

ADVERTISEMENT FOR BIDS

SPECIFICATION NO. 12-A1BFD

The City of Lexington Volunteer Fire Department, Dawson County, Nebraska, intends to purchase and invites you to submit a sealed bid for: One (1) 4 WHEEL DRIVE BLS AMBULANCE.

Sealed bids will be received until 2:00 p.m (CST), on Monday, December 30, 2013, by the Lexington City Clerk, 406 East 7th Street, Lexington NE 68850. At this date and time, bids will be publicly opened and read aloud at the City Hall Conference Room at 406 East 7th Street, Lexington, NE 68850.

It is the bidder's responsibility to ensure that bids are received prior to 2:00 p.m. on December 30, 2013, regardless of the method of delivery.

Bidding procedures and specifications are on file in the office of the City of Lexington. No bid shall be withdrawn after the opening of bids without the consent of the City of Lexington for a period of sixty (60) days after the scheduled bid closing.

The City of Lexington Volunteer Fire Department reserves the right to reject any or all bids or a part of bids, to waive irregularities and technicalities, and to request re-bids on the equipment described in the specification documents.

Each bid shall be accompanied in a separate sealed envelope by a certified check drawn on a solvent bank in the State of Nebraska or a bid bond, in an amount not less than 5% of the bid and shall be made payable to the City Treasurer of the City of Lexington, Nebraska, as security that the Bidder to whom the contract may be awarded will enter into a contract to furnish the equipment. Checks and bonds accompanying bids not accepted shall be returned to the Bidders.

Dated this ____ day of _____, 2013

City Clerk

INTENT OF

It is the intent of these specifications to describe an Ambulance in sufficient detail to enable the City of Lexington, referred to as the “Purchaser” or “Department” in this document, to secure bids on comparable equipment. It is also the intent of these specifications to cover the furnishing and delivery of a complete and soundly engineered apparatus. 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.

The equipment shall be a new, unused model. The City of Lexington reserves the right to consider quality and workmanship of proposed apparatus. Delivery time, operating characteristics, availability of service, and also design and manufacturing experience will be considered. All bids will be evaluated on the basis of compliance with these specifications and apparatus performance.

QUALITY AND WORKMANSHIP

This specification covers a new or demonstrator commercially built surface emergency medical care vehicle, herein after referred to as ambulance or vehicle. This vehicle shall be in accordance with the Ambulance Design Criteria of the National Highway Traffic Administration, U.S. Department of Transportation Washington, D.C. This bid specification is based on the Federal Ambulance Specification KKK-A-1822F or the most current revisions to KKK-A-1822F.

The purpose of this document is to provide minimum specifications and test parameters for the manufacture of an emergency medical care vehicle that meets the needs and desires of this agency. It establishes essential criteria for the design, performance, equipment, and appearance of the vehicle. All dimensions listed are given as the approximate sizes required meeting the needs of this department. The object is to provide a vehicle that is in accordance with nationally recognized guidelines. All vendors and manufactures must meet all state and local regulations regarding the manufacturing, licensing, and sale of emergency rescue vehicles and ambulances with the State of Nebraska.

ACQUAINTANCE WITH SPECIFICATIONS

It is the responsibility of the Bidder to review all of the bidding, specifications, and other documented requirements. Failure of a Bidder to be acquainted with this information shall not relieve the Bidder from any obligation of the bid requirements. 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.

All bids sent in response to this specification shall be detailed in the same order as the requested specification. It is the intent of the purchaser to review all specifications; this will allow the procedure to be conducted in a timely and efficient manner.

If the Bidder is unclear as to the intent of these requirements and conditions or any other line item listed herein; those questions or concerns should be directed to the Fire Chief.

Bidder shall supply all materials and meeting agendas and perform a preconstruction conference at the purchaser's location, at the Bidder's expense, to ensure proper component and construction placement and requirements as required within this specification. This conference shall be scheduled at the convenience of the Purchaser.

EXCEPTION TO SPECIFICATIONS

Any exceptions to these specifications must be clearly pointed out. Otherwise, it will be considered that the items offered are in strict compliance with the written specifications and that the successful Bidder will be responsible for delivering a vehicle meeting these specifications. Any exceptions must be marked as such within the body of the bid and explained on a separate page marked "EXCEPTIONS". This document shall include the page number, section heading, the text that the bidder feels he cannot comply with and an explanation why the Bidder feels that the requirement is not in the best interest of the purchaser and/or an alternate Bidder solution. Alternate Bidder solutions may be considered by the purchaser, if the Bidder can show the purchaser that the alternate solution is, in quality and quantity, equal to or better than the specified item. Explanations of exceptions taken must be documented and submitted with the bid proposal on or before the bid submission deadline. All exceptions shall be listed in chronological order.

CLARIFICATIONS

Any clarifications shall be in written correspondence between the bidder and the purchaser. A clarification shall include the page number, paragraph number, the text with unclear content (as written in the specification) and the definition of the clarification provided.

The Purchaser's clarifications shall be documented in writing and distributed to all qualified Bidders at least two business days prior to the deadline for bid submission.

BID FORMS

All bids must be submitted on the attached bid form.

ALTERNATE BIDS

Bidders are required under this bid invitation to give, for the consideration of purchaser, a proposal that will comply with the written specifications and schedules supplied within. The specifications supplied represent a compilation of input from all disciplines of users, maintenance and management personnel who are directly affected by the vehicle performance. All the personnel who have direct working contact with the

vehicle specified herein base careful consideration pertaining to safety, configuration, construction, and workmanship on working experiences. The intent of these specifications were created as a result of resolving issues and improvement suggestions that have originated from the personnel most “qualified” to make such input.

The Purchaser makes no claim that potential issues or improvements are included in the specifications supplied herein. The Purchaser will consider any valid concern by any Bidder and will consider only minor specification exceptions or alternates of equal or better performance, provided that the exceptions are steered toward meeting the intent and the exceptions are submitted with the final bid proposal on or before the bid deadline.

Additionally, it is the intent of the Department to review bid specifications for Stock units that are equal to the intent of this specification. It is at the sole decision of the Purchaser to determine whether or not the proposed stock apparatus meets and/or exceeds the Department’s expectations or intent. The City and Department may waive any technicalities in this decision and reserve the right to accept or reject any of these bids taking stock exception to the supplied specifications and intent.

VENDOR QUALIFICATIONS

Vendors will make all efforts to prove manufacturer and dealer ability to perform. Meaning, informational data should be supplied such as dealer and manufacture tenure, Nebraska Dealer licensing documents, ability to perform service after the sale for both warranty and non-warranty, ability to get ordered parts in a timely manner, lists of references both at the dealer and manufacturer level.

A certificate of current liability insurance, with a ten million dollar minimum shall be supplied with the bid submission. The certificate of insurance shall bear the insurance carrier’s name, address, and phone number. The certificate shall also bear the name and address of the insured. The document shall contain the coverage schedule, explaining the type of insurance, the policy number, the effective date of coverage, the policy expiration date, and the individual limits of liability.

GENERAL PRINCIPLES

This specification calls for the following type of vehicle manufactured in accordance with Federal Ambulance Specifications KKK-A-1822F. The bidder shall provide documentation within this bid proposal, which verifies that all KKK-A-1822F testing is current and certified by an independent engineering firm.

Type I – F-450 Super Duty XLT chassis with modular body.

Class II - Two rear wheel drive (4x4) with dual rear wheels, 189 inch wheel base, 108 inch cab to axle, Ford Ambulance prep package 47A.

This is an engineer, design, construct, and deliver type specification and it is not the intention of this agency to write out vendors or manufactures of similar or equal equipment of the types specified. It should be noted; however, that this specification is written around the specific needs of the department, with the intent to standardize certain components, specific brands have been specified in certain places. The use of a brand name or equal specification is used in this solicitation for the purpose of describing the standard of quality, performance and characteristics desired and is not intended to limit or restrict competition. Other brands will be accepted providing the vendor/manufacturer details how another brand will meet or exceed the quality of the actual brand specified.

The emergency medical care vehicle, chassis, ambulance body, equipment, devices, medical accessories, and electronic equipment to be delivered under this contract shall be standard commercial products which meet or exceed the requirements of this specification. The ambulance shall comply with all Federal Motor Vehicle Safety Standards (FMVSS) and Federal regulations applicable or specified for the year of manufacture. The chassis, components, and optional items shall be represented in the manufacturer's current technical data. Materials used in the construction shall be new and not less than the quality conforming to current engineering and manufacturing practices. Materials shall be free of defects and shall be suitable for the intended use.

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.

The Bidder shall provide an itemized list of any and all pre-payment and other discount options available. Such as Body, Chassis and pre-paint payment discounts along with any joint purchase discounts available.

The purchaser will have zero tolerance toward Bidder/Vendors who state compliance to specification, but delivers an incomplete product and/or substandard materials and workmanship.

The City of Lexington reserves the right to accept or reject any or all bids, or parts of bids and to waive any technicalities in doing so. The City reserves the right to award the bid on a split-order basis or lump-sum basis, if that is in the best interest of the City.

NON-COLLUSIVE BID CERTIFICATION

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

1. The prices in this bid response have been arrived at independently without collusion, consultation, communications, 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;

2. 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;
3. 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.

1. **BIDDING PROCEDURE**

- 1.1 Bidder shall submit two (2) sets of all supporting material.
- 1.2 This specification document, #12-A1BFD, shall be submitted in its entirety as part of the bidder's proposal with all appropriate blanks completed.
- 1.3 Any and all deviations to the specifications must be so annotated.
- 1.4 **Bid security.** As a guarantee of good faith, bidders are required to submit with their bid proposal, a bid security in the amount of 5% of the total bid, in the form of a certified check, cashier's check, or bidders bond.
A separate sealed envelope containing the security should be placed on the outside of the bid envelope.
- 1.5 Each bid must be legibly printed in ink or typewritten on the Proposal Form included in the specification document.
- 1.6 Each bid must be signed in ink by the Bidder or authorized representative.
- 1.7 Bids received after the scheduled closing of bids will be rejected.
- 1.8 **Performance Bond.** The successful Bidder shall be required to submit a Performance Bond in the amount of 100% of the total contract price. Such Bond shall be provided within ten (10) days after receiving written notice of award of contract.
- 1.9 Each bid shall include a set of Manufacturer's Specifications consisting of a DETAILED DESCRIPTION and SCALED DRAWING of the vehicle and equipment proposed and to which the vehicle furnished under contract must conform.
- 1.10 Insurance Liability. Bidders shall assume insurance and responsibility for the chassis until delivered to the Lexington Volunteer Fire Department.
- 1.11 The City of Lexington reserves the right to accept or reject any or all bids, or part of bids, to waive irregularities and technicalities and to request rebids on the material described in the specification documents.
- 1.12 The City of Lexington reserves the right to award the bid on a split-order basis or lump-sum basis, such as shall best serve the interest of the City.
- 1.13 **Exception.** If bidding other than specified in this document, the Bidder must itemize and detail the exception.
- 1.14 References. The Bidder must list at least three (3) apparatus in service of type bid. The information shall include; Type, delivery date, location, and contact person.

2. WARRANTIES

- 2.1 Warranties. The equipment furnished under these specifications shall be warranted against defects in material or workmanship for a minimum period of one (1) year/12,000 mile from date of acceptance by the Lexington Volunteer Fire Department.
- 2.2 The manufacturer shall include with the bid, full terms of warranty on defective parts and/or components, the improper choice of materials, parts, and/or components, improper design or engineering, and poor or improper workmanship or quality control techniques. The warranty shall cover the complete vehicle and shall include any and all costs for labor and parts or materials that are required to correct any and all deficiencies.
- 2.3 If defective parts are required to be returned to the bidder or received by the Lexington Volunteer Fire Department, the shipping costs shall be borne by the Bidder.
- 2.4 Selling dealer's advertising decals, stickers or markings shall not be affixed to the material unless approved by the Lexington Volunteer Fire Department.
- 2.5 In the event the items supplied to the Lexington Volunteer Fire Department under this bid are found to be defective or do not conform to this specification document, the Lexington Volunteer Fire Department reserves the right to cancel the order upon written notice and return materials to the Bidder at the Bidder's expense.
- 2.6 In the event of breakdown or failure of the equipment within the specified warranty period, the seller shall promptly repair the equipment at the seller's own expense.
- 2.7 There shall be provided a 6 year/72,000 mile electrical warranty which covers all conversion circuit boards, harnesses, switches, circuit breakers, and relays.
- 2.8 There shall be provided a minimum of a fifteen [15] year transferable modular body structural warranty. The term "transferable" is to cover the transfer of the warranty to a second purchaser should the department sell this unit at a later date. The fifteen [15] year structural warranty period shall also remain in effect should the modular body be remounted onto a new chassis. This remount must be performed at a service center authorized by the original manufacturer.
- 2.9 There shall be provided a four [4] year/100,000 mile limited paint warranty.
- 2.10 A copy of your company's maintenance and repair policies must accompany the proposal.
- 2.11 To ensure quality, service and full compliance to the above warranties, the vehicle, with the exception of the chassis, must be constructed by the ambulance manufacturer. Additional elements constructed and installed "in house" are required to ensure service and parts availability.

3. DELIVERY

- 3.1 Each bidder shall clearly state in number of calendar days, upon which they can make delivery of all equipment. Time for delivery is to be an essential element of the contract. Since delivery proposals by the Bidder will weigh heavily in the determination of the bid award, the delivery schedules that are submitted by the Bidders shall automatically become binding upon the successful Bidder. (Delivery delays due to component supply problems or chassis delivery problems to the manufacturers shall not penalize either the dealer or the manufacturer.) Delivery must be within the specified delivery date the bidder stated. Failure by the Seller to deliver the ambulance by such time specified on page 2 of this document will result in payment by the Seller in the amount of .05% of the contract amount per day.
- 3.2 Bids shall be based upon delivery of the equipment to the Lexington Volunteer Fire Department, 606 North Tyler, Lexington, NE 68850. All transportation charges and costs paid for by the Bidder.
- 3.3 The Lexington Volunteer Fire Department reserves the right to cancel orders, or any part thereof, without obligation, if delivery is not made within the time(s) specified in the proposal.
- 3.4 The Manufacturer shall supply, the following, at the time of delivery one (1) complete copy of operation, maintenance and parts manuals covering the completed vehicle, including but not limited to the chassis, engine, transmission, brakes, axles, wiring, lubrication charts, and other equipment. The manuals will be at no additional cost. Two (2) copies of “as built” customized electrical schematics for the ambulance conversion.
- 3.5 Successful Bidder shall be required to furnish title to the vehicle, free and clear of all liens and encumbrances at delivery.

4. TERMS OF PAYMENT

- 4.1 Payment will be made in full by the City of Lexington within thirty (30) days of delivery, after all labor has been performed and all equipment has been delivered and all materials and equipment have met all contracts, specifications and acceptance tests.
- 4.2 Bidder shall provide an itemized list of any and all pre-payment and other discount options available. Such as, taking delivery or picking up the apparatus at the factory, discounts for pre- chassis payment, pre-paint payment, joint purchase, etc.

5. PRE-CONSTRUCTION CONFERENCE / INSPECTIONS

- 5.1 The City of Lexington and contractor will participate in a pre-construction conference to review and finalize construction details, at the Bidders expense.

SPECIFICATIONS #12-A1BFD

6. GENERAL VEHICLE DESIGN, TYPE, AND FLOOR PLAN

The ambulance and the allied equipment furnished under this specification shall be the manufacturer's current commercial vehicle of the type and class specified. The ambulance shall be complete with operating accessories as specified herein and furnished with such modifications and attachments as may be necessary or specified to enable the vehicle to function reliably and efficiently in sustained operation. The design of the vehicle and the specified equipment shall permit accessibility for servicing, replacement, and adjustment of component parts and accessories with minimum disturbance to other components and systems. The term "HEAVY DUTY" as used to describe an item, shall mean in excess of the usual quantity, quality, or capacity that is normally supplied with the standard production vehicle or component.

6.1 Chassis

These are to be considered the minimum requirements for this section based upon past configurations of Lexington Volunteer Fire Department ambulances.

- 6.1.1 2014 Ford F-450 Super duty XLT chassis with 4 wheel drive and dual rear wheels, 189 inch wheel base, 108 inch cab to axle, Ford Ambulance prep package 47A.
- 6.1.2 Ford 6.7-liter Power Stroke Turbo Charged V-8 Diesel with OEM engine block heater wired to shoreline, with a disconnect point.
- 6.1.3 Torqueshift™ electronic five-speed automatic overdrive transmission with external oil cooler.
- 6.1.4 The Ford OEM APC module shall be standard. The module will be mounted in the front switch console. The APC Module is to be programmed in the "Charge Protection" mode. When the vehicle is in park, service brake disengage and the parking brake is set, the APC mode shall electronically adjust the engine idle (up or down) to maintain proper electrical system voltage.
- 6.1.5 Self-adjusting brakes shall be Ford OEM standard hydraulic disc brake system with front anti-lock and shall be of heavy duty design with 4-wheel anti-lock.
- 6.1.6 Axle ratings, springs, and shocks: MinMax. GVWR – 16,000 lbs. GVWR Front: Monobeam with coil springs, shock absorbers and stabilizer bar.

Rear Axle: Non-independent live axle with Kelderman Air Ride installed. This system shall be a 4 air bag system and shall be controlled both from the cab and the rear doors. The system's compressor and tank shall be mounted in a clean area and in such a way to not distort general storage of Department gear. Rear axle: 4.88 gear ratio with limited slip axle.

- 6.1.7 Vehicle shall be equipped with seven (7) wheels and tires. Tires shall be OEM steel belted radials with all-season tread design. Wheels shall be aluminum. Spare tire shall be shipped inside the rear street side compartment.
- 6.1.8 Speedometer, odometer, fuel gauge, temperature, oil pressure, digital voltmeter, and engine hour meter.
- 6.1.9 Power steering with tilt wheel and cruise control.
- 6.1.10 OEM recreational 8"x6" heated power adjustable mirrors and built-in convex mirrors, dual direction breakaway mounting arms with telescoping width adjustment.
- 6.1.11 Heat Shields to further insulate and protect the patient compartment, the ambulance manufacturer shall install aluminum sheet below the sub floor material to act as heat shield and vapor barrier. Steel heat shields shall be installed over the chassis exhaust system.
- 6.1.12 Single fuel tank with 38 gallon capacity.
- 6.1.13 Four 12 volt batteries of either "No Maintenance" or "Low Maintenance" design. They shall total not less than 1400 CCA with 180 minutes of reserve capacity. Two will be mounted in the engine compartment and wired parallel in OEM configuration that complies with Ford QVM and KKK-A-1822F requirements. Two will be mounted in the module right lower curb side to be specified during pre-build meeting. Batteries will be wired so that all will always be used for starting and controlled by a power cut off switch. The Ford ignition key activates the cut off switch. Power can be provided to the module without the engine running by turning the ignition key to accessory position.
- 6.1.14 Dual Ford OEM alternators with internal regulators, 320 amps and external rectifier as included with the Ford Ambulance Prep Package shall be supplied.
- 6.1.15 Two speed electric, windshield wipers, with washer and adjustable intermittent cycle.

- 6.1.16 OEM heaviest duty, high output heater, and air conditioner will be installed.
- 6.1.17 Tinted safety glass is installed in all exterior windows. Ford OEM power operated windows.
- 6.1.18 Engine cooling system is to be a heavy-duty liquid system using a 50/50 mix of permanent type antifreeze and water for protection to -40° Fahrenheit.
- 6.1.19 XLT Trim Package; aluminum wheels, chrome front bumper and grill. Color keyed door trim with map pockets, rubber floor mat, padded sun visors, courtesy and dual dome lights, AM/FM Stereo Radio with CD & Clock with dual cab speakers. Power door locks, cruise control, tilt steering wheel, and power adjustable brake and accelerator pedals.
- 6.1.20 Driver's compartment will consist of dual OEM High Back Captain's Chairs, **with inboard fold-down armrests**, seat belts, and shoulder harnesses.
- The Ford OEM cab seats must be the seats installed and shipped with the chassis by Ford and have the correct Ford prescribed serial number. The Ford OEM seat pedestals shall be located in the mounting location as determined by Ford. Any changing of the Ford OEM Seats, mounting pedestals or location thereof is absolutely prohibited.
- 6.1.21 Two "NO SMOKING OXYGEN EQUIPPED" and two "FASTEN SEATBELT" signs, one each in the cab and one each in the patient compartment.
- 6.1.22 A back-up alarm shall be installed that will activate whenever the ambulance is put in reverse gear. A rear camera shall also be used and tied into the multiplex or equivalent system.
- 6.1.23 Heavy-duty aluminum diamond plate running boards will be installed from the back of the front wheel opening to the front of the module box. They will include mudguards to protect the chassis and module. Rubber mud flaps will be installed behind the dual rear wheels.
- 6.1.24 Remote entry with two key FOBS' shall be included.
- 6.1.25 Jewel effect day time running headlights, dual pitch horn, reduced sound level exhaust, OEM standard undercoating, step-well pad and factory supplied jack and tire tools, dual air bags.

6.1.26 This item is to be bid as an **optional/add on** item. A dual camera (HD) high definition video recording system of a compact design shall be installed. It should be of rugged design with a slide in docking station. Pre-event recording (up to 45 seconds), event-triggered recording with industry standard connections. A software interface and 60GB hard drive for 24 hour recording capacity. Mounting of this is preferred in place of the rear view mirror, the monitor screen shall be easily scene by the driver. One camera shall face forward and one shall be installed at the upper rear of the ambulance to aid in backing up. Bidder shall state which system they are bidding and its capabilities. Different systems can be bid as long as detailed differences are easily identified.

7. VEHICLE BODY

7.1.1 The below stated dimensions are considered approximate. Any changes please outline on the Bidders exceptions page as outlined earlier.

Overall vehicle length	300 inches
Overall vehicle height	110 inches
Overall module body length	170 inches
Overall module body width	96 inches

7.1.2 Construction of the Module shall be the responsibility of the bidder to describe. The construction methods used by the manufacturer shall be at least to industry standard and should meet all KKK-F requirements for static load and safety. In addition to the above requirements it is the bidder’s responsibility to include all information regarding how or if the manufacturer is taking steps to exceed the national standards to increase the occupational safety of the patient and the EMS crew.

7.1.3 The floor shall be at the lowest level permitted but not more than 34 ½ inches from the ground when the air ride system is in the lower position. This is a KKK requirement and goes to the safety of the crew.

It is the Bidder’s responsibility to describe the construction of the Module Floor sub-structure. Any deviation from QVM or KKK requirements on this option are not allowed.

7.1.4 The ambulance’s interior dimensions shall be considered approximate. Any changes please outline on the Bidders exceptions page.

Length forward door to rear door	161.0 inches
Width interior wall to wall	92.0 inches
Width of aisle	49.0 inches
Height floor to ceiling	72.0 inches
Loading height	34.0 inches/32.5 inches dumped

- 7.1.5 Construction of the exterior compartments shall be the responsibility of the Bidder to describe. The construction methods used by manufacturer shall be to industry standard and should meet all KKK-F requirements for static load and safety. In addition to the above requirement the bidder shall illustrate all information regarding how or if the manufacturer is taking steps to exceed the national standards to increase the occupational safety of the patient and the crew.
- 7.1.6 Exterior compartments door construction description shall be described by the Bidder. Construction methods shall be to industry standard and should meet all KKK-F requirements for static load and safety.
- All exterior compartment and patient compartment entry doors shall be insulated with a single layer of R-14.5 insulation. Additionally there shall be a single layer of 2" polystyrene insulation installed in each door.
- 7.1.7 Rear patient compartment doors shall be equipped with Cast Products "Grabber" hold-open devices. Side patient compartment door shall be hinged and be equipped with Gas Strut door opening device.
- 7.1.8 Rear and side patient compartment doors shall have dark tinted safety glass windows encased in extruded aluminum frames. Each rear door shall have a fixed window. The side door shall have a slide opening window with screen and window lock. The patient compartment shall include a standard size, curb side window with dark tinted safety glass. In addition, to aid in the privacy of the patient a window covering shall be installed. It shall be similar to window covers that fit in the back of pickup windows and it will be able to have print graphics over this covering. The right and left side skirts of the body, forward of the rear wheels, shall be lower than the right and left skirts aft of the rear wheels. This is to allow easier access into the side entrance door and the left side forward compartment of the vehicle. An intermediate step shall be provided in the side entrance door step well constructed of aluminum diamond plate with a turtle tile non skid stepping surface on the intermediate step.
- 7.1.9 Module roof construction description shall be described by the Bidder. Construction methods shall be to industry standard and should meet all KKK-F requirements for static load and safety.
- 7.1.10 Installed in the center of the rear kick plate above the rear step bumper, there shall be a Cast Products license plate holder.
- 7.1.11 The rear bumper shall be a minimum of 92" long and 10" deep. The bumper shall be bolted to the chassis frame rails. Under no circumstance

shall the bumper be mounted to the body or welded in place. There shall be supports built into the bumper framing to reinforce the end pods. The outer ends of the bumper are constructed of aluminum diamond plate. The center section shall be a minimum of 7" x 48" x 2" of an open crate Grip-Strut material and will flip up for ease of loading cot. There shall be an aluminum diamond plate cover on the rear face of the flip-up step. The aluminum step will be bolted to the sub frame for ease of replacement. An aluminum diamond plate shall be secured to the full width of the body between the step and the threshold.

- 7.1.12 A full length body rub rail shall be attached to both sides and extended at least 1 ½" from the body below the compartment doors. The rub rails shall be attached to the bottom of the body sill plate via a shear bolt system that will allow the rub rails to slide under the body and not damage the body sill plate should the vehicle be struck. The lower forward corners of the body shall have aluminum diamond plate rolled around the corner radius and terminate at the junction of the cab and the body.
- 7.1.13 Polished stainless steel rear wheel well fender protectors shall be provided.
- 7.1.14 Body hardware shall be of the latest design and construction methods.
- 7.1.15 Prior to installation of the insulation, the entire interior body surface will be sprayed with a heavy coating of a suitable substance to provide sound deadening and corrosion protection. The floor and ceiling shall be covered with a heat reflecting material. The module shall have a minimum of 2" Kraft face fiberglass batting insulation in the walls and ceiling. The insulation shall be fire retardant, non-settling, non-hydroscopic, and mildew and vermin proof. Petroleum based undercoating shall be applied to the full undercarriage of the module. Undercoating must be applied according to Ford QVM guidelines.

8 ELECTRICAL

- 8.1.1 The ambulance shall be controlled and wired to all pertaining KKK and AMD standards. Both conventional hardwired with circuit boards and multiplex systems are acceptable. In the event that a manufacturer uses one or the other it is up to the bidder to explain that manufacturers methods and how they may be superior. The price for both systems shall be itemized in the bid. A high current disconnect device shall be installed per the requirements of KKK-A-1822 to power all ambulance vehicle conversion and modular body functions. The device shall be activated by the chassis ignition signal, and shall have a 5 minute off delay for module functions when the chassis ignition switch is turned off.

- 8.1.2 All electrical storage areas, routing, assembly shall be made in such a manner for easy control and service. All finished aspects of this section shall be concealed to create a clean and safe environment for the patients and the medical attendants.
- 8.1.3 All insulated cable shall be high temperature thermoplastic insulated. Wire shall be of a gauge size to carry 125% of the current required without overheating. All wires are to be color coded and stamped for the continuous length of the line with the function of the circuit. Where practical, all wires shall be routed in high temperature looms with a rating of 300° F.
- 8.1.4 All auxiliary circuitry shall incorporate overload protection devices or automatic or manual reset thermal breakers. The bidder describes the manufacture's process.
- 8.1.5 Grounding must be accomplished by use of a full ground wire harness. All ground wires shall be white in color and stamped periodically with the word "GROUND" or lettering "GRND". Ground return connections shall be made to the chassis structure, protected from corrosion, and available for service. In no case shall the aluminum body be used as a ground return.
- 8.1.6 There shall be two (2) Cigar style 12V DC outlets, one located in the action area, and one in the right front bulkhead ALS compartment. All 12V DC outlets are to be wired to the battery side of the system.
- 8.1.7 There will be a weatherproof, Kussmaul spring loaded 110V-125V male auto eject receptacle rated at 20 amps with a spring-loaded cover assembly located on the front left corner of the module body for incoming 110-volt power. This receptacle shall be labeled. The auto eject shall be connected to the vehicle starting switch so when the engine is started the auto eject drives the shore line connection from the inlet. It will be wired through one 15-amp circuit breaker and then to a Vanner 1050 charger/inverter combination or equivalent. The circuit shall include six (6) 110-volt interior receptacles. Two (2) additional receptacles shall be provided in the cab of the vehicle. All outlets shall illuminate per KKK-A-1822-F. Locations of receptacles will be finalized at pre-construction conference.
- 8.1.8 Scene lights will consist of four (4) LED scene lights 9"x7" with 13-degree tilt built into the lenses mounted two lights on the left side and two lights on the right side. The rear most scene light on each side shall activate when the ambulance is in reverse. There will be two (2) scene lights 9"x7" with 13-degree tilt built into the lenses mounted on the rear of the module. A separate switch on the driver's switch panel shall control

each pair. The right side and rear scene lights shall activate when the right side or rear doors, respectfully, are open.

- 8.1.9 The ambulance will have unsynchronized warning light systems. All warning lights will have clear lens, be set to random flash and have chrome flanges. Additionally the use of all LEDs are required, to allow for better warranty, serviceability, and less wear on the electrical system. LED brand is not required but is limited by evaluation to Federal, Code 3, or Whelen. Whelen Super LED is preferred. All LEDs must meet FMVSS, KKK, and AMD requirements for ambulance use and shall be configured as outlined below.

Qty. 5 forward facing 9"x7" in size light wall- R/B, R/B, W, R/B, R/B
Qty. 2 right side facing 9"x7" in size light upper- R/B, R/B
Qty. 2 left side facing 9"x7" in size light upper- R/B, R/B
Qty. 3 rear facing upper 9"x7" in size- R w/brake, A, R w/brake
Qty. 2 at the rear windows 9"x7" in size- R/W and B/W
Qty. 4 linear 5x2 in size in the grille 2-R/W and 2-B/W
Qty. 2 cab fender intersection 7"x3" in size- R/W
Qty. 2 rear wheel well intersection 7"x3" in size- B/W

Circuit shall have a dual mode switch; "Primary" and "Secondary".

Other exterior lighting will consist of headlights with "wig wag", ICC clearance lights with chrome brush guards, parking lights, hazard warning lights, license plate lights, and tail/stop/backup lights. Turn lights shall be amber with arrow located on lower third of the body, each side and backup lights will be Whelen clear, all set into polished aluminum bezels. There shall also be two (2) side body rear lights that will show through the rear windows with red lenses that flash with turn signals and steady-burn DOT brake lights.

- 8.1.10 Magnetic door switches are to be installed to activate Door Open, Compartment Open, Dome and Scene Lights. This system will be controlled through the main electrical system of the ambulance.
- 8.1.11 Siren will be 100 watt or better with Wail, Yelp, Hi/Low, and Phaser sounds. This system will function through both the horn ring and manually at the siren control head. Dual Cast Siren Speakers shall be mounted outboard in the face of the Chrome Front Bumper, below the Headlights, in cast aluminum housings. A manually activated Howler system will be installed.
- 8.1.12 A "300,000 candle power" spotlight, with an eight foot coiled cord and momentary switch, will be permanently wired into the front console. A "Mic" style storage clip shall be provided.

- 8.1.13 A digital clock, with military and standard time with seconds will be installed above the rear patient entry doors and shall be visible from all seat locations.
- 8.1.14 Module ceiling headliner shall contain eight (8) High-Low intensity LED dome lights. The left and right banks of lights shall be switched separately. In addition, the left bank high mode can be switched from the drivers switch panel. All eight lights will be activated by opening of the side and rear doors on the “LOW” setting.
- 8.1.15 There will be two (2) fluorescent 39” “Checkout Light” fixtures installed in the headliner and switched independently via a single switch on each fixture or in common by a single on/off switch located in the action area. The “Check Out” lights shall be wired in such a manner to allow them to be operational when the master switch is in the on or off position by a timer located at both the side and rear module entrance doors. In addition a 10” fluorescent light will be in the action area.
- 8.1.16 A SCCOR or Impact Model 324 self-contained suction system or equivalent shall be provided and mounted on the back wall above the action area counter top just forward of the CPR seat.
- 8.1.17 A 138 CFM exhaust fan shall be mounted near the ceiling in the left rear of the patient compartment area and shall be activated by a switch on the action wall.
- 8.1.18 A switch console mounted in the center of the cab floor between the seats in such a way as to not interfere with access to the dash yet easily accessible to the driver. The console shall be easy to remove as to allow access for service. There shall be space provided for the installation of radios below the switches and gauges. The center console shall include a minimum of 3 divided map boxes. The switch panel and map boxes shall be esthetically appealing and incorporate either the Multiplex, Touchtech, V-Mux, Vista, or modern switch system and gauges as follows:
Master Switch
Load Manager/Sequencer
Primary/Secondary
Siren/Horn
Left Scene
Right Scene
Rear Scene
Rear Dome Light
Back up Alarm Disable
Silent Intercom Lights
Door Ajar Light

Compartment Open Light
Voltmeter
Module Disconnect
Rear Air Dump

8.1.19 A Low Voltage Alarm shall sound when voltage drops below 11.8 volts for more than 120 seconds.

8.1.20 The following switches will be located in the rear control panel, which will be hinged for easy access to the components. This panel will be in the action area. The switch panel will be esthetically appealing and incorporate both the multiplex or modern switch system and gauges as follows:

Left Dome High/Low
Right Dome High/Low
Silent Intercom Switches
Driver Buzzer
Exhaust Fan
Checkout lights
Thermostat Control for Heat/A.C.
Heat/A.C. Fan Control with three (3) speeds
Suction Pump
Inverter Switch
Oxygen Control

The above mentioned switch panel will be located above the action area in a gang-mounted switch panel. Switch panel shall be mounted to a separate cabinet face cut to provide ease of operation and visibility from either the rear facing attendant seat or the side mounted CPR seat. Switches will be backlit, have lighted legends and grouped according to their function. All other systems will be consistent with that particular system.

8.1.21 A 1000 watt inverter shall be installed, totally accessible from an outside compartment. Two (2) receptacles are to be installed to receive 115 AC power from the inverter, one located in the action area and one located above squad bench. A switch in the rear console and an automatic transfer switch shall be furnished which will turn off the inverter 12 volt supply when the 115 volt utility shoreline power is applied.

8.1.22 A cabinet behind the rear facing attendant seat or to the side will house the electrical components. Solenoids, relays, circuit breakers, etc. will be on a module disconnect panel for ease of maintenance and repair. The isolators shall be housed in an area directly below this module. Ample venting shall be supplied.

- 8.1.23 All electrical equipment will be electromagnetic radiation suppressed, filtered, or shielded to prevent interference to radio and telemetry equipment.

9 PATIENT COMPARTMENT ACCOMMODATIONS

- 9.1.1 Sub floor shall consist of a one (1) piece corrosion resistant aluminum sealed watertight. On top of the aluminum sub-floor there shall be a single sheet of 3/4" exterior grade composite that is caulked and sealed.

The floor will be covered with a single piece of commercial-grade LON-style or alto-style non skid flooring, which shall roll up to the left wall and the squad bench at least 3". Behind the linoleum at the base of the left wall and the squad bench, covering shall be installed providing a solid backing at the point of the bend in the floor. This covering shall run the full length of the left wall and the squad bench. Flooring shall be sealed at all edges to prevent water from seeping between the floor and cabinets.

A formed 6-10 inch, full width stainless steel floor protection strip shall be installed forward of the rear patient compartment door seal. An antiskid tape, two inch wide tape, is to be laid the full width just inside the rear entry doors over the floor protection strip.

- 9.1.2 All interior cabinets shall be built using aluminum and the bidder shall describe their construction methods.

Exposed cabinet surfaces, interior and exterior, are to be covered with laminate. All cabinets and counter tops shall be caulked and sealed. Cabinets shall incorporate 1" aluminum radius corners throughout and have generous padding to lessen the chance of injuries in the event of an accident. Cabinet countertops shall be designed of a one-piece stone or simulated stone material for the attendant in the action area.

Sliding Plexiglas Windows shall be 1/4" thick with full height extruded aluminum handles mounted in full perimeter slide track. Door catches shall be flush-mount slam-type positive latching.

All cabinets shall be tilt out in addition to sliding. All cabinets shall have seal lock holes for use of cabinet control devices. Bidder shall explain construction methods.

- 9.1.3 Attendant's overhead cabinet will be approximately 12" high x 51" wide x 18" deep installed above the action area. It shall have sliding Plexiglas doors and one (1) adjustable shelf.

- 9.1.4 The action area shall be an efficient and accessible area, located to the right of the attendant seat. Oxygen and suction/aspiration equipment outlets will be readily available. It shall be approximately 18" high x 50" wide and provide a counter for the attendant's use. The counter top will have a 3/4" lip on the forward edge. There shall be a 3" cover plate to the right of this cabinet for access to wiring raceway. A cabinet with a sliding Plexiglas door, approximately 10" high and 40" wide shall be located below the action area counter top. For attendant safety, the foremost vertical leading edge and top horizontal edge of the action area cabinet will be generously trimmed with a fabric-backed padded vinyl.
- 9.1.5 A rear facing attendant seat with left side armrest, of high-back, captain chair design will be located to the rear of the partition wall. The seat base will swivel. It shall be bolted thru the module floor for structure. A retractable two point seatbelt in a totally enclosed housing shall be provided. This seat shall have integral child seat installed. A retractable computer work station shall be included near the rear facing attendant seat to accommodate a standard size laptop computer. A concealed compartment flush mounted with latch shall be installed for a sharps container so that it will be assessable to the attendant.
- 9.1.6 The CPR seat will be located to the rear of the first action area and shall be a bench type seat. This area is intended for use as an attendant seat for administering aid to a patient when the center mount cot position is used. The seat cushion must be a minimum of 3" thick x 18" deep x 22" wide and be of the same material and design as the squad bench cushions. This seat shall have an approximate 26" width.
- 9.1.7 Street side cabinet module: To the rear of the CPR seat there shall be a cabinet module and a second action area (work counter). The counter area shall be approximately 23" high x 22" wide. The overhead cabinet shall be approximately 12" high x 50" wide, have one (1) fixed vertical divider, and contain one [1] adjustable shelf each side. The center rearmost cabinet shall be approximately 23" high x 25" wide and contain two [2] adjustable shelves. Additionally, a cabinet shall be below the second action area. All sliding Plexiglas doors shall have full length extruded aluminum pull handles bolted thru the Plexiglas. All adjustable shelves shall have a minimum 1/2" perimeter lip. These retainer lips shall be covered with a soft, pliable trim. Shelf height shall be infinitely adjustable through the use of C-channel shelf tracking. Below the cabinet a three compartment divided glove box shall be installed as close to the rear doors as possible.

- 9.1.8 The appropriate center floor mount position mounting brackets will be supplied, for a Stryker Power Pro cot. Additionally, this vehicle MUST meet or exceed Litter Retention System standards.
One (1) Stryker Power Pro XT cot shall be included as an optional item in the bid.
- 9.1.9 The oxygen storage compartment shall be located in the street side front compartment if a different area is used the manufacturer must state where this will be. The compartment shall be vented through the exterior door with a minimum 22 square inch opening. The vent opening will be covered with a polished aluminum vent cover. It will be attached with stainless screws. A tank storage bracket will be mounted in this compartment. This vehicle MUST additionally meet, or exceed, Oxygen Tank Retention System Standard.
- 9.1.10 The squad bench should be approximately 22" deep and 80" wide and have a lids with storage under the bench. The lid shall have a gas prop style hold-open device and latch that automatically holds the lid closed (preventing opening in case of accident). The lid shall automatically rise when the latch is released. Three [3] sets of retractable seat belts are required for seated passengers and for securing a stretcher. The retractors shall be automotive style with plastic housings and orange in color to be easily identified. The bench lid, when opened, will provide access to storage below. The lid will be fitted with a removable cushion covered with a heavy grade fabric-backed vinyl. The cushions will be zippered at the rear so that the vinyl cover may be removed for ease of cleaning. A matching full-length removable backrest will be mounted on the wall behind the squad bench. The squad bench seat cushions and backrest will be machine stitched. It will be installed at the forward end of the squad bench. Also located at the front of the squad bench will be a flush mounted compartment that is capable of storing at least two (2) D-Oxygen cylinders. A web belt that attaches firmly to the squad bench and the roof shall also be installed to help protect the attendant from going forward off of the bench in case of an accident.
- 9.1.11 The vehicle shall meet or exceed Standards for Sound Level Test Code for Ambulance Compartment Interiors and Carbon Monoxide Levels for Ambulance Compartment Interiors.
- 9.1.12 A bracket for a trash can shall be provided, location to be determined at the preconstruction conference.
- 9.1.13 A recessed glove holder holding three (3) sizes of gloves shall be installed on the left side wall towards the rear interior, final location will be determined in pre-build conference.

10 PATIENT COMPARTMENT TRIM

- 10.1.1 The ceiling head liner shall be a high gloss white Formica surface backed with a non-expanding, non-rigid material. There will be a full length plate in the center of the ceiling as an access to the wiring harness and antenna base. The access plate shall have a padded vinyl cover.
- 10.1.2 The wall panels shall consist of minimum .028" plastic, pressure laminated to a non-expanding, non rigid substrate material. Formed ABS or fiberglass is not acceptable.
- 10.1.3 Each module patient entry door shall have a 1" diameter polished stainless steel inside pull handle. All patient entry door openings shall have a heavily padded vinyl head protection pad installed. The patient entry doors will have Soft Touch ABS vacuum formed panels installed on the interior face. Panels shall have minimal stitching and fasteners. These will be full height and width and shall be color coordinated to the chassis cab. The lower 12" will be faced with bright polished smooth finish aluminum or stainless steel plate kick panel.
- 10.1.4 Four [2] ceiling mounted recessed IV holders shall be supplied. One [1] over the squad bench and one [1] over the primary cot at the head and foot area. They shall be formed of cast aluminum and have a 1/4" minimum chrome plated wire with fold-away storage when not in use. Each holder must have capacity to hold two {2} bags/bottles and Velcro securing straps.
- 10.1.5 There shall be two assist rails. One [1] 90" long, 1" diameter polished stainless steel overhead assist rail must be provided and securely fastened to the ceiling over the primary cot. One [1] 60" long, 1" diameter polished stainless steel overhead assist rail must be provided and securely fastened over the squad bench. Assist rails fastened with self-tapping machine screws are not acceptable.
- 10.1.6 A cab to body pass-thru window shall be installed in the front of the body and rear of cab. In the front of the body the module framework shall be positioned to allow for a minimum opening of 18" wide x 18" high. The opening shall include a double sliding window for privacy. The rear of the cab shall be modified by adding a flange to the rear glass center framework section. The frame flange shall have a matching 5/8" flange to align with the opening in the body and provide approximately a 1 3/4" gap between the cab and body for flexing.

11 MEDICAL, OXYGEN, SUCTION, AND ASPIRATION SYSTEMS

11.1.1 A sharps container with crash-stable mounting bracket shall be supplied and shipped loose.

11.1.2 The oxygen system shall be capable of storing and supplying 3000 liters of oxygen to one (1) outlet on the action area. One (1) oxygen outlet will be installed on the wall on the bench side toward the front. One (1) oxygen outlet will be installed on the ceiling towards the head of the patient. Department shall specify brand of quick-connectors to be used. A compartment as specified in 10.1.9 shall have a cradle for a "M" size oxygen tank. This bracket shall be located in the front of the compartment (tank will be provided by the department). A suitable high-pressure hose will be provided. The concealed oxygen piping will be 1/4" I.D., 1/2" O.D. nylon hose with polyester fiber reinforcing. The electrically conductive hose must be certified to 1875 PSI and have a 7500 pound burst rating. Piping shall run overhead and be secured with non-abrasive plastic "C"-clamps. The entire oxygen system will be subjected to a 155 PSI leak test for 24 hours prior to installation of the cover panel. After the vehicle is completed, the same test must be conducted for a period of two (2) hours to insure system integrity. This test must be performed using nitrogen gas to purge the lines of all moisture and foreign debris. Upon completion of the test, the lines must be capped. Two (2) flow meters with a quick-connect (to fit O₂ outlets) fitting and one (1) oxygen regulator/contents gauge shall be supplied with the vehicle.

An electric powered oxygen shut off solenoid shall be installed and mounted on the output of the oxygen bottle regulator. It shall be controlled by a switch located at the action area. The solenoid shall be approved for medical oxygen use and be equipped with a manual override valve (in the event the electric solenoid may fail to open the valve). An electrical rectifier shall be installed in the circuit to prevent voltage spikes from entering the electrical system.

11.1.3 An aspirator system with disposable canister shall be supplied. This shall be located on the action area wall. An electric suction pump shall be supplied and installed on the floor (left rear) of the street side second compartment and be covered with a protective metal grating. The line from the vacuum pump to the wall outlet shall be 3/8" I.D. double braided neoprene hose. The vehicle suction system shall have the capability of attaining a vacuum of 300 millimeters of mercury within four [4] seconds. There shall be a vacuum control and shut-off valve to adjust the vacuum levels or to discontinue aspiration immediately.

12 ENVIRONMENTAL SYSTEM

- 12.1.1 The ambulance cab will be equipped with an in-dash air conditioner and heater. The patient compartment shall be equipped with a combination water heater/air conditioner and a power exhaust vent. Cab and patient compartment units will operate as separate and independent environmental systems. The controls for the rear environmental systems will be located in the action area switch panel.
- 12.1.2 The patient compartment Heat/Cool unit shall be a combination heater/air conditioner having the highest possible cooling and heating capacity BTU available. This unit shall be installed per manufactures discretion. The fan shall be a dual squirrel cage, permanent magnet type with a three [3] year warranty. Two [2] automatically controlled liquid shut-off valves shall be installed permitting use of the system. Temperature shall be controlled by a thermostat located on the forward most wall of the action area. Fan speed shall be controlled manually by a 3-speed fan switch located on the action area wall. Air vents shall be distributed along the ceiling over the patient area.

13 MISCELLANEOUS

- 13.1.1 One [1] each, antenna base (mounted front center of truck cab roof), 10 gauge power and ground wire and power/ground/coax shall be installed behind passenger seat. There will be an 18" service loop at the antenna base and a 36" service loop at the termination.
- 13.1.2 Radio communication equipment supplied by Lexington Volunteer Fire Department to be installed shall by bidder. Location of communication equipment will be determined prior to installation. Bidder shall state who will be installing this equipment.
- 13.1.3 One (1) five pound rated ABC fire extinguisher with mounting brackets shall be furnished loose with the ambulance.
- 13.1.4 One (1) Stream Light lite-box with vehicle mount charger, mounting hardware, to be wired and installed. Location to be determined.

14

EXTERIOR BODY ACCOMMODATIONS

- 14.1.1 Only the highest degree of quality material and processes shall be used in the painting of the vehicle. The painting of the module body shall provide a minimum 4 year, 48,000 mile warranty against peeling, cracking, crazing, extensive loss of gloss, color fading, color chalking and moisture blistering. To support this warranty only a two [2] stage base coat, clear coat type paint shall be applied. Single stage paints are not acceptable.

The white paint scheme with red and blue striping shall be provided with final paint scheme to be determined at the preconstruction conference. On the rear of the ambulance a Chevron reflective scheme, colors to be determined. The following DOT approved Star-Of-Life decals shall be provided: two 6", two 12", two 16" and one 36". One (1) Mirror-Image "AMBULANCE" mounted on bug screen and three 6" AMBULANCE.

In addition to the decals listed above the Bidder shall make provisions to letter this ambulance to Department specification to be determined at a pre-build conference.

Bidder shall provide detailed description of painting method.

NOTE: Attachment, example of paint scheme.

- 14.1.2 The rear wheel wells shall be trimmed with polished Stainless Steel Fenderettes that shall be attached to the body with stainless steel fasteners. There shall be a gasket placed between the aluminum body and the stainless steel fenderette for isolation of the dissimilar metals.
- 14.1.3 Clear anodized extrusion rub rails with a wall thickness of (.187) shall be bolted on. They shall run the full length of the body and be mounted at the base of each side of each side of the body. The rub rails shall be spaced ¼" from the body with Delrin spacers
- 14.1.4 The rear step assembly shall be constructed of 1 ¾" x 1 ¾" tubular steel frame bolted to the chassis frame. The center section shall be non-skid flip up grip strut, which will allow mud and snow to fall through the step. The ends shall be constructed of diamond plate end caps with 18" x 4" x 4" heavy-duty rubber dock.
- 14.1.5 The curb side shall have a 6" drop and the side doorstep shall be formed of aluminum diamond tread and shall be flush sweep out style. Antiskid tape, 2" wide, is to be laid the full width of the step just inside the entry door. Additionally there shall be a formed 3", full width stainless steel floor protection strip installed over the flooring at the top of the step. An LED step well light is to be installed on the forward vertical wall of the step well with the wiring to be pulled through the backside of the step

well. The lower side of the step well shall be covered with Hush mat to reduce road noise.

14.1.6 Diamond plate stone shields shall be installed on the front edge of the module body directly behind the cab at skirt level. These shields will extend up the front of the box approximately 16 inches.

14.1.7 EXTERIOR COMPARTMENTS: There shall be five (5) exterior compartments. Three (3) on the left side (street side) and two [2] on the right side (curbside). The compartments shall be constructed of smooth high polished aluminum or stainless steel plate, formed, and welded. All compartment floors shall have weep-hole baffles to prevent road water entry. Each compartment shall be covered with a 12"X12" cushion tile mildew resistant open-grate tile material the specific brand shall be determined at preconstruction conference.

The following are the compartment locations, dimensions, and intended usage: Bidders specify compartment sizes as these are just suggested sizes needed.

A. Street side front compartment:
Vehicle compartment 78" high x 15" wide x 18 1/2" deep, with an opening of 73-1/2" high x 14" wide provided. This compartment shall contain a "Zico" nylon triple collar bracket to house one "M" size oxygen cylinder. The O2 tank is to be stored in the aft side of the compartment. There shall be an interior access door to allow the attendant to turn the oxygen tank valve on/off from the patient compartment. A separate O2 compartment light shall be provided for the purpose of viewing the cylinder's gauge and be switched on/off from the action panel. A wrench is to be provided for changing the tank regulator. The wrench is to be secured in the compartment with a cable and mounted to the compartment wall when not being used.

The forward side of the compartment shall be of sufficient dimensions to store a Stryker brand chair stretcher. There shall be a belt style-retaining strap installed for the purpose of securing the chair stretcher.

B. Street side second (intermediate) compartment:
Horizontal compartment 30" high x 52" wide x 18 1/2" deep, with an opening of 26" high x 48" wide provided. This is located forward of the wheel well and behind compartment in A. This is to be used for general storage and have a double door.

There shall be a full width, full depth aluminum pan style storage shelf installed in this compartment. The shelf is to be mounted on

two (2) sets of infinitely adjustable uni-strut tracks at each end of the shelf with rubber matting covering the topside of the shelf.

- C. Street side third (rear) compartment:
Compartment 38" high x 36" wide x 18 ½ "deep, with opening of 36" high x 34" wide will be provided. There will be a double door on this compartment and will be used for general storage.
- D. Curbside fifth (forward) compartment:
Vertical compartment with a clear opening 57" high x 20" wide shall be provided for inside/outside access to the interior cabinet. This will be a single full-length door located at the right front curbside. This compartment shall contain a minimum of two (2) adjustable shelves.
- E. Curbside sixth (backboard) compartment:
Vertical compartment 78" high x 22" wide x 18 1/2" deep, with opening of 73-1/2" high x 18" wide will be provided. This compartment shall have dividers installed for storage of a minimum of three (3) backboards and other miscellaneous equipment.

Compartment shall be constructed of smooth aluminum and have walls and dividers covered with a black rubber material for ease of cleaning and board protection.

The aft side of the compartment is to provide storage for two (2) backboards and shall have rubber "nerf" strips, two (2) on the floor and two (2) on the back wall of the compartment, for the protection of the back boards. There shall be a belt style-retaining strap installed for the purpose of securing the backboards.

14.1.8 Each exterior compartment will be lighted and have individual automatic switches for each door. The lights used shall be LED recessed into the compartment sides. The switches used shall be magnetic type mounted in the door frame header

14.1.9 Each exterior compartment door shall be constructed of smooth aluminum sheet. All compartments shall have smooth polished aluminum or stainless steel plating attached to the inside of all doors. (extruded doors and/or door frames are not acceptable). In addition, for maximum rigidity, bracing shall be added internally for additional door structural integrity. The exterior face of the door and the door edges shall be formed from one [1] sheet of aluminum. All doors shall be flush with the body side. The doors shall be fully insulated. Compartment doors B, D, and E shall have spring assist two [2] directional cam-over door checks installed. When

opened, the doors will activate respective compartment lights. All compartment doors will be keyed alike.

15. Reference Handbook

15.1.1 All supporting materials and handbooks to include warranty details, electrical schematics, drawings, parts list, etc. to be provided to the department.