G -inc: Engine: 6.7L I6 Cummins Turbo diesel, Transmission: 6-speed automatic Aisin AS69RC HD, Cloth Bucket Seats, Overhead Console, Power Black Trailer Tow Mirrors, Front 1-Touch Down Power Windows, Body Insulation, Exterior Mirrors w/Heating Element, Power Locks, Front Floor Mats, Bright Front Bumper, Temperature & Compass Gauge, Exterior Mirrors Courtesy Lamps, 1-Year SIRIUSXM Radio Service, Color Keyed Instrument Panel Bezel, Exterior Mirrors w/Supplemental Signals, For More Info, Call 888-539-7474, SLT Badge, Premium Vinyl Door Trim w/Map Pocket, Remote Keyless Entry, Bright Grille, Traveler/Mini Trip Computer, 6 Speakers  
\*Upon selection of this pkg, the cost of powertrain components will be added\* (requires DF2 and ETK)

**AH2 AMBULANCE PREP GROUP -Inc. 220 Amp-Alternator, Electronic**

DMF 4.10 AXLE RATIO

WP3 WHEELS: 19.5" X 6" STEEL (STD)

TUY TIRES: 225/70R19.5G ALL-POSITION, FT/RRTRACTION

PW7 BRIGHT WHITE CLEARCOAT STANDARD PAINT

V9X8 DIESEL GRAY/BLACK, CLOTH

Z4A GVWR: 16, 5000 LBS (STD) Monitoring Module, Voltage monitor Auto Idle Up Sys

ADE COLD WEATHER GROUP -Inc: engine block heater, winter front grille cover

XF7 DUAL ALTERNATORS RATED AT 440 AMPS -Inc: 220 Amp Alternator (Requires ETK)

BAJ 220-AMP ALTERNATOR

NHK ENGINE BLOCK HEATER

TBB FULL SIZE SPARE TIRE -inc: 19.5" steel spare wheel

GFD SLIDING REAR WINDOW

LM1 LOW BEAM DAYTIME RUNNING HEADLIGHTS

CKJ BLACK VINYL FLOOR COVERING

XXS ELECTRONIC MONITORING MODULE (With the selection of RCK, requires AH2) (With the selection of RA4, requires AH2)

XF6 VOLTAGE MONITORING AUTO IDLE UP SYS  
CJT DELETE FRONT CENTER SEAT

**STANDARD EQUIPMENT - 2015 Retail DP4L65 2WD Reg Cab 192" WB  
108" CA SLT**

*ENTERTAINMENT*

- *Radio: Uconnect 3.0 AM/FM*
- *Radio w/Clock*
- *Fixed antenna*
- *SIRIUSXM Satellite Radio*
- *Media Hub (USB, AUX)*

*EXTERIOR*

- *Wheels: 19.5" x 6" steel*
- *Tires: 225/70R19.5G All Position*
- *Continental Brand Tires*
- *Front Bumper w/2 Tow Hooks*
- *Black Fender flares*
- *Black Side Windows Trim and Black Front Windshield Trim*
- *Black Door Handles*
- *Fixed Rear Window*
- *Light Tinted Glass*
- *Variable Intermittent Wipers*
- *Fully Galvanized Steel Panels*
- *Front license plate bracket*
- *Fully Automatic Aero-Composite Halogen Headlamps w/Delay-Off*
- *Cab Clearance lights*
- *87 mph Maximum Speed*
- *Tip Start*

*INTERIOR*

- *Vinyl Front Seats w/Vinyl Back Material*
- *4-Way Passenger Seat*
- *Manual Tilt steering column*
- *Gauges -Inc: Speedometer, Odometer, Voltmeter, Oil Pressure, Engine Coolant temp, Tachometer, Oil Temperature, Transmission Fluid Temp, Engine Hour Meter and Trip Odometer*
- *Cruise Control w/ Steering Wheel Controls*
- *Manual Air Conditioning*
- *Glove Box*

- *Full Cloth Headliner*
- *Urethane Gear Shift Knob*
- *Day-Night Rearview Mirror*
- *Passenger Visor Vanity Mirror*
- *2 12V DC Power Outlets*
- *Fade-To-Off Interior Lighting*
- *Full Floor Covering -inc. Front Floor Mats*
- *Electronically Controlled Throttle*
- *Instrument Panel Bin, Dashboard Storage and Driver and Passenger Door Bins*
- *Delayed Accessory Power*
- *Systems Monitor*
- *Redundant Digital Speedometer*
- *Analog Display*
- *Manual Adjustable Front Head Restraints*
- *40/20/40 Split Bench Seat*
- *Manual Adjust Seats*
- *Sentry Key Engine Immobilizer*

#### *MECHANICAL*

- *Engine: 6.4L V8 Heavy Duty HEMI MDS*
- *Transmission: 6-speed Auto Aisin AS66RC*
- *4.44 Rear Axle Ratio*
- *GVWR: 16,5000 lbs*
- *Transmission w/Driver Selectable Mode, Sequential Shift Control and Oil Cooler*
- *Rear-Wheel Drive*
- *Engine Oil Cooler*
- *730CCA Maintenance-Free Battery w/Run Down Protection*
- *180-amp alternator*
- *Towing w/Harness and Trailer Sway Control*
- *HD Shock Absorbers*
- *Front Anti-Roll Bar and Rear HD Anti-Roll Bar*
- *Hydraulic Power-Assist Steering*
- *52 Gal. Fuel Tank*
- *Single Stainless Steel Exhaust*
- *Leading Link Front Suspension w/Coil Springs*
- *Leaf Rear Suspension w/Leaf Springs*
- *4-Wheel Disc Brakes w/4-Wheel ABS and Front and Rear Vented Discs*
- *Upfitter Switches*
- *Mechanical Limited Slip Differential*

#### *SAFETY*

- *Electronic Stability Control (ESC)*
- *ABS and Driveline Traction Control*

- *Side Impact Beams*
- *Dual Stage Driver And Passenger Seat-Mounted Side Airbags*
- *Dual Stage Driver And Passenger Front Airbags*
- *Airbag Occupancy Sensor*
- *Outboard Front Lap and Shoulder Safety Belts -inc: Height Adjusters and Pretensioners*

**FUEL TANK - FULL UPON FACTORY RELEASE**

Y\_\_N\_\_

The chassis fuel tank of the completed unit shall be full at time of release from the ambulance manufacturer's facility.

**SUSPENSION - LIQUID SPRING**

Y\_\_N\_\_

A **CLASS®**, or Compressible **Liquid Adaptive Suspension System**, shall be provided and installed. Utilizing a strut, with a compressible fluid as the spring/damping medium, and its sophisticated on-board microprocessor, **CLASS®** adapts the entire vehicle's response to road variations and the driver. Unlike current steel and air sprung suspension systems, **CLASS®** can automatically and instantaneously change the spring stiffness and damping at each wheel over a very broad range with minimal power consumption while the vehicle is being driven and without driver intervention. The system shall include an automatic lowering feature, which is activated by opening the rear patient compartment doors. There shall be a switch near the rear doors which will defeat the lowering feature.

**SECOND ENGINE DRIVEN A/C COMPRESSOR**

Y\_\_N\_\_

A second Engine Driven A/C compressor shall be installed and dedicated the Module A/C with the exact location to be determined at the pre-construction conference.

**BRUSH GUARD**

Y\_\_N\_\_

A **black** brush guard shall be installed on the front bumper.

**INBOARD ARM RESTS**

Y\_\_N\_\_

Inboard arm rests shall be provided and installed for both the driver's and passenger's seats in the cab.

**BATTERY - TWO SYSTEM - D SERIES CHASSIS**

Y\_\_N\_\_

The vehicle shall have a 12 V two (2) battery system rated at 1460 cold cranking amps. Both batteries shall be securely installed in the OEM locations, under the vehicle hood.

**ENGINE BLOCK HEATER - OEM PLUG**

Y\_\_N\_\_

An engine block heater shall be included in the chassis with the 125 VAC power cord, located under the hood.

**FLOOR CONSOLE - ANGLED FRONT - REMOVABLE PLATES - ALUMINUM**

Y\_\_N\_\_

A center floor console manufactured out of aluminum and covered in a black onyx scratch resistant, multi-use polychromatic coating with a clear epoxy finish shall be installed in the cab. The console shall include a raised area to accommodate the Weldon Vista display on a hinged adjustable mount. The lower portion of the console shall consist of a flat area that shall contain the siren, two (2) drink holders, and then to the rear center a recessed storage area for maps and reports. The console face plates shall be removable for accessibility and serviceability.

**CHASSIS HEADLINER SUPPORT**

Y\_\_N\_\_

**HEAT SHIELDS**

Y\_\_N\_\_

Protective heat shields shall be installed above the exhaust system as recommended by the chassis manufacturer.

**MIRRORS, EXTERIOR OEM POWER TRAILER TOW MIRRORS**

Y\_\_N\_\_

The chassis shall have OEM foldaway power/heated trailer tow mirrors.

**RUNNING BOARDS - STAR PUNCHED DIAMOND PLATE**

Y\_\_N\_\_

Aluminum diamond plate running boards with a star punched non-skid surface shall be provided on the cab. The running boards shall be bright dip anodized after they are formed to retain finish and increase corrosion resistance.

**WHEEL SIMULATORS, STAINLESS STEEL WITH VALVE STEM EXTENSIONS**

Y\_\_N\_\_

Stainless steel full wheel simulators shall be provided for the front and the outside rear wheels. Air Max valve extensions shall be provided to properly inflate the inner dual rear tires.

**CHASSIS CONVERSION - SPECIAL OPTION**

Y\_\_N\_\_

**ELECTRICAL SYSTEM - WELDON V-MUX, MICRO PROCESSOR BASED**

Y\_\_N\_\_

A Weldon V-MUX 100% solid state microprocessor based multiplex system shall be installed to control the electrical functions. The system shall include load management, load shedding, power modulation, load sequencing capabilities and provide on-board diagnostics with real-time status reporting. The system shall consist of one (1) color control console (Vista) in the cab, one (1) color control console (Vista) in the patient compartment, four (4) control nodes (Hercules), and a cab warning display with video input and monitoring capabilities.

The system must be a Weldon V-MUX. No exception. Bidders who propose any other proprietary electrical system shall be considered as non-compliant.

**Documentation required with bid submission**

Bidder may be required to supply with his/her bid proposal, a listing of not less than 500 ambulances produced with the Weldon v-mux system within the past 5 years. The documentation shall include a production order number, the purchaser's agency name, and the date the ambulance was delivered.

**VISTA IV MCC - PUSH BUTTON**

Y\_\_N\_\_

A Weldon V-MUX Vista IV interface module / display screen shall be provided and installed in the cab. The Vista module shall be operated through the use of push buttons.

**VISTA IV ACP - PUSH BUTTON**

Y\_\_N\_\_

A Weldon V-MUX Vista IV interface module / display screen shall be provided and installed in the patient compartment. The Vista module shall be operated through the use of push buttons.

**WARNING DISPLAY - MULTIPLEX ELECTRICAL SYSTEM**

Y\_\_N\_\_

A digital warning display shall be integrated into the cab display console and programmed through the multiplex system to provide visual and audible indications for:

- Parking brake set condition
- Parking brake release condition
- Patient status alarm (four color with reset capability)
- Individual outside storage compartment "door open" warnings in vehicle outline form.
- Low voltage alarm
- Low oxygen pressure alarm

**DAYTIME RUNNING LAMPS - MULTIPLEX ELECTRICAL SYSTEM**

Y\_\_N\_\_

Headlights shall be activated at 30% intensity, for day time operation, when transmission is placed in drive, as a feature of the multiplex system. (if not standard on the chassis)

Y\_\_N\_\_

**MASTER CONTROL CONSOLE (MCC) - MULTIPLEX ELECTRICAL SYSTEM**

A floor mounted Master Control Console (MCC) shall be located in the cab. The console shall house the siren and the color microprocessor display screen, which will control all the Emergency Warning functions as well as also being able to control the Patient Compartment lighting and module heat/ac functions.

**ATTENDANT CONTROL PANEL (ACP) - MULTIPLEX ELECTRICAL**

Y\_\_N\_\_

The Attendant Control Panel (ACP) shall contain a color micro processor screen, which will control all equipment installed in the patient compartment.

**ELECTRICAL COMPARTMENT (PDQ) - MULTIPLEX ELECTRICAL SYSTEM**

Y\_\_N\_\_

The Power Distribution Quarters (PDQ) shall hold electrical components, (i.e. power distribution nodes, circuit breakers, etc). The electrical compartment shall be enclosed with a lockable, hinged door, located on the partition wall behind the attendant seat.

**SPARE CIRCUIT - MULTIPLEX ELECTRICAL SYSTEM**

Y\_\_N\_\_

One (1) spare 15 amp circuit shall be provided.

**WIRING HARNESS CONNECTORS - MULTIPLEX ELECTRICAL SYSTEM**

Y\_\_N\_\_

All wiring harnesses shall be connected via quick connect circular plug connectors.

**RADIO TIE-IN POINTS - MULTIPLEX ELECTRICAL SYSTEM**

Y\_\_N\_\_

Radio tie-in points shall be installed and labeled in the lower area of the electrical compartment. The radio tie-in points shall be comprised of insulated terminal stud blocks with one "battery hot" and one "ignition hot".

**EMERGENCY MASTER SWITCH - MULTIPLEX ELECTRICAL SYSTEM**

Y\_\_N\_\_

A single emergency master switch shall be supplied for activating all the emergency warning lights and shall be provided on the master control console screen. The emergency master switch will activate the module power automatically. There shall also be an Emergency Master Menu button which shall allow access to individual warning light functions.

**CONTROL PANEL SWITCHES - MULTIPLEX ELECTRICAL SYSTEM**

Y\_\_N\_\_

The switches on the master control console and attendant control panel screens shall have dimmable perimeter backlighting for easy identification.

**MODULE POWER SWITCH - MULTIPLEX ELECTRICAL SYSTEM**

Y\_\_N\_\_

A module power switch for the electrical system shall be provided on both the master control console and the Attendant Control Panel screens.

**MODULE DISCONNECT - MULTIPLEX ELECTRICAL SYSTEM**

Y\_\_N\_\_

An In-Power disconnect with a built-in adjustable timer shall be installed to keep the module power switch engaged for five minutes, after the ignition is switched to the "off" position. This disconnect can also be activated from the side and rear doorways to turn on the fluorescent check-out lights.

**VOLTMETER - MULTIPLEX ELECTRICAL SYSTEM**

Y\_\_N\_\_

One (1) digital voltmeter shall be provided on the master control console screen.

**FLASHER - MULTIPLEX ELECTRICAL SYSTEM**

Y\_\_N\_\_

The flasher shall be provided within and programmed by the multiplex electrical system.

**FLASHING HEADLIGHTS - MULTIPLEX ELECTRICAL SYSTEM**

Y\_\_N\_\_

The headlights (high beams) shall be programmed through the multiplex system to alternate flash (wig-wag), activated by a switch on the master control console screen labeled "Flashing Headlights", with the ignition on and module power and emergency master switches enabled. The flashing headlights are to be disabled when the low or high beams are activated. They are also disabled when the transmission is placed in the neutral/park position. The flashing headlights shall have the capability to be reactivated with the "park override" switch in the "on" position if the low and high beams are off.

**PARK OVERRIDE - MULTIPLEX ELECTRICAL SYSTEM**

Y\_\_N\_\_

A park override switch, located on the master control console screen, shall reactivate all lights disabled when the transmission is placed in the neutral/park position.

**LOAD MANAGER-SEQUENTIAL SWITCHING SYSTEM - MULTIPLEX ELECTRIC**

Y\_\_N\_\_

The load manager-sequential switching system shall be controlled by the microprocessor based electrical system. The emergency master switch shall control the sequential switching of the emergency lights and/or other warning devices. The load manager shall automatically shed not-critical electrical loads during low voltage conditions to help prevent electrical system overload when the vehicle is stationary and the transmission is in the park position.

**WARNING LIGHTS SWITCH - MULTIPLEX ELECTRICAL SYSTEM**

Y\_\_N\_\_

All flashing module warning lights shall be operated from a single switch on the master control console screen, labeled "flashers".

**FRONT CLEAR DISABLE SWITCH - MULTIPLEX ELECTRICAL SYSTEM**

Y\_\_N\_\_

Activation of the switch on the master control console screen shall disable all forward facing clear warning lights.

**CURBSIDE SCENE LIGHTS "ON" WITH CURBSIDE DOOR - MULTIPLEX EL**

Y\_\_N\_\_

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

**REAR SCENE LIGHTS "ON" WITH REAR DOORS OPEN - MULTIPLEX ELEC**

Y\_\_N\_\_

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

**DISABLE SWITCH FOR REAR SCENE LIGHTS - MULTIPLEX ELECTRICAL**

Y\_\_N\_\_

A disable switch shall be installed at the rear door area to disable the rear scene lights.

**DISABLE SWITCH FOR SIDE SCENE LIGHTS - MULTIPLEX ELECTRICAL**

Y\_\_N\_\_

A disable switch shall be installed at the curbside door area to disable the curbside scene lights.

**REVERSE (TRANSMISSION) FUNCTIONS - MULTIPLEX ELECTRICAL**

Y\_\_N\_\_

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

**BACKUP ALARM**

Y\_\_N\_\_

An (OSHA approved) back up alarm shall be installed with disable switch for silent backing. The disable switch shall be located on the MCC (master control

console). The backup alarm system shall automatically reset to the "on" mode when the transmission is taken out of reverse.

**CAMERA REAR VIEW - SINGLE SYSTEM - VISTA SCREEN**

Y\_\_N\_\_

A color camera system connected to the cab Vista display screen shall be installed, providing rear view monitoring to the rear exterior of the module. The camera shall be connected to the video input provided in the cab's Vista screen. This camera image shall automatically be displayed on the MCC Vista when the vehicle is placed in reverse. The Vista shall resume normal operation when the vehicle is taken out of reverse.

**ELECTRICAL CIRCUITS**

Y\_\_N\_\_

All electrical circuits shall have wiring and circuit protection suitable to the demand and must meet the national electric code (NEC) wiring requirements.

All added on wiring (18 GA through 10 GA) shall be color coded and stamped with code numbers and functions every 4" for easy identification (all other wiring shall be color coded). SLX high temperature thermoplastic cross link wire shall be used.

SGX insulated cable shall be used for all under hood / underbody battery and charging system cable. High temperature (375°F) thermoplastic loom shall be used on all harnesses.

**GROUND FAULT CIRCUIT INTERRUPTER (GFCI)**

Y\_\_N\_\_

A 125 VAC, 20 AMP circuit breaker with ground fault circuit interrupter (GFCI) electronic ground leakage detection shall be installed in the load center for the shoreline circuit.

**INVERTER, VANNER - 1050 WATT, #20-1050CUL-DC CHARGER**

Y\_\_N\_\_

A Vanner 20-1050CUL-DC, 1050 watt inverter with battery conditioner/charger, with remote switch, shall be provided and installed.

**LIGHT, ATTENDANT CONTROL PANEL AREA**

Y\_\_N\_\_

A 16" fluorescent light, with integral switch, shall be mounted above the left wall forward action area counter.

**LIGHT, ELECTRICAL COMPARTMENT (PDQ)**

Y\_\_N\_\_

A 12 VDC light shall be located in the electrical compartment. The light shall be wired "battery-hot" to activate when the power distribution quarter's door is in the open position. The light shall be off when the door is in the closed position.

**LIGHT OSS COMPARTMENT - LED WHELEN - ROUND  
W/GROMMET**

Y\_\_N\_\_

Each outside storage compartment shall be equipped with two (2) clear round Whelen Super LED lights, activated by a magnetic switch.

**LIGHT INTERIOR OF REAR FACING EXTERIOR DOORS, -TWO (2)  
RED MINI LED PER**

Y\_\_N\_\_

Two (2) Whelen red Mini LED lights shall be installed on the interior of all rear facing exterior compartment and patient entry doors. The lights shall be located as follows: one (1) on each upper and lower outer corner. The lights shall random flash upon door opening.

**LIGHTS, DOME LED (10) Whelen**

Y\_\_N\_\_

Ten (10) Super LED dome lights, Whelen #80C0EHCR, shall be provided in the patient compartment. The dome lights shall be controlled by separate switches for the left bank and right bank of lights. The dome lights shall be activated by switches on both the attendant control panel and the master control console. The dome lights shall be illuminated at 50% power whenever the patient compartment side or rear doors are opened.

**LIGHTS, FLUORESCENT (2) CURBSIDE - ANGLED**

Y\_\_N\_\_

Two (2) 12 VDC powered fluorescent lights shall be mounted on the curbside. These lights shall be individually switched as well as being three way switched from the attendant control panel and the master control console.

**LIGHTS, FLUORESCENT (3) STREETSIDE -ANGLED**

Y\_\_N\_\_

Three (3) 12 VDC powered fluorescent lights shall be mounted on the street side above the cabinets. These lights shall be individually switched, as well as being

three-way switched from the attendant control panel and the master control console.

**OUTLETS, 125VAC - THREE (3) INTERIOR DUPLEX**

Y\_\_N\_\_

Three (3), 2-wire +plus ground 125 VAC hospital-grade duplex outlets shall be installed in the patient compartment with wiring connected to the shoreline. Two (2) outlets shall be installed in the street side cabinet action area, one (1) forward and one (1) rearward, to supply 125 VAC to the monitoring equipment. The third outlet shall be installed in the lower front wall cabinet. An indicator lamp shall be located within each 125 VAC outlet as a line monitor to indicate a live circuit. The outlets shall be labeled, "125 VAC".

**OUTLETS, 12VDC - TWO (2) INTERIOR POWERPOINT**

Y\_\_N\_\_

Two (2) 12 VDC power point outlets shall be installed in the patient compartment, one (1) in the front wall equipment area, and one (1) in the attendant control panel area in the street side cabinet. The outlets shall be labeled, "12 VDC". A Schottky diode medical isolator shall be provided to protect the 12 VDC outlets.

**RADIO ANTENNA BASES - TWO (2)**

Y\_\_N\_\_

Two (2) antenna bases with attached coax cables shall be installed on the module roof. The coax cables shall terminate in the PDQ. Access to the antenna bases shall be through adjacent module interior dome lights.

**RADIO TIE-IN POINT - (2) 12V/25 AMP- CAB CONSOLE & PATIENT COMPT**

Y\_\_N\_\_

One (1) set of 12 volt/25 amp radio tie-in points shall be installed in the cab console area of the unit. The set shall include one (1) "Battery Hot", one (1) "Ignition Hot", and one (1) "Grounded" junction stud.

One (1) set of 12 volt/25 amp radio tie-in points shall be installed in the patient compartment attendant control panel area of the unit. The set shall include one (1) "Battery Hot", one (1) "Ignition Hot", and one (1) "Grounded" junction stud.

**RECEPTACLE SHORELINE INLET-SUPER 30 AMP, AUTO EJECT**

Y\_\_N\_\_

A Kussmaul super auto eject shoreline inlet receptacle with yellow cover shall be installed on the module exterior (forward street side) near the driver's door. The receptacle shall be equipped with an integral dynamic disconnect.

The 125 VAC, heavy duty 20-amp circuit breaker shall have GFCI protection and shall be connected to the lighted 125 VAC patient compartment outlet(s). A mating connector shall be shipped loose with the completed ambulance.

**Two (2) MERMAID MEDI-KOOL 1.5**

Y \_\_\_ N \_\_\_

Two (2) 12-volt Mermaid Medi-Kool "MK15" temperature controlled drug storage units shall be installed within the module. Unit shall be computer controlled climate device which regulates the inside temperature and stores/records pertinent data. Shall have capability to cool and heat cabinet to set temperature. Shall be constructed of polished stainless steel and aluminum with a stainless steel lock. The compressor shall be located on the back or side of the unit, using R134-a refrigerant.

Dimensions Compressor on back:

L 25.75" (side to side) x D 17.5" x H 12" (includes 1.0" mounting flange)

Dimensions Compressor of the left side:

L 31.5" (side to side) x D 11.75" x H 12" (includes 1.0" mounting flange)

Inside Dimensions:

L 19.5" (side to side) x D 9" x H 6"

Location to be determined at pre-construction meeting. Pricing dependent on the location selected.

**SIREN, WHELEN 295-HFSA7-REMOTE WITH MICROPHONE**

Y \_\_\_ N \_\_\_

A Whelen 295-HFSA7 remote dual siren amplifier shall be flush-mounted in the master control console located in the cab. The siren shall be capable of hands-free operation and shall be equipped with a noise canceling microphone. Some features of this siren include:

**DUAL 200 WATT, FLUSH MOUNT SIREN with REMOTE SIREN AMPLIFIER**

- Six function siren plus radio repeat and public address.
- Operates two 100-watt speakers.
- Operates in dual (outputs 2 independent siren tones creating rich harmonic dual tone sound) or mono sound modes.
- External dip switch programmable siren tones.
- PTT (push to talk) switch on microphone overrides all siren functions.

- Removable unidirectional microphone with adjustable microphone volume & adjustable preset radio repeat volume.
- SI TEST®, silent diagnostic test.
- Quick disconnect plug for ease of service or replacement.

**12 Siren Tones**

- Airhorn • Wail • Yelp • Piercer • Manual Coast to Stop
- Manual • Mechanical Coast to Stop • Hi/Low • Yelp 249
- Warble • Whoop • Mechanical Tone

**SIREN SPEAKERS, WHELEN SA315 - IN THE BUMPER OPENING**

Y\_\_N\_\_

Whelen dual 100 watt siren speakers shall be installed in the bumper opening.

**SYSTEM ACTIVE AND CHECK OUT LIGHTS - 5 MINUTES**

Y\_\_N\_\_

A switch shall be located at the curb and rear entry doors that will allow activation of the V-MUX electrical system. There shall also be a check out light switch located at the curb and rear doors that will allow activation of the left fluorescent lights prior to entering the module. The system shall be programmed to shut down automatically after 5 minutes unless the ignition is on. This shutdown delay shall be user adjustable.

**LIGHTS, ICC / LED CLEARANCE - WITH CHROME BEZELS ON MODULE SIDE**

Y\_\_N\_\_

The vehicle shall have surface mounted Peterson MFG LED clearance / ICC lights with chrome bezels: one (1) red on each side at the rear of the vehicle which will also function with the turn signals.

**LIGHTS, ICC / LED CLEARANCE - WITH CHROME BEZELS ON MODULE FRONT**

Y\_\_N\_\_

The vehicle shall have five (5) amber surface mounted Peterson MFG LED clearance / ICC lights with chrome bezels on the front of the module near the roof line.

**LIGHTS, ICC / LED CLEARANCE - WITH CHROME BEZELS ON MODULE REAR**

Y\_\_N\_\_

The vehicle shall have five (5) red surface mounted Peterson MFG LED clearance / ICC lights with chrome bezels on the rear of the module near the roof line.

**LIGHTS, FRONT GRILLE - (2) WHELEN 700 SUPER LED - RED  
W/CLEAR LENS**

Y\_\_N\_\_

Two (2) Whelen 700 series red super LED warning lights, with clear lenses and waterproof connectors shall be installed the grille area of the chassis. The lights shall operate from a switch on the master control console labeled "Flashers".

**LIGHTS, FRONT MODULE - WHELEN (7)900 - (6)RED, (1)CLEAR LED  
W/CLEAR LENS**

Y\_\_N\_\_

Seven (7) Whelen 900 series super LED warning lights with chrome flanges shall be installed on the module front. There shall be six (6) red and one (1) center clear light. All lights shall have clear lens. The lights shall operate from a switch on the master control console, labeled "Flashers".

**LIGHTS, REAR TAIL - WHELEN 600 LED STOP, TURN, HALOGEN  
BK-UP**

Y\_\_N\_\_

One (1) pair each of Whelen 600 series LED stop/tail lights, turn lights, and halogen back-up lights with chrome bezels shall be installed on the rear of the module.

**LIGHTS, REAR WINDOW-LEVEL - WHELEN (2)900 LED - RED  
W/CLR LENS**

Y\_\_N\_\_

Two (2) Whelen 900 series red super LED warning lights with clear lenses and chrome flanges shall be installed on the rear of the module at window level, one (1) on each side. These lights shall operate from a switch on the master control console, labeled "Flashers".

**LIGHTS, REAR MODULE -WHELEN (2)900 RED, (1)600 AMB LED,  
(2)600 HALO SCN CLR LEN**

Y\_\_N\_\_

Two (2) Whelen 900 series red super LED warning lights with clear lens, two (2) Whelen 900 series halogen scene/load lights, and one (1) Whelen 900 series amber super LED warning light with clear lens shall be installed on the rear of the module. The lights shall be installed with chrome flanges and shall be operated from switches on the master control console labeled "Flashers" and "Rear Scene Lights".

**LIGHT, LICENSE PLATE LED**

Y\_\_N\_\_

One (1) Whelen OACOEDCR LED license plate light with 45 deg angled chrome-plated bezel shall be installed on the rear of the module, lower left side.

**LIGHTS, INTERSECTION FRONT - WHELEN 700 SUPER LED - RED W/CLR LENS**

Y\_\_N\_\_

Two (2) Whelen 700 series red super LED warning lights, with clear lens and water-proof connectors shall be mounted, in 15 degree tilt housings on the front chassis fenders, one (1) on each side. The lights shall operate from a switch on the master control console labeled "Flashers".

**LIGHTS, SIDE MODULE SCENE - WHELEN 900 HALOGEN - CLEAR (4)**

Y\_\_N\_\_

Four (4) Whelen 900 series (gradient optics) halogen scene lights with chrome flanges shall be installed, two (2) each module side, inboard of the warning lights. These lights shall operate from switches on the master control console labeled "Left Scene Light" and "Right Scene Light".

**LIGHTS, SIDE MODULE WARNING - WHELEN 900 SUPER LED - RED W/CLR LENS**

Y\_\_N\_\_

Four (4) Whelen 900 series red super LED warning lights with clear lenses and chrome flanges shall be installed, two (2) each module side, outboard of the side module scene lights. These lights shall operate from a switch on the master control console labeled "Flashers".

**LIGHTS, INTERSECTION REAR - WHELEN 700 SUPER LED - RED W/CLR LENS**

Y\_\_N\_\_

Two (2) Whelen 700 series red super LED warning lights with clear lenses, chrome flanges and water-proof connectors, shall be installed above the rear wheel wells, one (1) on each side. These lights shall operate from a switch on the master control console screen labeled "Flashers".

**MODULE BODY CONSTRUCTION - SEAMLESS**

Y\_\_N\_\_

The module shall be fabricated entirely of parts cut and formed from .125" (minimum) thickness 5052-H32 flat aluminum sheet stock, using CNC machines capable of .0004" repeatability. This is the only alloy that may be used for body parts that are welded together.

The roll-cage type interior super-structure, aluminum partition and module shall all be welded together into a single unit to give optimum strength for patient and attendant protection. The module roof shall be designed with a minimum 1.5" crown to facilitate water run off.

The floor, roof, sides, and all exterior doors shall be fabricated from .125" (minimum) thick flat aluminum sheet stock. The exterior joints between the roof and side components shall be continuous full seam welded the entire length of the module. All exterior body panel joints shall be continuous full seam welded.

No VHB bonding tape or other adhesives shall be used in the construction of the ambulance module.

**AWS ALUMINUM CERTIFIED WELDERS**

Y\_\_N\_\_

AWS Aluminum Certified Welders shall construct the module.

AWS certificates shall be required to be part of the completed bid packet. Bids without AWS certificates shall be considered non-compliant (no Exception).

**ALUMINUM PARTS - MODULE EXTERIOR**

Y\_\_N\_\_

All unpainted exterior aluminum parts shall be bright dip anodized after fabrication to retain the finish and increase corrosion resistance.

**CORROSION MINIMIZATION - MODULE**

Y\_\_N\_\_

All module contact with dissimilar metals shall be minimized with the use of nylon screw-hole inserts to prevent fastener contact with the module body, nylon hinge strips, ceramic coated stainless steel hinge bolts, and ECK brand corrosion inhibitor spray.

**DOOR SKINS, OUTSIDE STORAGE COMPARTMENTS - DIAMOND PLATE INTERIOR SKINS**

Y\_\_N\_\_

The interior door skins for all outside storage compartments shall be constructed of .063" thick aluminum diamond plate.

**DOOR CONSTRUCTION - GASKET PLACEMENT**

Y\_\_N\_\_

All exterior hinged module doors shall be constructed in an inverted pan-formed design. The pan shall be constructed from .125" thick 5052-H32 flat sheet

aluminum. The exterior door skin shall be constructed of .190" thick aluminum and welded to the pan.

Door gaskets shall be attached to the interior side of the door skin. Gaskets attached to interior door frames are not satisfactory and shall not be accepted.

**EXTERIOR COMPARTMENTS DESIGN**

Y\_\_N\_\_

All exterior compartments shall include these features:

- Sound absorbing slip resistant polyurethane material shall be sprayed on the inside of all compartments and compartment shelving, slide out trays and closeouts.
- Baffled seep holes shall be provided to prevent water from splashing or seeping into the exterior compartments.
- Full-length, two-way adjustable, stainless steel hinges on all exterior compartment doors with 3/16" stainless steel hinge pins.
- Compartment doors shall be installed, flush with the module body.
- When double doors are provided, each door shall have an exterior handle, but only the forward door shall be lockable. (rearward door is secured when forward door is locked). All exterior compartments and passage doors shall be keyed alike.
- Lockable, Eberhard "free-floating" type chrome plated handles with rotary locks. A gasket shall be installed under each handle to protect the paint.
- Drip rails shall be installed above all exterior compartment doors.

**EXTERIOR COMPARTMENTS, VENTING**

Y\_\_N\_\_

A minimum of nine (9) square inches of venting shall be provided inside the #1, #2, #3, & #4 exterior storage compartments to provide for easier closure of the compartment doors.

**EXTERIOR COMPARTMENTS, VENTING - OXYGEN STORAGE**

Y\_\_N\_\_

A minimum of nine (9) square inches of venting shall be provided in the exterior oxygen storage compartment, to dissipate any leaking oxygen gas.

**EXTERIOR COMPARTMENTS - SWEEP-OUT**

Y\_\_N\_\_

Exterior module compartments shall be of a sweep-out design to aid in facilitation of the purchaser's routine care and cleaning of the vehicle.

All exterior compartment floors, with the exception of the front ALS compartment shall be constructed to be flush with the bottom door frame.

**HANDLES, EBERHARD - CHROME FREE FLOATING TYPE**

Y \_\_\_ N \_\_\_

Eberhard #EMC-1-2110 chrome "free-floating" handles shall be installed on each exterior module door. The handles shall be large enough to accommodate a gloved hand.

**INSULATION - POLYURETHANE SPRAY FOAM**

Y \_\_\_ N \_\_\_

The walls, ceiling, passage doors, outside storage doors, the entire underside of the module floor (except for mounting pads), the underside of the outside storage compartments, the wheel wells, and the underside of the curbside step area shall be completely foam - in - place insulated with nominal 3/4" thick sprayed on class I, urethane foam for thermal and acoustical insulation. The insulation shall comply with FMVSS #302 flame spread requirements. The underside of the body shall be properly prepared to ensure adhesion before the spray insulation is applied.

**THRESHOLD, STAINLESS STEEL - EXTERIOR STORAGE COMPARTMENT**

Y \_\_\_ N \_\_\_

Each exterior storage compartment with a hinged door shall have a stainless steel lower threshold at the door opening to protect the paint as equipment is installed and removed from the compartment.

**HANDLE, ASSIST - STAINLESS STEEL - EXTERIOR CURBSIDE**

Y \_\_\_ N \_\_\_

One (1) stainless steel assist handle (1-1/2") diameter x (12") long shall be provided and installed on the exterior curbside of the module, forward of the sliding passage door.

**DOCK BUMPERS, REAR**

Y \_\_\_ N \_\_\_

Formed hard rubber dock bumpers shall be attached to the rear bumper.

**DOOR SLIDING - MODULE CURBSIDE PASSAGE**

Y \_\_\_ N \_\_\_

The module body shall include a sliding side entry door to access the curbside of the patient compartment. The door shall slide out and towards the rear of the module body. The door design must meet FMVSS 206 for sliding doors and shall have been cycle tested in excess of 100,000 cycles. The door shall not extend out

more than 5 1/4" from the module when in the open position and shall be flush in the closed position. The door shall operate on a total of nine (9) casters and three (3) tracks for ease of operation. The door shall be held closed with two (2) rotary latches and two (2) locking tabs. The door must have a system to prevent the door from self-closing, when unit is parked on an incline. A measured force of ten (10) pounds maximum shall be required to release the door from the open to closed position. A chrome locking handle shall be installed on the exterior of the door. The door shall be lockable from the inside and outside and shall shut on molded air-core, automotive type door seals to prevent any water from leaking into the vehicle interior. A drip rail shall be installed above the door.

**Documentation required:**

The bidder may be required to submit with this bid proposal a listing of not less than 200 ambulances produced with curbside sliding doors in the past four years. The listing is to include a production order number, the purchaser's agency name, and date the ambulance equipped with the curbside sliding door was delivered.

**DOORS - REAR PASSAGE**

Y\_\_N\_\_

There shall be a 47.50" wide x 59" high rear door opening in the patient compartment. The doors shall be flush without a protruding flange or lip. The right rear passage door shall have a lockable, chrome exterior handle. The left rear door shall have a non-locking, chrome exterior handle. All handles shall be installed with a gasket to protect the paint. The hinge shall be full length stainless steel with a 3/16" stainless steel hinge pin and shall be two-way adjustable. Each rear door shall have a two point slam action automotive type rotary latching system to the body.

The right rear door shall lock to the body at the top and bottom, not to the left rear door. The doors shall have .213" steel door latch activator rods with turn buckle adjusters. The doors shall be lockable from the inside and outside.

All doors shall shut on molded, air-core, automotive type door seals to prevent any water from leaking into the vehicle interior. Each door shall have an access port adjacent to the rotary locks.

**FENDERETTES - POLISHED ALUMINUM**

Y\_\_N\_\_

Polished aluminum fenderettes shall be installed around the rear wheel well openings.

**HOLD-OPEN - REAR DOORS - GRABBERS**

Y\_\_N\_\_

Door grabbers (1 pair) with hard rubber inserts shall be installed on the rear doors, permitting a door hold open position of 180 degrees.

**SWITCH DOOR UNLOCK - HIDDEN IN FRONT GRILLE AREA**

Y\_\_N\_\_

An exterior hidden door unlock switch shall also be included and located in the front grille area.

**LOCKS POWER - PASSAGE, COMPARTMENTS, KEY FOBS**

Y\_\_N\_\_

Power door locks shall be included on module passage doors and five (5) outside storage compartments. The locks shall be activated from the interior of the rear door and the curbside doorway, as well as the OEM chassis cab door switches. A keyless entry system shall be installed. The system shall operate with the OEM key fobs to lock/unlock all chassis and module doors.

**MUD FLAPS, REAR - BLACK RUBBER**

Y\_\_N\_\_

Black rubber mud flaps with a minimum 1/4" thickness shall be bolted to the underside of the module behind the rear wheels. The width and length of the flaps shall provide adequate coverage of the rear dual wheels of the chassis.

**REAR STEP/BUMPER -FLIP-UP CENTER SECTION - STAR PUNCHED AND ANODIZED**

Y\_\_N\_\_

The rear bumper shall be affixed to the chassis frame. The bumper shall be constructed with a hinged center section. Two (2) steel braces shall secure the step to the chassis frame. The outer 17" on each end of the bumper shall be constructed from heavy gauge stamped polished stainless steel bumper parts and shall provide smooth rounded corners. The step shall be constructed of star punched .125" thick aluminum diamond plate. Two (2) rear LED step illumination lights shall be provided. All diamond plate surfaces shall be bright dip anodized. Rear step installation shall comply with AMD standard 018. A strip of black PVC shall be installed on the face of the step to protect the patient cots during loading.

**RUB RAILS, ANODIZED ALUMINUM**

Y\_\_N\_\_

Bright dip anodized polished aluminum rub rails shall be installed on the lower sides of the body below the outside compartment sill areas. The rub rails shall be offset 3/16" from the body to facilitate wash down of road debris.

**STEPWELL, CURBSIDE DOORWAY - MID STEP AREA**

Y\_\_N\_\_

An aluminum diamond plate step well and mid-level step shall be installed in the curbside doorway threshold area.

**STONE GUARDS, MODULE FRONT - ANODIZED DIAMOND PLATE (24" H)**

Y\_\_N\_\_

Bright dip anodized aluminum diamond plate stone guards shall be installed on the lower 24" of the module front, one (1) each side. These stone guards shall be 14" wide.

**KICKPLATE/THRESHOLD, REAR DOORWAY - ANODIZED DIAMOND PLATE**

Y\_\_N\_\_

A bright dip anodized aluminum diamond plate kick plate shall be installed at the rear exterior doorway, providing a kick / scuff plate at the rear of the vehicle above the rear step.

**TOW HOOKS, MODULE REAR**

Y\_\_N\_\_

Two (2) tow hooks shall be provided in the rear step area and shall be securely fastened to the vehicle frame.

**WINDOWS, PASSAGE DOOR - (CURB SLIDING, REAR FIXED)**

Y\_\_N\_\_

The curbside passage door shall have a 16" x 23" openable (*sliding*) window with removable screen. Each rear passage door shall have a 19" x 18" non-openable window. The distance between the rear window glass shall not exceed 6" to assure maximum vision to the rear. The windows shall have a 69% dark tint and shall be secured with black oxide coated fasteners. No warning lights shall be blocked from view when the curbside or rear doors are open.

**TURTLE TILE MATTING (Black) - BOTTOM OF OUTSIDE COMPARTMENT**

Y\_\_N\_\_

Black Turtle tile matting with ramps shall be installed in the bottoms of outside storage compartments #1, #2, #3, #4, and #5 to ensure proper ventilation of the compartment and stored equipment.

**OUTSIDE STORAGE #1 - STREETSIDE FORWARD**

Y\_\_N\_\_

**#1** (forward street side compartment) shall have an 73.00" high x 18.25" wide clear door opening with 82.75" high x 24.50" wide x 20.75" deep interior dimensions. The compartment door shall be held open with a spring loaded gas cylinder. A locking handle shall be installed on the exterior of the door.

**SHELF TRACK - EXPOSED - OSS #1**

Y\_\_N\_\_

Unistrut 1-1/4" x 3/4", 19 gauge channel shall be installed in outside storage compartment #1.

**SHELVES TWO (2) IN OUTSIDE STORAGE #1**

Y\_\_N\_\_

Two (2) adjustable shelves with sprayed on polyurethane material shall be provided and installed in outside storage compartment #1.

**OUTSIDE STORAGE #2 - STREETSIDE CENTER**

Y\_\_N\_\_

**#2** (street side center compartment) shall have a 40.25" high x 39.50" wide clear door opening with double doors and shall have 43.75" high x 44.50" wide x 20.75" deep interior dimensions. One (1) fusee holder shall be installed on the inner door skin of the forward compartment door. The compartment shall have double doors held open with a spring loaded gas cylinders. An exterior handle shall be installed on each door. A locking handle shall be installed on the forward door.

**SHELF TRACK - RECESSED - OSS #2**

Y\_\_N\_\_

Unistrut 1-1/4" x 3/4", 19 gauge channel shall be installed in outside storage compartment #2. The track shall be welded in and recessed to reduce the number of fasteners and provide a cleaner look.

**SHELF ONE (1) IN OSS #2**

Y\_\_N\_\_

One (1) adjustable shelf with sprayed on polyurethane material shall be provided and installed in outside storage compartment #2.

**OUTSIDE STORAGE #3 - STREETSIDE REAR - TALL DOOR**

Y\_\_N\_\_

**#3** (street side rear compartment) shall have a 63.50" high x 28.75" wide clear door opening with 65.25" high x 31.25" wide x 20.75" deep interior dimensions. This compartment shall have inside/outside access. The compartment door shall be held open with a spring loaded gas cylinder. A locking handle shall be installed on the exterior of the door.

**SHELF TRACK - RECESSED - OSS #3**

Y\_\_N\_\_

Unistrut 1-1/4" x 3/4", 19 gauge channel shall be installed in outside storage compartment #3. The track shall be welded in and recessed to reduce the number of fasteners and provide a cleaner look.

**SHELVES TWO (2) IN OSS #3**

Y\_\_N\_\_

Two (2) adjustable shelves with sprayed on polyurethane material shall be provided and installed in outside storage compartment #3.

**STAIR CHAIR POCKET ON DOOR OSS #3**

Y\_\_N\_\_

The compartment door shall have a 9" deep diamond plate pocket and strap installed on the interior side to accommodate a stair chair.

**OUTSIDE STORAGE #4A BOARD/SCOOP, #4B O2 CYLINDER - RT. REAR**

Y\_\_N\_\_

#4 (rear curbside compartment) shall have split compartments (#4A / #4B), with an 73.00" high x 24.75" wide clear door opening: compartment #4A shall have 82.75" high x 15.00" wide x 20.75" deep interior dimensions. This compartment shall provide storage for backboards and a scoop stretcher.

Compartment #4B shall have an 82.75" high x 13.50" wide x 12.00" deep interior dimensions with storage for one (1) "M" or "H" oxygen cylinder. A spring loaded hinged acrylic door shall be provided to allow access from inside the patient compartment to the oxygen cylinder valve. A 9-square inch vent shall be provided in the oxygen storage compartment to permit leaking gas to dissipate to the exterior of the vehicle. The oxygen cylinder shall be secured with a minimum of four (4) restraining devices, meeting AMD standard 003. A cylinder changing wrench shall be provided and secured inside the oxygen cylinder compartment. The compartment door shall be held open with a spring loaded gas cylinder. A locking handle shall be installed on the exterior of the door. The oxygen cylinder shall be provided by the purchaser.

**OUTSIDE STORAGE #5 - CURBSIDE FORWARD**

Y\_\_N\_\_

#5 (forward curbside compartment) shall have a 65.50" high x 17.50" wide clear door opening. The compartment shall be split into two (2) compartments. #5A provides inside/outside storage and shall have and shall have three (3) adjustable shelves. (Reference the lower front wall cabinet in patient compartment specification for interior dimensions). #5B shall have 15.00" high x 20.25" wide

x 18.00" deep interior dimensions. The compartment door shall be held open with a spring loaded gas cylinder. A locking handle shall be installed on the exterior of the door.

**ROUNDED INTERIOR CORNERS**

Y\_\_N\_\_

Interior vertical edges shall have rounded corners in the following locations: forward and aft edges of the CPR seat, the wall at the aft end of the squad bench, the partition opening cabinet edges and the upper front wall cabinet.

**LATCHES CABINET - CHROME / STAINLESS STEEL**

Y\_\_N\_\_

The ACP (attendant control panel) door, the PDQ (power distribution quarters) door, and the radio cabinet door shall be secured with chrome locking lever latches, all remaining interior hinged cabinet doors and drawers shall be secured with Southco stainless steel locking flush pull latches.

**CABINET - LEFT WALL, UPPER REAR #1 - FIXED FRAME**

Y\_\_N\_\_

The left wall upper rear interior cabinet (#1) shall have a door opening of 11.50" high x 20.50" wide with interior dimensions of 13.25" high x 22.25" wide x 17.25" deep. The cabinet shall be enclosed by one (1) set of sliding acrylic doors and contain one (1) adjustable shelf.

**CABINET - LEFT WALL, UPPER #1A TOP HINGED**

Y\_\_N\_\_

The left wall upper rear interior cabinet (#1A) shall have a door opening of 12.25" high x 12.00" wide. The angled cabinet shall be enclosed by one (1) top hinged solid door attached to hold-open(s), and covered with dry erase surface material. Door to be secured with a stainless steel locking flush pull latch.

**CABINET - LEFT WALL, UPPER #2A TOP HINGED**

Y\_\_N\_\_

The left wall upper rear interior cabinet (#2A) shall have a door opening of 12.25" high x 12.00" wide. The angled cabinet shall be enclosed by one (1) top hinged solid door attached to hold-open(s), and covered with dry erase surface material. Door to be secured with a stainless steel locking flush pull latch.

**CABINET - LEFT WALL, UPPER OVER PANEL #2 - FIXED FRAME**

Y\_\_N\_\_

The left wall, upper interior cabinet (#2) above the attendant control panel shall have a door opening of 11.50" high x 35.25" wide with interior dimensions of

13.25" high x 37.00" wide x 17.25" deep. The cabinet shall be enclosed by one (1) set of sliding acrylic doors and shall contain one (1) adjustable shelf.

**LEFT WALL - ATTENDANT CONTROL PANEL - HINGED PANEL**

Y\_\_N\_\_

The color microprocessor screen shall be installed on an angled hinged access panel and secured with two (2) latches. The panel will be located to the immediate right of the attendant's seat. The forward portion of the panel will contain a flat area that may be used for future radio mounting etc.

**CABINET - LEFT WALL, LOWER REAR #3 - INSIDE/OUTSIDE**

Y\_\_N\_\_

The left wall, lower rear interior cabinet (#3) shall have a door opening of 26.25" high x 26.50" wide. (Reference exterior compartment outside storage compartment #3 in module section for interior dimensions and shelving configurations.) This compartment provides inside/outside access into outside storage compartment #3 and shall have 3/8" thick, hinged acrylic doors. Each door shall have a full length hinge, a full length handle, and a latch.

**DRAWERS - LEFT WALL - REAR ACTION AREA (2) DRAWER UNIT #4**

Y\_\_N\_\_

A two (2) drawer cabinet unit (#4) shall be installed under the second action area on the interior left wall of the module. These drawers shall be constructed with .90" thick aluminum. The drawers interior dimensions shall be 3.50" high x 9.00" wide x 12.00" deep. The drawers shall open towards an expanded width CPR seat and be secured with locking stainless steel flush pull latches.

**PRIMARY ACTION AREA**

Y\_\_N\_\_

The primary action area shall be located beside the attendant seat with work area dimensions of 48.50" wide x 17.00" deep.

**SECONDARY ACTION AREA**

Y\_\_N\_\_

The secondary action area shall be located to the rear of the CPR seat with work area dimensions of 21.00" high x 18.00" wide x 17.00" deep.

**DRAWER - SLIDE-OUT / WRITING TABLE STREETSIDE INTERIOR**

Y\_\_N\_\_

A slide-out drawer with hinged plexi-glass writing table shall be provided in the street side wall beside the attendant seat. The drawer shall be constructed of .090" thick aluminum.

The table writing surface shall be constructed of 1/4" clear plexi-glass which measures 14.25" wide x 11.25" deep. The drawer interior dimensions shall be 4.50" high x 14.50" wide x 13.25" deep. The drawer shall be secured with one (1) latch. The writing surface shall be installed on top of the drawer with a hinge.

**CABINET - FRONT WALL, UPPER #1**

Y\_\_N\_\_

The front wall, upper interior cabinet (#1) shall have a door opening of 16.50" high x 13.75" wide with interior dimensions of 16.50" high x 13.75" wide x 21.50" deep. This compartment shall be enclosed by one (1) flip-up acrylic door with hold-open. The compartment shall contain one (1) adjustable shelf.

**CABINET - FRONT WALL, LOWER #2 & #3 - INSIDE/OUTSIDE ACCESS**

Y\_\_N\_\_

The front wall lower cabinet (#2) shall have two Mermaid MK1.5 Temperature Controlled Cabinets. Each cabinet shall have a slide out tray.

The front wall lower cabinet (#3) shall have a door opening of 21.00" high x 25.25" wide with interior dimensions of 24.75" high x 31.50" wide x 21.50" deep. This cabinet shall provide inside/outside access and shall have one (1) adjustable shelf on Unistrut adjustable track brackets. One (1) clear light mounted in a removable panel will provide illumination in this compartment. There shall be aluminum beveled ramp edging installed on two edges of each shelf. This compartment shall be enclosed by one (1) pair of 3/8" thick, hinged acrylic doors. Each door shall have a full length hinge, a full length handle, and a latch.

There shall be one (1) adjustable shelf installed as a divider between the upper and lower cabinets. A removable faceplate shall be installed also be installed between the upper and lower cabinets, to allow for possible future cabinet modifications.

**CABINET - FRONT WALL, LOWER BELOW PDQ (SINGLE VENTED DOOR)**

Y\_\_N\_\_

The compartment below the power distribution cabinet (PDQ) shall have a door opening of 9.00 high x 11.75" wide with interior dimensions of 9.00" high x 11.75" wide x 21.50" deep. The compartment shall have a vented, hinged aluminum door secured by a chrome locking lever latch. Door to open towards rear of the ambulance module.

**PASS THROUGH - CAB TO MODULE**

Y\_\_N\_\_

A window opening shall be provided in the rear of the cab to accommodate pass-through communications to the patient compartment. A bellows shall be provided to connect the cab to the module.

**CABINET - RIGHT WALL, REAR WITH (1) DOOR FACING AISLE #1**

Y\_\_N\_\_

A storage compartment (#1) shall be provided to the rear of the squad bench and shall be constructed of .125" thick aluminum. The compartment shall face the patient compartment aisle and have an door opening of 48.00" high x 7.25" wide with interior dimensions of 50.00" high x 11.50" wide x 7.50" deep and contain four (4) adjustable shelves. The compartment shall be enclosed by a 3/8" thick, hinged acrylic door and latch.

**ATTN SEAT - EVS HiBAC, INTEGRAL CHILD, SWIVEL BASE**

Y\_\_N\_\_

A rear facing EVS HiBAC attendant seat shall be installed at the head of the patient cot. The seat shall be equipped with a sliding swivel base and incorporate an integral child safety restraint system. The seat shall be covered with color coordinated vinyl and equipped with an automatic retracting safety seat belt.

**CPR SEAT - WIDE FIXED**

Y\_\_N\_\_

A 30" wide CPR seat shall be installed on the street side of the patient compartment aft of the main action area counter. The seat, backrest, and sides of the seat shall be covered with color coordinated, cushioned vinyl. The seat shall be equipped with a red automatic locking, retractable seat belt.

**SQUAD BENCH BASE STORAGE (COMPARTMENT #2)**

Y\_\_N\_\_

A storage area shall be provided in the squad bench base (compartment #2). The interior dimensions of the storage area shall measure 14.25" high x 77.00" wide x 21.00" deep. The squad bench base shall be constructed of .090" thick aluminum for maximum storage capacity and minimum weight. The interior of the squad bench shall be sprayed with sound absorbing polyurethane material.

**SQUAD BENCH LID - WITH SHARPS AND TRASH ACCESS**

Y\_\_N\_\_

The squad bench lid area shall be 15.75" wide x 74.00" long. The padded cushion shall be 15.50" wide x 59.50" long. The squad bench cushion shall be covered with color coordinated vinyl upholstery material and shall be one-piece, liftable on a full length continuous hinge. The squad bench cushion upholstery shall be

sewn with seams only at the vertical corners to minimize entrapment of fluids. An automatic latching fastener shall be installed to secure the squad bench lid in the closed position. Provisions shall be made for the sharps and trash containers to be installed in the squad bench base with access via a hinged clear acrylic door on top of the forward end of the squad bench.

Automatic locking, retractable red seat belts shall be provided for three (3) people while seated on the squad bench or for one (1) person lying down.

**HOLD OPENS - SQUAD BENCH LID - GAS CYLINDERS**

Y\_\_N\_\_

Two (2) gas cylinders hold -opens shall be provided and installed to hold the cushion in the open and closed position.

**CABINET CONSTRUCTION - INTERIOR - ALUMINUM**

Y\_\_N\_\_

All interior cabinets shall be constructed of .090" thick welded aluminum. Wood products shall not be used in the construction of any interior cabinet. All cabinet exteriors, interiors, drawer fronts, drawer interiors, and aluminum doors shall be sealed with a washable sprayed-on multi-use polychromatic coating.

**RECESSED ADJUSTABLE SHELF TRACK - CABINETS**

Y\_\_N\_\_

Unistrut 13/16" x 13/32", 19 gauge channel shall be installed in the interior cabinets that contain adjustable shelves. The track shall be welded in and recessed to reduce the number of fasteners and provide a cleaner look.

**CABINET DOORS - BRONZE ACRYLIC**

Y\_\_N\_\_

All sliding cabinet doors shall be nominally 1/4" thick light bronze acrylic material. The sliding cabinet doors shall be installed in aluminum track lined with PPL inserts to eliminate rattles and prevent the doors from opening during transit. An edge mounted aluminum handle shall be installed on each sliding cabinet door.

**CABINETS/ WALLS - POLYCHROMATIC COATING - MARBLE STONE**

Y\_\_N\_\_

All exposed side walls, the partition wall (on the patient compartment side only), the headliner, along with the cabinet and drawer fronts, aluminum doors, cabinet and drawer interiors shall be covered with a washable #20-63 Marble Stone sprayed-on multi-use polychromatic coating, to create a laminate-free interior.

**COUNTER TOP - SOLID ACRYLIC - LAVA GRANITE (DARK GRAY)** Y\_\_N\_\_

A Meganite solid acrylic counter top, Lava Granite (Dark Gray) #657, with a 1/2" lip shall be installed to prevent equipment from sliding off. The solid acrylic counter top shall be provided on both the primary and secondary action area counters, fore and aft of the CPR seat.

**COUNTER TOP ACCENT STRIPE - SOLID ACRYLIC - BLANCA GRANITE (WHITE)** Y\_\_N\_\_

The solid acrylic counter top shall have a 1/2" Blanca Granite accent stripe.

**UPHOLSTERY - SPRADLING "ARCTIC" CHARCOAL #9017** Y\_\_N\_\_

All cushions, head pads and seats shall be covered with Spradling International "Arctic" Charcoal #9017 expanded vinyl upholstery material. The arctic vinyl and all foam cushion material shall comply with FMVSS #302 flame spread requirements.

**LONPLATE II, NON-SLIP EMBOSSED SM. GRID - GUNMETAL #424** Y\_\_N\_\_

The floor in the patient compartment shall be covered with Lonseal brand "Lonplate II" non-slip; small grid (embossed) Gunmetal #424, resilient sheet vinyl flooring material, which shall be covered 3-inches up the wall on the street side, and to the top of the squad bench base on the curbside. The flooring material shall be stripped and waxed before delivery.

**ASPIRATOR / SUCTION - IMPACT #324 SELF-CONTAINED - RECESSED** Y\_\_N\_\_

An Impact #324 suction system with built-in pump shall be recessed into the street side lower interior wall near the attendant seat. This system shall be self-contained and shall include a 6 foot section of suction tubing, and two (2) 1200 ml disposable canisters. A strap shall be installed to secure tubing. The disposable canisters shall contain a bacterial filter and overflow shutoff valve. The system shall be activated by a switch on the attendant control panel. The aspirator pump exhaust shall be vented to the exterior of the vehicle. The pump performance shall comply with KKK-A-1822F requirements.

**ASSIST HANDLES, (6) BLACK RUBBER**

Y\_\_N\_\_

A total of six (6) 10-7/8" black vulcanized rubber with steel core assist handles shall be provided and installed: one (1) handle on each rear door, one (1) on the curbside door, one (1) at the curbside doorway and two (2) at the rear doorway.

**CLOCK - TRIN TEC, 8" 12/24 HR, QUARTZ BATTERY - FT SQ BENCH**

Y\_\_N\_\_

A Trin Tec 8" diameter, 12/24 hour battery operated quartz clock shall be installed on the curbside forward facing wall at the foot end of the squad bench.

**COT SAFETY HOOK - STRYKER**

Y\_\_N\_\_

A Stryker cot rear capture / safety hook shall be provided and installed. Exact location and model to be determined at the pre-construction meeting.

**COT FASTENER - STRYKER, TWO-POSITION, SIDE/CENTER**

Y\_\_N\_\_

A Stryker crash stable, two position - side- and center -cot fastener shall be installed on the module floor for a Stryker cot. 3/8" thick aluminum tapping plates shall be installed below the aluminum floor to secure the cot floor mounting plates.

**EMBLEMS / SIGNS - REAR PATIENT COMPARTMENT**

Y\_\_N\_\_

Two (2) "*No Smoking / Oxygen Equipped / Fasten Seat Belts*" signs shall be provided. One (1) sign shall be installed in the cab and one (1) above the oxygen outlets in the patient compartment street side cabinet.

**EXHAUST VENTILATOR, 3-SPEED - MULTIPLEX ELECTRIC SYSTEM**

Y\_\_N\_\_

A three-speed, 300 CFM (minimum) exhaust fan meeting KKK-A-1822F requirements shall be provided and located in the street side cabinet in the patient compartment. The exhaust fan shall be pulse width modulated from a switch on the attendant control panel vista screen. The exhaust system shall have a louvered grille inside and a chrome vent outside. The exhaust system shall vent through the side of the vehicle, not through the roof.

**Two (2) F W #521 STORAGE BRACKET FOR "D", OR JUMBO "D" CYLINDER** Y\_\_N\_\_

Ferno Washington #521 crash stable storage bracket shall be installed for one (1) "D", or Jumbo "D" oxygen cylinder in a location to be determined at a pre-construction conference.

**FLOOR CONSTRUCTION- PATIENT COMPARTMENT, NON-WOOD COMPOSITE** Y\_\_N\_\_

The sub-floor in the patient compartment shall be constructed of .125" thick aluminum over .125" and .190" thick reinforcing hat sections and mounting laterals. The aluminum sub-floor shall be covered with a single piece of 3/4" non-wood composite material. All corner molding, edging and trim shall be anodized aluminum or stainless steel and shall be sealed to prevent fluids from seeping under the cabinets.

Wood floors are not satisfactory and shall not be accepted by the purchaser.

**FLOORING - COVE** Y\_\_N\_\_

The patient compartment floor radius shall be coved with pre-formed floor coving material. The coving shall be installed behind the vinyl floor covering, along both the street side and curbside walls.

**GLOVE DISPENSER - (3) BOX - ABOVE ENTRY DOOR - CURBSIDE** Y\_\_N\_\_

A three (3) - box glove dispenser unit, with a clear plexi hinged access panel with three (3) cut-outs, shall be recessed above the curbside entry door. The dispenser shall be 8.25" high x 33.50" wide with interior dimensions of 5.38" high x 30.25" wide x 3.25" deep.

**GRAB RAIL, 1-1/4" DIAMETER, (96") OVER COT AREA** Y\_\_N\_\_

One (1) 1-1/4" diameter x 96" long stainless steel grab rail shall be installed on the ceiling for attendant/ patient balance control. The grab rail shall be attached to the ceiling with three (3) mounting brackets that secure it to the super structure of the module. Installation of the grab rail shall comply with AMD-008 requirements.

**HEADLINER - REAR PATIENT COMPARTMENT** Y\_\_N\_\_

The headliner in the patient compartment shall be one-piece, seamless, .090 thick aluminum finished with sprayed-on multi-use polychromatic coating.

**HEAT/AIR CONDITIONING, HOSELINE FT-454 6X2 AC/HEAT CORE**

Y\_\_N\_\_

A Hoseline FT-454 high capacity 580 CFM heater/air conditioner system with 50,000 BTU heating capacity and 30,000 BTU cooling capacity utilizing a 6x2 AC/Heat core and with a 10-speed blower controlled through, the pulse-width-modulated output of the microprocessor based electrical system, shall be provided for high volume air movement with minimal noise. The heater/air conditioner air return shall be filtered to minimize contamination of the heater/air conditioner cores. The cab and module environmental systems shall be simultaneously capable of heating in the front while cooling in the rear and vice-versa. A thermostatically controlled rear system shall be provided for heating and air conditioning the patient compartment.

The temperature, whether heating or cooling, shall be controlled by a thermostat built into the attendant control panel screen, located in the street side cabinet and from the cab master control console screen. Heating and cooling may be selected automatically or manually. The heater/air conditioner system shall function only when the ignition system and the module power switch are on. The rear heater shall have EPDM/Nomex heater hoses. The rear air conditioner shall have barrier air conditioner hoses for R-134A refrigerant. Full module HVAC controls shall be located on both the rear ACP screen and the cab MCC screen.

The module heat and ac system shall be installed in the upper portion of the front wall. Five (5) adjustable heat/ac vents shall be located below the heater/ac.

**I V HANGERS - CEILING RECESSED - CAST PRODUCTS #IV2008-1 (2)**

Y\_\_N\_\_

Two (2) Cast Products #IV2008-1 recessed, dual, ceiling I.V. hangers shall be provided. One (1) installed near the street side above the cot area, and one (1) near the curbside above the squad bench area.

**NET, SQUAD BENCH - CURBSIDE INTERIOR (RED)**

Y\_\_N\_\_

A removable net shall be installed at the forward end of the curbside squad bench. The net shall be red in color and constructed of safety belt webbing material. The net shall be anchored to the curbside wall, ceiling, and the forward end of the squad bench into .50" thick aluminum tapping plates. The net shall be removable for cleaning, via the use of seatbelt type buckles.

**OXYGEN OUTLETS (3) WALL - OHIO MEDICAL TYPE**

Y\_\_N\_\_

Three (3) Ohio Medical flush mounted, quick release wall outlets shall be installed. Two (2) in the forward street side cabinet action are and one (1) shall be installed in the wall above the squad bench.

**FLOW METER, OXYGEN - THORPE STYLE**

Y\_\_N\_\_

One (1) Thorpe style oxygen flow meter (15LPM) shall be shipped loose with the completed vehicle.

**OXYGEN SYSTEM, ELECTRIC - MULTIPLEX ELECTRIC SYSTEM**

Y\_\_N\_\_

A 12 VDC controlled electric O2 system operated through the v-mux multiplex electrical system shall be provided and installed.

The oxygen system shall be completely installed and include a pre-set oxygen regulator with a cylinder pressure gauge and a 200 PSI safety valve with all necessary piping and connections. The oxygen system shall be completely low pressure, and the regulator shall be fastened directly to the cylinder. The regulator shall be set to operate at approximately 50 PSI. The oxygen cylinder shall be installed so the system may be easily turned on and off at the main cylinder valve from the patient compartment. The oxygen cylinder shall be provided by the purchaser.

The oxygen system monitor shall be readily available to the attendant while seated at the head of the cot as part of the microprocessor based electrical system. Flexible conductive oxygen hose with a minimum 900 lbs. burst rating shall be installed between the regulator and the oxygen receptacles. The system shall be tested and tagged in conformance with NFPA-56-F and KKK-A-1822F.

The electric oxygen system shall be provided with an on/off switch on the attendant control panel screen. The emergency manual bypass valve shall be located near the oxygen storage compartment in the patient compartment.

**PADDED EDGING PROTECTION**

Y\_\_N\_\_

Padded corner edging shall be installed where necessary on exposed corners and edges in the patient compartment for patient and attendant protection.

**PADS, HEAD AND BACK**

Y\_\_N\_\_

Vinyl upholstered, foam cushioned head/back pads shall be installed as follows: the lower edge of the upper front wall cabinet (above the partition doorway or window), above the rear doors, above the side door, on the street side wall behind and each side of the CPR seat, and on the curbside wall behind the squad bench. The pads shall be covered with a flame retardant color coordinated vinyl upholstery material.

**SHARPS AND TRASH CONTAINERS - ACCESS THRU SQUAD BENCH LID**

Y\_\_N\_\_

A 6.9 qt. #BD5489 sharps container, and a 8 qt. trash container shall be installed in the forward end of the squad bench base. The containers shall be access through the squad bench lid, and covered with a 3/8" thick clear acrylic hinged lid with a biohazard warning label.

**SQUAD BENCH FACE - VINYL FLOORING MATERIAL**

Y\_\_N\_\_

The face of the squad bench shall be covered with vinyl flooring material.

**DOOR PANELS - MODULE PASSAGE DOORS - FULL LENGTH - W/ACCESS PANELS**

Y\_\_N\_\_

The inner door panels shall be manufactured from aluminum, and covered with a washable sprayed-on multi-use polychromatic coating. The panels shall run the full length of the door and will contain a removable latch access panel.

**STAINLESS STEEL WALL PROTECTION - INTERIOR STREETSIDE**

Y\_\_N\_\_

A brushed stainless steel panel shall be provided on the street side wall from the bottom of the CPR seat cushion down to the flooring material to protect this area when the cot is taken in or out of the vehicle.

**TURTLE TILE - SKID-RESISTANT MAT, CURBSIDE STEPWELL**

Y\_\_N\_\_

Skid resistant black turtle tile matting shall be installed in the curbside step well.

**PPG PAINT PROCEDURE**

Y\_\_N\_\_

All non-anodized aluminum module body surfaces shall be completely chemically steam cleaned, filled with premium body filler as needed, sanded smooth and

primed with F-3993 epoxy primer and then primed again with F-4930 high solid primer.

The cured primer surfacer shall be DA sanded with 320 grit and cleaned with DX-330. F-4930 high solid primer shall then be applied, where needed, as a sealer.

**CLEAR COATING - MODULE PAINT**

Y\_\_N\_\_

The entire module shall be clear-coated, using a PPG process, sprayed over the final paint coat.

**BUFFING, PAINT - MODULE**

Y\_\_N\_\_

The paint on the module sides shall be buffed to a high shine using a recommended paint buff system.

**PAINT CAB ALL TWO SOLID METALLIC COLOR, PLUS CLEAR COAT (SEE EXHIBIT A)**

Y\_\_N\_\_

The entire cab shall be sprayed Two-color metallic and then clear coated. The current Barrow County, black over red, paint scheme is required The PPG paint codes and colors will be provided at the pre-construction meeting.

**PAINT MODULE ALL TWO METALLIC SOLID COLOR, PLUS CLEAR COAT**

Y\_\_N\_\_

The entire module shall be sprayed Two-color metallic and then clear coated. The current Barrow County, black over red, paint scheme is required The PPG paint codes and colors will be provided at the pre-construction meeting.

**BLACK REFLECTIVE MATERIAL IN RUB RAILS**

Y\_\_N\_\_

Rub rails shall incorporate a 5/8" wide black reflective scotchlite safety accent stripe.

**DOOR REFLECTIVITY**

Y\_\_N\_\_

Reflective material (25" x 2.5" red/Yellow chevron style) meeting FMVSS 108 requirements shall be installed on the lower interior stainless steel panel of each rear door and hinged side door.

If a sliding side door is provided, it shall have a 1.50" x 40.00" white reflective stripe installed on the rear facing edge.

**KKK-A-1822F COMPLIANCE**

Y\_\_N\_\_

A KKK-A-1822F compliance sticker, electrical load analysis sticker, and payload sticker shall be installed in the oxygen compartment. Any deviations from KKK-A-1822F shall be listed in the vehicle delivery packet with a notation on the-compliance sticker.

**VEHICLE MANUALS (1) PACKAGE SET**

Y\_\_N\_\_

One (1) Delivery Manual Package shall be supplied with the vehicle, and shall include the following items:

- Ambulance manufacturer parts, service and operation manuals
- OEM chassis owner's guide
- Complete 12 VDC and 125 VAC wiring schematics for all included standard and optional systems
- Multiplex Electrical system programming - electronic media

**WARRANTIES**

Y\_\_N\_\_

MANUFACTURER WARRANTIES: The ambulance manufacturer shall provide Warranty coverage as follows:

- A. Structural Module Warranty - Limited Life Time
- B. Ambulance Conversion Warranty - 2 Years/30,000 Miles
- C. Electrical Warranty (Multiplex-based systems) - 7 Years/ 84,000 Miles
- D. PPG Paint Warranty - This pro-rated warranty covers the areas of the ambulance body finished with specified PPG products for a period of 7 years from the date of manufacture or 84,000 miles whichever occurs first. The first

four years or 48,000 miles are covered at 100% parts and labor. The fifth year or up to 60,000 miles is covered at 75% parts and labor, and the sixth and seventh years or up to 84,000 miles are covered at 50% parts and labor. Paint repairs must be pre-approved by the Manufacturer/PPG and performed by the Manufacturer or a Braun Authorized Service Center.

NOTE: Copies of these Warranties shall be provided to the purchaser in the bid response.

## **Exhibit A**

### **Additional Equipment for Med Unit:**

#### **New Stryker Power-Pro XT Stretchers with the following options:**

- XPS Option
- Steer Lock Option
- 3 Stage IV Pole
- Pocketed Back Rest Pouch
- Retractable Head Section O2
- Head End Storage Flat
- Dual Wheel Lock
- PR Cot Retaining Post
- Power Pro Standard Options
- No Runner/HE O2
- Non Power-Load Compatible
- Trendelenburg
- English Manual
- 120V AC Smart Charger
- J Hook
- XPS Knee Gatch Bolster Mattress
- 3 YR X-Frame Powertrain Warranty
- 2 YR Bumper to Bumper Warranty
- G- Rated Restraint Package

#### **Wired for AVL**

- The unit shall be wired for an AVL System to also include a coaxial cable for the antenna. The location of the wiring will be determined at the pre-build conference.

#### **Net Covering for Partition Wall Cabinet #2**

- A net covering will replace the original cabinet doors for partition wall cabinet #2. The net will be secured with eight seat belt type buckles mounted to the face of the cabinet.

#### **Airpack brackets**

- Two airpack brackets shall be installed in Streetside Compartment #2. The location of the brackets to be determined at the pre-build conference.

#### **Stream Lights #44451 Orange LED Light Box w/vehicle Mount Charging Base**

- Two streamlights shall be installed with the exact location determined at the pre-build conference.

**Graphics**

Striping, Lettering, & Graphics shall all be included in the bid response to match current Barrow County Emergency scheme. See below:



**Front View**



**Drivers side View**



**Passenger Side View**



**Rear View**



**BCES logo to be placed on the driver & Passenger side cab doors**



**Barrow County Board of Commissioners  
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Submit one original (un-bound) and 4 copies

**NAME OF VENDOR:** \_\_\_\_\_

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

**CITY/STATE/ZIP:** \_\_\_\_\_

**TELEPHONE:** \_\_\_\_\_

**EMAIL ADDRESS:** \_\_\_\_\_

**PERSON TO CONTACT:** \_\_\_\_\_

**We herewith submit as follows:**

**CHASSIS MAKE:** \_\_\_\_\_

**MODEL/TYPE:** \_\_\_\_\_

**AMBULANCE BRAND:** \_\_\_\_\_

**F.O.B. POINT:** Delivered

**TERMS:** Net 10 Days from Date of Receipt.

**ADDENDA ACKNOWLEDGEMENT:** \_\_\_\_\_

Emergency Medical Vehicles	Delivered Price	Delivery In Calendar Days	Warranty Period
2 Ea. New Dodge 4500 Emergency Vehicles or Equivalent per attached Specifications and all Equipment listed as Exhibit A. (Attach detail explanation of any deviations to Specifications)	\$ _____ Each	_____ Days	
	<b>GRAND TOTAL – 2 VEHICLES</b>	\$ _____	

**RFB IS:** \_\_\_\_\_ **AS PER SPECIFICATION, TAKING NO EXCEPTIONS**  
 \_\_\_\_\_ **TAKING ONLY THOSE SPECIFICATION EXCEPTIONS**  
**AS LISTED ON PAGE 3.**



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Barrow County Board of Commissioners would like to explore all of its options when considering the purchase of Emergency Medical Vehicles. Therefore, we have made a provision below for your Company to provide additional information for units you may have available.

**Optional:**

Please list any available Demo or Used Emergency Vehicles below along with prices. Provide a complete set of specifications for each along with a list of existing equipment for each, photos, warranty and delivery in calendar days.

**DEMO**            \$ \_\_\_\_\_ Each

**USED\***            \$ \_\_\_\_\_ Each

*\*Barrow County will consider "used" apparatus if the apparatus has less than 1000 hours and/or less than 33,000 miles on the equipment. The apparatus shall also be in great working condition with a comparable design as specified in the specifications in RFB2015-7. Additionally, Barrow County reserves the right to see all maintenance/service records pertaining to the equipment and previous department information and contacts.*

It is agreed by the undersigned vendor that the signature and submission of this RFB represents the vendor's acceptance of all terms, conditions, and requirements of RFB specifications and, if awarded, the Barrow County Purchase Order, along with the RFB, will represent the agreement between the two parties.

**SIGNED:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

**NAME PRINTED:** \_\_\_\_\_

**TITLE:** \_\_\_\_\_

**NOTE:** All variations and/or exceptions must be listed on the attached pages, by page and paragraph number from specifications and explained in detail. Failure to so list exceptions will disqualify the RFB.



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**EXCEPTIONS / CLARIFICATIONS**

Each vendor may copy this form, as necessary to sufficiently list all exceptions and variations from specifications (Please list as shown, by page, reference number, and check if vendor chooses not to supply, or is unavailable, or describe deviation or substitution in detail, if furnished). Purchaser will be the sole judge of proposed substitution equivalency.

**VENDOR NAME:** \_\_\_\_\_

**OFFERING:** \_\_\_\_\_

**EXCEPTION PAGE:** \_\_\_\_\_ of \_\_\_\_\_

<b>SPEC PAGE</b>	<b>REF. NO.</b>	<b>CANNOT SUPPLY</b>	<b>N/A</b>	<b>EXPLANATION FOR DEVIATION &amp; SUB:</b>
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