

Bridgeview Fire Department Ambulance Specification

1.0 Scope, Purpose, and Classification

1.1 SCOPE

This specification covers a new commercially produced surface emergency medical care vehicle(s), herein referred to as an “ambulance” or “vehicle”. This vehicle shall be in accordance with the Ambulance Design Criteria of the National Highway Traffic Safety Administration, United States Department of Transportation. This specification is based on current KKK - A1822 - F Revision. It is the intent of this agency to purchase vehicle(s) that are professionally engineered and designed. It is paramount to this agency that vehicle(s) presented be built by a reputable manufacturer with considerable experience in the ambulance manufacturing field. To this end, this agency requires that each manufacturer provide the following:

1. A statement of fact, signed by an officer of the manufacturing company, disclosing that the manufacturer has delivered five hundred (500) ambulances within the last twelve (12) months of the date of this bid.
2. The size and location of manufacturing facilities and number of production staff.
3. Interior pictures to verify plant facilities.
4. A list of on-site engineering staff with educational accreditation.
5. ISO 9001:2008 Certification.

Failure to provide this agency with the documentation required will be deemed non-responsive.

Does your bid comply with this requirement?

Yes () No ()

1.2 PURPOSE

The purpose of this document is to provide the manufacturer with a set of specifications and test parameters that will meet the criteria to manufacture a vehicle as set forth by this agency. This agency seeks a vehicle that will deliver “fair value”. Fair value is defined by this agency as the manufacturer's ability to provide a safe, functional, and practical ambulance conversion that that will work in junction with the chassis specified at a

reasonable cost. The specifications within this document are a basis to deliver such a vehicle to this agency. This agency at its discretion shall assess the intangible assets of the manufacturer such as, but not limited to, after quality, delivery support, customer service, parts availability, and warranty turnaround time.

Does your bid comply with this requirement?

Yes () No ()

1.3 CLASSIFICATION

This specification calls for the following type of vehicle in accordance with the current KKK-A1822-F revision.

Does your bid comply with this requirement?

Yes () No ()

1.3.1 GENERAL

This is an engineer, design, construct and deliver type specification meeting the needs of this agency. Attention has been given to the engineering and design aspect of this specification that will attain our goal of fair value. It is the manufacturer's responsibility to deliver a product meeting the criteria as set forth. This agency reserves the right to increase the equipment quantities that are specified. In addition, other agencies will be permitted to purchase equipment under this contract as a result of this specification, unless prohibited under law.

Does your bid comply with this requirement?

Yes () No ()

1.3.2 SITES OF WORK

Other than the chassis, specified accessories, and raw materials such as aluminum, wood, etc.; all shops and sub-shops shall be within the complex(s) that are directly owned and controlled by the primary manufacturer. Any assemblies including, but not limited to, upholstery, fiberglass, cabinetry, electrical, structural and paint application, that are performed or supplied outside of the primary manufacturer's location(s) must be noted. The name, address, and contact person supplying the primary manufacturer with the assemblies must be provided in writing to this agency. Non-disclosure will be sufficient grounds for rejection of bid or termination of contract. Ambulances or chassis imported for consideration of this specification into the United States under the North America Free Trade Act must provide documentation of compliance with all United States laws

applicable. Further, any import ambulance must be independently certified and tested within the United States to meet KKK-A1822-F certification.

Does your bid comply with this requirement?

Yes () No ()

1.3.3 EXAMINATION OF SPECIFICATIONS

It is incumbent on each manufacturer to be thoroughly familiar with the specification contained herein. The specification will require a “YES” or “NO” or when requested a definitive answer to each section or subsection. Sections or subsections not marked with a “YES” or “NO” or answered shall be deemed incomplete and considered non-responsive. A “YES” answer constitutes a complete compliance to the section or subsection as written. A “NO” shall indicate noncompliance and does not eliminate a manufacturer from competition.

A manufacturer may object or counter to a specific section or subsection. A manufacturer must indicate in writing, as an attachment, the section or subsection in dispute. The manufacturer must include the verbiage as written, new verbiage presented, explanation of verbiage with consequences and supporting tests and documentation. Failure to comply will be deemed as non-responsive. This agency reserves the right to determine compliance.

1.4 DEFINITIONS

The following definitions shall apply with regards to these specifications:

1.4.1 PURCHASER: The end user of the equipment specified or the applicable purchasing agency acting on behalf of the end user.

1.4.2 CONTRACTOR: The individual, firm, partnership manufacturer, or corporation to whom the contract is awarded by the Purchaser and is subject to the terms thereof. For bidding purposes, the contractor, vendor, bidder, manufacturer is synonymous.

1.4.3 EQUAL: This agency supports the design, engineering, quality and materials as specified in this document. This shall not prohibit the bidding of unlike product. However, any deviation from the specification must be marked and submitted per section 1.1.3, Failure to do so shall be deemed nonresponsive.

1.4.4 MANUFACTURER: The manufacturer within this specification shall be considered the “primary manufacturer” of the ambulance conversion. The chassis requirement as set forth in this specification is the responsibility of the primary manufacturer to procure. This agency considers the chassis platform as a conveyance for the ambulance conversion. It is imperative that the primary manufacturers procure the

exact chassis from the chassis manufacturer. After market modifications by the primary manufacturer to achieve chassis specification will not be tolerated. This agency will require documentation from the chassis manufacturer pertaining to the chassis requirements for this agency. Failure to provide documentation after award and prior to construction may result in the termination of the contract. Expenses to re-bid will be the responsibility of the manufacturer in default.

Does your bid comply with this requirement?

Yes () No ()

2.0 SPECIAL CONDITIONS

2.1 BIDDERS RESPONSIBILITY AND QUALIFICATION

2.1.1

It is not the intent of these specifications to call for an unusual or experimental vehicle(s). The primary manufacturer shall have a minimum of 10 years of uninterrupted manufacturing of similar or identical vehicles to the specifications set forth in this bid.

Does your bid comply with this requirement?

Yes () No ()

2.1.2

If requested by the purchaser, the primary manufacturer shall supply upon request a list of fifteen (15) agencies that have purchased similar or identical vehicles within the past year from date of bid. The list will have contact names and phone numbers.

Does your bid comply with this requirement?

Yes () No ()

2.1.3

For the purpose of this section, if the bidder of record and the primary manufacturer are separate business entities, then each shall be required to submit financial, insurance, and/or licenser to conduct business within this jurisdiction. Failure to provide proper documentation with the bid response may result in any bid being deemed non-responsive.

Does your bid comply with this requirement?

Yes () No ()

2.1.4

The primary manufacturer shall be ISO 9001:2008 certified. **No Exceptions.**

Does your bid comply with this requirement?

Yes () No ()

2.1.5

The primary manufacturer shall employ full time a Quality Control Manager whose primary function is to monitor quality. **No Exceptions.**

Does your bid comply with this requirement?

Yes () No ()

2.2 PAYMENT, DELIVERY AND ACCEPTANCE

2.2.1

A deposit may be remitted with the order not to exceed ten percent (10%) of the total contract amount. This agency reserves the right to issue a binding municipal Purchase Order in lieu of a deposit. The choice to submit either the deposit and/or the binding purchase order will be that of this agency.

Unless otherwise requested, the primary manufacturer shall arrange over the road delivery of the completed vehicle to this agency's designated local address under the vehicles own power. Costs of transportation and preparation are to be included with the price as bid. The primary manufacturer, may as an option, offer a line-item credit for pick up by this agency at their place of manufacture.

Payment in full will be made upon delivery once an inspection of the vehicle by this agency authorized representative(s) confirms compliance with the specification. The delivery, acceptance inspection, and payment shall take place on the same day. In the event it is deemed necessary for this agency to inspect the vehicle(s) at the primary manufacture location, a temperature-controlled inspection area separate from the production facility shall be available.

Does your bid comply with this requirement?

Yes () No ()

2.2.2

All bid prices and conditions must be specified on the Bid Proposal Form.

Does your bid comply with this requirement?

Yes () No ()

2.2.3

Bid prices shall be valid for sixty (60) days. In the unforeseen circumstance that this agency requires the primary manufacturer to extend pricing requirement; then it will be at the discretion of this agency to request in writing from the primary manufacturer any deviation in prices quoted. The primary manufacturer may revise pricing and state in writing reasons for any change and certify the amended pricing for sixty (60) additional days.

Does your bid comply with this requirement?

Yes () No ()

2.3 BID EVALUATION

Bids received shall be evaluated by the Purchaser. This evaluation will be based on the following:

- Completeness of the proposal
- Manufacturing and Delivery schedule
- Primary manufacturer's demonstrated capabilities and qualifications
- Primary manufacturer's past performance on similar Bid Proposals
- Primary manufacturer's maintainability and recommendations
- Primary manufacturer's logistical and service support

Does your bid comply with this requirement?

Yes () No ()

2.3.1

Bid proposals taking total exception to these specifications will not be accepted.

Does your bid comply with this requirement?

Yes () No ()

2.3.2

Bid proposals that do not comply with the prescribed method to take exceptions listed in paragraph A1.1.2 will be rejected without further consideration.

Does your bid comply with this requirement?

Yes () No ()

2.3.3

This agency seeks the highest level of value for the cost. To assure this agency is receiving such value the primary manufacturer must submit evidence of compliance with KKK-A1822-F testing parameters. The testing is to be performed by an independent testing facility and verified by person(s) with the standing of Professional Engineer. If further testing is required by any lawful agency of the Federal or State Government then it shall be incumbent upon the primary manufacturer to provide this agency with certification required.

Does your bid comply with this requirement?

Yes () No ()

2.3.4

This agency also recognizes Ford Motor Company's Qualified Vehicle Modifiers (QVM) accreditation. Therefore, regardless of chassis specifications the primary manufacturer must include with this proposal their current QVM certification.

Does your bid comply with this requirement?

Yes () No ()

2.3.5

Internal testing performed and certified for a primary manufacturer will not be considered by this agency.

Does your bid comply with this requirement?

Yes () No ()

2.3.6

The primary manufacturer may submit certification of all “member in good standing” of any public or private association that may have bearing on this specification i.e., AMD, NTEA.

Does your bid comply with this requirement?

Yes () No ()

2.3.7

To ensure that this contract is awarded to a primary manufacturer who has the resources to meet the performance and warranty criteria specified herein, the primary manufacturer shall state in the bid proposal if it is a public or private company. If the primary manufacturer is privately held then it shall include the most current financial statement by a Certified Public Accountant not more than twelve (12) months old, or current financial statement of the parent company. If the primary manufacturer is a publicly held company or wholly owned by a publicly held company then it shall state what stock exchange and under what symbol it is traded under. **Bids not meeting this requirement cannot be accepted.**

Does your bid comply with this requirement?

Yes () No ()

2.4 CONTRACT AWARD

The Purchaser reserves the right to increase the number of vehicles or equipment specified under this contract. If awarded, the primary manufacturer agrees that additional agencies may purchase under the same terms and prices afforded by any contract arising from the bid award, unless prohibited by law.

Does your bid comply with this requirement?

Yes () No ()

2.4.1

The purchaser has the right to waive any informalities, irregularities, and technicalities in procedure.

Does your bid comply with this requirement?

Yes () No ()

2.5 WARRANTY

This agency is concerned with the ability of the primary manufacturer to warrant the conversion after delivery. This agency expects a minimum of a fifteen (15) year modular construction warranty and thirty-six (36) months and thirty-six thousand (36,000) mile full warranty on the conversion. In addition, each manufacturer shall submit their various warranties and warranty options, if applicable, with the proposal for evaluation. Also, each primary manufacturer will supply the name and phone number of a contact person in the event this agency requires clarification of the submitted warranty documents.

Does your bid comply with this requirement?

Yes () No ()

The primary manufacturer will provide the location of the closest approved warranty center. Indicate to this agency, in writing, to be included with this proposal; the process to initiate and file a warranty claim.

Does your bid comply with this requirement?

Yes () No ()

2.5.1

Due to the high demands on a pre-hospital care vehicle, this agency demands the primary manufacturer have available a twenty-four hour a day technical assist service. This 24/7 service must be staffed by the primary manufacturer's service personnel, include telephone number: _____.

Does your bid comply with this requirement?

Yes () No ()

2.6 DELIVERY

The primary manufacturer will provide in writing to accompany this document a proposed delivery time. The delivery time proposal will include the transit time of the finished vehicle.

Does your bid comply with this requirement?

Yes () No ()

2.7 PERFORMANCE BOND

This agency reserves the right to seek a one hundred percent (100%) performance and payment bond as a condition of award. A letter must be included from a certified bonding agency stating that a performance bond can be issued on behalf of the primary manufacturer. Failure to comply may be deemed as nonresponsive.

Does your bid comply with this requirement?

Yes () No ()

2.8 INDEMNIFICATION AND INSURANCE

This agency seeks to mitigate future liability exposure; therefore, all primary manufacturers will submit their Certificate of Insurance for evaluation. This agency will only consider a primary manufacturer with a minimum of Ten Million United States Dollars (\$10,000,000.00 USD) that is based on a Per Incident basis. This insurance shall be issued by a company rated “A” or better as reported in the current edition of Bests Key Rating Guide, published by Alfred M. Best Company, Inc. Aggregate liability coverage will not be considered regardless of amount. Failure to comply will be deemed non-responsive.

Does your bid comply with this requirement?

Yes () No ()

2.9 FAMILIARITY WITH LAWS

The primary manufacturer will be familiar with all Federal, State and Local laws, ordinance, code rules and regulations that may in any way effect the work. Ignorance on the part of the primary manufacturer is not acceptable.

Does your bid comply with this requirement?

Yes () No ()

2.10 PRE-CONSTRUCTION & FINAL INSPECTION CONFERENCES

The successful primary manufacturer shall be required to hold a pre-construction and final inspection conference with representatives of this agency to finalize construction details, and inspect the completed unit prior to leaving the primary manufacturing facility. These conferences shall be held at their main manufacturing facility.

The primary manufacturer will provide adequate transportation, lodging, and meals for two (2) designated personnel from this agency for the pre-construction conference and three (3) designated personnel for the final inspection trip. Further, if the location is in an excess of three hundred (300) miles from this agency’s location, the transportation shall be by a commercial air carrier. Private or corporate aircraft may not be used.

Does your bid comply with this requirement?

Yes () No ()

2.11 DRAWINGS

The primary manufacturer shall provide a set of drawings that accurately depict the vehicle as specified. The drawings will show all exterior and interior planes with dimensions. Failure to comply will be deemed non-responsive.

Does your bid comply with this requirement?

Yes () No ()

2.12 EMPLOYEE STATEMENT

It is mandated by the United States Government that all employees currently and to be employed during the duration of this contract are not discriminated against because of their race, creed, color, sex, nationality origin and disability. Further, this agency must be satisfied that the primary manufacturer's labor pool is treated in a fair and equitable manner. Therefore, it will be the responsibility of the primary manufacturer to include a human resource statement outlining employment status, working conditions, and benefits.

Does your bid comply with this requirement?

Yes () No ()

2.13 ANTI-COLLUSION STATEMENT

By signing this bid, the primary manufacturer agrees that this bid is made without any understanding, agreement, or connection with any other person, firm or corporation making a bid for the same purpose and this bid is in all respects fair and without collusion or fraud.

Does your bid comply with this requirement?

Yes () No ()

3.0 TECHNICAL REQUIREMENTS

3.1 GENERAL VEHICULAR DESIGN, TYPES, AND FLOOR PLAN

The ambulance and the allied equipment furnished under this specification shall be the primary manufacturer's current commercial vehicle of the type and class specified. The ambulance shall be complete with the operating accessories as specified herein. It shall be furnished with such modifications and attachments as necessary and 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.

Does your bid comply with this requirement?

Yes () No ()

3.1.1

The ambulance shall be a Type I, Class I and shall be a chassis furnished with a two (2) door conventional cab. The chassis shall be suitable for subsequent mounting of a modular (containerized), transferable equipped ambulance body conforming to the requirements herein.

Does your bid comply with this requirement?

Yes () No ()

3.1.2

The design of the vehicle shall utilize floor plan "A" loading arrangement of patients into the patient compartment. All litters shall be loaded into position with the heads of the patients forward in the vehicle.

Does your bid comply with this requirement?

Yes () No ()

3.2 VEHICLE COMPONENTS, EQUIPMENT, AND ACCESSORIES

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, tested and certified, to meet this specification. The vehicle shall comply with all Federal Motor Vehicle Safety Standards (FMVSS) and United States regulations applicable or specified for the year of manufacture. The primary manufacturer shall procure the chassis, components, equipment, and accessories as specified and be the current technical data and materials of all suppliers.

Does your bid comply with this requirement?

Yes () No ()

3.3 MATERIALS

Materials used in the construction shall be new and meet the quality conforming to this specification. Materials shall be free of defects.

Does your bid comply with this requirement?

Yes () No ()

3.4 VEHICLE OPERATION, PERFORMANCE, AND PHYSICAL CHARACTERISTICS

The following is a description of the cab and chassis that will meet the requirements of this specification. In addition, the chassis will comply with paragraphs 3.4.1 through 3.6.14 of Federal Specification KKK-A-1822F.

Does your bid comply with this requirement?

Yes () No ()

4.0 CHASSIS

4.1 MANUFACTURER AND MODEL YEAR

CAB - CHASSIS Ford 2024 (or latest model year) F-450, 4x2, XLT, 6.7L, 193" WB

The chassis shall meet the requirements of this specification. It shall be a 2024 (Or latest model year) Ford F450 XLT 6.7L Diesel w/ 193" wheelbase

Does your bid comply with this requirement?

Yes () No ()

Conversion, BOM, Type 1, 170 Module, F450 4x2

Includes Liquid Spring Rear Suspension (CLASS)

Does your bid comply with this requirement?

Yes () No ()

4.2 CHASSIS SPECIFICATIONS

Vehicle:	Ford Chassis Cab
Body Style:	Super Duty F-450 Dual Rear Wheel
Drive Train:	Rear Wheel Drive
Model Number body code:	F4G Regular Cab 193" wheel base XLT
Gross Axle Weight:	Front 7,000 lbs. Rear 12,000 lbs.
Gross Vehicle Weight Rating:	16,500 lbs.
Engine Type:	99T 6.7L Diesel V8 with 98R Manual Regen
Displacement:	6.7 liters
Fuel System:	Turbocharged DI
SAE net HP:	325 @ 3300 RPM
SAE net Torque:	570-foot pounds @ 2000 RPM
Wheelbase:	193 inches
Transmission:	6 - speed Automatic, Electronic
Rear Axle Ratio:	4:10 Ltd Slip
Tire Size:	LT225/70Rx19.5F, BSW All Season, 2 front, 4 rear
Spare Tire Size:	LT225/70Rx19.5F, BSW All Season
Wheels:	All wheels shall be aluminum alloy with Air Max Valve Extenders. Spare shall be OEM Steel.
Brakes:	4-Wheel ABS System
Engine Block Heater:	Code 41H
Alternators:	OEM Dual HD Alternators, Code 67B
Batteries:	Dual, 78-AH, 850 CCA

Auto throttle:	OEM Ford
Fuel Tank:	Single 40 Gallon, aft of rear axle
Exterior Upgrade Package:	647A
Interior Upgrade Package:	647A
Cab seating:	OEM cloth Captain's chairs (no armrests)
Ambulance Prep. Package:	Code 47L
Steering:	Power
Stereo	AM/FM, Single CD Player, Clock
Accessories:	Smart-charging USB-C Ports (2)
Running Lights:	Day time Running Lights, Code 942
Pedals:	Adjustable Accelerator and Brake Pedals, Code 62M

Does your bid comply with this requirement?

Yes () No ()

4.3 ELECTRICAL GENERATING SYSTEM

The vehicle shall be equipped with the OEM supplied dual OEM alternators.

Does your bid comply with this requirement?

Yes () No ()

4.4 ENGINE AUTOMATIC HIGH IDLE SPEED CONTROL

The Engine high idle shall be regulated by the OEM supplied high idle speed control. The control shall be mounted on the Cab Console.

Does your bid comply with this requirement?

Yes () No ()

4.5 DRIVER'S COMPARTMENT

The driver's compartment shall be as required by paragraphs 3.9.1, 3.9.2, and 3.9.4 of Federal specification KKK-A-1822-F as well as section 3.0 of this document. The cab shall be equipped with the chassis manufacturer's high back seats. The safety restraint system for the driver and passenger shall be installed by the chassis manufacturer. Modifications or substitutions of the chassis manufacturer's cab seats or restraint system will not be acceptable.

Does your bid comply with this requirement?

Yes () No ()

4.6 OUTSIDE REAR-VIEW MIRRORS

The vehicle mirrors should be firmly secured, vibration less rear-view mirrors totaling at least one hundred and twenty-five square inches. The mirrors shall be OEM, manually telescoping trailer tow, power/heated glass, integrated clearance lights and turn signals, and a two-way fold.

Does your bid comply with this requirement?

Yes () No ()

4.7 CAB PATIENT COMPARTMENT

Bellows, Pass thru, Unigrip

The modular body shall be attached to the cab chassis by means of a rubber bellows with one hundred and fifty square inches of open viewing area. With Aluminum cab insert.

Does your bid comply with this requirement?

Yes () No ()

4.8 EXHAUST PIPE ADAPTER

Exhaust System, Plymovent Adapter, Ford F-450, XLT, 4x2

A Plymovent Ford F series tail pipe conversion kit shall be installed on the end of the exhaust pipe to allow the vehicle exhaust to be connected to the customers Plymovent Exhaust Removal System.

Does your bid comply with this requirement?

Yes () No ()

4.9 BUG SHIELD

Bug Shield, Smoked, for Ford F-450, XLT, 4x2

Provide and install a smoked bug shield for the front hood for a 2024 (or later model) Ford F-450 XLT.

Does your bid comply with this requirement?

Yes ()

No ()

4.10 REAR SUSPENSION

Rear Suspension, Liquid Spring, CLASS, F450, XLT, 4x2

This unit shall have a CLASS "Liquid Spring" rear suspension installed by the manufacturer. It shall include electronic controls, automatic height control, kneeler, and OEM sway bar. The dump and fill function shall be operated by opening or closing the left rear entrance door. It shall have both an enable switch and a dump indicator light in the cab console and shall only operate when the vehicle is in neutral or park with park brake set.

The Override switch shall be installed on the Curb Side wall, on the lower right corner, near the right rear entry door. Ignition switch Hot.

Does your bid comply with this requirement?

Yes ()

No ()

4.11 LIQUID SPRING RIDE CONTROLLER

One (1) Liquid Spring Suspension Ride Controller Module

The Liquid Spring suspension ride controller shall be installed on the Driver's side of the Center Console, on the left side wall near the upper left corner. There shall be a clear Lexan panel affixed over it to prevent accidental changes in settings.

Does your bid comply with this requirement?

Yes ()

No ()

4.12 MODULE LOWERING SWITCH

One (1) Switch, Rocker, Momentary

A momentary rocker "Dump" switch shall be located on the top right side, 2nd rocker row, of the Center Console. Ignition switch, Hot.

Does your bid comply with this requirement?

Yes ()

No ()

4.13 IGNITION SECURITY SYSTEM

Ignition Security System, Kussmaul, #091-160

An Ignition Security System shall be installed in the vehicle with a 3-position switch located on the lower dash to the right of the steering column. The first position shall allow for key removal with the vehicle running. The second position shall be the off position. The third position shall allow for key removal with the vehicle running and activate the OEM horn if there is an attempt to put the vehicle in gear. The switch shall be located on the Driver's side of the lower dash, below the steering wheel, towards the right side.

Does your bid comply with this requirement?

Yes ()

No ()

4.14 CAB FLOORING MATERIAL

Cab Flooring, Black Rubber, OEM, F350/450

The cab shall be furnished with an OEM black rubber flooring.

Does your bid comply with this requirement?

Yes ()

No ()

4.15 HAVIS MDC MOUNTING SYSTEM

Havis, Mounting Base, Floor, HD Pole, Docking Station, Installed

Ambulance manufacturer shall provide and install a Havis floor mounted, vehicle specific base complete with a HD pole, offset plates and docking station for a 2024 (or latest model year) Ford F-450. Base shall be mounted to the front cab floor on the passenger side.

Does your bid comply with this requirement?

Yes ()

No ()

4.16 HEATER HOSES

Hoses, Heater, Nomex, to Rear

Nomex heater hoses shall be installed.

Does your bid comply with this requirement?

Yes () No ()

4.17 BATTERY SWITCH

Battery Switch, 5min Timer

The vehicle shall be supplied with a dual 12-volt battery system. Two OEM batteries. The battery system shall be wired in accordance with KKK-A-1822-F. The system must meet SAE J541 for starter circuit voltage drop. The batteries shall be activated through the OEM ignition switch. The ignition switch shall only turn off power to the module and not to the chassis circuits.

When the ignition is shut off a five-minute timer keeps the module powered-up for unloading patients.

Does your bid comply with this requirement?

Yes () No ()

4.18 TIMER OVERRIDE SWITCH

One (1) Switch, Rocker, Momentary

A momentary rocker switch shall be installed which will disable the timer. It shall be labeled TIMER BYPASS. The momentary rocker switch shall be mounted on the Driver's side of the Center Console, on the left side wall, and centered directly below the Liquid Spring suspension ride controller. It shall be set-up to be an override for the 5 minute timer.

Does your bid comply with this requirement?

Yes () No ()

4.19 BATTERIES

Batteries, (4), 850 CCA, Motorcraft

Activated thru OEM ignition switch timer function upon ignition "off." Momentary

rocker switch, on driver's side of cab console, to function as timer shutoff and also reactivate timer.

(2) Batteries under hood.

(2) Batteries in module Right front battery compartment.

NOTE: Only module power is turned on/off. Chassis power is NOT turned off.

Does your bid comply with this requirement?

Yes () No ()

4.20 CAB CENTER CONSOLE

Console, Center, Pass-thru, Mica Finish, Custom

A custom Center Console shall be fabricated and installed to house the switching panel and radio installation. This console shall be attached under the dash below the line of sight of the driver. The console shall extend the full length of the cab between the driver's and passenger's seats. Provisions shall be made available for storage of convenience items for the crew.

An access panel shall be installed on the top of the console to facilitate servicing. The switches shall be full size rocker switches with LED on the indicators. The switch assembly shall be 1.97 inches tall by 1.064 inches wide with silver plated copper contacts and a .250-inch spade type terminal. The switch and rocker material shall be a thermal set molding material. The complete switch assembly will be tested to withstand one thousand (1,000) volts RMS dielectric. Documentation of switch testing to be included with the bid. The switches must have a positive "throw" feel and an audible "click" upon activation.

Does your bid comply with this requirement?

Yes () No ()

The custom Center Console shall be provided to match customer's current configuration. This console shall include space for the recessed mounting of two (2) mobile radios along with a Federal Signal EQ2B siren control unit. It shall also include two (2) recessed cup holders and approximately 8 inches for deep storage of 3-ring binders along with (2) boxes of medical gloves. The inside of the binder storage area shall incorporate HD 3/16 inch dividers to separate the storage area into individual areas for customer storage.

Does your bid comply with this requirement?

Yes () No ()

4.21 RUNNING BOARDS

Two (2) Running Boards, Standard F450, w/ Gator Grip, #1153F/1170F

Aluminum diamond plate running boards shall be installed just under the cab doors for both the driver and passenger. The diamond plate step shall be punched with rows of raised star-shaped holes to create additional non-skid surface. The boards shall allow for easy entry into the cab.

Does your bid comply with this requirement?

Yes () No ()

5.0 Type 1 - 170" Module

5.1 VEHICLE BODY AND PATIENT AREA BODY ACCOMMODATIONS

The ambulance body and patient compartment shall be sufficient in size to meet the requirements of paragraph 3.10.1 of Federal Specification KKK-A-1822-F. The interior layout shall be such that a technician can administer life support treatments to at least one person during transport. The modular body shall be (153") one hundred fifty-three inches in length and (95") ninety-five inches wide.

Does your bid comply with this requirement?

Yes () No ()

This unit built in accordance with KKK-A1822-F CHANGE NOTICE 10

This unit shall be built to the KKK-1822F specifications including the Change Notice 10 changes dated July 1, 2017. As evidence that the modular ambulance body meets the above criteria, the FSAM's shall furnish a certification that the modular ambulance body meets the testing requirements of SAE J3057. Installed Oxygen cylinder, suction, cardiac monitor, and fire extinguisher mounting devices shall meet the performance requirements of SAE J3043.

- 1) All interior enclosed stowage devices shall be tested to their rated weight capacity in accordance with the requirements of SAE J3058.
- 2) Stowage devices shall not come open in transit.
- 3) Storage for the main oxygen cylinder shall be accessible for replacement from an outside position.
- 4) The oxygen compartment shall be provided with at least a 9 sq. in. of open vent to

dissipate/vent leaking oxygen to the outside of the ambulance.

5) Oxygen cylinder compartment shall not be utilized for storage of any other equipment.

6) All interior enclosed stowage devices shall be labeled with their rated weight capacity.

A complete litter fastener assembly shall be furnished. The installed litter fastener device for wheeled cots shall meet the performance requirements of SAE J3027. The litter fastener device shall be installed according to the litter fastener manufacturer's instructions. The ambulance floor and substructure shall be tested in accordance with the dynamic requirements of SAE J3102.

The ambulance shall have a piped medical oxygen system capable of storing and supplying the minimum requirements in liters of medical oxygen as specified by the purchaser. The installed medical oxygen piping shall be leak tested to 80 PSI. After the successful completion of piping test, the system shall be completely assembled and the flow rate of the outlets tested with the system pressurized at normal working pressure. The system shall be capped then tagged with date and signature of person and firm performing the tests.

This unit as specified meets all requirements of KKK-A1822-F Change notice 10. All cabinets shall be labeled as to their capacity Rating.

Does your bid comply with this requirement?

Yes () No ()

5.2 GENERAL BODY CONSTRUCTION

It is the intention of this agency to specify a modular body that is constructed solely of aluminum including side skins, roof skin, all structural box tubing, corner and roof extrusions, tapping plates, gusset plates, retention plates, doors, door extrusions, sub structure moisture barrier and drip rails. The modular shall be engineered, built and warranted by the primary manufacturer. This agency will not accept a proposal from a primary manufacturer, as defined within this document, that supplies a modular from an agency, builder, supplier, other than the primary manufacturer. This section shall be the construction parameters this agency has deemed as fair value. Primary manufacturers that deviate from these specifications may take exception as set forth in section 1.1.2.

Does your bid comply with this requirement?

Yes () No ()

Specification KKK-A-1822-F, shall, where applicable, be of welded construction. Where fasteners are used in such areas as hinge attachment, hardware attachment, etc., the fasteners shall be ceramic coated aluminum and stainless steel. Any hole drilled into the

modular body painted surface shall be coated with an ECK corrosion inhibitor prior to installation of the part.

Does your bid comply with this requirement?

Yes () No ()

5.2.1 BODY FRAMEWORK

The exterior of the body shall be constructed utilizing a full six-sided box framework with a combination of high strength 6061-T1 and 6063-T6 alloy aluminum and having an outer surface of aluminum sheet with a temper and alloy of 5052-H32 for strength, weld integrity and corrosion resistance. The front, sides, and rear of the modular shall be configured from a single sheet of .090 aluminum. The one-piece sheets shall be used to maximize integrity against dust, toxic fumes, cracking, and moisture penetration.

The openings for doors, warning lights and exterior compartments shall be cut on the horizontal plane with a computer-controlled plasma cutter for accuracy and integrity of temper. The roof and side skins shall be installed utilizing a very high bond adhesive to allow absorption of vibration and to eliminate "panning". The skins shall be welded to the interlocking extrusion framework at the outer perimeter of the sheets by a programmable robotic welder using a MIG welding tip and Argon gas.

Does your bid comply with this requirement?

Yes () No ()

The side assemblies shall be reinforced utilizing 6061-T6 alloy aluminum two by two box tubing. The side structures shall frame a perimeter around all door openings and shall be a minimum of .125 in thickness. Intermediate skin stiffeners shall be located to preclude skin deformation. Additional gusset plates shall be .250-inch aluminum and shall be welded at all contact points between the corner assembly and the roof perimeter.

Does your bid comply with this requirement?

Yes () No ()

Tapping plates of 6061-T6 alloy aluminum varying in widths of one quarter to one half inch shall be welded to the framing to secure the installation of equipment such as; cabinets, benches, partitions, cylinders, cot fasteners, etc. The body and panel joints shall be watertight and all openings between the chassis and modular shall be sealed. In addition, a drip rail shall be supplied over each exterior compartment. The drip rail attached in such a manner as to provide for quick and easy replacement. Drips rails attached by mechanical fasteners shall not be used.

Does your bid comply with this requirement?

Yes () No ()

The exterior module skins shall all be 0.125 inches thick.

Does your bid comply with this requirement?

Yes () No ()

5.2.2 ROOF SUBSTRUCTURE

The roof substructure assembly shall consist of four perimeter roof rail extrusions, lateral roof bows and interconnecting corner caps. The roof rail extrusions shall be engineered and designed by the primary manufacturer and shall be double hollow of 6063-T6 .125 aluminum. An integrated roof recess shall be incorporated to create a smooth transition from the one-piece roof sheet to the perimeter drip rail. The perimeter drip rail shall be extruded as a design feature of the roof rail extrusion. The roof rail extrusion shall overlay the side skin by one half inch. The roof sheet shall be seam welded to the perimeter roof extrusion.

The lateral roof bows shall be two inches by two inches by .125 square extrusions of 6061-T6 alloy aluminum. The structural members shall be located to support the roof skin on fourteen inches between roof bows. The roof bows shall interconnect with the roof rails and be continuously welded at all contact points. The finished roof shall incorporate a machine rolled crown of not less than one and half inches in height to provide additional strength and allow water run-off. A one inch by two inches by .125 6063-T6 extrusion shall be secured to the top of the vertical extrusions.

The perimeter extrusion shall be welded to the vertical structures with a minimum of six inches of weld. An industrial adhesive shall be applied around the perimeter before the roof assembly is mated to the sill. The roof structure shall be attached to the sill and welded. To ensure a complete contact with the industrial adhesive mechanical fasteners shall be employed to cinch the roof structure to the sill.

Does your bid comply with this requirement?

Yes () No ()

The corner caps shall be designed to interlock with the roof perimeter, vertical corner extrusions and roof sheet. The corner caps shall be cast aluminum made from matched metal dies to insure a smooth and pleasing appearance. The caps shall act as a stress relief device to absorb energy and disperse the force along the roof extrusions in the event of a collision. The outer edge DOT lights shall be installed as described in section 8.5.1.

Does your bid comply with this requirement?

Yes () No ()

The corners of the modular body shall be designed and engineered by the primary manufacturer and constructed of 6063-T6 alloy aluminum. The corner extrusion shall be double hollow with a minimum thickness of .125 and .250 at the outer corner. The extrusion is designed with a unique forty-five-degree angled appearance while maintaining very high strength and impact energy absorption. A polyurethane sealer shall be applied to seal the crevice between the corner extrusions and the side assemblies.

Does your bid comply with this requirement?

Yes () No ()

The roof shall be a single .090 sheet of 5052-H32 alloy aluminum. The roof sheet shall be completely welded to the extruded roof assembly. The use of multi-section roofs shall not be acceptable due to the possibility of cracks causing environmental intrusion.

Does your bid comply with this requirement?

Yes () No ()

5.2.3 FLOOR

The floor shall be at lowest level permitted by clearances, but not more than thirty-three inches from the ground. The floor structure shall consist of two by two by .125 structural box section with 6061-T6 alloy aluminum. The floor structure shall be welded with eight inches of weld at every joint. The openings created for the placement of exterior compartments shall have six inches of weld to ensure a smooth surface to fit the compartment in the structure. Tapping plates of one quarter inch and one-half inch of 6061-T6 aluminum shall be completely welded both sides to the floor assembly.

The finished floor assembly shall be securely welded to the wall structures with eight inches of weld and skipped welded every four inches to the exterior compartments. All critical load points shall be reinforced with one quarter inch by three inch by four-inch gusset plates. Above the floor channels there shall be an aluminum moisture shield .050 inches thick. The entire underside of the modular shall be sealed with a waterproof sealant. All hollow structural shapes or cavities shall be sealed utilizing an approved expandable foam.

Does your bid comply with this requirement?

Yes () No ()

5.2.4 CUBSIDE DOOR WELL

Door Well, Double Step

The curbside entry stepwell shall be a double step due to the drop skirt making the initial step lower and therefore not ergonomic for entry into the vehicle. The steps shall be approximately equal in rise and run. The step well shall be finished with a polished aluminum diamond plate.

Does your bid comply with this requirement?

Yes () No ()

5.2.5 DURASEAM DOORS

Duraseam Doors, with Hidden Jamb

All door frames to be cut to size using a programmable double miter saw to ashore accuracy and repeatability of components. All latch, door pins, switch and tapped hinge holes are to be added to door frame and jamb by means of a programmable milling operation to maintain consistency of all hardware cutout positions. The outer face of door shall be formed from one sheet of 5052-H32 aluminum. The door shall be flush with the body side. The outer skin shall be bonded to the door frame with structural adhesive that meets ASTM D 412 tensile strength, elongation, and elastic modulus. Adhesive to utilizes micro spheres to maintain a constant bond thickness around the inside skin edge to seal entire skin to frame. The door frame shall meet exterior skin with a smooth seamless transition. There shall be no seams or crevices on the door or door frame which allows the possibility of corrosion.

Both patient compartment and exterior compartment doors shall be provided with extruded rubber seal system consisting of a hollow cell bulb gasket. The gasket shall insert into an appropriately designed groove in the inner door extrusion. This will provide the best seal possible. Glued on seals or seals that are mounted to the compartment openings are unacceptable as they will easily be torn by loading of equipment stored in the compartments.

All doors shall be attached using minimum ¼-20 stainless steel hex bolts with stainless steel piano hinge with a pin size of at least 0.250 inch in diameter. The hinge must be punched with 0.265 diameter holes for exact fit of door to jamb with ¼- 20 hex bolts. Maintaining the close tolerances allows a replacement door to be fabricated that will match the old door bolt pattern that can be mounted in the same place with the close tolerances.

All compartment doors shall be constructed the same as the entry doors to ensure continued door alignment and matched latching capabilities. All access doors must be encased by a door jamb that is separate from the body skin and bonded in place with the

same structural adhesive as described in paragraph two on page one. After jamb is bonded to skin both skin and jamb are to be routed with the same radii as the door skin. After bonding to skin, the jamb is also welded to the 2" X 2" tubular body frame members. The door jamb shall be a 0.125"/0.380 thick 6063-T6 aluminum extrusion

The interior surface of the patient compartment doors (rear and curb side) shall be finished in a safe and attractive manner that harmonizes with the interior finish. The door panels shall be designed to allow removal without disturbing the door latching hardware. The door panels shall be attached using automotive speed clips in conjunction with foam pads to enhance sound deadening. Door panels must be flush fitting not overlay. Doors using pliable materials such as upholstery are prohibited due to greater risk of contamination by blood borne pathogens through stitching or when cut or torn.

The three (3) patient compartment doors shall be fitted with stainless steel, flush fit, "paddle latch" hardware on the interior and an "automotive style" handle on the exterior. The patient compartment doors shall be provided with a keyed lock and the rear doors and side door shall be lockable from the inside without a key per FVMSS. All patient compartment doors shall have emergency release handles to activate rotary latches in the event of door component failure. All entry and compartment doors shall be insulated with 2-1/2" thick closed cell block foam insulation. When the doors are opened, the hinges, latches and door checks shall not protrude into the access area. All patient compartment doors shall employ the same type locking hardware. All door latches shall comply with requirements of FVMSS 206.

The locking devices shall be two-stage rotary latches and shall be FMVSS 206 certified. Where applicable there shall be two door latches, one at the top and one at the bottom, controlled by a single locking handle. The Latches shall into an adjustable "Nader" type pin located in the door frame. The Nader pin will utilize a captive nut to provide adjustment and replacement without loss of nut plate. The locking system shall be activated from the locking handle by metal push rods. All doors shall have magnetic door switches.

The outside door handles shall be a rugged "automotive style" that are near flush with door skin. These handles shall provide adequate clearance for the use of gloves. The hand/ glove clearance area of the handle shall be a minimum of .812" deep and 4.125 long.

On the curb side and rear doors, the inside handle shall be a "paddle style" type constructed from stainless steel and shall be equipped with an inside door lock. All exterior storage compartments and module entry doors shall be lockable with the same key. The compartment and entry doors shall be painted separately from the body. The doors shall then be installed on the painted module jamb. A Corrosion inhibitor shall be applied to both the door frame and jamb side of the hinge leaf. Additional corrosion inhibitor to be applied in all screw holes in both door frame and jamb.

Does your bid comply with this requirement?

Yes () No ()

5.2.6 BODY MOUNTING

The mounting system shall not cause any chassis frame deformation. There shall be ten mounting points, five on each frame rail. The modular body shall have full perimeter welded sill rails of one-half inch by two inches of 6061-T6 alloy aluminum and be attached to the vehicle utilizing one inch by three-inch sill plates of 6061-T6 alloy aluminum. The modular body shall be welded to the sill plates at every exposed seam. At all outrigger mounting locations a double compression, neoprene rubber isolator mounts shall be used to minimize chassis vibration transfer to the modular body. The modular body and sill plates shall be attached to the frame rails using three quarter inch grade eight bolts. Any method contrary to QVM which may void the chassis warranty shall not be accepted.

Does your bid comply with this requirement?

Yes () No ()

5.3 QUALITY AND SAFETY DOCUMENTATION

The ambulance manufacturer responding to this vehicle specification shall demonstrate to this Agency that the ambulance being proposed offers the highest possible quality and safety standards.

5.3.1

To meet this Agency's requirements for quality the Bidder shall provide documentation that the ambulance manufacturer has in place a quality management system that meets the requirements of the International Organization for Standardization (ISO). A copy of the ISO Registration Certificate shall be included in the bid response.

To meet this Agency's requirements for safety standards the Bidder shall provide documentation that the ambulance manufacturer has conducted "dynamic" testing to validate the design, manufacturing processes, materials and workmanship used in the production of the ambulance proposed in response to this specification.

To validate the materials, manufacturing processes, quality management system and workmanship utilized in the installation of seats, seat belts, secondary restraining devices, cabinet construction, oxygen cylinder retention and module to chassis attachment a Hygee sled test shall be performed. This test shall simulate a frontal impact to the ambulance module at a minimal impact force of 20 g. A test report from a third-party

testing agency independent of the ambulance manufacturer shall be submitted with the bid response proving compliance to this requirement.

Does your bid comply with this requirement?

Yes () No ()

5.3.2

To validate the materials, manufacturing processes, quality management system and workmanship utilized in the construction of the modular body the Bidder shall provide documentation that the ambulance manufacturer has conducted a side impact crash test. The Institute for Highway Safety (IIHS) Crash Test Protocol Version 5 shall be used as a guideline for this testing requirement.

The “target” vehicle (Ambulance) shall be struck by the “bullet” (SUV / Pickup Truck) vehicle at the fore and aft center of gravity of the target vehicle. To comply with the requirements of this specification the bullet vehicle shall be a SUV or pickup truck with a minimum gross vehicle weight (GVW) of at least 4,000 lbs. To provide this Agency accurate data in a “real world” environment the use of a Moving Deformable Barrier (MDB) and cart as the “bullet” vehicle is not permissible.

The “target” vehicle (Ambulance) shall contain instrumented Anthropomorphic Test Devices (crash test dummy) meeting the following requirements and seating locations.

- 1) Squad Bench - Hybrid 3 ATD instrumented with head, chest, and pelvic accelerometers, upper neck load cell, chest potentiometer, and femur load cells.
- 2) Ambulance Cot - Hybrid 3 ATD instrumented with head, chest, and pelvic accelerometers, upper neck load cell, chest potentiometer, and femur load cells.
- 3) Street Side CPR Seat - Hybrid 3 ATD instrumented with head, chest, and pelvic accelerometers, upper neck load cell, chest potentiometer, lumbar load cell, and femur load cells.
- 4) Attendant Seat - Euro SID 2 ATD instrumented with head accelerometers, upper neck, abdomen, and pubic load cells, and rib potentiometers. For the purpose of determining PASS/FAIL results the Injury Assessment Reference Values (IARVs) from FMVSS 208, FMVSS 214 and the Insurance Institute for Highway Safety (IIHS) shall be used. A test report from a third-party testing agency independent of the ambulance manufacturer shall be submitted with the bid response proving compliance to this requirement.

Does your bid comply with this requirement?

Yes () No ()

5.3.3

The above requirements are in addition to the current minimum requirements for testing as outlined in KKK-A-1822 F. Additionally, all welders employed by the primary

manufacturer shall be certified to the American Welding Society Standard AWS D12, and certification documents must be provided if requested.

All body welds shall not only be inspected by the primary manufacturer but shall also be inspected by an outside engineering firm and said firm shall conduct another visual inspection and a dye penetration test designed to reveal any flaws or imperfections in the welds. Documentation on this process must be provided if requested.

Does your bid comply with this requirement?

Yes () No ()

5.3.4

This agency is extremely concerned that the modular body be designed and built with the highest level of integrity and quality. Documentation and certification that the modular body being proposed meets Static Load Test Code for Ambulance Body Structure AMD Standard 001 must be included with this proposal.

Does your bid comply with this requirement?

Yes () No ()

5.3.5

This agency is extremely concerned with purchasing a vehicle from a primary manufacturer who can provide the necessary service after sale. Therefore, as previously stated the modular shall have a fifteen-year warranty and be engineered, designed and built by the primary manufacturer.

Does your bid comply with this requirement?

Yes () No ()

5.4 EXTERIOR COMPARTMENT DIMENSIONS AND SPECIFICATIONS

The exterior compartments shall be constructed of .090 aluminum and shall be formed by a computer-controlled brake and shear to decrease the amount of welding to fully enclose the compartment. The compartment therefore, shall be water tight. The compartment shall be welded in place to the side and floor structure with an additional bracket welded to a bracket connecting the exterior wall two with the floor structure.

The floor of the exterior compartments shall be at least two inches below the lower door frame lip to help prevent equipment from falling out should a door not be closed. The compartment floor shall be supported from beneath with one by two by .125 6061 T-6 rectangular tubing welded to the underside and the floor structure.

All exterior compartments shall be vented above the floor line with machine stamp louvers. The exterior compartment shall be lockable with one key fitting all doors. The compartments shall be equipped with handle and door locks. Each exterior compartment shall be provided with a sealed light to be illuminated upon the door opening. The light shall be activated by a magnetic switch. A door open indicator light shall be visible on the driver's console. The compartment configuration shall be as described.

Does your bid comply with this requirement?

Yes () No ()

5.4.1 COMPARTMENT "A"

A, Compt., 170" Module

Compartment A is the passenger side forward compartment (interior Cabinet "E"). The door opening dimensions shall be approximately 45 inches high and 32 inches wide. The interior dimensions shall be approximately 48.75 inches high and 33.50 inches wide and 22.25 inches deep.

Does your bid comply with this requirement?

Yes () No ()

COMPARTMENT "A" SHELVES

Two (2) Shelves, Adjustable, in Compt. "A" (Ref. interior Cabinet "E")

The exterior compartment shelves shall be manufactured from 0.188-inch aluminum. The shelf shall have a 0.125-inch-thick ribbed rubber mat. The shelf track shall be a heavy-duty extruded aluminum (Unistrut).

Does your bid comply with this requirement?

Yes () No ()

5.4.2 COMPARTMENT "B"

B, Compt., 170" Module

Compartment B is on the passenger side just behind the rear wheel. The door opening dimensions shall be a minimum of 19.25 inches high and 15 inches wide. The interior dimensions shall be approximately 22.5 inches high and 16.5 inches wide and 18.75 inches deep.

Does your bid comply with this requirement?

Yes () No ()

5.4.3 COMPARTMENT "C"

C, Compt., 170" Module

Compartment C is the passenger side rear compartment. The door opening dimensions shall be a minimum of 81.75 inches high and 22 inches wide. The interior dimensions shall be approximately 85.0 inches high and 24.75 inches wide and 18.5 inches deep.

Does your bid comply with this requirement?

Yes () No ()

VERTICAL DIVIDER

One (1) Divider, Vertical, in Compt. "C", 3/16" Thick

One (1) fixed vertical divider shall be located in Compartment C. It shall be manufactured of 3/16-inch-thick aluminum and shall be painted with scratch resistant gray rubber coating. The divider shall be approximately 17 inches deep. The divider shall be centered within Compartment C, extending from the top of the compartment to the bottom of the compartment.

Does your bid comply with this requirement?

Yes () No ()

COMPARTMENT "C" SHELF

One (1) Shelf, Custom, Compt. "C", Fixed, Recessed track

One (1) exterior cabinet shelf shall be provided in Compartment C. The shelf shall be manufactured from 0.188-inch aluminum and shall have a 0.125-inch-thick ribbed rubber mat. The shelf shall be mounted on the right side of the vertical divider and extend to the forward facing (right) compartment wall, approximately 47.5 inches above the floor.

Does your bid comply with this requirement?

Yes () No ()

EQUIPMENT SECURING STRAPS

One (1) Seat Belt, Across Compt. Opening

One (1) heavy duty nylon strap set with heavy duty, quick release buckles shall be installed in Compartment "C", from Wall #1 to the center divider to secure backboards.

Does your bid comply with this requirement?

Yes () No ()

5.4.4 COMPARTMENT "D"

D, Compt., ¾ height, 170" Module

Compartment D is the driver's side rear compartment. The door opening dimensions shall be approximately 58.5 inches high and 32.25 inches wide. The interior dimensions shall be approximately 62 inches high and 36.5 inches wide and 18.5 inches deep. The compartment shall have double doors.

Does your bid comply with this requirement?

Yes () No ()

COMPARTMENT "D" SHELF

One (1) Shelf, Custom, Compt. "D", fixed, for fire helmet storage

Fixed shelf, approximately 12" down from the ceiling of the "D" compartment, with a fixed divider, centered, for fire helmet storage. The exterior compartment shelf shall be manufactured from 0.188-inch aluminum. The shelf shall have a 0.125-inch-thick ribbed rubber mat. The fixed divider shall be 3/16-inch-thick aluminum, approximately 17 inches deep, centered above the fixed shelf and be painted with scratch resistant gray rubber coating. Two (2) Ferno #559 hooks shall be installed on the back compartment wall as directed by this agency.

Does your bid comply with this requirement?

Yes () No ()

BUNKER COAT HOOKS

Two (2) Hooks, For Bunker Coats, Ferno #559, Installed

Two (2) Ferno Washington #559 hooks for bunker coats shall be installed inside the

“D” compartment. Each shall be below the fixed shelf on wall 2, centered between the two corner mounted SCBA brackets.

Does your bid comply with this requirement?

Yes () No ()

SCBA CUSTOM BRACKET PANELS

Two (2) Aluminum Panel, with Unistrut for SCBA Brackets

Shall provide two (2) 24 inch L x 8 inch W panels for SCBA bracket mounting. The panels shall be constructed of 3/16-inch aluminum and painted with a scratch resistant gray rubber coating. Each panel shall be located below the fixed upper shelf and welded onto the two corners (wall 1/2 and 2/3) of Compartment “D” to allow for the SCBA brackets to be installed on 45-degree angles.

Both panels shall have Unistrut mounted for SCBA bracket installation.

Does your bid comply with this requirement?

Yes () No ()

SCBA BRACKETS

Two (2) Bracket, SCBA, Ziamatic, UN-6-30-3-F-CRS

Two (2) Ziamatic SCBA bracket shall be located inside the “D” compartment. The model bracket shall be # Un-6-30-3-F-CRS, for MSA 45 min composite SCBA cylinders. Each Ziamatic SCBA bracket shall be mounted on the Unistrut, on the two corners (wall 1/2 and 2/3) of Compartment “D.”

Does your bid comply with this requirement?

Yes () No ()

STREAMLIGHT LED FLASHLIGHTS

Two (2) Streamlight, Fire Vulcan 180, 44315, Orange, with 12V DC chargers, Installed

Two Streamlight Model #44315 Fire Vulcan, LED 180 Vehicle Mount Flashlights shall be supplied and installed into the driver’s side rear gear cabinet, Compartment “C”, as specified below. These lights shall include a 12VDC direct wire rack, and quick release shoulder straps.

(1) Wall #1, Up High, near door opening - not to interfere with removing SCBA in corner area.

(1) Wall # 3, Up High, near door opening - not to interfere with removing SCBA in corner area.

Does your bid comply with this requirement?

Yes () No ()

5.4.5 COMPARTMENT "E"

E, Compt., 170" Module

Compartment E is on the driver's side just forward of the rear wheel. The door opening dimensions shall be approximately 36 inches high and 39 inches wide. The interior dimensions shall be approximately 38.75 inches high and 40.5 inches wide and 18.5 inches deep. The compartment shall have double doors.

Does your bid comply with this requirement?

Yes () No ()

DOGLEG IN COMPARTMENT "E"

Add Dogleg in Compt. "E" for Recessed Suction within Action Area

There shall be a dogleg in the compartment "E" to allow for the placement of the suction container on the interior to be recessed into the face of the action area. It shall be painted with scratch resistant gray rubber coating.

Does your bid comply with this requirement?

Yes () No ()

EXTERIOR ELECTRICAL SHELF

One (1) Shelf, Fixed, in Compt. "E", for Module Electrical storage

A fixed exterior shelf shall be located in Compartment "E" near the top of the compartment. It shall serve the sole purpose of mounting electrical equipment such as the power inverter, EQ2B siren and air compressor. The exterior compartment shelf shall be manufactured from 0.188-inch aluminum and shall be painted with scratch resistant gray rubber coating. A vertical "grating" shall be vertically mounted, from the compartment ceiling to the bottom of the shelf, to protect the mounted equipment.

Does your bid comply with this requirement?

Yes () No ()

5.4.6 COMPARTMENT "F"

F, Compt., Full Height, 170" Module, 72" Headroom

Compartment F is the driver's side forward compartment. The door opening dimensions shall be approximately 80.5 inches high and 18.25 inches wide. The interior dimensions shall be approximately 81.5 inches high and 20 inches wide and 18.5 inches deep.

Does your bid comply with this requirement?

Yes () No ()

DOGLEG IN COMPARTMENT "F"

"Dogleg" storage for Stairchair in Compt. "F"

There shall be a dogleg in compartment "F" within the left side of the back wall. This dogleg shall be for the storage of a Stryker Model 6252 Stairchair. Confirm that the dogleg will accommodate the dimensions of the Stairchair: 37.5 inches high, 20.5 inches wide and a folded depth of 8 inches. It shall be painted with scratch resistant gray rubber coating.

Does your bid comply with this requirement?

Yes () No ()

EXTERIOR VERTICAL DIVIDER

One (1) Divider, Vertical, Custom, in Comp. "F", 3/16" Thick

One (1) vertical divider shall be located in compartment as directed by this agency. The shelf shall be manufactured of 3/16-inch-thick aluminum and shall be painted with scratch resistant gray rubber coating. The divider shall be approximately 17 inches deep. The divider shall be centered in Compartment F, extending from the top of the compartment to the bottom of the compartment.

Does your bid comply with this requirement?

Yes () No ()

EQUIPMENT SECURING STRAPS

One (1) Seat Belt, Across Compt. Opening

One (1) heavy duty nylon strap set with heavy duty, quick release buckles shall be installed in Compartment "F", from Wall #1 to Wall #3, centered down low to secure Stairchair.

Does your bid comply with this requirement?

Yes () No ()

COMPARTMENT "F" SHELF #1

One (1) Shelf, Adjustable, (1), Custom, in Compt. "F"

One (1) exterior compartment adjustable shelf shall be located in Compartment "F." The shelf shall be manufactured of .188 aluminum. The shelf shall be approximately 42 inches above the compartment floor and 17 inches deep. This shelf shall have a 0.125-inch-thick ribbed rubber mat. The shelf shall be mounted on the left side of the vertical divider and extend to the forward facing (left) compartment wall, above the Stairchair.

NOTE: Sufficient clearance must be provided to allow for storage access and removal of the Stryker Stairchair.

Does your bid comply with this requirement?

Yes () No ()

COMPARTMENT "F" SHELF #2

One (1) Shelf, Adjustable, (1), Custom, in Compt. "F"

One (1) exterior compartment adjustable shelf shall be located in compartment F, as directed by this agency. The shelf shall be manufactured of .188 aluminum. The shelf shall be approximately 17 inches deep. This shelf shall have a 0.125-inch-thick ribbed rubber mat. It shall be mounted at a height of approximately 18 inches below the compartment ceiling, on the right side of the vertical divider, and extend to the rearward facing (right) compartment wall, above the oxygen cylinder.

Does your bid comply with this requirement?

Yes () No ()

OXYGEN CYLINDER WRENCH

One (1) Wrench, Oxygen, Tethered

An oxygen cylinder wrench shall be located in Compartment “F.” The wrench shall be tethered and mounted to wall # 3.

Does your bid comply with this requirement?

Yes () No ()

5.4.7 EXTERIOR COMPARTMENT FLOOR DROP DOWN

Four (4) Compartments, Floor 3" Drop Down from Door Opening

The bottom of Compartments B, C, D and E shall drop down 3 inches from the door opening for maximum storage space in the compartment. This will also help prevent items stored in the compartment from falling out if on uneven surface.

Does your bid comply with this requirement?

Yes () No ()

5.4.8 EXTERIOR COMPARTMENT SWEEP OUT FLOOR

Two (2) Compartments, Sweep out

The bottom of Compartments A and F shall be flush with the door opening to provide for a sweep out design. Sweep out on compartment F shall allow for ease of loading the oxygen bottle.

Does your bid comply with this requirement?

Yes () No ()

5.4.9 EXTERIOR COMPARTMENT RUBBER COATING

Six (6) Coating, Scorpion X02, Per Compt.

The interior of the compartments shall be sprayed with Scorpion X02 rubber coating in a light gray color. Scorpion X02 is a three-component acrylic-reinforced aliphatic, aromatic polyurethane protective coating system. The product has high tensile strength, excellent abrasion resistance, superior elongation, high non-skid rating, and excellent UV stability and weathering characteristics.

Does your bid comply with this requirement?

Yes () No ()

5.4.10 COMPARTMENT SILL PROTECTORS

Sill Protectors, Stainless, All Compartments

All compartments shall have a stainless-steel sill protector. The sill protectors shall be manufactured from 20-gauge stainless steel and cover the bottom door frame protecting it from scratches.

Does your bid comply with this requirement?

Yes () No ()

PROTECTIVE WALL MAT

Mat, Black, Ribbed Rubber

A black ribbed rubber mat, minimum of 0.125 inches in thickness, shall be installed in Compartment "F." The mat shall be applied to line walls 1, 2 & 3, from floor to ceiling, to protect the equipment.

Does your bid comply with this requirement?

Yes () No ()

COMPARTMENT FLOOR AND SHELF COVERING

Dri-Deck, Black, All compt. Floors and Shelves

All compartment floors and shelves shall have a black Dri-Deck installed.

Does your bid comply with this requirement?

Yes () No ()

5.5 COMPARTMENT DOORS

5.5.1 COMPARTMENT DOOR LATCHES AND HARDWARE

When the doors are opened, the hinges, latches and door checks shall not protrude into the patient compartment. All compartment doors shall employ the same type of locking

hardware. All door latches shall comply with FMVSS 206. The locking devices shall be two stage rotary latches and shall be in accordance with FMVSS. There shall be two door latches, one at the top and one at the bottom, controlled by a single locking handle. The latches shall lock into an adjustable Nader type pin located in the door frame. The Nader will utilize a captive nut to provide adjustment and replacement without loss of the nut plate.

Does your bid comply with this requirement?

Yes () No ()

5.5.2 COMPARTMENT DOOR HANDLES

Seven (7) Handle, Module Compt., Trimark, Black/Chrome

The compartment door handles shall be Trimark OEM style handle with a large enough space for gloved hands to operate the handle. The door handles shall be free floating with 1008 cold rolled steel mechanical components with Nitrotec treated wear components.

The locks shall be a KeyOne Plus lock cylinder with a reversible key. The KeyOne Plus system allows the lock core to be removed with a special key and allows it to be rekeyed for additional security and keying fleets the same. The compartment door entry system shall have been tested to 50,000 cycles. The door handle shall be mounted to the exterior door panel using mechanical fasteners and rubber gaskets that will eliminate the possibility of electrolysis. All doors shall have closed cell block foam insulation.

Does your bid comply with this requirement?

Yes () No ()

5.5.3 COMPARTMENT POWER DOOR LOCKS

Seven (7) Door Locks, Electric, Trimark, (1) DOOR, Compt. Door

The seven (7) compartment doors shall include power door locks that enable remote activation. All module compartments except battery compartment.

Does your bid comply with this requirement?

Yes () No ()

5.5.4 COMPARTMENT DOOR HOLD OPEN

Seven (7) Hold Open, Gas Strut, Compartment Door Only, 110 Degree, 30 lb.

All exterior Compartments shall have a 30-pound 110-degree gas struts in lieu of a spring-loaded hold open device.

Does your bid comply with this requirement?

Yes () No ()

5.6 PATIENT ENTRY DOORS

5.6.1 PATIENT ENTRY DOOR LATCHES AND HARDWARE

When the doors are opened, the hinges, latches and door checks shall not protrude into the patient compartment. All patient doors shall employ the same type of locking hardware. All door latches shall comply with FMVSS 206. The locking devices shall be two stage rotary latches and shall be in accordance with FMVSS. There shall be two door latches, one at the top and one at the bottom, controlled by a single locking handle.

The latches shall lock into an adjustable Nader type pin located in the door frame. The Nader will utilize a captive nut to provide adjustment and replacement without loss of the nut plate. The door latching mechanism shall have an upper and lower patented

“Emergency Release Latch” to allow egress from the vehicle if a system failure should occur.

Does your bid comply with this requirement?

Yes () No ()

5.6.2 PATIENT ENTRY DOOR HANDLES

Two (2) Handles, Patient Entry, Trimark Black/Chrome "SafePass"

The door handles shall be Trimark OEM style handle with a large enough space for gloved hands to operate the handle. The door handles shall be free floating with 1008 cold rolled steel mechanical components with Nitrotec treated wear components.

The locks shall be a KeyOne Plus lock cylinder with a reversible key. The KeyOne Plus system allows the lock core to be removed with a special key and allows it to be rekeyed for additional security and keying fleets the same. The rear trailing door shall have a patented side release paddle handle that removes the necessity of reaching inside the

patient compartment door. The door entry system shall have been tested to 100,000 cycles.

The locking system shall be from the locking handle by aluminum push rods. The patient compartment doors will be equipped with an inside door lock. All entry doors shall have horizontal aluminum reinforcements welded to the door frame and the entry doors shall have closed cell block foam insulation.

Does your bid comply with this requirement?

Yes () No ()

5.6.3 PATIENT ENTRY POWER DOOR LOCKS

Two (2) Door Locks, Electric, Trimark, (1) DOOR, Entry Door

The module entry doors shall include power door locks that enable remote activation.

Does your bid comply with this requirement?

Yes () No ()

5.6.4 CURBSIDE ENTRY DOOR HOLD OPEN

One (1) Hold open, Gas Strut, CS Entry Door, 35#

The curbside access door shall have a gas strut hold open to hold the door at approximately 90 degrees.

Does your bid comply with this requirement?

Yes () No ()

5.6.4 ENTRY DOOR PANELS

Three (3) Door Panels, Entry, Stainless Steel, w/ Chevrons, 3M Red/White

The upper and lower portion of the curbside and rear access door panels shall be brushed stainless steel. The center of each door panel shall be covered with chevrons composed of 3M red/white reflective tape.

Does your bid comply with this requirement?

Yes () No ()

5.6.5 REAR ENTRY DOOR HOLD OPENS

Two (2) Hold Opens, Rear Doors, Cast Grabber, 5.5”

The rear doors shall be held open by (2) 5.5-inch Cast Grabber. Shall be installed so doors will open as wide as possible. The U-shaped piece shall be mounted to the bottom of each door. It shall enter into a rubber insert when the door is in the open position. A corrosion inhibitor shall be applied to the mounting holes prior to installation.

Does your bid comply with this requirement?

Yes () No ()

5.6.6 REFLECTORS

Three (3) Reflector, 3 inch, Red, Screw-On

Three (3) Red, screw-on, 3-inch reflectors shall be installed in the module. One (1) reflector shall be installed on each module entry door; centered on the lower corner of each.

Does your bid comply with this requirement?

Yes () No ()

5.7 REAR BUMPER ASSEMBLY

5.7.1 REAR BUMPER AND STEP

Bumper, Rear, w/ Skids & Flip-Up Step, w/LED DOT lights

The chassis manufacturer shall supply the vehicle's front bumper. The rear bumper and step assembly shall be a single unit constructed of ten-gauge steel "C" formed channel and .100-inch-thick aluminum tread plate as measured at the thinnest point of the tread plate.

The center step of the bumper assembly shall be designed to allow it to flip up and out of the way to facilitate patient loading. The flip up section of the rear bumper shall be diamond plate to meet the requirements of KKK-A-1822-F specification. The diamond plate flip-up step shall be Gator Grip or comparable type product.

A 1.5" x 2" x 0.125" aluminum box tube shall be welded inside the step full width on the side farthest from the rear of the vehicle. A stainless-steel hinge with a center pin of .250 inch shall be used to attach the flip up section of the rear step to the main rear bumper assembly.

There shall be eye beam constructed skid plates with tow eyes mounted as part of the frame of the bumper. This assembly shall be bolted to the frame of the chassis with 5/8-inch Grade 8 bolts.

There shall be a one-half inch clearance between the bumper assembly and the rear of the modular body to allow water drainage and inhibit water collection. There shall be a DOT two-inch red LED marker light on the street side and curb side of the bumper assembly. These lights shall be a sealed unit and the connectors protected with an adhesive heat shrink. The lights shall illuminate with the vehicle head light control.

Does your bid comply with this requirement?

Yes () No ()

5.7.2 REAR BUMPER SUPPORTS RUBBER COATING

Coating, Scorpion, Rear Bumper Supports

The rear bumper supports shall be sprayed with Scorpion X02 rubber coating in a black color. Scorpion X02 is a three-component acrylic-reinforced aliphatic, aromatic polyurethane protective coating system. The product has high tensile strength, excellent abrasion resistance, superior elongation, high non-skid rating, and excellent UV stability and weathering characteristics.

Does your bid comply with this requirement?

Yes () No ()

5.7.3 RUBBER DOCK BUMPERS

Two (2) Rubber Dock Bumpers, Black, On Rear Bumper

Rubber dock bumpers shall be installed on each outboard pontoon of the rear bumper. The dock bumpers shall measure 10 inches wide and 4 1/2 inches high and 3 inches deep.

Does your bid comply with this requirement?

Yes () No ()

5.8 BODY EXTERIOR

5.8.1 FRONT STONE GUARDS

Stone Guard, Front, Diamond Plate, Type 1 & Ford Type 3

The lower front corners of the patient compartment shall have stone guards attached to the corner extrusion. They shall be diamond plate aluminum and extend from the bottom edge of the corner extrusion up approximately 13 inches. A corrosion inhibitor shall be applied to the mounting holes prior to installation.

Does your bid comply with this requirement?

Yes () No ()

5.8.2 SKIRT RAILS

Skirt rails, Extruded "C" channel

Skirt rub rails will be installed to protect the lower body and will extend the entire length of the body on the curb and street sides, exclusive of the wheel well area. They shall be made from custom 'C' channel that is cut at 45-degree angles on the ends. The rub rail shall be bolted to the lower side wall panel with 1/4" nylon spacers. A corrosion inhibitor shall be applied to the mounting holes prior to installation.

Does your bid comply with this requirement?

Yes () No ()

SKIRT RAIL REFLECTIVE TAPE

Tape, 3M, Reflective, Red, For Extruded Skirt rails

There shall be 3M Red reflective tape inserted into channel in extruded aluminum skirt rail and secured with stainless steel screw at each end.

Does your bid comply with this requirement?

Yes () No ()

5.8.3 REAR FENDER FLARES

Two (2) Flare, Fender, Bright Finish

Bright finish aluminum fender flares shall be provided around both rear wheel well openings to provide protection from wheel wash. A corrosion inhibitor shall be applied to the mounting holes prior to installation.

Does your bid comply with this requirement?

Yes () No ()

5.8.4 CURBSIDE STEP

One (1) Step, Super Loop, Below Module Curbside Door

A 20" Carr Super Hoop cast aluminum steps shall be installed just under the curbside access door. The step shall have a diamond non-slip tread pattern and be mounted below the module Curbside entry door.

Does your bid comply with this requirement?

Yes () No ()

5.8.5 REAR KICKPLATE

Kickplate, Under-Ride Bumper, w/ Tag recess

Above the rear bumper and below the rear doors, there shall be a full-length riser of aluminum diamond plate for a protective kick panel. The kick panel shall be securely fastened with ceramic coated stainless steel screws to inhibit rust that could result from electrolysis and run the full rear width of the module. Pop rivets are not acceptable. This kick panel shall be above the rear bumper height to allow the bumper to ride under the module in case of a minor collision minimizing damage to the module. There shall be a 1/4-inch-thick rubber flap secured to the bottom of the kickplate and extending below the top of the bumper to prevent road debris from accumulating on top of the bumper pods.

Does your bid comply with this requirement?

Yes () No ()

5.8.6 RECOVERY DEVICES

Two (2) Tow Eyes, Black, in Rear Kickplate

The rear of the patient compartment shall have two black tow eyes that are accessed through two holes in the rear kick plate. The holes in the kick plate shall be covered with a rubber covered metal trim.

Does your bid comply with this requirement?

Yes () No ()

5.8.7 LICENSE PLATE HOLDER

One (1) Holder, License Plate, Cast, LP0002-1

A Cast Products license plate holder, with (2) LED lights, shall be installed on the rear kickplate (centered).

Does your bid comply with this requirement?

Yes () No ()

5.8.8 FUEL AND DEF FILL CAST HOUSINGS

Two (2) Cast Housings, Fuel Fill and Def Fill, Ford F Series

A cast aluminum fuel fill and DEF fill housing shall be installed according to the chassis manufacturer's instructions.

Does your bid comply with this requirement?

Yes () No ()

5.8.9 FUEL AND DEF FILL PROTECTORS

Two (2) Fuel and DEF Fill Protectors, Stainless Steel, 10 inches wide

Provide a brushed stainless-steel plate below the Fuel fill and DEF fill housings to protect the body finish from spillage. Installed fuel/DEF fill perimeter to bottom skirt rail.

Does your bid comply with this requirement?

Yes () No ()

5.8.10 REAR MUD FLAPS

Mud Flaps, Rear

Mud flaps with the ambulance manufacturer's logo shall be installed just behind the rear tires.

Does your bid comply with this requirement?

Yes () No ()

6.0 Module Interior

6.1 ACOUSTIC AND CLIMATE INSULATION

Insulation, Fiberglass, Un-faced

The primary manufacturer shall supply an insulating material that is non- flammable with a Class A, Class 1 fire rating. It shall be certified to meet the smoke and flammability requirements of FMVSS 302. The exposed walls of the exterior compartments and wheel wells that intrude into the interior of the modular shall be covered with reflective insulating material with a value of R-14. The side, front, and rear walls as well as the ceiling shall be insulated with three-inch-thick temperature rated un-faced fiberglass with a value of R-11.

Does your bid comply with this requirement?

Yes () No ()

Insulation, Severe Weather Package

The side, front and rear, walls as well as the ceiling shall be insulated with a one-inch block foam beneath a full covering of reflective insulation. In addition, spray foam insulation shall be installed under the aluminum floor moisture barrier and between the floor structures.

One inch block foam in modular walls and roof covered with reflective insulation. Under Floor to be Spray Foam insulated after the production assembly process is complete by 24/7. All edges of reflective insulation on walls and ceiling must be taped.

Does your bid comply with this requirement?

Yes () No ()

PATIENT COMPARTMENT SOUND LEVEL

Shall meet the requirements of paragraph 3.13.8 of Federal Specification KKK-A1822-F.

Does your bid comply with this requirement?

Yes () No ()

6.2 PATIENT COMPARTMENT INTERIOR

6.2.1 DIMENSIONS

Headroom, 72 in. Type 1 - 170" module

Length: As measured from the bulkhead to the inside edge of the rear doors at the floor shall be at least one hundred and forty-three inches. There shall be at least (25") twenty-

five inches but not more than (30") thirty inches of clear space at the head of the primary patient, measured from the face of the backrest of the attendants to the forward edge of the style one cot. Width: Shall be measured after the installation of the street side cabinets will be (44 3/4") forty-four- and three-quarter inches between the cabinet wall and the face of the squad bench.

Height: The patient compartment shall provide at least (72") seventy-two inches of height over the primary patient area from the floor to the ceiling.

Does your bid comply with this requirement?

Yes () No ()

6.2.2 MODULE HEADLINER

Headliner, Flat, PVC, w/ hinged trough cover, 160"

The module headliner shall be manufactured out of expanded PVC material. The liner shall be white and installed to allow flush mounting of the interior lighting.

Does your bid comply with this requirement?

Yes () No ()

6.2.3 FLOOR

Floor, Interior, Non-Wood, Type 1

A top floor of one-half inch Thermolite board shall be placed over the moisture shield.

The Thermolite board shall be nonabsorbent, resistant to contamination, will not rot, lightweight, will not delaminate, and has excellent structural capability. The Thermolite board shall be securely anchored to the floor sub structure with one quarter inch UNF machine by two- and one-half inch screws. The flooring shall extend the full length and width of the patient compartment including space under the cabinets.

Does your bid comply with this requirement?

Yes () No ()

6.2.4 FLOOR COVERINGS

Flooring, Lonplate II, Gunpowder Grey #424TX

The patient compartment floor covering shall be a heavy-duty material that is impervious to fluids. The flooring shall be glued to the plywood floor using an adhesive compound.

The flooring shall be Lonplate II and the color Gunpowder Gray #424. There shall be no adhesive voids between the flooring and the plywood. The floor shall be designed to roll up the side of the street side and bulk head cabinets and squad bench.

Does your bid comply with this requirement?

Yes () No ()

6.2.5 REAR DOORS THRESHOLD

The rear patient access shall be equipped with an exterior polished aluminum threshold mount to the lower door jamb. This threshold will protect the bottom door jamb, in addition the rear patient floor shall have a fourteen-gauge polished stainless steel cot protector.

Does your bid comply with this requirement?

Yes () No ()

6.3 INTERIOR CABINETS

The interior of the patient compartment shall provide but not be limited to a minimum volume of thirty cubic feet of enclosed cabinets. Interior cabinet, shelf and compartment space shall be conveniently located for medical supplies, devices or other equipment. All interior cabinets shall be manufactured from two pieces of pre-painted white .050 aluminum that is riveted together to aid in structural integrity of this compartment. The compartment is fastened to the front composite panel, Thermolite, utilizing rivets and adhesive to ensure structural integrity. The cabinets shall be insulated to aid in sound and vibrations dampening qualities.

All adjustable shelving shall be constructed of .050 white pre-painted aluminum and be held in place with aluminum tracking that is mounted to the compartment walls with screws. The front and rear lip shall be one inch high and the sides are one inch downward formed to provide added strength. All lip edges shall be covered by color coordinated push on plastic protective edging. Interior cabinet dimensions are as described.

The flat wall panels on the curbside above the squad bench and above the CPR side seat shall be constructed of a PVC material to help insulate the patient compartment. The equipment and supplies necessary for airway management shall be within easy reach of the medic at the head of the stretcher. Interior cabinet dimensions are as described.

Thermolite except interior aluminum cabinet buckets. Flat wall panels above the Curbside and Streetside walls are to be PVC material per ECN 1922. The vertical edges of cabinets shall be of a one-inch radius finish design to free the interior of the patient's

compartment of all sharp edges or projections. A solid surface action area tray shall be supplied. - CN 10 Compliant.

Does your bid comply with this requirement?

Yes () No ()

The finish of the entire patient's compartment, including storage cabinets and equipment, shall be impervious to soap and water, disinfectants, bio fluids, blood borne pathogens, mildew and shall be fire resistant per FMVSS 302.

Does your bid comply with this requirement?

Yes () No ()

6.3.1 STREETSIDE UPPER LEFT CABINET

The Streetside Upper Left (rear) Cabinet shall be mounted on the Streetside wall, to the left of the CPR Seat, and above Exterior Cabinet "E." This custom sized cabinet shall be approximately 22 inches high, 40 inches wide, and 19.5 inches deep. There shall be an adjustable shelf in this cabinet.

Does your bid comply with this requirement?

Yes () No ()

CABINET DOOR

Restocking Gray Polycarbonate Slider -CN 10 Compliant

The doors to the Streetside Upper Left Cabinet shall be a gray polycarbonate slider. The frame for the doors will be hinged at the top, in a minimum of two locations, and includes two gas strut hold opens. A separate spring steel handle assembly shall be attached to the bottom of the cabinet to lock the frame in place when shut. This handle for unlatching and opening the restocking feature shall be accomplished without opening the sliding doors, from the outside of the cabinet. This door meets SAE J3058.

Does your bid comply with this requirement?

Yes () No ()

6.3.3 STREETSIDE UPPER RIGHT CABINET

The Streetside Upper Right (forward) Cabinet shall be mounted on the Streetside wall, to the right of the CPR Seat, and mounted above the Action Area wall. This custom sized cabinet shall be approximately 22 inches high, 55 inches wide and 19.5 inches deep. There shall be an adjustable shelf in this cabinet.

Does your bid comply with this requirement?

Yes () No ()

CABINET DOOR

Restocking Grey Polycarbonate Slider -CN 10 Compliant

The door to the Streetside Lower Left Cabinet shall be a gray polycarbonate slider. The frame for the doors will be hinged at the top, in a minimum of two locations, and includes two gas strut hold opens. A separate spring steel handle assembly shall be attached to the bottom of the cabinet to lock the frame in place when shut. This handle for unlatching and opening the restocking feature shall be accomplished without opening the sliding doors, from the outside of the cabinet. This door meets SAE J3058.

Does your bid comply with this requirement?

Yes () No ()

6.3.4 STREETSIDE LOWER RIGHT CABINET

The Streetside Lower Right (forward) Cabinet shall be mounted on the Streetside wall, to the right of the CPR Seat, and mounted below the Action Area wall. The cabinet shall be furnished with Gray Lexan Sliders. Builder shall make this cabinet as wide and as deep as possible; at approximately 9.25 inches high interior. This will create a dogleg in Compartment "E."

Does your bid comply with this requirement?

Yes () No ()

6.3.5 DROP CABINET

Cabinet, Custom with Hinged Door & Latch, Action Area Wall

The builder shall also provide a custom made cabinet within the left side of the Action Area wall that is approximately 8 inches high, 24 inches wide and 8 inches deep. A hinged down laminate covered door with a wire added to hold door in 90 degrees when open.

Does your bid comply with this requirement?

Yes () No ()

Two (2) 1.5 inch diameter holes shall be drilled into the bottom panel of this cabinet. The holes shall be single file, centered in the depth, and spaced approximately 1 inch apart from each other. The first hole shall be 2.5 inches in, from the right outer edge, and the second hole shall be to the left of it with an inch in between the two. Both holes shall have a protective grommet installed to protect the cardiac monitor and laptop charging cables to pass through.

Does your bid comply with this requirement?

Yes () No ()

One (1) Latch, SouthCo M1, 2IN S/S, Non-Locking, CN 10 Rated at 10lbs

A self-latching, flush mount, non-locking SouthCo 2-inch latch shall be installed on the Drop Cabinet Door.

Does your bid comply with this requirement?

Yes () No ()

6.3.6 FORWARD CABINET

Forward Cabinet, Custom, Behind Attendant's Seat

Shall provide a custom cabinet behind the attendant seat. Shall be in front of Action Area, to match customer's current configuration of approximately 46 inches high, 10 inches wide and 9 inches deep. Cabinet to have a hinged aluminum door with latch. Interior to have Unistrut track for 2 adjustable and one fixed shelf.

Does your bid comply with this requirement?

Yes () No ()

6.3.7 BULKHEAD CABINET MODULE

Bulkhead, Custom, w/Cabinets below Pass-thru-

A Full width cabinet module on the front bulkhead, to match customer's current configuration, shall be provided. This bulkhead cabinet module shall be below the pass-thru window and shall extend from Action Area wall to the right front, Cabinet "E2."

“S1” DRAWER

The upper portion shall have a slide-out drawer (“S1” Drawer) with a locking latch. Drawer shall be approximately 30 inches wide, 7 inches high and 12 inches deep. One (1) Keyless lever latch shall be installed; CN10 latch Certified- Rated 5lbs.

“S2” CABINET

Below the drawer, the remainder of the bulkhead cabinet module (“S2” Cabinet) shall have 2 solid laminate hinged doors with latches. Cabinet shall be approximately 30 inches wide, 14 inches high and 12 inches deep. Interior to have Unistrut track for one (1) adjustable shelf. Two (2) Keyless lever latches shall be installed on each of the doors; CN10 latches Certified- Rated 5lbs.

The cabinets shall have doors that follow the standards of SAE J3058 Ambulance Interior Storage Compartment Integrity. The sliding cabinet doors shall be framed with a T6-6063 aluminum frame with specially designed negative angled grooves for the spring latched handles to grip onto for latching.

The corners of the frames shall be double keyed for stability and strength. The frame shall have gaskets to prevent intrusion of liquids into the cabinets.

The top of the bulkhead cabinet module shall have a Stainless-Steel countertop with a lip.

Does your bid comply with this requirement?

Yes () No ()

6.3.8 RIGHT FRONT CABINET MODULE

One (1) Cab, RF, AC/Combo, Custom

The Right Front Cabinet Module shall house the Heating and Air Conditioning (HVAC) unit in the upper portion of the cabinet module.

“E1” CABINET

The middle section shall be known as Cabinet “E1” which shall be enclosed and have 2 hinged aluminum doors. This cabinet will be utilized for linen and towel storage. It shall be approximately 28 inches wide, 14 inches high and 19 inches deep.

The hinged doors shall be made of ¼ inch polycarbonate in a clear or grey finish as specified by the end user. The tail end of the doors shall have a T6-6063 aluminum stiffener that interlocks with the mating door to give additional strength against impact. The leading handle shall be spring loaded to give a self-latching function with the door

frame groove to prevent the doors from inadvertently coming open. Two (2) latches shall be installed on the top of the “E1” Cabinet doors; -CN10 latches Certified- Rated 5lbs.

“E2” CABINET

The “E2” Cabinet is the bottom section of the Right Front Cabinet Module and shall be open. The “E2” Cabinet is synonymous with the “A1” Exterior Cabinet. The “E2” Opening shall be trimmed in aluminum extrusion and have a full-size cargo net consisting of (4) 2" straps installed vertically in opening, all equally spaced. The straps shall be affixed to top and bottom of the “E2” opening with buckle at mid height. All shelving and cabinet bottoms shall be lined with a black ribbed rubber mat, minimum of 0.125 inches in thickness.

Does your bid comply with this requirement?

Yes () No ()

6.3.9 CURBSIDE UPPER LEFT GLOVE CABINET

Curbside, Upper, 7 inches deep, Gray, Lexan Flap-glass

A glove cabinet shall be located above the Curbside Entry Door near the headliner. The cabinet shall be approximately 8 inches high, 32 inches wide and 7 inches deep which runs the length from Right Front Cabinet Module to the Curbside Upper Right cabinet. The cabinet shall be equipped with a gray Lexan Flap-glass door. The Lexan Flap has a spring hinge hold open and one plunger latch to hold closed. Must use (2) M1 latches on the door for CN 10 certification. The cabinet shall have three (3) circular cut equally spaced openings to retrieve the gloves.

Does your bid comply with this requirement?

Yes () No ()

6.3.10 SQUAD BENCH CABINET

The squad bench cabinet shall be located on the curbside of the patient compartment over the right rear wheel well. The squad bench shall be a minimum of 72 inches long and be constructed of ¾ inch birch. The lid shall be attached to the squad bench assembly via a stainless-steel piano hinge the entire length of the bench. The hinge shall attach with fasteners in a vertical position through the face of the lid and not through the edge of the cabinet and lid. The squad bench shall be equipped with a locking device to automatically secure the lid upon closing.

The squad bench shall be furnished with two sets of 6 Point safety belts for seated occupants and three- two-point belts for the retention of a cot when positioned on the squad bench. The anchors for the side facing seat belt assembly shall withstand a minimum of 2,500 pounds force when tested in accordance with FMVSS 210-S5.1. A full-length cushion shall be installed on the squad bench lid and on the wall as a back rest.

The interior of the squad bench shall provide storage the full length of the bench. At the head of the squad bench shall be a built-in trash disposal area. A trash can shall be accessible under a flip up lid, and a sharps container's circular opening shall be accessible through a round cutout in the squad bench lid. Both the trash can and the sharps container may be removed from the squad bench by lifting up a sectioned portion of the squad bench lid.

Does your bid comply with this requirement?

Yes () No ()

SQUAD BENCH LID

Lid, Squad Bench, 50/50 with Bio-Waste

The squad bench shall have a full-length lid that shall be manufactured from three quarter inch birch. The lid shall be split into two fifty percent sections to allow access to each and of the squad bench separately. The lids shall be covered in color coordinating high pressure laminate. Shall use a M1 latch for CN 10 on Bio-waste door.

Does your bid comply with this requirement?

Yes () No ()

SQUAD BENCH LATCH

Two (2) Handles, Trimark

The squad bench lid shall be secured with a paddle handle that latches automatically when the squad bench lid is closed. The latch shall hold the lid secure during transit and shall not open unless the handle is lifted.

Does your bid comply with requirement?

Yes () No ()

SQUAD BENCH HOLD OPEN

Two (2) Struts, Gas, 60 LB, Installed

When the squad bench lid is lifted, it shall be held in place by a 60-pound pneumatic hold open.

Does your bid comply with requirement?

Yes () No ()

6.3.11 CURBSIDE UPPER RIGHT CABINET

Curbside, Upper, 7 inches deep, 2 Section, Gray, Lexan Flap-glass

A cabinet shall be located above the squad bench near the headliner. The cabinet shall be approximately 7 inches deep, 8 inches high and run the length from the curbside door to the rear wall cabinet. The cabinet shall be separated into two equal cabinets with gray Lexan Flap-glass doors. Gray Lexan Flap glass with spring hinge hold open and one plunger latches to hold closed. Must use three (3) M1 latches on each door for CN 10 certification. NOTE: To meet KKK requirement for 43 inches of space between cushion on squad bench and bottom of splint cabinet.

Does your bid comply with this requirement?

Yes () No ()

6.4 UPHOLSTERY AND SEATING

6.4.1 UPHOLSTERY

Upholstery, Seamless, Gunmetal Grey

All upholstery shall have a minimum of thirty-two ounce nylon reinforced commercial vinyl material that is impervious to blood borne pathogens and other contaminants along with being easy to clean. Upholstered cushions for the CPR seat, attendant seat, squad bench and wall mounted backrests shall be fabricated in such a manner to eliminate exposed welting. Cushions with welting or beaded seams shall not be accepted due to the risk of bio fluid penetration. The color of the upholstery shall be gunmetal gray or close in color. Seating must meet OSHA regulation 1910.1030.

Does your bid comply with this requirement?

Yes () No ()

6.4.2 CPR SIDE SEAT

CPR, Side Seat, 12 inches

A CPR side seat shall be located directly above the rear Streetside wheel well. This will reduce the length of the Telemetry Area standard size countertop. A seamless upholstered cushion shall be located on the bottom and rear wall of the seat area. The upholstery shall be Gunmetal Grey in color.

Does your bid comply with this requirement?

Yes () No ()

SEAT STORAGE

A small storage area shall be located under the CPR seat and just above the wheel well. The storage shall be accessed by lifting a hinged lid which holds the bottom seat cushion. It shall be equipped with a Trimark latch.

Does your bid comply with this requirement?

Yes () No ()

6.4.3 ATTENDANT SEAT

Seating for the attendant shall consist of a contoured high back padded bucket seat. The seat covering shall be an easy clean vinyl material and be impervious to blood borne pathogens and other contaminants. The upholstery shall be Gunmetal Grey in color.

Seating must meet OSHA regulation 1910.1030. The seat belt must be certified to KKK - A1822 - E specification and to FMVSS and shall be an integrated three-point harness. An integrated child safety seat shall be incorporated in the seat. Installation shall comply with FMVSS. The seat shall be mounted on a metal box base.

Does your bid comply with this requirement?

Yes () No ()

6.4.4 SQUAD BENCH SEAT

The squad bench seat shall have a seamless upholstered cushion. The seat covering shall be an easy clean vinyl material and be impervious to blood borne pathogens and other contaminants. The upholstery shall be Gunmetal Grey in color. Seating must meet OSHA regulation 1910.1030.

Does your bid comply with this requirement?

Yes () No ()

SIX POINT RESTRAINT SEATS

Three (3) Seatbelt, Assy, Six (6) Point, Per4Max, Black - Change Notice 8 Compliant

There shall be three (3) Per4Max 6-point restraint seats installed in the module. They shall be fully retractable and utilizes four retractors for increased mobility. The restraint shall feature controlled deceleration technology and a single buckle for single point-of-release. The restraint shall meet the requirements of FMVSS 209 and 302 standards. The restraint shall have a built-in indicator to signify that the webbing has undergone a severe load and needs to be replaced. The system components shall be black and the seats grey.

(1) Shall be installed on the Action Area wall as a CPR side seat.

(2) Shall be installed on the Squad Bench (curbside)

Does your bid comply with this requirement?

Yes () No ()

BACKREST CUSHIONS

Three (3) Upholstery, Backrest Cushion, EVS, Gunmetal

There shall be three (3) individual seamless backrest cushions in gunmetal gray to match the upholstery. One (1) backrest cushion shall be located on the CPR seat rear wall and the other two (2) shall be centered on the squad bench wall, in correlation to the seating positions.

Does your bid comply with this requirement?

Yes () No ()

6.5. GRAB RAILS

6.5.1 OVERHEAD GRAB RAILS

One (1) Grab rail, S/S, overhead, 56 inches, Handicap Style, Powder Coat, Yellow

An overhead grab rail shall be installed over the edge of the squad bench. The grab rail shall be 1 inch diameter, yellow powder coated stainless steel and handicapped style with

rounded ends. The grab rail shall be a minimum of 56 inches long and shall be mounted in a recess in the liner.

Does your bid comply with this requirement?

Yes () No ()

One (1) Grab rail, S/S, overhead, 112 inches, Handicap Style, Powder Coat, Yellow

An overhead grab rail shall be installed in the patient compartment head liner. The grab rail shall be 1 inch diameter, yellow powder coated stainless steel and handicapped style with rounded ends. The grab rail shall be a minimum of 112 inches long and shall be mounted in a recess in the liner.

Does your bid comply with this requirement?

Yes () No ()

6.5.2 ENTRY DOOR GRAB HANDLES

Three (3) Handrails, Custom "L" Shape, 1 inch diameter, Yellow, Entry Doors

On each entry door there shall be an L shaped grab handle. The vertical portion of the L shall be close to the hinge of the door and run the full length of the upper window in the door. The horizontal portion of the L shall be located just under the upper window. The grab handles shall be 1 inch diameter, handicapped style stainless steel with a yellow powder coated finish.

Does your bid comply with this requirement?

Yes () No ()

6.6 INTERIOR FURNISHINGS

6.6.1 ACTION AREA

Console, Action Area (A/A), Wood

The Action Area shall be installed on the Streetside wall, to the right of the CPR seat and between the Right Upper and Right Lower cabinets. The console shall be manufactured out of 3/4" birch wood. The Action Area shall provide for the custom drop down cabinet to the left and a custom instrument panel switch cabinet located to the right (forward most and within the back wall of the action area).

Does your bid comply with this requirement?

Yes () No ()

The Action Area wall shall also provide for mounting of the following items, under the drop down cabinet, in this order: onboard suction control panel, two (2) oxygen discharge ports (Ohio style) with the manual bypass valve mounted to the right.

Under the instrument panel area, on the Action Area wall, shall be the light (mounted on the underside of above console), the VHF remote radio head, and radio speaker. And to the right of the previously mentioned, shall be the installed HVAC heat/AC control panel, followed by two (2) dual USB ports (USB-A/USB-C), mounted above each other, with a dual 115VAC electrical outlet mounted (recessed) to their right.

Does your bid comply with this requirement?

Yes () No ()

6.6.2 STAINLESS STEEL COUNTERTOPS

One (1) Telemetry Tray, 12 inches, Stainless Steel

A Stainless Steel Countertop shall be provided for the Telemetry Area. It shall be approximately 12 inches wide and 19 inches deep.

Does your bid comply with this requirement?

Yes () No ()

One (1) Action Area Tray, 55 inches, Stainless Steel

A Stainless Steel Countertop shall be provided for the Action Area. It shall be approximately 55 inches wide and 19 inches deep.

Does your bid comply with this requirement?

Yes () No ()

6.6.3 OXYGEN, MAIN SUPPLY AND INSTALLATION

One (1) O2 Sys, LF, 2-AA Elec, 1 Volt AC Port, 1-C/S, 1-Liner

The ambulance shall have a hospital type piped oxygen system capable of storing and supplying three thousand liters of medical oxygen. The cylinder controls shall be

accessible from inside the patient compartment. The pressure gauge shall be visible from either the attendant's seat or from the squad bench.

The oxygen shall be piped to two self-sealing Ohio adaptable oxygen outlets located in the action area; with one located in the liner at the head of the cot, and one located on the curbside wall at the head of the squad bench. There shall be an electric oxygen switch in the action area that shall engage a solenoid to open and close a valve on the oxygen tank. It shall also include a manual bypass knob in the action area in the event of an electric oxygen malfunction.

The oxygen system will incorporate electrically conducted oxygen hose with a working pressure of one hundred and fifty pounds per square inch. All oxygen hose and outlets will use machine crimped brass ferrules and high-pressure connectors. The entire oxygen delivery system will be pressured tested with a minimum of one hundred and fifty pounds per square inch of pressure of nitrogen gas for a period of four hours. The testing documentation will be delivered with the vehicle.

A vacuum port shall also be located in the action area to supply the vacuum to the suction container.

- (1) Manual oxygen bypass control on the Action Area wall
- (2) Oxygen ports (Ohio style) on the Action Area wall
- (1) Suction (Vacuum) control panel on the Action Area wall
- (1) Oxygen port (Ohio style) on the ceiling above the head area of cot
- (1) Oxygen outlet (Ohio style) on the Curb Side wall at head of squad bench

Does your bid comply with this requirement?

Yes () No ()

One (1) Regulator, Oxygen Cylinder, Preset 50PSI, Installed

Shall have one (1) Oxygen regulator for a large cylinder installed and preset to 50 psi.

Does your bid comply with this requirement?

Yes () No ()

OXYGEN CYLINDER MOUNTING BRACKET

One (1) Rack, Multiversal, #QR-MV, with Straps

A Zico Model # QR-MV Multiversal Oxygen cylinder bracket with straps shall be

provided to store the main Oxygen system cylinder. This shall be located in the Driver's side front, Compartment "F." Specify O2 bottle size.

Does your bid comply with this requirement?

Yes () No ()

One (1) Track, Unistrut for Oxygen Cylinder

Unistrut track shall be installed behind the main Oxygen cylinder bracket to allow for adjustment with different Oxygen cylinder sizes.

Does your bid comply with this requirement?

Yes () No ()

ACTION AREA INTERIOR OXYGEN VIEWING DOOR

One (1) Lexan Flap W/Hinge

A hinged Lexan door shall be installed on the oxygen viewing opening at the most forward end of the Action Area wall (right corner).

Does your bid comply with this requirement?

Yes () No ()

6.6.4 ONBOARD SUCTION

One (1) Suction Pump

A suction pump shall be installed that shall comply with Federal Specifications KKK-A-1822-F. The suction pump shall be recessed in the Action Area

wall, below the Lower Right Compartment and Right of the S/S wheel well cover.

Does your bid comply with this requirement?

Yes () No ()

SUCTION ASPIRATOR

One (1) Regulator/Holder, SSCOR 23002 with Canister clip-CN 10 Compliant

The ambulance shall be equipped with an on-board vacuum aspirator. The unit shall be

mounted on the Action Area wall above the action area tray to collect any bio fluids that may be spilled.

The unit shall be an SSCOR 22000 with a 23002 stainless steel container holder with canister clip. The container shall be disposable and the regulator panel shall be located in the action area panel. The vacuum pump shall be installed via a twelve-volt direct current system. The on/off switch shall be located in the attendant's console. The unit shall conform to J3043 requirements.

Does your bid comply with this requirement?

Yes () No ()

A suction container shall be recessed in the area below the Streetside Lower Right (forward) Cabinet, to the right of the CPR Seat, in aisle facing face of the wall above the floor. NOTE: This may create a dogleg within Exterior Cabinet "E."

Does your bid comply with this requirement?

Yes () No ()

IV BAG HOLDERS

Two (2) IV Hooks, Perko, with Straps

Two (2) Perko IV hooks, with Velcro straps, shall be installed in curbside and streetside standard locations as specified in paragraph 3.11.9 of Federal Specification KKK-A-1822F.

Does your bid comply with this requirement?

Yes () No ()

FOLD DOWN IV BAG HOLDERS

Four (4) IV Hooks, Cast, Fold Down Recessed

There shall be four (4) cast fold down style recessed IV holders. Two shall be located on the curbside at the head and foot of the cot, and two shall be located on the street side at the head and the foot of the cot.

Does your bid comply with this requirement?

Yes () No ()

SUPPLY STORAGE ORGANIZER

One (1) Acrylic Organizer, Paramedic Designs PD-7

There shall be a one (1) Paramedic Design PD-7 acrylic organizer located on the curbside wall; installed between both 6 Point restraint system seats.

Does your bid comply with this requirement?

Yes () No ()

STRETCHER MOUNT

Stryker Power Load - No Wheel Guide - Change Notice 8- COMPLIANT

Install a Stryker #6390 Power-LOAD system. Shall include a constant hot power supply for battery charging.

Does your bid comply with this requirement?

Yes () No ()

CLOCK

One (1) Clock, Analog, Self-Contained, 12/24 Hour, 8 inch

An 8-inch diameter analog 12/24 hour clock shall be installed; it shall be powered by an internal battery. The clock shall be mounted on wall # 1 of the Action Area wall (left of the CPR seat) and centered above the S/S countertop.

Does your bid comply with this requirement?

Yes () No ()

7.0 Environmental Systems

7.0 ENVIRONMENTAL SYSTEMS

Heat/AC, Combo, w/ External AC Condenser

The ambulance shall be equipped with heating, ventilating, and air conditioning systems that operate using re-circulated air and ambient air and shall be capable of maintaining interior temperature within the established comfort zone of 68 degrees Fahrenheit to 78 degrees Fahrenheit while operating between 0 degrees and 95 degrees Fahrenheit ambient. Environmental system components shall be readily accessible for servicing at the installed location. The airflow selector switch shall provide a high, medium and low setting. The switch shall be a common switch for both the heater and air conditioner.

These environmental control switches shall be immediately accessible to the attendant while seated in the primary attendant seat located at the head of the primary patient.

The module control thermostat shall be located on a removable panel above the action wall. The system shall automatically maintain the set module temperature every time the vehicle is operated. The combo air conditioning /heating shall be located in the top of the right front cabinet. The system shall have a custom external AC condenser to increase the efficiency of the system. The external AC condenser is a custom housing designed to hold a Hoseline condenser on the front of the module and allow for additional lighting mounted on the housing.

The external AC condenser measurements are approximately 65.38 inches along the rear (box side) and 40.5 inches on the forward-facing side. The housing is approximately 12.38 inches deep by 9 inches high. There are two Angled portions to allow for additional lighting for intersection clearing at approximately 17.55 inches by 9 inches at an approximate angle of 45 degrees. The condensers shall be Hoseline 2050D. They shall provide 2948 CFM of air flow across the condenser cooling coils with four 12 Volt DC fans and provide 50,000 BTUs of cooling for the 12 Volt side.

Primary manufacturers shall submit testing documentation from an independent laboratory for compliance with Federal Specification KKK-1822F with this proposal. With thermostat in action area.

12 Volt DC external condenser, in external AC condenser mounted on the front of the module. Painted to match front of module. Ford OEM White: FA91: YZ

Does your bid comply with this requirement?

Yes () No ()

8.0 Module Electrical System

8.1 ELECTRICAL GENERAL REQUIREMENTS

The vehicle's electrical system must meet KKK-A-1822-F Section 3.7.1. The Bridgeview Fire Department specifies systems, components, materials, and production methods within this section; however, failures can occur whether the vehicle is under warranty or outside the warranty parameters.

The Bridgeview Fire Department will operate this ambulance on a twenty-four hour a day, seven day a week (24/7) basis. Therefore, the primary manufacturer will provide a local service facility during regular business hours and a 24/7 support service staffed by trained technicians to assist this agency.

Local Service Facility

24/7 Service assistance, phone number _____

Does your bid comply with this requirement?

Yes () No ()

The driver and patient compartment control consoles shall be constructed in a way that the switches and any gauges are easily serviced. They shall be accessible through service panels. These panels will be secured in the closed position in a positive manner, yet can be easily opened for service.

Does your bid comply with this requirement?

Yes () No ()

The control console gauges shall be internally illuminated and controlled by the headlight switch rheostat. All lights and fixtures installed on the module exterior shall have a corrosion inhibitor applied to all mounting holes prior to installation.

Does your bid comply with this requirement?

Yes () No ()

The driver and patient console shall incorporate full size "Euro-Style" rocker switches. The switch assembly shall be 1.97 inches tall by 1.064 inches wide with silver plated copper contacts and a .250-inch spade type terminal. The rocker switch shall incorporate a LED indicator lamp and rated at 15 Amps continuous service. The switch and rocker shall be of a thermoset molding material. The complete switch assembly shall be designed to withstand one thousand (1,000) volts RMS dielectric test. The switches shall have a positive "throw" feel and an audible click upon activation and deactivation.

Does your bid comply with this requirement?

Yes () No ()

The rocker switches, as described in section 4.1.3, shall have integrated label lens area that is illuminated by two independent LED's. The LED brightness shall be controlled by the headlight rheostat. The label shall be white legends on black poly carbonate background.

Does your bid comply with this requirement?

Yes () No ()

The Ford OEM throttle monitor shall be mounted in the primary manufacturer's console. It shall be mounted to be easily accessible to the driver.

Does your bid comply with this requirement?

Yes () No ()

8.1.2 WIRING INSTALLATION

The ambulance body and accessory electrical equipment shall be served by circuit(s) separate and distinct from the vehicle chassis circuits. Wiring methods must conform to SAE J1292. All wiring provided by the primary manufacturer shall be copper and conform to all the SAE J1127 and SAE J1128 requirements. All low-tension primary cable shall have GXL or better insulation. All low-tension battery cable shall have SGX insulation. Documentation from the wiring manufacturer that the wire used by the primary manufacturer is in compliance with this requirement shall be submitted with the proposal. Bids not meeting this requirement will not be accepted.

Does your bid comply with this requirement?

Yes () No ()

The wiring shall be permanently color coded to identify wire function. Wires shall be permanently heat ink embossed with both number and function codes. The function code shall be the descriptive name of the circuit served. The number code shall be the exact purpose of that circuit. This number code shall be completely referenced in a detailed wiring schematic provided with the vehicle. The function and number code shall be embossed at a minimum of four-inch intervals the entire length of the wire terminating into all switch and control panels. The use of multi-conductor cable must be function and color coded and shown on the wiring diagram.

Does your bid comply with this requirement?

Yes () No ()

Wiring shall be routed in conduit or high temperature looms with a rating of 300 degrees Fahrenheit where necessary to protect it. All added wiring shall be located in accessible, enclosed, and protected locations and kept at least six inches from the exhaust system

components. Electrical wiring and components shall not terminate or be routed in the oxygen storage compartment except for the oxygen-controlled solenoid, compartment light, and switch.

All conduits, looms, and wiring shall be secured to the body or frame with insulated metal cable straps in order to prevent sagging and movement which results in chafing, pinching, snagging or any other damage. All apertures on the vehicle shall be properly placed in a grommet and sealed for passing wiring and conform to SAE 1292. All items used for protecting or securing the wiring shall be appropriate for the specific application and be standard automotive, aircraft marine, or electronic hardware.

Does your bid comply with this requirement?

Yes () No ()

Circuit connections shall be made on barrier style terminal blocks utilizing binding post screws for positive mechanical connections. minimize the potential for wiring shorts and voltage drops all wiring terminals shall be brass, tin plated, annealed, ETP copper with nylon high heat insulation. Serration's, inside the barrel, provide maximum contact and tensile strength after crimping. Connection shall be machine crimped, to UL standards, with a high-quality crimping tool that produces crimps for a given size wire and terminal that are precisely alike in appearance and performance. Crimping pressure must be controlled by a ratchet device on the hand tool or a corresponding pre-calibration in the crimping jaws of an automated machine. Crimping pressure can neither over-stress nor under stress the terminal-barrel-machined dies.

Does your bid comply with this requirement?

Yes () No ()

No splices shall be permitted except for connection of "pig-tail" devices. Butt splices are permitted for connection of "pig-tail" devices. The use of IDC (Insulation Displacement Connectors) connectors, i.e.: 3M Scotchlok type fasteners, is not acceptable.

Does your bid comply with this requirement?

Yes () No ()

The various wiring installations as supplied with this vehicle shall be of the automotive "harness" design. For ease of identification and future replacement these harnesses shall be engineered and manufactured in the following sections:

1) Engine compartment harness.

- 2) Driver's control console harness.
- 3) Main module harness.
- 4) Chassis rear lighting harness.

This agency is extremely concerned the primary manufacturer has the ability to control, warranty and replace the harnesses. **To that end, the primary manufacturer shall not subcontract the construction of these harnesses.**

Does your bid comply with this requirement?

Yes () No ()

8.1.3 WIRING CRITERIA AND CIRCUIT BOARD

All wiring devices, switches, outlets, etc., except circuit breakers, shall be rated to carry a minimum of one hundred and twenty-five percent (125%) of the maximum ampere load for which the circuit is protected. All wires carrying a load of more than 5 amperes shall be a minimum of 16 AWG. There shall be a master electrical component panel located in the vehicle. It is preferred that the master panel be mounted on or near the bulkhead of the patient compartment. Standard circuit breakers, relays, and diodes shall be mounted on a printed circuit board that is easily accessible. All components on the circuit board are to be permanently labeled as to their function.

Does your bid comply with this requirement?

Yes () No ()

The printed circuit board shall be designed and manufactured as follows: A screen printed board with all circuits fully numbered and labeled. The circuit board shall be a double-sided copper trace printed circuit with a double-sided laminated isolator. The board shall be non-photo image able solder mask over bare copper with hot air leveled solder over non masked copper.

Fuse capacity is the beginning factor in calculating trace width to ensure proper current carrying capability. The circuits shall then be oversized as much as space permits for maximum cooling of the board. All holes shall be plated through. The terminal strips shall be mounted on the board for connection of the above-mentioned wiring harness. Automotive transient suppressers must be incorporated into circuit board at the point of cable entry to the board.

All relays must include built in noise suppression. The suppression must be accomplished with an IN4001 parallel with the coil. The relay must have a 40-ampere continuous contact rating with one form C contact arrangement. Normally open contact must have a

maximum initial voltage drop of 200 millivolts at a 40-ampere contact load. The relays must withstand 24 VDC for five minutes conducting rated contact current in case of accidental 24 volt jump start condition.

Circuit board options must be programmable via jumpers to facilitate addition of options. The color of wire and circuit number must be screened printed at the terminal block connections on the board for rapid identification and relation to schematics. Documentation that the above requirements are met must be included with the bid document.

Does your bid comply with this requirement?

Yes () No ()

The printed circuit board shall incorporate red LED indicators for on board diagnostics for input, output, and switching circuits for troubleshooting at a glance.

Does your bid comply with this requirement?

Yes () No ()

8.1.4 CIRCUIT BOARD CERTIFICATION

The printed circuit board must meet the following specifications:

- 1) Packaging and Interconnecting Acceptability Standard number IPC 600
- 2) UL-796
- 3) Solder mask, IPC number SM-840
- 4) Solder in conformance with MIL SPEC QS-571
- 5) Laminate in conformance with IPC number 4101

Certification must be included with this bid.

Does your bid comply with this requirement?

Yes () No ()

A service loop of wire or harness, per KKK-A1822-F specification, shall be provided at all electrical components, terminals, and connection points. All relays shall be mounted for ease of serviceability. All high current diodes greater than 5 amperes shall be heat sink mounted. provide the optimum circuit "overload" protection, the electrical system's

main circuit board shall allow for the use of stud type automatic reset pole breakers. One spare 15 ampere circuit breaker shall be provided for future use.

A solid-state electronic flasher shall be heat sink mounted to the panel for control of the flashing warning light system. All wiring between the cab and module shall be connected to a terminal strip(s) or block(s) or use multi pin connectors on the electrical component panel and shall provide for future module replacement. All connectors and terminals provided shall comply with SAE J163, J561, or J928 as applicable.

Does your bid comply with this requirement?

Yes () No ()

8.2 ADDITIONAL INSTALLED CHASSIS ELECTRICAL COMPONENTS

MASTER MODULE DISCONNECT SWITCH OR DEVICE

This device shall be located on the driver's compartment Center Console and shall be permanently labeled and back lighted with a LED light and the brightness controlled by the head light rheostat. The "MASTER" disconnect switch shall be considerably different in size and feel from the other console switches.

Does your bid comply with this requirement?

Yes () No ()

A battery indicator light shall be provided. It will be a green light located in the warning light panel. It shall illuminate when the battery switch is in the "ON" position. The light shall be steady burn to indicate the batteries have been selected.

Does your bid comply with this requirement?

Yes () No ()

VOLTMETER

One (1) Meter, Analog, Volts

The vehicle shall include a Datcon analog voltmeter. It shall be located in the Cab Center Console next to the ammeter.

Does your bid comply with this requirement?

Yes () No ()

LOW VOLTAGE ALARM

One (1) Alarm, Low Voltage, Audio/Visual

The electrical system shall be monitored by a system that provides both an audible and visual warning in case of low voltage in the ambulance. The alarm shall sound if the system voltage at the batteries drops below 11.8 Volts for a 12 Volt nominal system for more than 120 seconds. A warning light shall be installed on the Cab Center Console along with a buzzer.

Does your bid comply with this requirement?

Yes () No ()

DOOR WARNING INDICATORS

There shall be an indicator light located in the cab Center Console for showing when a patient compartment door(s), side and rear, are open. This shall be a flashing red LED light. There shall also be an exterior compartment "door open" warning light. This shall be a flashing red LED light of the same size and located in the Cab Center Console.

Does your bid comply with this requirement?

Yes () No ()

BACKUP ALARM

One (1) Alarm, Back-Up, Auto Reset

A backup alarm with a cut-off switch shall activate when the vehicle is shifted into reverse. The alarm shall automatically be reset and engage when the vehicle is placed in reverse again. The device must meet OSHA and SAE J994 requirements and shall be rated (SAE) for Type C or B. The switch shall be mounted on the Cab Center Console.

Does your bid comply with this requirement?

Yes () No ()

REVERSE CAMERA

One (1) Back-up Camera, Hanscom K #HC430RVM or Equivalent, Rearview Mirror Mounted

A Hanscom Model #HC430RVM or Equivalent Backup Camera shall be provided. The exterior camera shall be mounted on the rear of the module above the rear doors, and the interior 4.3" monitor shall be integrated into the rearview mirror.

Does your bid comply with this requirement?

Yes () No ()

SIREN, PUBLIC ADDRESS SYSTEM

One (1) Siren, Federal Signal EQ2B

The ambulance shall be equipped with a Federal Signal electronic Q2B siren. The siren shall be mounted on the upper shelf in Compartment "E."

Does your bid comply with this requirement?

Yes () No ()

SIREN/HORN SWITCHING

Switch, Siren/Horn thru Horn Ring

The siren shall also be switched through the horn ring.

Does your bid comply with this requirement?

Yes () No ()

SIREN SPEAKERS

Two (2) Siren Speakers, Federal Signal, 100 W, Cast SAD/P3806-11FSD-1

Two Federal Signal 100 Watt siren speakers shall be mounted through the front bumper, with one on each side.

Does your bid comply with this requirement?

Yes () No ()

AIR HORN SYSTEM

Air Horns, Buell, 5440 comp, 10 & 12 inch horns

A Buell 5440 air horn system shall be installed with two horns. One horn shall be 10 inches long and one horn shall be 12 inches long. The compressor shall be mounted on the upper shelf in Compartment "E." The trumpets shall be mounted below the bumper, thru the rubber valance.

Does your bid comply with this requirement?

Yes () No ()

AIR HORN SWITCHING

One (1) Switch, Foot

The air horns shall be switched with a foot pedal switch mounted on the Driver's side foot well.

Does your bid comply with this requirement?

Yes () No ()

AIR HORN SWITCHING

One (1) Switch, Add, 12VDC Momentary Rocker

The air horns shall also be activated by a separate momentary rocker switch. The switch shall be mounted on passenger side of the Cab Center Console.

Does your bid comply with this requirement?

Yes () No ()

8.3 MODULE ELECTRICAL SYSTEMS

INVERTER/CHARGER

One (1) Inverter/Charger, Vanner 20-1050CUL-DC

A Vanner 20-1050CULW inverter charger shall be installed. It shall power the 110VAC outlets. It shall be mounted on the upper fixed shelf in Compartment "E." A switch shall be installed on the attendant's switch cluster in the Action Area of the module.

Does your bid comply with this requirement?

Yes () No ()

REMOTE INDICATOR

One (1) Indicator, Vanner Charger, Remote, #LSCR, LED

A remote indicator for the Vanner Inverter shall be located on the exterior of the vehicle near the Shoreline Inlet.

Does your bid comply with this requirement?

Yes () No ()

SHORELINE INLET

One (1) Kussmaul Super Auto Eject, 20 Amp. Capacity, with Red Base/Cover

A 20-ampere capacity Kussmaul Super Auto Eject shoreline inlet with a GFI and interrupter shall be installed and located above compartment E.

Does your bid comply with this requirement?

Yes () No ()

INDICATOR LIGHT

One (1) Shoreline Indicator Light, 110V AC, LED, Green

A Shoreline Indicator Light shall be installed near the shoreline inlet. A green light shall indicate that there is power from the GFI breaker to the shoreline inlet.

Does your bid comply with this requirement?

Yes () No ()

110 VOLT AC OUTLETS

120 Volt AC utility power must meet KKK - A1822 - F. Utility power shall be as described in KKK - A1822 - F paragraph 3.7.8.1. Electrical 115-volt AC receptacles shall be as described in KKK - A1822 - F paragraph 3.7.8.2.

Does your bid comply with this requirement?

Yes () No ()

Seven (7) Outlets, 120 Volt AC, Duplex

Seven (7) 120 Volt AC duplex outlets shall be installed in the patient compartment. A 120 Volt AC duplex outlet shall be installed in a location as noted below:

(1) In Action Area; shall be mounted vertically and centered on wall #1 above S/S countertop, left of CPR seat

(1) In Telemetry Area; (1) shall be mounted vertically on wall 3 inside Cabinet "L2"

(1) In Action Area; shall be mounted vertically on wall, below the attendant's switch cluster (to the right of Combo USB/USB-C outlets)

(1) On Bulkhead inside pass-thru opening, mounted vertically above Cabinet "S1"

(2) On the front wall of Cabinet "E2"; both shall be mounted vertically, side by side, located on upper right corner

(1) On the Curb Side wall; shall be mounted horizontally and located at upper right corner, below Cabinet "R2"

Does your bid comply with this requirement?

Yes () No ()

USB POWER PORTS

Three (3) Kussmaul, Outlets, Dual Port, Combo USB-A/USB-C, 5 Volt DC, 3 Amp. Capacity, Constant Hot

Shall be furnished with three (3) Kussmaul Dual Port Combo USB-A/USB-C outlets; all 5 Volt DC, 3 ampere capacity, constant hot, on separately protected circuits. Dual Port Combo USB-A/USB-C outlets shall be installed as noted below:

(2) In cab on Center Console; shall be located on each side

(1) On Action Area wall; shall be below the attendant's switch cluster

Does your bid comply with this requirement?

Yes () No ()

POWER SOURCE

Three (3) Power Source, 12 V DC, 15 Amp. Capacity, Ignition/Shoreline Switch Hot

Shall be furnished with three (3) 12 Volt DC, 20 ampere capacity and ignition/shoreline switch hot. The power source shall be split into two locations and installed at two locations, noted below:

(1) Pre-wire coil and tagged inside (terminate behind) Action Area.

(2) Pre-wire coil and tagged inside (terminate inside) front cab Center Console.

Does your bid comply with this requirement?

Yes () No ()

8.4 PATIENT COMPARTMENT CONTROLS

All switches and controls for the patient compartment shall be located on a service panel in the Action Area angled slightly toward the rear of the vehicle. The switches and controls shall be identical as referenced in section 4.1.3 of this document. These switches shall not function until the "MASTER" switch in the driver's console is in the "ON" position. The patient compartment switches shall be permanently marked and back lighted by a LED light.

Does your bid comply with this requirement?

Yes () No ()

Switch, Momentary Rocker, Activate Electric Door Locks

A momentary rocker switch shall be located as determined by this Agency and enable the power door locks for the compartment and entry doors. This switch shall be installed on a removable instrument pane the left lower corner of the Curbside wall at head of Squad bench. NOTE: The momentary dome light switch shall be mounted to the right of this on the same panel.

Does your bid comply with this requirement?

Yes () No ()

Circuit, OEM Door Lock to activate Mod Doors

A circuit shall be installed to enable the power door locks for the compartment and entry doors to be operated off the OEM cab door lock switches.

Does your bid comply with this requirement?

Yes () No ()

One (1) Keypad, Numeric, Wireless, Electric Door Locks

The vehicle shall include one (1) wireless remote numeric keypad that activate the power door locks. The keypad shall be installed in a location as determined by this agency. (Includes PLRB-RC). The keypad shall be installed to the left side of the Curbside Module Entry Door; even height with the Trimark door handle.

Does your bid comply with this requirement?

Yes () No ()

DOME LIGHT SWITCHES

Custom Switching, Interior Dome Lights

Shall provide switching for Interior Dome lights. There are a total of 11 Dome lights in this configuration. Customer requests (6) lights to activate when the doors are opened or timer is activated. Lights in Positions 1, 4, 8, 9, G & H are to activate as specified.

Does your bid comply with this requirement?

Yes () No ()

ADDITIONAL SWITCHES

Four (4) Switches, Add, 12VDC, (3) Position Rocker

A 12 Volt DC three position rocker switch shall be located in the Telemetry Area and shall power the following dome lights:

Install 4 switches in the Action Area, on a switch cluster, to control a total of eleven (11) headliner dome lights as follows:

- (1) Shall be for lights in Positions "F", "G" & "H"; to be labeled as "Center Dome."
- (1) Shall be for lights in Positions 1, 4, 7 & 9; to be labeled as "Dome Lights."
- (1) Shall be for lights in Positions 2 & 3; to be labeled as "Right Dome."
- (1) Shall be for lights in Positions 5 & 6; to be labeled as "Left Dome."

Does your bid comply with this requirement?

Yes () No ()

VEHICLE INTERIOR LIGHTING

Seven (7) Light, Dome, LED, Whelen, White Flange, (4) S/S, (3) C/S

The basic interior compartment shall be provided with seven overhead dual intensity LED lights. The lights shall be Whelen 80W00EZR. There shall be four lights located over the primary patient stretcher and three over the squad bench. These lights shall be mounted into the patient compartment head liner and shall not protrude into the patient compartment.

The overhead lights shall have two levels of intensity, a high and low settings. The attendant shall be able to control the level of light via switches in the Action Area control panel. The dual lighting shall work together or may be separately selected from side to side. The four lights over the primary patient shall illuminate on the low setting when the

side modular or rear modular doors are open. Certification shall be provided by an independent testing laboratory with this proposal.

Does your bid comply with this requirement?

Yes () No ()

VEHICLE INTERIOR LIGHTING (ADDITIONAL)

Four (4) Light, Dome, LED, Whelen, White Flange

There shall be four (4) additional Whelen 80W00EZR LED lights installed in Positions F, G & H. Shall be wired to Position #9, switched with the Right Domes lights.

Does your bid comply with this requirement?

Yes () No ()

STEP WELL LIGHT

One (1) Light, Stepwell, LED, Whelen #TOCACCCR, 2 inch

A 2" LED light shall be mounted on to wall #1 in the step well area of the modular curbside entry door. The light shall be automatically activated upon opening the curbside or rear modular entry doors.

Does your bid comply with this requirement?

Yes () No ()

ACTION AREA LIGHT

One (1) Light, Kinequip #621224W, LED, In Action Area

A 12 Volt direct current LED light with integral switch shall be provided in the attendant action area. The light shall be a Kinequip 621224W.

Does your bid comply with this requirement?

Yes () No ()

NO lighting recessed into trough cover

Does your bid comply with this requirement?

Yes () No ()

LIGHT TIMER

One (1) Timer, Momentary Switch, Dome Light, 15 Minute, Constant Hot

An Intermatic 15-minute Timer shall be installed inside the module. The timer shall be wired constant hot and shall power the dome lights listed below. This switch shall be installed on a removable instrument panel the left lower corner of the Curbside wall at head of Squad bench. NOTE: The momentary electric door lock switch shall be mounted to the left of this on the same panel. Switch to allow activation and also deactivation.

Wire to 2 Rear domes, 2 Front domes, and (2) domes in positions "G" & "H", all high intensity. These lights will also be wired to module entry door switches.

Does your bid comply with this requirement?

Yes () No ()

Circuit, Module Entry Door & Timer

Entry doors and timer to be wired to 2 Rear most domes, 2 Forward most domes, and (2) domes in positions "G" & "H."

Does your bid comply with this requirement?

Yes () No ()

Light, in Circuit Board Area, for Electrical Troubleshooting

ELECTRICAL TROUBLESHOOTING LIGHT

A small light with an integral switch shall be installed in the circuit board area for troubleshooting. The light shall be wired constant hot.

Does your bid comply with this requirement?

Yes () No ()

8.5 VEHICLE EXTERIOR LIGHTING

VEHICLE EXTERIOR LIGHTING REQUIREMENTS

The basic exterior ambulance lighting shall comply with FMVSS standard number 108 and the requirement herein and include:

- 1) DOT Clearance and side marker lights

- 2) Amber front and rear directional signals, red brake and reverse lights
- 3) Scene and rear loading lights
- 4) Emergency warning lights
- 5) Spotlight (s)

The manufacturer shall incorporate DOT marker lights at the highest point of the vehicle on the module. The marker lights shall be visible 360 degrees. These measures will ensure the vehicle will be visible in low light conditions with the headlights in the "on" position. The rear side marker light shall be a minimum of two inches in diameter and shall function as a turn signal indicator as described in KKK - A1822 - F.

Does your bid comply with this requirement?

Yes () No ()

8.5.1 DOT MARKER LIGHTS

AMBER MARKER LIGHTS

Seven (7) Light, DOT, Clearance, Amber LED

A total of seven (7) DOT Amber LED clearance lights shall be installed as noted below:

(5) DOT Amber LED clearance lights shall be installed on the module front, under the roof rail.

(2) DOT Amber LED clearance lights shall be installed; (1) on each module side, closest to the front corner and under the roof rail.

Does your bid comply with this requirement?

Yes () No ()

RED MARKER LIGHTS

Seven (7) Light, DOT Clearance, Red LED

A total of seven (7) DOT Red LED clearance lights shall be installed as noted below:

(5) DOT Red LED clearance lights shall be installed on the module rear, under the roof rail.

(2) DOT Red LED clearance lights shall be installed; (1) on each module side, closest to the rear corner and under the roof rail.

Does your bid comply with this requirement?

Yes () No ()

8.5.2 MODULE SIDE MARKER LIGHTS

Two (2) Lights, Side Marker, Red, 4 inch, LED

Two 4" Red LED marker lights shall be installed in the rear side of the body. One shall be installed on the driver's side, forward of Compartment "D" and one installed on the passenger side forward of Compartment "C." They shall operate as marker lights and flash with the turn signals.

Does your bid comply with this requirement?

Yes () No ()

8.5.3 FRONT TURN SIGNALS

Two (2) Turn Signal, Whelen, LED, M6T, Amber Arrow, Module Front

Two Whelen M6T Amber Arrow LED turn signal lights shall be installed on the front of the patient compartment. They shall be located below the upper outer corner emergency lights. A waterproof connection to the OEM tail light harness is required.

Does your bid comply with this requirement?

Yes () No ()

8.5.4 DOT TAILLIGHT PACKAGE

Taillight Complete Sets, Whelen, LED Stop/Tail (2), LED Turn (2) & LED Reverse (2)

There shall be a Whelen M6 taillight package installed on the rear of the module. Each side shall have in the following order: (1) Whelen M6BTT LED Red, Red stop/tail light, (1) Whelen M6T LED Amber, Amber turn signal and (1) Whelen M62BU LED Clear, Clear reverse lamp. A waterproof connection to the OEM tail light harness is required.

- 1) Brake - Alert Flash before the steady Burn
- 2) Turn Arrow - sequential arrow JA-14-360E

Does your bid comply with this requirement?

Yes () No ()

Eight (8) Flange, Whelen, Chrome, M6FC

Eight (8) Whelen chrome flanges shall be installed on M6 series lights previously listed above in this specification.

Does your bid comply with this requirement?

Yes () No ()

8.5.5 LICENSE TAG LIGHT

Two (2) Light, License Tag, Trucklite #15205 LED

There shall be two license tag lights installed on each side of the rear license plate.

Does your bid comply with this requirement?

Yes () No ()

8.5.6 EXTERIOR SCENE LIGHTS

Four (4) Light, LED, Whelen, Clear, #M9LZC w/Flange, Mod Sides

Four (4) Whelen M9LZC Clear LED scene lights shall be installed with chrome flanges. These lights shall not be less than seventy-five inches above the ground and shall not be obstructed by open doors. Two (2) scene lights shall be located on each side of the module and must be firmly fastened to the body surface below the roof line. The side scene lights shall be controlled from the cab console and be independently switched.

Does your bid comply with this requirement?

Yes () No ()

8.5.7 REAR LOADING LIGHTS

Two (2) Light, LED, Whelen, Clear, #M7ZC w/Flange, Mod Rear

Two (2) Whelen M7ZC Clear LED scene lights shall be installed with chrome flanges. These lights shall not be less than seventy-five inches above the ground and shall not be obstructed by open doors. Two (2) scene lights shall be located on the upper rear of the module above the rear doors. They shall be firmly fastened to the body surfaces below the roof line. The Rear Load Lights shall be controlled from the cab console and be independently switched.

Does your bid comply with this requirement?

Yes () No ()

SCENE LIGHT ACTIVATION

Scene Lights, Curbside, Activated W/Curbside Door

The curbside scene lights shall be activated when the curbside door is opened.

Does your bid comply with this requirement?

Yes () No ()

REAR SCENE LIGHTS ACTIVATION

Rear Scene Lights Activate with Reverse Gear

The rear scene lights on both the curbside and streetside shall activate when the vehicle is place in the reverse gear. The Rear Load Lights wired to reverse is standard.

Does your bid comply with this requirement?

Yes () No ()

EXTERIOR COMPARTMENT LIGHTING

Lighting, Compartment, LED Hi-Brite Flex

LED Hi-Brite Flex lighting shall be installed in all exterior compartments. It shall be installed on both vertical edges near door jambs and across top edge near door jamb. LED Hi-Brite Flex lighting shall be installed in Compartments "A", "B", "C", "D", "E", & "F."
NOTE: Retain 2-inch O2 light.

Does your bid comply with this requirement?

Yes () No ()

SPOTLIGHT

One (1) Spotlight, Handheld, Dynamics, CL-12, 750,000 CP

One (1) hand held spotlight shall be provided with a minimum of seven hundred and fifty thousand candle power lamp. The spotlight shall be a Dynamics CL-12. It shall be in a corrosion proof housing with a protected momentary switch to prevent accidental activation. A minimum eight feet of heavy-duty coiled cord will be supplied and it shall be hard wired in the cab area and accessible to the driver and passenger.

Does your bid comply with this requirement?

Yes () No ()

8.6 EMERGENCY LIGHTING SYSTEM

The emergency lighting system must provide the vehicle with 360 degrees of visual warning ability. The system must display highly perceptible and attention getting signals that function in a modal system and convey the message in the primary mode to clear the right of way. In the secondary mode hazard vehicle stopped on right of way.

Does your bid comply with this requirement?

Yes () No ()

The basic warning light system shall contain twelve red and one clear light. These lights shall function in a dual mode system as shown in KKK-A-1822F and meet the physical and photo metric requirements of paragraph 3.8.2.1 of that same document. The upper body warning lights shall be identical and mounted at the extreme upper corner areas of the ambulance body below the horizontal roof line, with the single clear light mounted between the two-front facing red upper corner lights. The two red grill lights shall be mounted per KKK-A-1822-F specifications without compromising the chassis manufacturer's air intake into the engine compartment.

Does your bid comply with this requirement?

Yes () No ()

PHOTO METRIC AND PHYSICAL REQUIREMENTS

As specified by KKK-A-1822-F. All emergency light switches shall be labeled as specified in paragraph 3.7.11 of KKK-A-1822-F, and the primary/secondary mode switch(s) shall have an indicator light to show the driver which mode is activated. All warning light control switches, as described in section 4.3.1 of this document, shall be located in the driver control console and arranged to provide the warning signal modes and combinations as specified in Table 1 of KKK-A1822-F, page 19. An independent testing laboratory will certify that the system meets these requirements. Test documents to be included with this proposal.

Does your bid comply with this requirement?

Yes () No ()

One (1) Tomar #401-1228-PREHI/PRELO Power Supply

A Tomar #401-1228-PREHI/PRELO mini, Pre-Emption power supply, shall be installed and wired to a Tomar 3x7 emitter in the center upper position of the AC external condenser. A rocker switch shall be mounted on the Cab Center Console.

Does your bid comply with this requirement?

Yes () No ()

Ten (10) Light, M9R, LED, Whelen, Red, Red Lens, W/ Chrome Flange

A Whelen 90RR5FRR Red Super LED light shall be mounted in the following locations as noted below:

- (2) On the module front upper outer corners.
- (4) On the module left & right sides; (2) on each side on upper outer corners. Pattern shall be: Action Flash 150, pri/sec.
- (2) On the front of AC external condenser; (1) each side of center lights. Pattern - Action Flash 150, pri/sec.
- (2) On the module rear upper outer corners. (X pattern with rear kick plate lights) Pattern shall be: Comet Flash 75, pri/sec.

Does your bid comply with this requirement?

Yes () No ()

Two (2) Light, M9A, LED, Whelen, Amber, Amber Lens, W/ Chrome Flange

A Whelen 90AA5FAR Amber Super LED light shall be mounted in the following locations as noted below:

- (2) On the rear of module; (1) shall be centered on each side and shall be flush with bottom of rear windows to show through LOWER REAR WINDOWS. Pattern - Action Flash 150, pri/sec.

Does your bid comply with this requirement?

Yes () No ()

Two (2) Light, M9D, LED, Whelen, R/C, Clear Lens, W/ Chrome Flange

A Whelen 90RC5FCR Red/Clear Super LED light with a clear lens shall be mounted in the following locations as noted below:

- (2) On the front AC external condenser; shall be mounted on angled ends. Pattern - Action Flash 150 - Top/Bottom, pri/sec.

Does your bid comply with this requirement?

Yes () No ()

Three (3) Light, M7R, LED, Whelen, Red, Red Lens, W/ Chrome Flange

A Whelen 70R02FRR Red Super LED light shall be installed as noted below. The lens shall be Red and the LED lights shall be Red.

(1) On the rear of the module; shall be centered above rear doors. Pattern: Action Flash 150 pri/Sec

(2) One on each rear side below the reverse lamps mounted on the Rear Kick Plate. (X pattern with rear upper outer corner lights)

Pattern: Comet flash 75 solid, pri/sec

Does your bid comply with this requirement?

Yes () No ()

One (1) Light, M7C, LED, Whelen, Clear LED, IATS

A Whelen 70C02FCR Clear Super LED light shall be installed as follows. The lens shall be Clear and the LED lights shall be Clear. The M7C shall be installed on the front center of the module, underneath the Tomar 3x7 emitter. Pattern - Action Flash 150 pri/sec.

Does your bid comply with this requirement?

Yes () No ()

Two (2) Light, M7D, LED, Whelen, R/C, Clear Lens, IATS

Two Whelen 70RC6FCR Red/Clear Super LED light shall be installed as follows. The lens shall be Clear and the LED lights shall be Red/Clear. One M7D shall be installed on each side of module, centered above the rear wheel wells. Pattern - Action Flash 150, Left/Right, pri/sec.

Does your bid comply with this requirement?

Yes () No ()

Three (3) Light, 5L TIR6, Whelen, Red, Red Lens, 50R03ZRR, IATS

Three Whelen 50R03ZRR Red Super LED light shall be installed as noted below. The lens shall be Red and the LED lights shall be Red. One 5L shall be installed on each module entry door on the lower inside panel. Light to flash when the entry door is open and the vehicle warning lights are activated. Pattern - Triple Flash Ref drawings for placement.

Does your bid comply with this requirement?

Yes () No ()

Three (3) Light, 5L LIN6, Whelen, Red, Red Lens, 50R02ZRR, Chassis Grille

Three Whelen 50R02ZRR Red Super LED lights shall be installed in the locations noted below. The lens shall be Red and the LED lights shall be Red.

(2) Shall be mounted near each end of the Lower grille; internal flashers, primary only

(1) Shall be mounted near the end of the DRIVER'S Side of the Upper grille; internal flashers, primary only.

NOTE: Synchronize all (4) grille lights in "X" pattern; Double 75 Flash Pattern EACH

Does your bid comply with this requirement?

Yes () No ()

One (1) Light, 5L LIN6, Whelen, Green LED, Green Lens, 50G02ZGR, Chassis Grille

Provide LIN6 LIGHT, 50G02ZGR, GREEN. Upper Grill, Drivers Side, Internal Flasher, Primary Only,

NOTE: Synchronize all (4) grille lights in "X" pattern, Double 75 Flash Pattern EACH

Does your bid comply with this requirement?

Yes () No ()

Five (5) Housing, 5L Series, #5LSMAC

Five (5) Whelen chrome housings shall be installed on all (4) grille lights and (3) module entry doors, open lights.

Does your bid comply with this requirement?

Yes () No ()

Six (6) Flange, Whelen, Chrome, M7FC

Six (6) Whelen chrome flanges shall be installed on M7 series lights as listed in this specification.

Does your bid comply with this requirement?

Yes () No ()

Two (2) Light, Whelen, M4D Red/Clear, Clear Lens, Front Intersection Lights

Two (2) Whelen, M4D, Super LED Clear/Red lights with Clear Lenses shall be installed. One M4D shall be installed on each cab front fender panel, slightly above and forward of the wheel well.

Does your bid comply with this requirement?

Yes () No ()

Two (2) Flange, Whelen, M4FC, Chrome, Cab, Front Intersection Lights

Two (2) Whelen chrome flanges shall be installed on M4 series lights as listed in this specification.

Does your bid comply with this requirement?

Yes () No ()

HALOGEN FLASHER

One (1) Flasher, Whelen AFM-560

A Whelen AF-6016A flasher shall be installed and provide a flash pattern to meet KKK-1822 C or D or E specification. Set flash pattern to Comet Flash.

Does your bid comply with this requirement?

Yes () No ()

Brake Override Circuit

BRAKE OVER RIDE

The rear, upper, centered M7 light (above rear doors) shall turn on and not flash when the vehicle's brakes are activated. Wire to RED M7 on rear of module, centered above doors, into brake circuit.

Does your bid comply with this requirement?

Yes () No ()

8.7 ANTENNA COMPONENTS

8.7.1 ANTENNA CABLES AND INSTALLATION

One (1) Coax Cable, RG58/U, (1), Additional

From module roof port number #1 to terminate inside the cab console - with 6' pigtails.

Does your bid comply with this requirement?

Yes () No ()

One (1) Coax Cable, RG58/U, (1) Each, Standard, Terminate

Shall meet the requirements of paragraph 3.14.3 of Federal Specification KKK-A1822-F. From module roof port number #3 to behind the Action Area switch panel - with 6' pigtails

Does your bid comply with this requirement?

Yes () No ()

One (1) Coax Cable, RG58/U, (1) Each, Additional, Terminate

An additional coax cable shall be installed and meet the requirements of paragraph 3.14.3 of Federal Specification KKK-A-1822-F. From module roof port number 2. Coax to Terminate: Inside the front cab console with 6' pigtails

Does your bid comply with this requirement?

Yes () No ()

8.7.2 ANTENNA BASES

Three (3) Base- Antenna, Motorola Mount, With Coax Cables

Three (3) Motorola antenna bases (2 VHF & 1 UHF) shall be installed on the roof of the patient compartment. The antennas shall include coax cables that shall terminate as noted below. The coax shall be RG-58ULTRA, tinned copper braid and aluminum foil for 100% shielding. Two antenna bases (1 VHF & 1 UHF) coaxes are to terminate behind the driver's seat and the other VHF is to terminate behind the Action Area cabinet.

Does your bid comply with this requirement?

Yes () No ()

9.0 Color, Paint, Finish and Markings

9.1 PREPARATION FOR PAINTING AND FINISH

Ambulance body and all attached equipment exterior surfaces, except polished metal parts, shall be thoroughly cleaned, treated, and coated with a firm primer and preservative with rust inhibiting properties, and painted white to match the OEM chassis. Ferrous metal interior surfaces shall be painted or, when not exposed for painting, shall be treated or coated to resist corrosion.

The final stage manufacturer's painted components shall have a paint film not less than 1.25 mil. thick and a maximum total thickness of 4 mils. thick, including primers. The final film of painted surfaces shall be smooth and uniform, free of grit, streaks, blushing, runs, sagging, blisters, "fish-eyes, "orange peel", pinholes, or other surface irregularities. Exterior finish paint shall not be required on the underbody and inside surface of the body skirting. The modular body shall be painted with an Akzo Nobel (or equal) high quality automotive polyurethane acrylic paint.

Does your bid comply with this requirement?

Yes () No ()

All modular body doors shall be removed prior to paint and shall be painted separately from the modular body. After painting, the doors are to be reinstalled. The doors shall be painted using the same method as the modular body.

Does your bid comply with this requirement?

Yes () No ()

9.2 MODULAR BODY PREPARATION

The entire exterior of the modular body shall be cleaned and prepared for painting according to the following minimum requirements:

9.2.1 SUBSTRATE PREPARATION

The modular body shall be thoroughly degreased using an acetone degreaser and the wipe on – wipe off method.

- Any areas that require filling will be first be abraded with 80 grit sandpaper using a DA orbital sander. If any welds require grinding, 24 grit paper shall be used. Any plastic filler used shall be mixed and applied per Manufacturer’s instructions. After filler application, the surface shall be prepared using 80 grit sandpaper followed by 120 grit paper using a DA orbital sander.
- A minimum of two (2) coats of Wash primer EMCF shall be applied to all plastic filler areas allowing to flash five (5) minutes between coats.
- The Wash primer shall be sanded with 320 grit sandpaper using a DM orbital sander.
- A fine textured glazing putty shall be used to fill any additional surface flaws, pinholes and/or scratch marks. After curing, the surface shall be sanded with 320 grit sandpaper using a DA orbital sander.
- The substrate shall be sanded with 180 grit sandpaper using a DA orbital sander to remove any final imperfections.
- The modular body shall again be thoroughly degreased using M-600 degreaser and the wipe on – wipe off method.
- All corner extrusions and the top drip rail to be caulked as necessary.

Does your bid comply with this requirement?

Yes () No ()

9.2.2 ALUMINUM PRETREATMENT

The modular body shall be pretreated with a chromium free conversion coating that is specifically formulated for treating aluminum and its alloys. Prior to the pretreatment application, all diamond plate is to either be removed or properly masked to prevent staining. After application, the modular body shall again be thoroughly degreased using M-600 degreaser and the wipe on – wipe off method.

Does your bid comply with this requirement?

Yes () No ()

9.2.3 WASH PRIMER

The modular body shall be primed with a medium build, chromate-free, self-etching wash primer that offers excellent corrosion resistance without the use of metal preps and conditioners. There shall be a minimum of two (2) medium wet coats applied allowing a five (5) minute flash between each coat. The final coat shall be allowed to flash for 30 minutes. The primer shall be sanded with 320 grit sandpaper using a DA orbital sander or 400 grit dry sandpaper by hand. After sanding, the modular body shall again be thoroughly degreased using M-600 degreaser and the wipe on – wipe off method.

Does your bid comply with this requirement?

Yes () No ()

9.2.4 SEALER

To enhance the adhesion between the substrate and top coat of paint, a transparent sealer/adhesion promoter shall be applied to the modular body. A minimum of two (2) wet coats of sealer shall be applied. The initial coat shall be allowed to flash 10 minutes before the application of the second coat. Once the sealer has cured, the body is to be sanded smooth with 320 grit sandpaper using a DA orbital sander.

Does your bid comply with this requirement?

Yes () No ()

9.3 TOP COAT

The top coat of paint shall be a high solid two-component polyurethane enamel, suitable for automotive refinishing, trucks and equipment. Paint shall provide an easy application with excellent flow along with superior gloss and durability in a two-coat application.

Does your bid comply with this requirement?

Yes () No ()

9.3.1 PROVIDE CUSTOM PAINT SCHEME

Custom Paint Scheme per Customer’s Current Configuration

Starting on the cab white that is straight on the front face of the body, then angles up and over the top drip rail on each side of the body. Drip Rails up and including roof to remain white.

Sikkens paint code #FA90:EU

STARTING ON THE CAB ABOVE THE RED PAINT. IS TO BE WHITE PAINT THAT IS STRAIGHT ON THE FRONT FACE OF THE BODY, THEN ANGLES UP AND OVER THE DRIP RAIL ON EACH SIDE OF THE BODY. DRIP RAILS AND UP, INCLUDING THE ROOF TO REMAIN WHITE.

DO NOT PAINT UNTIL SPRAY-OUT IS APPROVED!!!!

Does your bid comply with this requirement?

Yes () No ()

9.3.2 COLOR STANDARDS AND TOLERANCES

Shall be as required by paragraph 3.16.2.1 of Federal Specification KKK-A-1822F.

Does your bid comply with this requirement?

Yes () No ()

9.3.3 SALT SPRAY RESISTANCE

Shall meet the requirements of paragraph 3.16.3 of Federal Specification KKK-A-1822F.

Does your bid comply with this requirement?

Yes () No ()

9.3.4 FINAL SAND AND BUFF

The entire exterior surface of the module shall be sanded with a minimum 1200 to 1500 grit sand paper and then followed by 3000 grit wet sandpaper. The exterior of the module will then be polished using the 3M 3000 buffing system with 3M Perfect-It III buffing compound to provide a smooth, high gloss final surface finish. This process shall provide a smooth, high gloss finish that is resistant to scratching and chipping. If proper vehicle care is taken.

Does your bid comply with this requirement?

Yes () No ()

9.4 MARKINGS

9.4.1 PINSTRIPE

Pinstripe, Gold, Non-Reflective, 1/4 inch

A gold non- reflective 1/4-inch pinstripe shall be installed along the paint belt edges. To be applied between the red/white paint break.

Does your bid comply with this requirement?

Yes () No ()

9.4.2 ROOF TOP MARKINGS

One (1) Star of Life, 32 inches, White Border, Installed on Roof

A "Star of Life" of not less than 32 inches and conforming to KKK-1822F section 3.16.4.C shall be installed on the ambulance rooftop.

Does your bid comply with this requirement?

Yes () No ()

9.4.3 VEHICLE LETTERING AND NUMBERING

The ambulance shall be lettered, numbered, and striped accordingly by Strypes and More to match the customer's current configuration. This fee incurred shall be included in this bidding specification.

Does your bid comply with this requirement?

Yes () No ()

10.0 STANDARD MANDATORY MISCELLANEOUS EQUIPMENT

Ship Loose Items:

Unless otherwise precluded elsewhere in this specification, the vehicle shall be equipped with the following:

*One five-pound Amerex fire extinguisher that is ABC dry chemical multipurpose with a quick release bracket.

*No smoking oxygen equipment signs conspicuously place in the cab and patient compartment.

Does your bid comply with this requirement?

Yes () No ()

In addition, the following items shall be shipped loose in the vehicle:

SPARE TIRE AND MOUNTING BRACKET

One (1) Spare Tire, OEM and Bracket, Spare Tire Mounting, Ship Loose

The OEM spare tire and the spare tire mounting brackets shall be shipped loose in the vehicle.

Does your bid comply with this requirement?

Yes () No ()

TOUCH-UP PAINT

Paint, Touch Up, (2) Pints, Ship Loose

Touch up paint shall be supplied with the completed unit as follows: 1 Pint of each color as follows:

(1) Red FA90:EU

(1) Ford OEM WHITE FA91: YZ

Does your bid comply with this requirement?

Yes () No ()

WALL MOUNTED SHARPS CONTAINER

One (1) Sharps Container, Kendall #8513, w/ # 8516H Bracket, shipped loose

A Kendall Model 8513-1, 5-quart Sharps Container with # 8516-1H wall brackets. Shall be shipped loose with the completed unit.

Does your bid comply with this requirement?

Yes () No ()

FIRE EXTINGUISHER

One (1) Fire Extinguisher, Amerex 5 LB. ABC, Ship Loose

One additional Amerex five-pound fire extinguisher that is ABC dry chemical multipurpose with a quick release bracket shall be supplied.

Does your bid comply with this requirement?

Yes () No ()

SURVIVOR FLASHLIGHT

One (1) Survivor Flashlight, #90503, Orange, Ship Loose

One orange Streamlight Survivor Model #90503 Flashlight with charger/holder and 120V AC & 12V DC cords. Shall be supplied and shipped loose with the completed vehicle.

Does your bid comply with this requirement?

Yes () No ()

Dealer Provided - EMS Equipment

The following equipment and services shall be supplied by the dealer prior to final delivery:

- 1) Installation of three (3) **customer supplied** mobile radios and antennas; as follows:
 - a) Install (1) UHF & (1) VHF mobile radio in the front cab console; location TBD.
 - b) Install (1) VHF mobile radio into the Rear Action Area; location TBD.
- 2) Installation of two (2) Amerex 5lb ABC Fire Extinguishers w/ brackets; location TBD.
- 3) Provide and install two (2) 36-Inch-long pieces of Unistrut to the rear wall of the Drivers side rear compartment, and four (4) Performance Advantage (PAC) Handlelok Brackets. These brackets shall accommodate tool storage. Exact locations TBD prior to delivery.

Does your bid comply with this requirement?

Yes () No ()

11.0 End of Order

QUALITY ASSURANCE PROVISIONS

Defective components shall not be furnished. Parts, equipment, and assemblies, which have been repaired or modified to overcome deficiencies shall not be furnished without the written approval of the purchaser. Construction methods utilized shall be in accordance with industry standards. Component parts and units shall be manufactured to definite standard dimensions with proper fits, clearances and uniformity. The general appearance of the vehicle shall not show any evidence of poor workmanship.

At the time of delivery, the manufacturer's representative shall explain the use and operation of the new vehicle(s) and provide an owner's manual for the complete vehicle. The manual shall contain useful information on routine maintenance and trouble shooting. All warranty registration materials shall be completed and explained at the time of delivery. The manufacturer shall arrange for over the road delivery under the finished vehicle(s) own power. The vehicle(s) shall be delivered clean and free of road debris with at least fifty percent fuel on board.

The bidder shall be responsible for the performance and test requirements required herein. This agency reserves the right to perform any of the inspections and tests set forth in this specification where such inspections are deemed necessary to assure conformation of specification. The primary manufacturer shall conform to this agency's representatives with instruments and all such assistance as may be required.

Does your bid comply with this requirement?

Yes () No ()

TESTS

The primary manufacturer is obligated to prove that the vehicle, ambulance components and equipment provided meet the requirements of this specification and are compliant to Federal Ambulance Specification KKK-A-1822-F and any amendments in effect at the time of this bid. Copies shall be provided with this of the test documents and a letter from an independent testing laboratory that has performed the tests certifying that the following tests have been conducted and passed.

Test documents or any source other than described above shall not be accepted. Failure to comply with the requirement shall be considered as nonresponsive and will not be accepted. The certified tests are as follows and conform to the requirements of this specification and Federal Ambulance Specification KKK-A-1822-F.

- a) Vehicle Physical Dimensions (3.4.11 through 3.4.11.6)
- b) Patient Compartment Interior Dimensions (3.10.4)

- c) Stepwell, Bumpers and Facilitation (3.11 through 3.10.11, 3.10.3 through 3.10.16 and 3.9.9)
- d) Storage Compartment and Facilitation (3.11 through 3.11.2.1, 3.11.4 and 3.11.6)
- e) Ambulance Body and Patient Area (3.10.1 through 3.10.3, 3.10.6 through 3.10.8, 3.10.20 through 3.10.11, 3.10.3 through 3.10.16 and 3.9.9)
- f) Vehicle Weight Distribution (4.4.3 and 3.5 through 3.5.6 and 3.19)
- g) Water Spray Test (4.4.5)
- h) 115 VAC Utility Power (3.7.8 through 3.7.8.3)
- i) Electrical System Components (3.7.8 through 3.7.8.3, 3.7 through 3.7.5, 3.7.7 through 3.7.7.4, 3.7.9 through 3.7.11, 3.8.1, 3.8.4 and 3.8.50)
- j) Patient compartment Illumination (3.8.5.1)
- k) Electrical Generating System (3.7.6 through 3.7.6.3 and AMD 005)
- l) Warning Lights and Siren System (3.8.2 through 3.8.4 and 3.14.6)
- m) Door Latches, Hinges and Hardware (3.10.9)
- n) Static Load Test (3.10.5 and AMD 001)
- o) Patient Compartment Interior Surfaces (3.10.17 and FMVSS 302)
- p) Oxygen System Test (4.4.6, 3.12.1 and 3.12.1.1)
- q) Oxygen Cylinder Restraint Test (3.11.3 and AMD 003)
- r) Litter Fastener and Anchorage (3.11.7 and AMD 003)
- s) Suction Aspirator System (3.12.3 and 3.12.4)
- t) Heating Criteria (3.4.2, 3.7.9 through 3.7.11, 3.6.3.2, 3.13.1 through 3.13.7)
- u) Air Conditioning Criteria (3.4.2, 3.7.9 through 3.7.11, 3.6.3.2, 3.13.7, 3.6.4.5.1 through 3.6.4.5.1)
- v) Ventilation Criteria (3.13.6)
- w) Patient Compartment Sound Level (3.13.8 and AMD 006)
- y) Patient Color and Markings (3.16 through 3.16.2 and 3.16.4)
- z) Manuals and Handbooks (3.20 and 6.8)
- aa) Seat Belt Test (3.11.6)
- bb) Electromagnetic Radiation and Suppression (3.7.12)

cc) Standard Miscellaneous Equipment (3.15.2)

Does your bid comply with this requirement?

Yes () No ()

EXCEPTIONS

Exceptions shall be submitted as set forth in section A1.1.2 of this document. This agency will accept proposals from any business entity proclaiming to manufacturer vehicle(s) to conform to this specification. Further, this agency will not deny the right of any manufacturer to present their product. However, it should be noted, that any primary manufacturer that does not take exceptions shall produce the vehicle exactly as described. Failure to produce said vehicle may be grounds for this agency to pursue a resolution of damages through civil and criminal court.

Does your bid comply with this requirement?

Yes () No ()

~END~