

Delta Township Fire Department Ambulance Bid Specifications

BIDDER'S INSTRUCTIONS

Bidders shall thoroughly examine all drawings, specifications, schedules, instructions and any other documents supplied as part of this invitation to bid and shall make all investigations necessary to thoroughly inform themselves regarding the content of the written specifications, drawings, and instructions supplied herein. No plea of ignorance by the bidder pertaining to the content of the specifications, drawings, schedule, or instructions will be considered by the purchaser on the deadline, if bid submission has occurred. Failure or omission on the part of the bidder to make the necessary examinations and investigations into the content of the specifications AND make all clarifications or explanations of exceptions and conditions that exist or that may exist hereafter shall NOT be accepted as a basis for making variations to the requirements of the purchaser or compensation to the bidder.

Sealed bids must be submitted to the Delta Township Clerk's office, 7710 W. Saginaw Hwy., Lansing MI 48917 NO LATER than 3 pm EDT, Monday June 12, 2012.

Any Bid questions should be directed to Chief John Clark at (517) 993-3868 or by email: jclark@deltami.gov.

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

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

Bidder Complies YES _____ NO _____

EXPLANATION OF EXCEPTIONS

Bidders may take exceptions to any part of the bid contained herein with a written itemized schedule. The schedule shall include the page number, paragraph number(s), the text that the bidder feels he cannot comply with and an explanation why the bidder feels that the requirement is not in the best interest of the purchaser AND/OR an alternate bidder solution. Alternate bidder solutions will be considered by the purchaser, if the bidder can show the purchaser that the alternate solution is, in quality and quantity, equal to OR better than the specified item. Explanations of exceptions taken must be documented and submitted with the bid proposal on or before the bid submission deadline. **Bidders are encouraged to provide acceptable alternatives**

Bidder Complies YES _____ NO _____

INFORMATION AND DESCRIPTIVE MATERIAL

The bidder must furnish all information requested in the space provided on the bid form. The

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manufacturer must supply a dated copy of their Ford QVM certificate as proof that they are a current member of the Qualified Vehicle Modifier Program. This requirement must be met even if the chassis specified is not a Ford to ensure that chassis modification standards meet a desired minimum level. The manufacturer must also supply the F-Spec certification for this particular type, at least one [1] complete set of sketches, descriptive literature, and complete specifications covering the products offered. Bids not meeting this requirement will be considered non-responsive and rejected.

Bidder Complies YES _____ NO _____

PRICES AND PAYMENTS

All bid prices shall be on a F.O.B. destination and acceptance basis at the Purchaser's specified location. These Prices shall be complete and include warranty. Payment shall be made in accordance with these specifications and the Bid Proposal submitted by the Bidder. Payment shall be made upon acceptance of the vehicle(s) and equipment specified under these specifications. All bid prices and conditions must be specified on the bid proposal form. Bid prices shall be valid for at least thirty- [30] days from the date of the bid opening or as otherwise specified on the bid proposal form. Full payment shall be made as each unit is received, inspected, and found to comply with the procurement specifications.

Bidder Complies YES _____ NO _____

PRICE LOCK

The bidder agrees to a price lock for a period of not less than twelve (12) months for a similar ambulance, except for chassis price increases out of the control of the manufacturer.

Bidder Complies YES _____ NO _____

GENERAL LIABILITY

Bidders are required to submit with their bids a Certificate of Liability Insurance in the amount of five million dollars (5,000,000) in general liability as issued by the bidder's insurance company.

Bidder Complies YES _____ NO _____

WARRANTY

The successful manufacturer shall provide a thirty six (36) month/36,000 mile warranty on the vehicle which covers defective parts and/or components, the improper choice of materials, parts, and/or components, improper design or engineering, and poor or improper workmanship or quality control techniques. The warranty shall cover the complete vehicle and shall include all costs for labor and parts or materials that are required to correct all deficiencies.

There shall be provided a lifetime electrical warranty that covers all conversion circuit boards,

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harnesses, switches, circuit breakers, and relays.

There shall be provided a lifetime transferable modular body structural warranty. The term transferable is to cover the transfer of the warranty to a second purchaser should the department sell this unit later. The lifetime structural warranty period shall also remain in effect should the modular body be remounted onto a new chassis. This remount must be performed at a service center authorized by the original manufacturer.

There shall be a ten (10) year/50,000 mile paint warranty.

Bidder Complies YES_____ NO_____

WARRANTY SURETY

To ensure quality, service, and full compliance to the above warranties the vehicle, with the exception of the chassis, must be constructed by the ambulance manufacturer. Additional elements constructed and installed "in house" are required to ensure service and parts availability. Subcontractors or lease/rental agreements to outside agencies will fail to meet this requirement. NO EXCEPTIONS WILL BE ALLOWED.

- Does the ambulance manufacturer as the prime contractor construct the modular body?
- Does the ambulance manufacturer as the prime contractor apply paint?
- Are interior cabinets constructed and installed by the ambulance manufacturer as the prime contractor?
- Are the wiring harnesses, circuit boards, and O₂ systems assembled, installed and tested by the ambulance manufacturer as the prime contractor?
- Is the upholstery for seat cushions, head pads, and backrests assembled and installed by the ambulance manufacturer as the prime contractor?

Bidder Complies YES_____ NO_____

DELIVERY

Since delivery proposals by the bidder will weigh heavily in the determination of the bid award, the delivery schedules that are submitted by the bidders shall automatically become binding upon the successful bidder. Delivery delays due to component supply problems or chassis delivery problems to the manufacturer shall not penalize either the dealer or the manufacturer. Delivery must be within a 150 calendar days from the date of the award of the bid.

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Bidder Complies YES _____ NO _____

ANTI-COLLUSION STATEMENT

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

Company Name: _____

Bidder Signature: _____

Date Signed: _____

SERVICE FACILITY

The successful bidder must have access to a service facility. Bidders must list below the nearest service facility and parts department to the purchaser.

Facility Name: _____

Address: _____

Phone Number: _____

Contact Name: _____

Approximate Miles
From Purchaser: _____

QUALITY ASSURANCE

To ensure the purchaser that proper engineering and production control guidelines have been implemented the ambulance manufacturer shall employ an integrated quality and process control program including specific process controls for facets of the manufacturing process deemed to be critical. These critical elements of the process shall be documented and that documentation shall be available not only to manufacturing personnel but also customers who visit the manufacturing facilities. The critical elements shall be denoted on the vehicle control document, which accompanies the vehicle through the manufacturing process. A sample of this document shall be available to the purchaser upon request. A continuous series of inspections shall be performed and signed off on the vehicle control document and shall include but not be limited to the following:

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Visual inspection of the body, welds and exterior attachments.

Visual and mechanical inspection of the heater/air conditioning lines, cables, grommets, valve connections, clamps, mounting brackets, belts, etc.

Visual inspection of cabinets, sliding/hinged cabinet doors, moldings, flooring, walls, headliner, and cushions.

Visual inspection of exterior paint, decals, and lettering.

Operational inspection of all electrical systems. This must consist of tests of battery voltage, electrical load tests, alternator output, beacons, flashers, siren, interior lighting, compartment lighting, power exhaust vent, scene lights, load lights, chassis lights, silent signal lights/buzzer, heat/cool unit, and any optional electrical devices as furnished by the manufacturer. The current requirements of each device tested must be noted on an inspection sheet together with the total current requirements.

The oxygen and vacuum systems shall be tested both prior to and after installation to meet the requirements as listed in those individual sections of this specification. Test data indicating temperature, pressure, timing, flow, etc., shall be recorded.

All chassis fluid levels shall be checked and filled to capacity. All doors, locks, windows, tires, etc. shall be inspected for proper operation and/or condition.

The completed vehicle must be test driven a minimum of ten [10] miles on paved highways and [3] miles on rough terrain to check handling, brakes, acceleration, and noises. A water spray test and visual inspection shall be performed after the road test.

Bidder Complies YES_____ NO_____

Bid Bond, 10% Required **BID BOND REQUIREMENT**

All bidders shall provide a bid bond as security for the bid in the form of a 10% bid bond to accompany their bid. This bid bond shall be issued by a Surety Company who is listed on the U.S. Treasury Departments list of acceptable sureties as published in Department Circular 570. The bid bond shall be issued by an authorized representative of the Surety Company and shall be accompanied by a certified power of attorney dated on or before the date of bid. The bid bond shall include language, which assures that the bidder/principal shall give a bond or bonds as may be specified in the bidding or contract documents, with good and sufficient surety for the faithful performance of the contract, including the Basic One (1) Year Limited Warranty, and for the prompt payment of labor and material furnished in the prosecution of the contract.

Notwithstanding any document or assertion to the contrary, any surety bond related to the sale of a

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vehicle shall apply only to the Basic One (1) Year Limited Warranty for such vehicle. Any surety bond related to the sale of a vehicle shall not apply to any other warranties that are included within this bid (OEM or otherwise) or to the warranties (if any) of any third party of any part, component, attachment or accessory that is incorporated into or attached to the vehicle. In the event of any contradiction or inconsistency between this provision and any other document or assertion, this provision shall prevail."

NO EXCEPTIONS.

Bidder Complies YES _____ NO _____

Performance Bond, 100 Percent w/25 Percent Warranty Bond

PERFORMANCE BOND REQUIREMENT

The successful bidder shall furnish a Performance and Payment Bond (Bond) equal to 100 percent of the total contract amount within 30 days of the notice of award. Such Bond shall be in a form acceptable to the Owner and issued by a surety company included within the Department of Treasury's Listing of Approved Sureties (Department Circular 570) with a minimum A.M. Best Financial Strength Rating of A and Size Category of XV. In the event of a bond issued by a surety of a lesser Size Category, a minimum Financial Strength rating of A+ is required.

Bidder and Bidder's surety agree that the Bond issued hereunder, whether expressly stated or not, also includes the surety's guarantee of the vehicle manufacturer's Bumper to Bumper Warranty period included within this proposal. Owner agrees that the penal amount of this bond shall be simultaneously amended to 25 percent of the total contract amount upon satisfactory acceptance and delivery of the vehicle(s) included herein. Notwithstanding anything contained within this contract to the contrary, the surety's liability for any warranties of any type shall not exceed one (1) year from the date of such satisfactory acceptance and delivery, or the actual Bumper to Bumper warranty period, whichever is shorter.

Bidder Complies YES _____ NO _____

Additional Specification Requirements

SERVICE CENTER (S)

Each bidder must be able to display that they have in recent times and are currently maintaining an established service center and parts depot capable of satisfying the warranty service requirements for the model and quantity of vehicles bid.

The bidder must state the location of the Service center; include photos of shop facilities and equipment. The Service center should be either Dealer owned or Company owned. The use of contract authorized service centers has proven to be ineffective due to the lack of training and equipment. Mobile service capability must be provided by the dealer or manufacturer with vehicles dedicated strictly for this purpose, marked with dealer and/or manufacturer logos, and stocked with a minimum of

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\$10,000 in equipment and parts. Photos of mobile service vehicles should be provided. Additionally a list of shop personnel should be furnished along with a sampling of ASE-EVT certifications that they possess.

Please state mileage and location of all Dealer or Manufacturer owned service locations that would provide service support to Purchasers location. Also state location of Mobile Service Vehicles if they are domiciled in locations different from fixed facilities.

A dealer toll free number for service requests shall be provided and this number should be the primary contact for all service requests. Scheduling, parts information, and technical support should be available 24 hours a day, / 7 days a week at this toll free number. Additionally the dealer must maintain a minimum of \$1,000,000.00 in parts and supplies.

Dealer must provide a minimum of \$4,000,000.00 in Liability and Workers Compensation Insurance. A copy of this insurance certificate should be provided with bid. NO EXCEPTIONS

Bidder Complies YES _____ NO _____

Criteria to Evaluate Bids

1. Previous sales/service experience of Delta Township with the bidder
2. Previous sales/service experience of other fire departments with the bidder
3. Service location in relation to Delta Township, MI
4. Satisfactory inspection of manufacturing facility (by Delta Twp), prior to final bid award
5. Ability to meet specifications or provide acceptable alternative
6. Delivery within specified time period
7. Price

PURCHASER'S RIGHTS

ACCEPTANCE OR REJECTION: The Purchaser reserves the right to accept or reject any and all bids as deemed to be in the best interest of the purchaser and is not bound to accept the lowest bid.

BID PROPOSAL TIME LIMITS: All bids submitted to the purchaser shall remain in effect for a minimum period of (60) sixty calendar days **for the 1st unit ordered; the bidder agrees to a price lock for a period of not less than twelve (12) months for a similar ambulance, accepting and chassis price increase.**

BID WITHDRAWAL: Only written bid withdrawal requests will be accepted by the purchaser. Bid withdrawals received less than (3) three working days prior to the advertised bid opening will not be accepted.

Bidder Complies YES _____ NO _____

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AUTHORITY TO PURCHASE FROM EXISTING CONTRACTS

All bidders submitting a response to this Invitation to Bid or Request for Proposal agree that such response also constitutes a bid to all governmental agencies under the same conditions, for the same contract price, and for the same effective period as this bid, should the bidder feel it is in their best interest to do so.

Each governmental agency desiring to accept these bids and make an award thereof shall do so independently of any other governmental agency. Each agency shall be responsible for its own purchases and each shall be liable only for materials and / or services ordered and received by it, and no agency assumes any liability by virtue of this bid. This agreement in no way restricts or interferes with the right of any governmental agency to bid any or all items.

Bids will be made available to other municipal and governmental agencies within the United States of America. Unit purchases after a period of one year will be adjusted to reflect to the established Producers Price Index (PPI), U.S. Labor Dept., Bureau of Statistics, Series PCU3713 # 2A, Emergency Vehicles.

Bidder Complies YES_____ NO_____

MANUFACTURING CAPABILITY

Manufacturer must submit proof of a minimum of 10 years manufacturing experience as the same entity. A NYSE or other stock exchange information must be furnished with stock symbol and latest publicly traded price at time of bid. If company is privately held then a complete financial statement covering the previous year must be furnished and / or financial statements of the principals involved. A current Independent rating of the Company's value by a firm such as Morningstar or Bloomberg shall be furnished with bid as further evidence that bidding company is fiscally sound. This is to ensure the viability of the bidding company and their ability to deliver vehicles as promised. This is due to the failure of many companies in said industry. NO EXCEPTIONS

Bidder Complies YES_____ NO_____

ENGINEERING CAPABILITY

To demonstrate your company's abilities and to show understanding of the written bid specifications, each manufacturer must submit with the bid, scale drawings of the vehicle it proposes to supply. Drawings must be "design and construct" drawings that will be used in the manufacture of the vehicle. At a minimum they must show overall dimensions, compartment sizes, lighting package, and major specified options. The drawings should show the front, rear, right side, and the left side of the exterior. They should also include the interior bulkhead, street side, curbside cabinet plans and the interior floor plan layout. The reproduction of the drawing furnished with the bid will not be acceptable as each manufacturer utilizes different material sizes and construction techniques.

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The Bidder shall furnish a list of on-site engineering staff with their educational accreditation. Additionally, the bidder shall list any other company engineering staff support that is available corporate wide.

NO EXCEPTIONS

Bidder Complies YES _____ NO _____

MANUFACTURERS COMPLIANCE

The ambulance manufacturer shall have current, up-to-date Federal Ambulance Specification and Ambulance Manufacturing Division of the National Truck Equipment Association (AMD) Testing Data. Due to recent dynamic changes in the Federal Ambulance Specification KKK-A-1822F and AMD, this data must be current. The manufacturer shall also have an up-to-date Ford Qualified Vehicle Modifier Certification. Even if the unit proposed is not mounted on a Ford chassis; this certification, in conjunction to the certifications listed above, ensures a level of competence in chassis-to-module mounting. Current certifications shall be provided upon request of the purchaser.

The manufacturer shall meet and exceed the requirements set forth in the KKK-A-1822F Federal Ambulance Specification, and AMD Standards in all instances of specified standard features, options and special options listed in this ambulance specification.

Failure to comply with this request and these requirements set forth above will result in an automatic rejection of the bid proposal.

NO EXCEPTIONS

Bidder Complies YES _____ NO _____

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 race, creed, color, sex, national 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.

Bidder Complies YES _____ NO _____

EXPERIMENTAL VEHICLES

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

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vehicles to the specifications set forth in this bid.

Bidder Complies YES _____ NO _____

PRE-CONSTRUCTION CONFERENCE

The successful contractor(s) shall be required prior to manufacturing to have a Pre-Construction conference at the site of manufacturing with representatives of this agency to finalize all the construction details. The bidder, at his/her expense, shall provide transportation, lodging and meals, etc. for two (2) people designated by the fire chief. If this meeting is to occur at a location more than 100 miles from the purchaser's location, the transportation shall be by commercial air carrier out of Lansing Airport.

Bidder Complies YES _____ NO _____

FINAL INSPECTION

Accompanied by a Dealer Representative, two (2) members of the Delta Twp. Fire Department will travel to the successful bidder's facility for the purpose of inspecting the vehicle for compliance to the specifications and for the overall quality of the vehicle.

Bidder shall be responsible for all costs include air transportation on a major commercial carrier to the nearest airport (ground transportation shall not exceed two hours), individual rooms, and meals.

Inspections shall be scheduled and funded to be conducted during weekdays, including travel time.

Bidder Complies YES _____ NO _____

GENERAL VEHICLE DESIGN, TYPE, AND FLOORPLAN

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

Bidder Complies YES _____ NO _____

COMPLETED VEHICLE DIMENSIONAL PARAMETERS

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The vehicle furnished shall comply with the following dimensions at curb weight:

Length, Overall (including rear step)	279.75"
Width, Exterior (excluding mirrors)	96"
Wheelbase	189"
Height, Exterior (With 66" Headroom)	109.875"
Height, Exterior (With 68" Headroom)	111.875"
Height, Rear Loading	Shall not exceed 38"
Height, Ground to Step	19"
Ground Clearance	7"
Length, Patient Compartment Interior	143.25"
Aisle Space with Cot Installed	14"

CURB WEIGHT

The curb weight is the total weight of the complete ambulance and is defined as the chassis, cab, body, and minimum required equipment as required by KKK-A-1822F, and includes a full complement of fuel, lubricants, and coolant shall meet Federal Requirements.

PAYLOAD ALLOWANCE

A minimum of 1,750 pounds will be allowed over and above the curb weight for personnel, patient, and miscellaneous support equipment.

Bidder Complies YES _____ NO _____

INTERIOR HEADROOM

72" of interior headroom shall be provided inside the patient area of the body. It shall be free of obstructions for the occupants' safety and shall meet or exceed all transportation and regulatory requirements.

Bidder Complies YES _____ NO _____

TECHNICAL REQUIREMENTS CAB/CHASSIS

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

Bidder Complies YES _____ NO _____

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2012 or current model year Ford F550 Chassis Cab 2WD 189" WB-Diesel

Cab and chassis shall be a Ford F550 4x2, Dual rear wheel vehicle.

GVWR 19,500 lb. Payload Pay load Plus Upgrade Package

189" Wheel base, 108" cab to axle

The vehicle shall come with the following options:

Engine: 6.7L OHV Power Stroke Diesel Engine, V8 (Opt B20), with engine block heater

Stainless Steel Exhaust

320 amp Dual Alternators

Transmission: Torq-Shift 6 Speed Auto with OD

Rear Axle: Limited Slip Differential with 4.88 gear ratio

Front axle: Mono-Beam non-independent front suspension.

Front Suspension: Front anti-roll bar with coil springs and Heavy Duty Shocks

Rear Axle: Rear Rigid Rear Axle

Rear Suspension: Rear Leaf Suspension, Rear Anti-Roll bar HD Rear Leaf Springs and Shocks

Wheels: 19.5" Painted Steel

Tires: 225/70R19.5G BSW All Season with full sized spare tire

Brakes: 4 wheel anti-Lock braking system

Dual air bags with passenger side cancellable airbag

Seat mounted side impact air bags

Daytime running lamps

Cab convenience package

AM/FM stereo with CD/MP3 player, 4 speakers, fixed antenna

Cruise control

Power windows and door locks including key fob access

Driver and passenger power remote black heated convex spotter, folding manual extension trailer mirrors with turn signal indicators.

Chrome front bumper with tow hooks

Air conditioning

4 way adjustable drivers and passenger seating

Vinyl flooring

Ambulance Prep Package (LPO) Options for the Ford Ambulance Prep Package shall be provided. No Exceptions

Bidder Complies YES_____ NO_____

Morryde Suspension System

A Morryde Suspension system specific to the Ford F-550 Chassis shall be installed to work with the OEM leaf spring system to deliver a softer, smoother, more comfortable ride. (Part number: SRS-TS-01-16)

The system shall include Morryde rubber shear springs rated to match that of the GAWR of the rear axle of the vehicle in order to provide the greatest ride quality and durability combination.

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Bidder Complies YES _____ NO _____

Anti Sway Bar Road master Front F550 **ANTI SWAY BAR**

A heavy duty Road Master Brand front stabilizer bar shall be provided to assist vehicle stability. The Road Master Brand stabilizer bar shall be engineered to improve handling characteristics by reducing the body roll and balancing the weight transfer during cornering.

Bidder Complies YES _____ NO _____

SHOCK ABSORBERS

Front and rear shock absorbers shall be OEM supplied and installed.

Bidder Complies YES _____ NO _____

Cab Headliner, OEM Standard **HEADLINER**

The cab headliner shall be OEM standard automotive cloth.

Bidder Complies YES _____ NO _____

Cab Sign, "No Smoking Oxygen Equipped" & "Fasten Seatbelts" **SIGN**

One (1) sign labeled "NO SMOKING OXYGEN EQUIPPED" and "FASTEN SEATBELTS" shall be installed in the driver's compartment on top of the floor mount console - toward walkthrough.

Bidder Complies YES _____ NO _____

Cab Flooring, OEM **CAB FLOORING**

The cab flooring shall be OEM supplied and installed.

Bidder Complies YES _____ NO _____

Map Box, Bulkhead Mounted (4) adjustable Shelves **BULKHEAD MOUNTED MAP BOX**

A bulkhead mounted map box approximately 14"W x 28"H x 5.5"D with (4) four adjustable dividers shall

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be installed on the bulkhead wall. The adjustable smooth aluminum shelves shall be angled to prevent the items in this map box from falling out during braking. This map box shall have an open top and still be no higher than the pass through window. The cabinet shall be finished in such a manner to compliment the chassis cab interior.

Bidder Complies YES _____ NO _____

Map box, (4) Glove holders, (2) cup holders

MAP BOX WITH GLOVE HOLDERS

An additional map box shall be installed behind of the front console. This map box shall be designed for easy access for the driver and passenger. This Map box shall include a section for map storage as well (4) four sections for latex glove storage. Two large round cup holders shall also be included in the front of this map box add on.

Bidder Complies YES _____ NO _____

Battery Switch - TST Commander 357 with Adj.Timer

BATTERY SWITCH

A TST Commander 357 transducer shall be installed. This system will have an adjustable integral timer pre-set to open the power circuit from the batteries to the main circuit board and interrupt power to all conversion functions after a determined amount of time when the chassis ignition is placed in the OFF position.

Bidder Complies YES _____ NO _____

Summer Switch for Block Heater

ENGINE BLOCK HEATER

The OEM chassis engine block heater shall be wired to the external 125-volt power source. An On/Off "Summer" switch shall be provided to allow the block heater to be turned off in warm weather and shall be mounted within easy reach behind the driver's seat.

Bidder Complies YES _____ NO _____

Wheel Simulators, Phoenix - Stainless Steel F-450

WHEEL SIMULATORS

Phoenix brand stainless steel wheel simulators shall be provided on all wheels of the vehicle.

Bidder Complies YES _____ NO _____

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Tire Fill Extensions (4) Phoenix Rear Inside/Outside Tires

TIRE FILL EXTENSIONS

Phoenix stainless steel braided fill extensions shall be provided on both inside and outside rear tires of the dual rear wheel vehicle.

Bidder Complies YES_____ NO_____

Driving Lights, PIAA, Clear Lens, Xtreme White

FOG LIGHTS

A set of PIAA 2100 Series Driving lights with clear lens, shall be provided and mounted in a protected area that provides the greatest illumination.

Bidder Complies YES_____ NO_____

Switch For Fog Lights In Front Switch Panel

The lights shall have a manual "on/off" switch mounted on the front console switch panel in the cab.

Bidder Complies YES_____ NO_____

MULTIPLEX ELECTRICAL SYSTEM

One of the numerous key benefits of multiplexing is the reduction of the number of connectors and splices in a vehicles electrical system, which increases its inherent reliability. To achieve this, it is important to integrate many of the stand-alone components and modules listed below into the node or nodes. Wherever it is stated that an "add-on" module will not be acceptable, there shall be no exceptions.

The manufacturer shall design the wiring harnesses needed to interface with the modules from the ground up. Cutup or modification of existing hardwired harnesses is not acceptable.

The manufacturer shall also provide an ergonomically built aluminum console designed for the specified chassis. The console shall be installed on the floor of the cab between the driver and passenger seats. This front console will house the VMUX front display panel and all options as determined by this department. The complete front console module shall be free of sharp edges.

The system must be capable of remaining active of a minimum of five minutes after the ignition has been shut off for the purpose of cleaning and restocking after an emergency call. After this five-minute delay has expired, the vehicle must shut down the electrical system to preserve battery life on the vehicle.

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The grounds from each device will return to the main ground trunk in each sub harness by the use of ultrasonic splices. Terminal strips should be reduced as much as possible or eliminated, as each crimp is a weak point in the harness that may fail over time.

Outputs:

The node outputs will be able to perform all the following items **without add-on** modules to perform any of the tasks.

Load Shedding: The system will have the capability to load shed any output at 8 different voltage level classifications:

Level 1 - 12.9V	Level 5 - 11.3V
Level 2 - 12.5V	Level 6 - 10.9V
Level 3 - 12.1V	Level 7 - 10.5V
Level 4 - 11.7V	Level 8 - 10.1V

In contrast to conventional load shedding devices, with a multiplexed system shedding levels can be assigned to any or all outputs, barring any restrictions by the Federal Ambulance Specification KKK-A-1822. This means one can specify which outputs and in what sequence loads are to be shed. **No add-on modules will be acceptable; the module with the outputs must perform this function.**

Load Sequencing: The system will be able to sequence any output at 8 different delay classifications:

Level 0 - 0 Seconds	Level 4 - 4 Seconds
Level 1 - 1 Seconds	Level 5 - 5 Seconds
Level 2 - 2 Seconds	Level 6 - 6 Seconds
Level 3 - 3 Seconds	Level 7 - 7 Seconds

Sequencing reduces the amount of voltage spikes and drops on the vehicle, and can help limit damage to the charging system. **No add-on modules will be acceptable; the module with the outputs must perform this function.**

Output Device: The system will have solid-state output devices. Each solid-state output shall be a Metal Oxide Semiconductor - Field Effect Transistor (MOS-FET). A typical relay when loaded to spec has a life of 100,000 cycles. Because MOS-FETs are solid-state devices with no moving parts, their life expectancy is more than *100 times* that of a relay. **No add-on modules will be acceptable; the module with the outputs must perform this function.**

Flashing Outputs: The system will be able to flash any output in "A" and "B" phase. The system will keep all "A" lights in sequence with each other, including lights controlled by different nodes. In addition, the "A" lights shall be 180° out of phase with the "B" lights. The system will be capable of flash rates from 75 to 1200 flashes-per-minute, thus controlling any halogen, incandescent, or LED light.

PWM: The modules will have the ability to pulse width modulate (PWM) outputs. This feature is used to dim interior lights and run fans at varied speeds. Running your interior lights at a lower duty cycle and

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intensity will extend the life of the lamps. **No add-on modules will be acceptable; the module with the outputs must perform this function.**

Diagnostics: Outputs will be able to detect either a short or open circuit. The system will report a text-based message in “real time” to point the maintenance person to a specific output and associated fault.

Inputs:

1. The inputs will have the ability to switch by a ground or battery voltage (V-Batt) signal.
2. The inputs will be filtered for noise suppression via hardware and software so that Radio Frequency (RF) or “dirty power” will not “trick” an input into changing its status.

Auto-Throttle:

The multiplex system will activate the automatic engine high idle via a network gateway or by using an existing output on a module to provide the proper signals to an OEM engine ECU. Activation of the engine high idle is dependent upon the following three conditions:

1. Vehicle transmission in “PARK”.
 2. Vehicle emergency brake “ON”.
 3. Low voltage condition sensed by the multiplex system.

This task will be handled with existing inputs and outputs. The multiplex system will monitor the voltage and turn the high idle on until the voltage set point is reached. The engine should remain at high idle for an additional two minutes to fully charge the batteries.

Color Displays:

Size

The color displays will be at least 7-inches in diagonal measurement.

Aspect Ratio

The displays aspect ratios will be 16:9 (Wide Screen); the standard 4:3 aspect ratio is not acceptable.

Virtual Switches

The displays shall be able to turn on and off multiple devices around the vehicle including, but not limited to, all warning lights, scene lights, interior lights, oxygen solenoids, the module climate control system, and the vacuum pump. The displays will have the capability of at least 80 virtual switches each. With these virtual switch capabilities the screens must work in tandem so that the current status of the devices or functions can be viewed from either the front or rear display. In addition the status of each device or function will be shown on the displays in the form of a button or icon. The text label for each device will be inside the designated button on the screens. For easy verification of the functions on/off or enabled/disabled status, a color indicator shall be displayed on each virtual button.

Driver Viewable Display

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The front display will have a graphical image of an actual ambulance. This color image shall display the doors that are open. A message shall also appear on the screen and an audible alert shall sound when there is a module entry door or compartment door "Open" with the vehicle in gear. This display will also display information about the vehicle system voltage, charging current, patient code status, and emergency lighting status.

Emergency Technician Viewable Display

The rear display will have necessary graphics for proper care and treatment of a patient. These color images shall display information about the status of the exhaust fan(s), the status of the inside temperature of the module, and the status of the oxygen supply. A warning message shall also appear on the screen and an audible alert shall sound when the oxygen tank pressure level has fallen below 500 psi. This display will also show the status of the climate control system, interior lighting, inverter, suction, and other patient care devices that may be installed in the ambulance.

"Real Time" Clock

The displays will have a "real time" clock and display the time.

Timer Function

The displays will have timer capabilities to assist the Technician in taking pulses, measuring time for sequenced doses of medication and to record times of the administration of medications and procedures. When timer is activated, the "real time" clock will continue to be displayed.

Temperature:

Cold

The displays must be capable of starting and functioning normally within 2- minutes after being cold soaked at -40° Celsius for 30-minutes. This must be accomplished without the aid of power draining add-on heaters.

Hot

The displays will be able to function in +85° Celsius without any ill effects. LCDs not meeting this requirement are not properly conditioned for the automotive environment and are prone

Electrical Environment

Reverse Polarity

The displays will not be damaged when its polarity is reversed with 24-Volts for one minute.

Transients

The displays shall be able to withstand positive and negative going transients from 100- to 300-Volts and all other tests outlined in SAE 1999 J1113/11.

Electrostatic Discharge

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The displays shall not be damaged in any way when subjected to electrostatic discharge as outlined in SAE J1455 1999 4.11.2.2.5.1.

Mechanical Performance

The displays shall not be damaged and shall function normally after any of the environmental factors listed below are encountered:

- Temperature Cycle Test (SAE J1455 1999 4.1.3.1).
- Thermal Shock (SAE J1455 1999 4.1.3.2).
- Humidity (SAE J1455 1999 4.2.3 Figure 4a).
- Mechanical Vibration (SAE J1399).

System Network:

The multiplex system will contain a Peer-to-Peer network. A Peer-to-Peer network means all the modules are equal on the network; a master module is not needed to tell other nodes when to communicate.

System Reliability:

The multiplex system will be able to perform in extreme temperature conditions, from 40° to +85° C (-40° to +185° F.) The system components shall be sealed against the environment, moisture, humidity, salt or fluids such as diesel fuel, motor oil or brake fluid. The enclosures will be rugged to withstand being mounted in various locations or compartments around the vehicle. The modules will be protected from over-voltage and reverse polarity.

Bidder Complies YES_____ NO_____

Additional V-mux Display, Squad bench wall

ADDITONAL VMUX DISPLAY

In addition to the standard display in the action area, another VMUX display shall be installed in a location determined by this department.

Bidder Complies YES_____ NO_____

V-mux 3 Button Blue Touch Switch Pod

Two (2) V-Mux 3 button blue touch switch pods shall be provided. One shall be located in the module at the head of the squad bench adjacent to the side entry door. The switches shall control the following: Side scene light cancel switch, check out light activation for module, power door locks. The second unit shall be located on the inside wall of the rear doors, passenger side. The switches shall control the following: Rear scene light cancel, check out light activation for module and power door locks.

Bidder Complies YES_____ NO_____

V-mux, External Temperature Sensor

EXTERNAL TEMPERATURE SENSOR

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An external temperature sensor shall be included with the VMUX system. The sensor shall be installed in accordance to the manufacturer's specifications.

Bidder Complies YES _____ NO _____

Portable Equipment Charging Circuits

PORTABLE EQUIPMENT CHARGING CIRCUIT

Two (2) additional 12 VDC circuits for charging portable battery powered devices, i.e. Suction units, hand lights, defibrillators, portable radios, etc. shall be provided. These circuits shall prevent discharge of chassis batteries by only permitting the charging of portable devices when the vehicle is either running or the battery conditioner is connected to shore power (operational). This implies a battery conditioner is required, and may be specified in a different location within these detailed specifications, but is not necessarily being specified within this paragraph. A minimum of 10-amp circuit breaker protection shall be provided for each circuit. These tagged, identified leads shall be located, one (1) in the patient compartment and one (1) in the vehicle cab. These leads shall not be connected to power nor shall they have any connectors attached at either end. These circuits are intended for unspecified future use.

Bidder Complies YES _____ NO _____

Circuit Protection, Grounding & Protection, Patient Compt

CIRCUIT PROTECTION

Circuit breakers and relays are to be mounted securely to the inside of the electrical control center located in the patient compartment forward of the technician seat backrest. This cabinet shall have a door large enough for complete and unobstructed inspection and maintenance, and shall hinge out of the way for free movement. The control center shall be large enough to house all circuit breakers, relays, flashers, and the medical isolator. Space for one (1) additional 15-amp single pole breaker shall be provided on the main electrical board.

All auxiliary circuitry shall incorporate overload protection devices of automatic or manual reset thermal breaker types with spade style plug-in connectors and shall continuously carry 100% of the rated capacity for a minimum of one (1) hour. Bosch, Potter & Brumfield, Hella, and Omron brand relays may be used. All circuit breakers and relays are to be spade mounted snap-in type for easy removal. The circuit board shall be screen printed with all circuits legibly numbered and labeled.

The electrical distribution panel must be a double-sided copper trace printed circuit board with a double-sided laminated isolator. Board finish shall be semi-gloss non-photo-imageable solder mask over bare copper with hot air-leveled solder over non-masked copper. The board tracks must be sized for a three ounce copper panel with a minimum thickness of 0.0042 inches of copper on each side. Fuse capacity shall determine the width and thickness requirements of each circuit track (minimum circuit track width is 100 mils). All holes in the board must be plated through. Terminal strips must be

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mounted on the board for connection of wiring harnesses. The printed circuit board must meet or exceed a polyclad layered glass epoxy NEMA GRADE FR-4 material, and meet or exceed UL-94-V-O flammability rating and MIL-P-13949F-4B Specifications. The printed circuit board surface protection must be DuPont Vacrel "8000" Polymer and withstand the MIL-STD-810C Corrosion Test and the MIL-STD-055110D Thermal Shock Test.

Design must be interchangeable with model styles from vehicle to vehicle without modification to wiring or compartment construction. In addition to the main circuit board, there shall be additional boards of the same design to provide control, lighting, and indication for the compartment and entry doors. All wires and connectors shall be of like resistance materials. One (1) complete set of each size relay and circuit breaker shall be included and mounted next to the main circuit board.

CIRCUIT GROUNDING

Grounding must be accomplished by use of a full ground wire harness. All ground wires shall be white in color and stamped every four inches (4") with the word "GROUND" or lettering "GRND". Ground return connections shall be made to the chassis structure, protected from corrosion, and available for service. In no case shall the aluminum body be used as a ground return.

Additionally, there shall be a minimum of five (5) ground points between the chassis and body components of the ambulance. One (1) 3/4", 4 AWG braided ground strap between the engine block and the chassis frame; one (1) 2 ga. Stranded copper ground strap between the body and chassis frame; one (1) 2 AWG stranded copper ground strap between the battery box and the chassis frame; one (1) 2 AWG stranded copper ground strap between the driver's seat base electrical panel and the chassis frame; and one (1) 2 ga. Stranded copper ground strap between the cab floor and the chassis frame. These critical ground points shall be established with crimped copper ring connectors and dual star washers at each end of the ground strap. Due to the application of undercoating these grounds require no specific labeling. NO EXCEPTIONS ALLOWED.

INSTALLATION AND PROTECTION

Wires shall be grouped or harnessed where practical. Metal edges through which cables pass shall be protected with nonmetallic bushings or grommets. All auxiliary circuits shall be wired separate and distinct from the vehicle chassis circuits, color coded, and clearly numbered. All wire passing from the console head shall be encased in a heavy-duty loom. All wiring shall be clipped or otherwise attached at suitable intervals to prevent rubbing or chafing due to wire movement, vibration, etc. All wiring must be stamped, color coded, labeled to indicate wire function, and conform to SAE 1292. NO EXCEPTIONS WILL BE ALLOWED.

Bidder Complies YES_____ NO_____

Front Console, F-Series, Aluminum, Black Spray coat, (2) Cup **FRONT CONSOLE**

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An ergonomically designed aluminum console shall be installed on the cab floor between the driver and passenger seats. This console shall be free of sharp edges and shall be able to accommodate the front switch panel, sirens and this department's communication equipment. The rear of the console shall contain two removable, drop in "cup style" holders.

Bidder Complies YES_____ NO_____

Rear Module Disconnect Switching Wired 3-way **3-WAY SWITCHING**

A red module disconnect Switch shall be included on the front and rear switch panels to activate the rear module power. This 3-way switch shall be able to not only activate, but deactivate the module.

Bidder Complies YES_____ NO_____

Audible Alarm, Door Open, All Doors (VMUX STD) **AUDIBLE ALARM**

An audible "Door Open" alarm shall be provided and installed in the driver's console. It shall warn the driver when any compartment or module entry door on the vehicle is open or ajar and the vehicle is placed into gear.

Bidder Complies YES_____ NO_____

Voltmeter/Ammeter Weldon VMUX Vista Display

Converter/Battery Charger, Intelli-Power PD9130 **ELECTRONIC POWER CONVERTER/BATTERY CHARGER**

One (1) Intelli-Power PD9130, 30-Amp Electronic Power Converter shall be provided and installed. The Power Converter shall have Electronic Current Limiting for rapid shut down in the event of an electrical short or an overload condition. The converter shall also be equipped with Reverse Battery Protection to prevent converter damage if battery is accidentally connected in reverse. The PD9130 shall safely recharge the vehicle's battery system. The Input Voltage Tolerance shall have a range of 105-130 VAC, 500 Watt Maximum Continuous Input Power with an Input Voltage Frequency of 50-60 Hz. The DC Output Voltage shall be 13.6 VDC, 30-Amps.

Bidder Complies YES_____ NO_____

12 Volt DC Power, Internal, Potter & Brumfield Circuits **SEAT BASE INTERNAL 12 VOLT DC POWER**

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For certain standard internal 12-volt DC power circuits, there shall be circuit protection provided by the use of manual reset breakers mounted in the outboard panel of behind the driver's seat. Potter & Brumfield 12 VDC breakers shall separately protect the Radio Power circuit with a 40-amp breaker; the Constant Power circuit with a 20-amp breaker; the OEM auto-throttle system with a 10-amp breaker (if applicable); and the Isolator circuit for the two (2) additional 12 VDC charging circuits required in 21-02-00, a 20-amp breaker. Due to the potential danger associated with a separate "battery hot" circuit, no exceptions to the above will be allowed. This Isolator circuit includes a "low voltage" Schottky Diode to isolate medical equipment batteries from any electrical loads. The diode shall be located and electrically connected between the circuit breaker and the receptacles. Additional breakers may be added for optional equipment such as power door locks, multiple radio installations or compressor pumps. Additional radio leads including hot wire, ignition switched hot wire and ground shall be provided. One set shall be in the front console and one set in the rear action area. Each power lead shall have a 30-amp circuit breaker and include one 12-volt hot wire and fuse holder with 30 amps.

Bidder Complies YES_____ NO_____

Outlets, (2) 12 Volt, Power Point Style (Std. Location)

POWER OUTLET

Two (2) 12-volt power point style outlets shall be installed. (1) in the forward section of the primary action area, above the counter top and (1) in the upper section of the ALS cabinet.

Bidder Complies YES_____ NO_____

125 Volt AC Power, Three-Wire System, GFI Protected Outlets

125 VOLT AC POWER

There shall be 125 volt AC wiring furnished. A three-wire system is used for powering medical equipment, battery charger, etc. This electrical system, including wiring and associated equipment, shall comply with AMD STD 009, 120V AC Electrical Systems. The system shall incorporate a hospital grade GFI (Ground Fault Interrupt) device with a 20 amp circuit breaker that can also be used as a disconnect switch for the interior 125 volt outlets. The GFI device shall be located on the street side in the action area. When an inverter is specified, an automatic transfer switch shall be furnished which will automatically turn off the inverter 125 volt supply when the 125 volt utility shoreline power is applied.

Bidder Complies YES_____ NO_____

Shoreline, 20 Amp Kuss-maul Super Auto-Eject Driver Side Yellow

EXTERIOR SHORE POWER

There shall be a Kussmaul 125-volt "Auto-Eject" plug rated at 20 amps or more with a spring-loaded cover assembly, UL listed for exterior use, located on the left side of the ambulance body close to the driver's door. This shall energize the vehicle's 125 volt AC circuit from an exterior power source. This

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connector must be labeled: "125 volt AC, 60 Hz, 20 amp power supply".

Bidder Complies YES _____ NO _____

Outlets, (3) 125V, Interior

INTERIOR 110/125 VOLT AC OUTLETS

Three (3), three-wire duplex 125 Volt AC hospital grade receptacles shall be installed. One (1) shall be located in the primary action area; one (1) in the second action area and one (1) in the ALS cabinet upper section. Red indicator lights shall be located on each 125 Volt outlet to indicate a live "hot" circuit. Add-on style indicators are not acceptable. The outlets shall be labeled using high quality screen printing to avoid accidental removal.

Bidder Complies YES _____ NO _____

Outlet, (1) 125V Additional Interior, Location

ADDITIONAL 125VAC OUTLET

One (1) additional three-wire duplex 125-volt AC hospital grade receptacle shall also be provided and installed. The additional outlet location shall be determined upon award of bid. Red indicator lights shall be located on the 125-volt outlet to indicate a live "hot" circuit. The outlets shall be labeled using a high quality screen printing to avoid accidental removal.

Bidder Complies YES _____ NO _____

Electrical Equipment, RFI Filter/Suppression

ELECTRICAL EQUIPMENT

All electrical equipment shall be electromagnetic radiation suppressed, filtered, or shielded to prevent interference with radio and telemetry equipment. The RFI shall not exceed SAE J551 limits.

Bidder Complies YES _____ NO _____

Spotlight, Optronics Blue Eye Beam, Hard Wired

SPOTLIGHT

There shall be one (1) Optronics Blue Eye Beam Glare-Free hand-held spotlight, model KB-4003 located behind the driver's seat. The spotlight shall be rated at 400,000 CP and shall be connected to a 12-Volt power source. The spotlight shall be equipped with corrosion-resistant hardware; a weatherproof enclosed momentary switch and a durable ten (10) foot white coil cord. A hanger for the spotlight shall be shipped loose for installation by this department.

Bidder Complies YES _____ NO _____

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Siren with Dual Remote Amp, Electronic, Whelen 295HFSA7 **SIREN/AMPLIFIER**

A Whelen, model #295HFSA7 remote dual siren amplifier plus radio repeat and PA. The flush-mount siren control head shall include phaser, yelp, wail, hands free, manual, public address and radio. Also included are push-button for manual and horn and an on/off power switch. This siren shall meet CA Title 13 requirements.

Bidder Complies YES _____ NO _____

Switch, Siren/Air Horn/Horn, 3-Position, Front G2 V-mux Displ **SIREN SWITCHING**

A horn/air horn/horn 3 position switch shall be provided to activate siren, horn and air horn. This switch shall be located in the front switch panel.

Bidder Complies YES _____ NO _____

Speaker, Bumper Mounted, #SAP/SAD4314 **SPEAKER**

A Cast Products #SAP4314 speaker system shall be supplied. The Cast Products speakers shall be securely bolted through the chassis OEM front bumper.

Bidder Complies YES _____ NO _____

Air Horns - Buell Dual Emergency (2) 10", Through Bump **AIR HORNS**

Two (2) Buell trumpet air horns, shall be provided and installed through the front bumper. The air horns shall be powered by 12-volt compressor & air reservoir kit installed by the manufacturer. A check valve shall be installed between the air horns and the air reservoir to prevent depletion of air reservoir.

Price as a line item option only, do not include in the final proposal price.

Bidder Complies YES _____ NO _____

NOTE: Horn Ring, Switch, Siren/Horn/Air Horn 3 Position ILO

A horn right three-position switch shall be provided to activate the air horn(s). This switch shall also activate the vehicle horn and siren, when applicable.

One (1) three position switch shall activate the siren, OEM horn and air horn.

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Bidder Complies YES _____ NO _____

Siren, Electro Mechanical, Screaming Eagle, Thru Bumper Mnt SCREAMING EAGLE SIREN

A Screaming Eagle Electro-Mechanical Siren shall be installed in the front bumper of the chassis. This siren shall be controlled from a foot pedal on the driver's side of the cab in a location where it will not be accidentally activated upon stepping into the cab.

Bidder Complies YES _____ NO _____

Backup Alarm, EC520 with Auto Reset Switch BACKUP ALARM

An EC 520 backup alarm shall be installed on a 2" x 2" floor tube at the rear of the ambulance module body. This alarm shall activate whenever the chassis transmission is put into reverse gear. There shall be a momentary switch in the driver's switch console that will cancel the alarm. The system shall have an automatic reset to activate the alarm the next time the vehicle is placed into reverse. When activated, this alarm shall generate an intermittent warning tone at a minimum of 97 dB as prescribed by KKK-A-1822F.

Bidder Complies YES _____ NO _____

Back-Up Camera, VMUX - Voyager REAR OBSERVATION MONITORING SYSTEM

An ASA Electronics Voyager Rear Observation Monitoring System shall be installed. The system shall be incorporated into the Weldon V-MUX Multiplex electrical control system. A full color Weldon Vista III Interface/Module Display shall be installed in the driver's compartment area. One (1) VCCS130 heavy duty color camera with white housing shall be installed above the rear patient entry doors. The system shall be activated when vehicle is placed in reverse.

Bidder Complies YES _____ NO _____

VMUX Flasher, Integrated into Weldon VMUX system FLASHER

The flasher shall be integrated with the Weldon VMUX electrical system. A separate flasher is not required as this is programmed into the electrical system.

This flasher shall be programmed to flash according to the current Federal Ambulance Specifications or a flash pattern determined by this department.

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Bidder Complies YES _____ NO _____

Ext Lts, DOT Clrnce/Tail/Stop/Backup/Turn W/Side Turn M **EXTERIOR LIGHTING**

Exterior lighting shall conform to FMVSS 108 and consist of OEM chassis halogen headlights, ICC clearance lights, parking lights, hazard warning lights, license plate lights, tail, stop, and backup lights. Tail and stoplights shall have red, clear, and amber lenses. Electrical wires for the taillights shall be sealed to protect them from the elements of weather using Deutch connectors. Two (2) side body rear lights with red lenses shall flash with turn signals and steady burn with the DOT lights. Included with the bid, evidence from the lighting manufacturer shall be provided specifying warning lights meet the photometric and chromaticity requirements of the current version of KKK-A-1822 as certified by a third party testing entity.

Bidder Complies YES _____ NO _____

Clearance Lights, (14) Whelen OS LED W/ Chrome Bezel **DOT MARKER/CLEARANCE LIGHTS**

Fourteen (14) Whelen OS Series LED Marker/Clearance lights shall be provided and installed on the upper ambulance module body. Each light shall be LED type with a protective chrome plated flange. There shall be seven (7) amber LEDs with clear lenses installed - five (5) across the front module body extrusion and one (1) on each rear side body upper extrusion. There shall be seven (7) red LEDs with clear lenses installed - five (5) across the front module body extrusion and one (1) on each front side body upper extrusion. Each shall be installed on the side upper body corner extrusion area.

Bidder Complies YES _____ NO _____

Headlight Flasher, Weldon VMUX **HEADLIGHT FLASHER**

A headlight flashing system shall be included with the Weldon VMUX system.

Bidder Complies YES _____ NO _____

B/T/T Arrow - Whelen 600 LED, Backup Halogen **BRAKE/TAIL/TURN & BACK-UP LIGHTS**

The brake/tail/turn & back-up lights assembly shall consist of two (2) Whelen 600 Series red LED brake/tail lights; (2) Whelen 600 Series amber LED turn signal lights with arrow shape lenses; and two (2) 600 Series Halogen back-up lights with clear lenses. Each light shall have an integral Whelen chrome plated flange. All LEDs and electrical wires for the tail lights and turn indicators shall be sealed and/or

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encapsulated to protect them from external elements. The brake/tail and back-up lights shall be mounted in the rear kick plate area. The turn signal lights shall be mounted on the rear module body.

Bidder Complies YES _____ NO _____

Grille Lights, (2) Whelen LIN6, Red LED/Red Lens, Standard FRONT WARNING LIGHTS

Two (2) Whelen LED grille lights style LIN6 with red LED and lens shall be provided.

Flange, Grille Lights Whelen, LIN6FC Chrome Plated Flange

Bidder Complies YES _____ NO _____

Additional Grille Lights, (2) Whelen TIR6, Red Lens

Two (2) additional Whelen LED Grille Lights, style LIN6 with red LED's and lens shall be provided.

Bidder Complies YES _____ NO _____

Intersection Lights, (2) Whelen 700 Super LED, (STD)

Two (2) Whelen 700 Series RED Super LED intersection lights and a red lens shall be installed.

Flange(s), Intersection Lights, Whelen 700 Series LED/Halogen

Bidder Complies YES _____ NO _____

LIGHTBAR

This vehicle shall have a custom forward facing light configuration. A front light bar shall not be installed.

Front Body Lights, (6) 900 Series Super LED (1) 700 LED

FRONT BODY LIGHTS

Six (6) Whelen 900 series and One (1) White 700 series Super LED lights with chrome bezels shall be installed on the front of the module. There shall be four red LED and three (3) clear LED lights (placed in this sequence: R/W/R/W/R/W/R).

Note: The center white light is to be a Whelen 700 series light to accommodate the center recessed mounting of the customer provided Opti-com light.

Bidder Complies YES _____ NO _____

Flange(s), Front Body Lights

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FRONT BODY LIGHT FLANGES

These lights shall have integral flanges provided by the light manufacturer and installed on the completed unit.

Bidder Complies YES _____ NO _____

Side Body Lts, 4 Whelen 900 Red Super-LED/Lens, (STD)

SIDE BODY WARNING LIGHTS

Four (4) Whelen 900 Series red Super-LED steady-burn lights with red lenses and (4) four 90FLANGC chrome flanges shall be installed. One (1) light and one (1) flange shall be surface mounted on each street side and curbside upper module body corner. A separate Whelen remote LED flasher shall be required for flashing requirements.

Bidder Complies YES _____ NO _____

Flange(s), Whelen 900 Series Super-LED EA.

SIDE BODY LIGHT FLANGES

These lights shall have integral flanges provided by the light manufacturer and installed on the completed unit.

Bidder Complies YES _____ NO _____

Side Body Turn Lts., Whelen 700 LED

SIDE BODY BRAKE/TAIL LIGHTS

Two (2) Whelen 700 Series red Minimum LED Brake/Tail lights with red lenses shall be installed on each side body at the rear. The lights shall have a steady-burn function in conjunction with the DOT lights and shall flash in conjunction with the turn signal lights.

Bidder Complies YES _____ NO _____

Flange, Whelen 700 Series EA.

SIDE TURN LIGHT FLANGES

These lights shall have integral flanges provided by the light manufacturer and installed on the completed unit.

Bidder Complies YES _____ NO _____

Wheel Well Lts, (2) Whelen 700 Super LED, Red Lenses

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Two (2) Whelen 700 Series Super LED lights, each with a red lens shall be provided and mounted one (1) directly above each rear wheel well.

Bidder Complies YES _____ NO _____

Flange(s), Wheel Well, Whelen 700 Series EA.

WHEEL WELL LIGHT FLANGES

These lights shall have integral flanges provided by the light manufacturer and installed on the completed unit.

Bidder Complies YES _____ NO _____

Scene Lts, (4) Whelen 900 LED 8-32 degree

CLEAR LED SCENE LIGHTS

There shall be two (2) Whelen LED 900 Series 8-32 degree scene light installed on each side of the body. Each scene light shall have a clear lens with directional LEDs to downward cast illumination. Each side shall be independently lighted and switched separately in the driver's switch console. The lights shall be a minimum of 75" above the ground and not obstructed by open doors.

The scene lights shall meet the current AMD Standard 024- Scene Light Performance.

Bidder Complies YES _____ NO _____

Flange(s), Scene Lts., Whelen 900 Series Super-LED EA.

SCENE LIGHT FLANGES

These lights shall have integral flanges provided by the light manufacturer and installed on the completed unit.

Bidder Complies YES _____ NO _____

Scene light Activation - Standard

The two (2) curbside scene lights shall be activated when the module body side entry door is opened. The street side and curbside rearmost scene lights shall be activated when the vehicle transmission is placed in reverse.

Bidder Complies YES _____ NO _____

Rear Body Lts., Whelen 900 Super-LED Lenses R/A/R LED/Lens

REAR BODY WARNING LIGHTS

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Three (3) Whelen 900 Series Super-LED steady-burn lights with colored lenses and (3) three chrome flanges, model 90FLANGC, shall be installed. Two (2) shall be red Super-LEDs with red lenses, model 90RR5SRR, surface mounted on the upper rear module body corners. One (1) shall be an amber Super-LED with an amber lens, model 90AA5SAA, surface mounted on the upper rear module body center. A separate Whelen remote LED flasher shall be required for flashing requirements.

Bidder Complies YES _____ NO _____

Flange(s),Rear Body Lts., Whelen 900 Series LED **REAR BODY LIGHT FLANGES**

These lights shall have integral flanges provided by the light manufacturer and installed on the completed unit.

Bidder Complies YES _____ NO _____

Load Lts., Whelen 900 Halogen Opti-Scene 8-32 Degree, Flange **LOAD LIGHTS**

Two (2) Whelen 900 Series 8-32 Degree Gradient Opti-Scene light scene lights, Model 90E000ZR, with chrome flanges shall be surface mounted on the rear module body above the rear patient entry doors. Each light shall have a 50 watt snap-in Halogen lamp and shall direct light from eight (8) to thirty-two (32) degrees off the mounting surface. The scene lights shall be activated when one of the rear patient entry doors are opened. One (1) on/off switch shall be located on the front switch panel to control both scene lights concurrently when the rear entry doors are closed.

These scene lights shall meet the current AMD Standard 024- Scene Light Performance.

Bidder Complies YES _____ NO _____

Flange(s), Rear Load Lts., Whelen 900 Series **REAR LOAD LIGHT FLANGES**

These lights shall have integral flanges provided by the light manufacturer and installed on the completed unit.

Bidder Complies YES _____ NO _____

Rr Bdy Lgts,(2) Mid-Hght, Whelen 900 Super Red LED/lens

Two (2) Whelen 900 Series Super LED rear body lights, each with an integral 9E flange shall be installed in the mid-height position, one (1) each side of the rear body. The lens colors shall be red.

Bidder Complies YES _____ NO _____

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Flange(s), Addtl. Rear Body Lts, Whelen 900 Series LED

ADDITIONAL REAR BODY LIGHT FLANGES

These lights shall have integral flanges provided by the light manufacturer and installed on the completed unit.

Bidder Complies YES _____ NO _____

Warning Light Flash Requirements, "F-Spec" Flash Pattern

WARNING LIGHT FLASH REQUIREMENTS

Within the flash pattern established for each light or light group by KKK-A-1822F, each emergency light shall flash on/off 75 to 125 times per minute. Each light shall have a minimum of 20 square inches of illuminated viewing area. The flash pattern for the warning lights on this vehicle shall be as described in KKK-A-1822F, Section 3.8.2.1, Table 1. Compliance with this specification shall not be compromised in order to maintain a high level of conspicuity for 360-degrees around the vehicle.

Bidder Complies YES _____ NO _____

Recessed Pocket for Opticom Installation

Recessed Pocket for 3M Opticom Installation

A recessed pocket shall be provided to install a customer provided opticom system on the front of the ambulance module. The recessed pocket shall be directly below the center 700 Series Clear LED light on the front of the module. The recessed pocket shall be welded into the body to ensure longevity of the recessed area. The area shall be painted "Job Color".

Bidder Complies YES _____ NO _____

Opticom, Install Customer Supplied

OPTI-COM SYSTEM

A customer supplied Opti-Com system shall be installed. Opticom only works when vehicle is placed in gear. The parking brake shall turn off the Opticom emitter when applied.

Bidder Complies YES _____ NO _____

Park Override with Reset Cancel Switch, In Front Console

PARK OVERRIDE WITH AUTOMATIC RESET CANCEL SWITCH

The following lights listed below shall be deactivated when the vehicle is placed in Park:

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All forward facing white lights shall function with this option.

These lights shall be reactivated when the vehicle is put back into Drive or when a switch on the front switch panel is engaged to cancel this operation.

Bidder Complies YES _____ NO _____

Wire (2) Lights to Brakes, Brakes Override Flashers

Two [2] Lights to be wired to brakes. The brakes shall override the flashers. The department shall specify the lights upon award of bid.

Bidder Complies YES _____ NO _____

Compt/Entry DOOR LINER Lts, Whelen 4" Round LED w/flg DOOR PANEL LIGHT

(1) Whelen 4" LED light shall be provided on the door panel of each specified compartment and entry door. The light shall have a chrome flange and shall activate with the opening of each individual door. The department shall specify the quantity, location and color of lights (Amber).

Bidder Complies YES _____ NO _____

Visual Warning Device Compliance VISUAL WARNING DEVICE REQUIREMENTS

Due to the specific requirements for visual lighting required by this department, and the availability of these lights to all manufacturers, **NO EXCEPTIONS** will be allowed to these requirements stated above.

Bidder Complies YES _____ NO _____

Body Design & Construction, Alum, 168" L x 96" W CONSTRUCTION CHARACTERISTICS

To produce a high quality body structure, which meets or exceeds all mandated standards and to support the Lifetime, Transferable Structural Warranty to be offered by the vehicle manufacturer, the following construction characteristics and materials must be present in the vehicle offered for purchase.

All body panels, structures, and extrusions shall be fabricated of aluminum using alloys, which consistently meet or exceed the load requirements of the vehicle. Unitized body construction will be accomplished by MIG welding all sheets, radius extrusions, corners, structural members, etc. together. All body surface aluminum side panels and roof panels shall be intermittently MIG welded to body frame support members in such a manner as to provide maximum strength and durability without causing heat warp. All exterior metal-to-metal body seams or the area of attachment of one aluminum

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panel to another shall be MIG welded. All such welds shall be ground smooth and filled for proper paint adhesion and appearance. The body structure shall be built and warranted by the ambulance manufacturer. This body must meet or exceed AMD Standard 001, Static Load Test for Ambulance Body Structure. NO EXCEPTIONS ALLOWED.

Bidder Complies YES _____ NO _____

CERTIFIED WELDING PERSONNEL

To assure that the specified vehicle meets the letter, as well as the intent of this Specification, welding of body structures, chassis attachment points, doors, any aluminum or stainless steel components or attachments shall be performed by or directly supervised by personnel Certified by the American Standard Welding Association (ASWA). Those individuals shall have proof of current certification and shall make such proof available to the department upon reasonable demand. NO EXCEPTIONS ALLOWED.

Bidder Complies YES _____ NO _____

WELDING TECHNIQUES, MATERIALS AND EQUIPMENT

To meet this Specification welding operations shall be performed with certain specific techniques, materials and equipment. All welds shall be laid in the vertical-up direction to achieve as close as possible to one hundred (100%) percent penetration of joined materials. Welds laid in the vertical-down direction cannot achieve the required level of penetration. To assist in the dissipation of heat from a weld site joining two flat panels, a heat fence paste shall be applied according to the stated requirements of the manufacturer of the substance. The purpose of the heat fence is to efficiently disperse the heat created by the welding process and limit the amount of deformity produced in the joined materials. All Metal Inert Gas (MIG) welding operations shall employ welding machines commonly known as "pulse" welders. Inherent in the operation of this type welding machine is that the heat generated by welding is significantly reduced. Consequently, deformity in the materials being joined is diminished. Welding wire utilized for MIG welding operations shall be #5356 wire. NO EXCEPTIONS ALLOWED.

Tungsten Inert Gas (TIG) welding with #4043 rod shall be employed to perform finish welding operations on any weld that is visible or unpainted; i.e. aluminum diamond plate door sills, bumper pods, etc. NO EXCEPTIONS ALLOWED.

Bidder Complies YES _____ NO _____

CORNER EXTRUSIONS

To ensure the load bearing capabilities and structural durability of the ambulance body in the event of an accident or impact, specifically designed, extruded aluminum corner posts must be used. The

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extrusion shall include a central web and two (2) lateral webs to achieve the strength required for this application. The extrusion shall be formed of 6061T6 aluminum with a minimum tensile strength of 29,000 psi and have a radius of 2.5". The central web component shall be .1875" thick and shall be flanked by two lateral webs of .130" thickness. The lateral webs shall thicken near the radius of the extrusion and be slotted to receive the edges of the .125" aluminum sheets forming the sides of the ambulance body. The outer surfaces of the lateral webs shall be smooth and provide an interface surface for the 2" x 2" x .125" wall extruded aluminum tubes to jointly form each of the four corners of the ambulance body. NO EXCEPTIONS ALLOWED.

Bidder Complies YES _____ NO _____

ROOF

The roof shall be constructed of one-piece .090" smooth aluminum. This aluminum shall be a highly corrosion resistant 5052H32 alloy with 2.5% magnesium content and a tensile strength range of 28,000 to 33,000 psi. The roof structure shall consist of "Z" sections epoxy bonded to the roof for support. The "Z" sections shall be a series of six (6) separate pieces running full length, front to back, bridging the roof bow frame work. They shall be equally spaced, inboard to outboard, stair stepped sizes of .750" x 1.50" x .750" inboard, .750" x 1.25" x .750" center, and .750" x 1.0" x .750" outboard to form a crowned roof facilitating water runoff and preventing ice buildup. Flat roofs shall be considered unacceptable. Additionally there shall be thirteen (13) .125" x 2" x 2" cross members welded to the "Z" sections 12" on center and be made of a highly corrosion resistant 6061T6 alloy with 1% magnesium and .6% silicone content and a tensile strength range of 31,000 to 35,000 psi. A smooth aluminum plate of .090" thickness shall be welded to the roof support tubes to securely mount lighting fixtures, assist rails, hanging stretcher mounts, and IV holders. This plate shall have cutouts to accommodate the required lighting fixtures and other recessed components. The cutouts shall be made utilizing a CNC plasma or laser tool in one, continuous cutting operation. Corner gussets shall be MIG welded to the roof radius extrusions to enhance roof load bearing characteristics. Horizontal roof extrusions shall be a minimum of .125" thickness and 2-1/2" radius. There shall be an integral drip rail formed into the extrusion. The horizontal extrusions shall utilize an interlocking method to secure the roof sheet into the envelope of the extrusion. The horizontal extrusions shall be of an open-face design for insertion of 2" x 2" x .125" tube structural members. Corner caps shall be .125" cast aluminum and welded in place.

Bidder Complies YES _____ NO _____

SIDES

Street side: The side shall be constructed of .125" aluminum sheets with a highly corrosion resistant 5052H32 alloy with 2.5% magnesium and a tensile strength range of 28,000 to 33,000 psi. The body shall have straight sides with a minimum of welding deformity. Exterior compartment doorjambs shall be formed integrally into the sidewall .125" aluminum sheets. Extruded doorframes are not acceptable. This sidewall shall have twelve (12) vertical 2" x 2" x .125" wall tubes 12" on center and joined to the roof cross members within the horizontal roof extrusion. The tubes shall be a highly corrosion resistant

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6061T6 alloy with 1.0% magnesium and .6% silicone and a tensile strength range of 31,000 to 35,000 psi. All box 2" x 2" roof and side support bows are .125" aluminum. Vertical corner extrusions shall be .125" thickness and have a 2.5" radius. The radius ends shall be tapered. The vertical extrusions shall be slotted for insertion of the sidewall sheets. The vertical extrusions shall be of a web construction design for internal structural support.

Curbside: The side shall be constructed of .125" aluminum sheets with a highly corrosion resistant 5052H32 alloy with 2.5% magnesium and a tensile strength range of 28,000 to 33,000 psi. The body shall have straight sides with a minimum of welding deformity. Exterior compartment doorjambs and curbside entry doorjambs shall be formed integrally into the sidewall .125" aluminum sheets. Extruded doorframes are not acceptable. To accommodate the numerous full or high profile openings in this sidewall its structure shall be composed of a combination of 2" x 2" x .125" wall tubing and 1" x 2" x .125" wall tubing and be joined to the roof cross members within the horizontal roof extrusion.

The completed roof, floor, sidewall and ceiling structures shall be treated with a vapor and sound-deadening barrier of Dolphin Hydro Armor with high latex content. The material shall be white in color.

Bidder Complies YES _____ NO _____

FLOOR

The body floor shall have a tubular frame structure with main members constructed of .125" x 2" x 3" and .125" x 1" x 2" 6061T6 aluminum tubes, all fully welded. This framework is mounted utilizing rubber gaskets to prevent contact of dissimilar metals. The tubular framing shall be on average of 12" on center. A 6061T6 aluminum bar stock .750" x 6.0" sill plate shall be bolted on top of the cushion rubber mounts. This is required to add additional strength, ease in mounting, and greater ease in remounting the body at a later date. There shall be .250" aluminum mounting plates welded into the floor structure to provide additional mounting support for the cot mounts and technician's seat. The floor frame is then covered the entire length of the interior floor with a .090" 5053H32 aluminum moisture barrier to act as a heat shield and vapor barrier. This sub floor is sealed to the floor tubes and is screwed through when the plywood sub floor is installed.

This floor shall exceed the requirements set forth in AMD Standard 020 Floor Distributed Load Test for a bariatric cot (800 lbs.) Flooring structures not meeting this requirement will not be accepted by this department. **NO EXCEPTIONS**

Bidder Complies YES _____ NO _____

DRIVE SHAFT GUARD

A .50" formed steel rod drive shaft loop or guard shall be installed just behind front U joint. This is designed to prevent the drive shaft from creating a dangerous situation such as hitting the ground or whipping in the event of a universal joint failure. The drive shaft loop shall be welded to non-critical

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chassis frame components. **NO EXCEPTIONS SHALL BE TAKEN TO THIS REQUIREMENT.**

Bidder Complies YES _____ NO _____

Side Impact Beam

SIDE IMPACT PROTECTION REQUIREMENT

A continuous 8" x 2" side impact beam shall be welded to side body and sidewall extrusions to each side of the unit where the squad bench and CPR seats are located. This side impact beam shall allow for secure and customizable mounting points for the squad bench and CPR seat seatbelts. The side impact beam shall also provide additional structure and rigidity in these seating locations in the event of an accident. This side impact beam shall be constructed of minimum 8" x 2" x .250" thick 6005-T6 aluminum. Seat belt backer plates welded or adhered in between the extrusions is unacceptable to this agency as this does not displace the energy of a side impact as effectively as a continuous side impact rail. **NO EXCEPTIONS.** Bidders must include a detailed description of their method of side impact protection for this department to adequately compare.

Bidder Complies YES _____ NO _____

CONSTRUCTION COMPLIANCE

CONSTRUCTION COMPLIANCE

Safety and strength of construction is a primary concern for this department. The delivered ambulance must meet the construction specifications detailed above. Failure to meet this construction method will be cause for rejection.

Bidder Complies YES _____ NO _____

Compartment & Entry Doors with Door Liner

COMPARTMENT & ENTRY DOOR CONSTRUCTION

All exterior compartment and entry doors shall be constructed of a single piece of .125" 5052H32 sheet aluminum. The use of extrusions for doorjambs or doorjambs is not allowed. The door profile shall be a double pan form of 2.75" total thickness. Each compartment door shall have the seal installed on the outer door pan flange to assure maximum sealing surface and to protect the rotary latching mechanism from environmental influences. Access for maintenance to the latching mechanism shall be through 2.0" mounting holes located in the upper and lower outboard edges of the inner door pan panel. A rubber grommet cap shall cover these access holes. The inner door pan flange shall be formed to provide a recess in which the inner door liner panel is seated. Inner door liner panels shall be affixed to the flange with stainless steel, serrated spring washers and TX -25 Type F Torx-head machine screws. Each door shall be insulated with not less than 1.5" of spray foam in the space available for each door. The insulation must be configured to prevent contact with or the fouling of the coated steel latch connecting rods. The interior door pan of each exterior door shall be stamped with a unique alphanumeric code

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denoting the specific size of that door. This code shall assure the quick and exact replacement of a damaged door.

Bidder Complies YES _____ NO _____

Compartment Door, Inner Liner, ADP (Std.)

COMPARTMENT DOOR LINER

The compartment doors inner liner shall be constructed of .063 aluminum diamond plate.

Bidder Complies YES _____ NO _____

Exterior Compt. Depth, 18.75" (P5 20.75")

EXTERIOR COMPARTMENT DEPTH

All exterior compartments shall have a clear depth of approximately 18.75", except the backboard and front oxygen compartment which shall have an approximate depth of 20.75".

Bidder Complies YES _____ NO _____

!

Install Module interior Protective Coating, Dolphin Coat

MODULE INTERIOR COATING UPGRADE

Prior to installation of the insulation the entire interior body interior surface will be sprayed with a heavy protective coating of sprayed in Dolphin Hydro Armor latex rubber to provide an additional vapor barrier and corrosion protection.

Bidder Complies YES _____ NO _____

Insulation, Spray Foam All

INSULATION - SPRAY FOAM - WALLS/ CEILING/ FLOOR/SIDES/ STEPWELL

The module shall have an expandable polyurethane spray foam type in the walls, ceiling, floor, sides and bottom of the step well of the patient compartment to provide maximum protection from changes in outside temperature. The insulation shall be fire retardant, non-settling, non-hydroscopic, and mildew and vermin proof. There shall be a generous amount of undercoating applied throughout the undercarriage of the body and chassis. Undercoating must be applied according to chassis manufacturer guidelines.

Bidder Complies YES _____ NO _____

Heat Shield, 18 Gauge Galvanized Steel

HEAT SHIELD

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To further insulate and protect the patient compartment the ambulance manufacturer shall install 18 gage galvanized steel below the subfloor material to act as a heat shield. An 18 gauge galvanized steel sheet, with waterproof insulation laminated to it, shall be installed directly to the bottom of the floor tubes. This will create a sandwich style construction to further insulate the patient floor in the area of the muffler and exhaust system.

Bidder Complies YES _____ NO _____

Vapor Barrier, Smooth Aluminum

VAPOR BARRIER

To further insulate and protect the patient compartment the ambulance manufacturer shall install an aluminum vapor barrier. A .090 aluminum sheet shall be installed directly between the flooring and the 2" x 2" floor tubes. This will create a sandwich style construction to further insulate the patient floor in the area of the muffler and exhaust system.

Bidder Complies YES _____ NO _____

Fender Insulator, Flash Patch Liner, Rear Wheel wells

FENDER INSULATOR

An additional sound deadening insulator shall be provided and installed on top of the wheel well liner. This layered rubber and aluminum material shall diminish the effects of noise created by road debris and provide additional thermal insulation for the patient compartment .

Bidder Complies YES _____ NO _____

Floor Insulator, Flash Patch

FLOOR INSULATOR

An additional sound deadening and thermal insulator shall be provided and installed between the 3/4" plywood floor and the .063" aluminum vapor barrier. It shall be a flash patch liner and shall provide extra sound deadening from road noise.

Bidder Complies YES _____ NO _____

Cab Connection, Pass-Thru, .090 Smooth Aluminum

CAB CONNECTION - PASS THROUGH

The chassis cab shall be connected to the module through the use of an expanding closed cell EPDM rubber bellows covering the cab sliding window and the module sliding access window, which shall be approximately 14" high x 14" wide and shall have be trimmed in aluminum. The bellows shall be 2.75"

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wide in compressed state and capable of stretching to 4.250" without compromising its structural integrity. The bellows shall be held in place with integral 1050 cold rolled spring steel flexible cores on each edge. The water absorption rate of the material shall be less than 1% and have an operating temperature range of -40 degrees to +158 degrees F.

Bidder Complies YES _____ NO _____

Body Mounting, Iso-mount Technique, 6" x 3/4" Alum, 10-Bolt MOUNTING

The iso-mount technique shall be used to mount the ambulance body to the chassis frame. Mounting hardware shall consist of .750" x 6" 6061T6 aluminum bar stock body sill plates, ten (10) 7/16"-14 UNC threaded Grade 8 bolts, paired rubber isolators with steel cap and collared mounting nut for each mounting point. The bolts and rubber isolators are identical to the type used to mount the vehicle cab and are provided by the chassis manufacturer. Mounting holes in the top flange of chassis frame shall be those provided by the chassis manufacturer. The .750" x 6" aluminum bar stock mounting plates shall be bolted through the upper mounting isolator above the upper frame flange with the OEM Grade 8 bolt. The bolt passes through and secures the second isolator below the flange with the collared nut. The body shall be lowered onto the sill plates and the body sub floor cross members shall be welded to the aluminum bar stock mounting plates. This combination of components provides the body a cushioned ride on top of the frame and allows the body and frame to flex independently diminishing frame stress. This body-mounting configuration shall not prevent the vehicle from complying with the floor loading height requirement of KKK-A-1822F for the specified type of emergency medical vehicle.

Bidder Complies YES _____ NO _____

COMPARTMENT DIMENSIONS **COMPARTMENT DIMENSIONS**

The following section represents the exterior compartment dimensions and accessories. The dimensions and accessories for these compartments were designed for the specific needs of this department. Bidder compliance to this section is located at the end of the section. Exceptions may be taken in this section as not every manufacturer can meet each compartment to the exact inch. This department will require the dimensions of each compartment they are specifying if any exceptions are taken. If no exception is taken for the entirety of this section, it shall be expected by this department that the compartments will be as specified in this document.

Bidder Complies YES _____ NO _____

D1, Exterior Compartment, 23" W x 84" H **LEFT SIDE COMPARTMENTATION**

FORWARD OF REAR WHEEL WELL - D1 AND D2

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A full height compartment shall be provided in the forward position ahead of the wheel well. It shall have approximate exterior dimensions of:

23" wide x 84" high

Bidder Complies YES_____ NO_____

D1 Door, Solid, Vertically Hinged

The D1 compartment shall have a solid, flush mounted, vertically hinged door, constructed of aluminum.

Bidder Complies YES_____ NO_____

D2, Exterior Compartment, 46" W x 33" H

A low compartment (D2) shall be provided in the rearward position ahead of the wheel well. It shall have approximate exterior dimensions of:

46" wide x 33" high.

Bidder Complies YES_____ NO_____

D2, Doors, Double, Solid, Vertically Hinged

The D2 compartment shall have double solid, flush mounted, vertically hinged doors. Each door shall be constructed of aluminum.

Bidder Complies YES_____ NO_____

D4, Exterior Compartment, 35" W x 69" H (Inside/Outside)

REAR OF WHEEL WELL - D4

A compartment shall be provided in the area rearward of the rear wheel well. It shall have inside/outside access and shall have approximate dimensions as follows:

35" wide x 69" high

There shall be a 7" wide x 27" high inset into the compartment that will provide more space for the interior 2nd action area.

Bidder Complies YES_____ NO_____

D4, Doors, Double Solid, Vertically Hinged

The D4 compartment shall have double solid, flush mounted, vertically hinged doors. Each door shall be constructed of aluminum.

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Bidder Complies YES _____ NO _____

P1, Exterior Compartment, 23" W x 69" H, ALS RIGHT SIDE COMPARTMENTATION

FORWARD OF REAR WHEEL WELL - P1 AND P2

An intermediate compartment shall be provided in the upper, forward position ahead of the entry/egress door that allows easy access to the interior ALS cabinet. It shall have approximate exterior dimensions of:

23" wide x 53" high

Bidder Complies YES _____ NO _____

P1, Door, Solid, Vertically Hinged

The P1 compartment shall have a solid, flush mounted, vertically hinged door, constructed of aluminum.

Bidder Complies YES _____ NO _____

Side Entry Door, 32" W x 74" H SIDE ENTRY DOOR

All patient entry doors shall be constructed of a single piece of .125" 5052H32 sheet aluminum. The use of extrusions for doorjambs or doorjambs is not allowed. The door profile shall be a double pan form of 2.75" total thickness. Each door shall have the seal installed on the outer door pan flange to assure maximum sealing surface and to protect the rotary latching mechanism from environmental influences. The inner door pan flange shall be formed to provide a recess in which the inner door liner panel is seated. Inner door liner panels shall be affixed to the flange with stainless steel, serrated spring washers and TX -25 Type F Torx-head machine screws. Each door shall be insulated with not less than 2.0" of spray foam. The insulation must be configured to prevent contact with or the fouling of the coated steel latch connecting rods. NO EXCEPTIONS WILL BE ALLOWED.

The door shall have an FMVSS 206 tested Tri-Mark two-point rotary latch with a Tri-Mark locking handle. The adjustable .50" Nader pins with head flange mounted on the vertical doorjamb shall be fitted with zinc-coated safety clips to diminish the possibility for clothing being snagged during entry or exit. The door shall also be equipped with a spring assisted bidirectional cam-over door check. The door shall provide an opening of at least 32" wide and 74" high. When opened, the door shall activate the interior dome lights. The interior door pan of each exterior door shall be stamped with a unique alphanumeric code denoting the specific size of that door. This code shall assure the quick and exact replacement of a damaged door.

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Bidder Complies YES _____ NO _____

Dual Fire Grade ADP Step **DUAL SIDE ENTRY DOOR STEP**

A dual step constructed of Fire Grade aluminum diamond plate shall be installed. A two step well is preferred in this application for ease of entry into the patient compartment. Interior entry door step wells using just one step are not desired by this department and will not be considered.

Bidder Complies YES _____ NO _____

Door Panel, Side Entry, Three-Piece, Formica, SS, Chevron **DOOR TRIM**

The door shall have a .090" aluminum panel covered the upper and lower door and full width door panel with .028" Formica, with color to match interior and shall be impervious to moisture, easily cleaned, durable, and attractive. The middle portion shall be stainless steel and removable for ease of maintenance. The lower portion shall be .090 aluminum and shall have chevron style safety decals installed prior to delivery.

Bidder Complies YES _____ NO _____

Step well Light, Whelen 4" Round LED with Chrome Flange **STEPWELL LIGHT**

(1) Whelen 4" LED light shall be provided for the curb side step well. The light shall have a chrome flange and shall activate with the opening of the side entry door.

Bidder Complies YES _____ NO _____

(3) Glove Storage, Above Side Entry Door **GLOVEBOX**

Three (3) glove storage areas shall be provided directly above the side entry/egress door. It shall have approximate dimensions of 33" wide x 6" high and shall have three (3) flip-up Plexiglas doors with non-locking catches for easy access.

Bidder Complies YES _____ NO _____

Assist Handle, Side Entry, 1.25" O.D. X 45 Deg Brushed **SIDE ENTRY DOOR ASSIST RAIL**

The side entry/egress entrance door shall have a 1.25" outside diameter, 45-degree ergonomic style

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assist handle.

Bidder Complies YES _____ NO _____

P5, Exterior Compartment, 22" W x 84" H

A full height compartment (P5) shall be provided in the rearward area behind the rear wheel well. It shall have the approximate dimensions as follows:

22" wide x 84" high

Bidder Complies YES _____ NO _____

P5, Door, Solid, Vertically Hinged

The P5 compartment shall have a solid, flush mounted, vertically hinged door, constructed of aluminum.

Bidder Complies YES _____ NO _____

Rear Entry Doors, 50" W x 63" H, Dual Handles

REAR PATIENT ENTRY DOORS

All patient entry doors shall be constructed of a single piece of .125" 5052H32 sheet aluminum. The use of extrusions for doorjamb or doorjamb is not allowed. The door profile shall be a double pan form of 2.75" total thickness. Each door shall have the seal installed on the outer door pan flange to assure maximum sealing surface and to protect the rotary latching mechanism from environmental influences. Access for maintenance to the latching mechanism shall be through 2.0" mounting holes located in the upper and lower outboard edges of the inner door pan panel. A rubber grommeted cap shall cover these access holes. The inner door pan flange shall be formed to provide a recess in which the inner door liner panel is seated. Inner door liner panels shall be affixed to the flange with stainless steel, serrated spring washers and TX -25 Type F Torx-head machine screws. Each door shall be insulated with not less than 2.0" of spray foam. The insulation must be configured to prevent contact with or the fouling of the coated steel latch connecting rods. The interior door pan of each exterior door shall be stamped with a unique alphanumeric code denoting the specific size of that door. This code shall assure the quick and exact replacement of a damaged door. In addition, "C" channel bracing shall be added internally for additional door structural integrity.

Both rear patient entrance doors shall have an FMVSS 206 tested Tri-Mark locking handles keyed alike to the side entrance door and a Tri-Mark non-locking handle. Each rear door shall have a two-point rotary latch with adjustable .50" Nader pins with head flanges at the top and bottom with release handles on the interior faces of the doors. When opened, the rear doors shall provide an opening of at least 63" high and 50" wide. Each rear door shall be equipped with a Cast Products "grabber" style door check, which shall be located at the bottom of the door. When opened, the rear doors shall activate the interior dome lights and the rear exterior load lights. NO EXCEPTIONS ALLOWED.

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Bidder Complies YES _____ NO _____

Door Panel, Rear Entry, Three-Piece, Formica, SS, Chevron DOOR TRIM

The door shall have a .090" aluminum panel covered the upper and lower door and full width door panel with .028" Formica, with color to match interior and shall be impervious to moisture, easily cleaned, durable, and attractive. The middle portion shall be stainless steel and removable for ease of maintenance. The lower portion shall be .090 aluminum and shall have chevron style safety decals installed prior to delivery.

Bidder Complies YES _____ NO _____

Assist Handle, Rear Entry, 1.25" x 45 Degree Brushed REAR ENTRY DOOR ASSIST RAILS

Each rear patient entrance door shall have a 1.25" outside diameter smooth brushed stainless steel 45-degree ergonomic style assist handle.

Bidder Complies YES _____ NO _____

Recessed Camera Housing for Back up Camera System Recessed Camera Housing, Rear of Body

A recessed pocket shall be provided on the rear of the body, below the center Amber LED warning light and centered above the rear entry doors. The recessed pocket shall be painted "job color" and be large enough to mount a back up camera. Camera shall be adjustable in its height within the recessed pocket.

Bidder Complies YES _____ NO _____

Clock - Atomic Digital, Above Rear Entry Doors REAR BODY CLOCK

One (1) Model 4625G Digital Atomic Clock shall be provided directly above the rear patient rear entrance doors.

Bidder Complies YES _____ NO _____

Sliding Window, Side Entry Door, OEM Light Tinted Glass SLIDING WINDOW

The entry/egress door shall be provided with a Clear Vision Brand 20" wide x 19" high horizontally sliding window. It shall have a black anodized aluminum frame, tempered, automotive, tinted safety glass and shall have a locking mechanism to keep the window panels in the desired position. A screen

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shall be provided, to prevent airborne particles from entering the vehicle, and allow for additional fresh air ventilation when the window panels are in the open position. Window shall be mounted in the window cutout with a continuous, .312" x .50" adhesive backed, ribbed rubber gasket. Compression with the inner frame component shall provide a leak-free seal. Windows shall comply with FMVSS 205, Glazing Materials.

Bidder Complies YES_____ NO_____

Fixed Window, Rear Entry Door, OEM Light Tinted Glass

FIXED WINDOWS

The rear patient entry doors shall each be provided with two (2) Cleer Vision Brand 20" wide x 19" high fixed window panels to allow viewing from the patient compartment. The windows shall be fixed style to avoid intake of exhaust fumes. Each window shall have a black anodized aluminum frame, tempered, automotive tinted safety glass. Windows shall be mounted in the window cutout with a continuous, .312" x .50" adhesive backed, ribbed rubber gasket. Compression with the inner frame component shall provide a leak-free seal. Windows shall comply with FMVSS 205, Glazing Materials.

Bidder Complies YES_____ NO_____

Exterior Compartments, ADP with "Sweep Out" Design

EXTERIOR COMPARTMENT FABRICATION

All exterior compartments, excluding backboard compartments, shall be constructed of .100" aluminum diamond plate walls and ceilings with .125" smooth aluminum floors, formed and heliarc welded. Exterior compartments are welded to both the inside wall vertical structure and floor structure components for strength and durability. Each floor shall be "sweep out" design.

Bidder Complies YES_____ NO_____

Exterior Compartments, Gas Charged Door Hold Opens

All exterior compartment doors shall be equipped with a gas charged hold open door check.

Bidder Complies YES_____ NO_____

Exterior Compartment and Entry Doors, Eberhard

EXTERIOR COMPARTMENT DOORS

Each exterior compartment door shall be constructed of .125" 5052H32 aluminum sheet double pan formed with a 1.5" return bend with recessed offset supporting the .063" 3003 alloy aluminum diamond plate interior liner. Extruded doors and/or doorframes are not acceptable. In addition, for maximum rigidity, 2.375" "C" channel bracing shall be added internally for additional door structural integrity. The exterior face of the door and the door edges shall be formed from one [1] sheet of

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aluminum. All doors shall be flush with the body side and shall be fully insulated with polyurethane spray foam. When opened, the doors will activate their respective compartment lights. All compartment doors shall be keyed alike. Each access door is to be stamped with an alphanumeric code; this will enable the quick and exact replacement of a damaged door. The inner door panels shall be affixed to the flange with stainless steel serrated spring washers and TX-25 Type F Torx-head machine screws.

Bidder Complies YES _____ NO _____

EXTERIOR COMPARTMENT DOOR HANDLES AND LATCHING

Door hinges shall be full length stainless steel #304-2B buffed and polished with a 1/4" stainless pin and shall be fastened to the door and door frame with self-locking stainless steel screws. Hinges are to be of a slotted style with a round hole on each leaf of the hinge for permanent lifetime adjustment of the doors. Hinges shall be staked, not welded, every 4" to prevent pin from moving. NO EXCEPTIONS ALLOWED. The locking mechanism shall be a die cast Eberhard 2-point exterior locking pull handle, a matching inside handle with a gasket for the external handle with rotary latches and adjustable Nader pins. Latches shall be near flush with the door skin. Each latch must be capable of being locked independently with an integral exterior key lock and a key matching the locks on the curbside and rear entry doors. The latch system is to be activated by the use of a .156" zinc plated steel rod with a single point threaded adjustment mechanism. Systems operated by cables are unacceptable due to the tendency of cable to stretch or fatigue prematurely. NO EXCEPTIONS WILL BE ALLOWED. The latch and the Nader pin shall be mounted so as not to interrupt the continuous door seal. A .437" hole shall be drilled into the edge of each entry door adjacent to the paddle handle. This lubrication access shall be sealed with a removable plastic cap for protection of the internal mechanism.

Bidder Complies YES _____ NO _____

Exterior O2 Vent - On O2 Compartment Door

EXTERIOR OXYGEN COMPARTMENT VENT

One (1) #1031 Cast Products, polished aluminum exterior oxygen compartment vent shall be provided and installed on the door of the exterior compartment that houses the oxygen tank retention system. The vent hole shall be 3" in diameter and provide adequate ventilation for gaseous oxygen should a leak occur. A black plastic vent shall be provided and installed on the interior door liner covering the vent hole to protect it from intrusion by the elements when the door is open.

Bidder Complies YES _____ NO _____

Exterior Compartments, Lok-Tyle Floor & Shelves

The floor and shelf of each exterior compartment shall be covered with Lok-Tyle material that shall be black in color. A Safety Yellow Lok-Tyle end piece shall be installed at the front of each compartment to clearly define the front edge of the compartment.

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Bidder Complies YES _____ NO _____

Rear Door Grabbers, CPI "Grabber" at bottom of door

DOOR GRABBERS

A set of door Cast Products "Grabbers" shall be provided at the bottom of the rear doors. They shall be fastened to the door and doorframe with self-locking stainless steel screws. NO EXCEPTIONS WILL BE ALLOWED.

Bidder Complies YES _____ NO _____

Door Seals, Automotive Closed Cell Gasket

DOOR SEALS

For optimum fit and closure, the compartment and patient entry doors shall close on a .625" W x .400" thick automotive, closed cell EDPM rubber gasket adhered to first interior surface of the double pan-formed compartment doors. The gasket seal shall be located on this surface to prevent exposure of the rotary latch mechanism to water or dirt when the door is closed.

Bidder Complies YES _____ NO _____

Power Door Lock System, All Doors - Compartment and Entry

POWER DOOR LOCK SYSTEM - ALL PATIENT AND COMPARTMENT DOORS

The rear patient entry doors and side entry/egress door, along with all exterior compartment doors (excluding any exterior compartment drawers) and exterior ALS door, shall be equipped with a power lock that shall be activated from within the cab, within easy reach of the driver.

Bidder Complies YES _____ NO _____

Power Door Lock Switch, (1) Additional, Exterior Hidden

POWER DOOR LOCK SWITCH

An additional power door lock switch shall be provided and installed in an exterior location, hidden from obvious view. It shall be in addition to the switch installed in the cab to control the power door locks installed on designated compartment doors.

Bidder Complies YES _____ NO _____

Wire Power Door Locks To OEM Chassis Door Locks

POWER DOOR LOCK ACTIVATION

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The patient compartment door locks shall be wired to the chassis power door locks.

Bidder Complies YES _____ NO _____

Keyless Entry System, Wired, keypads

KEYLESS KEYPAD ENTRY

Two (2) keyless keypad entry system shall be installed on exterior of the vehicle in a predetermined location by this department. This entry system shall be wired to the OEM chassis power locks and the patient compartment entry doors.

Bidder Complies YES _____ NO _____

Stainless Steel Door Sills - All Exterior Compartments

STAINLESS STEEL DOOR SILL PROTECTION

There shall be a 20 ga. formed stainless steel compartment doorsill protection for all exterior compartments. The stainless protector shall be affixed with heavy duty double sided tape to the top surface of the doorsill and extend over the radius edge.

Bidder Complies YES _____ NO _____

Exterior Compartment Lights - LED Vista Rope

COMPARTMENT ILLUMINATION

Each exterior compartment shall be lighted with LED rope style lighting secured to the front wall of the compartment. Each door shall have an individual automatic switch. The switches used shall be Sentrol magnetic mounted in the doorframe header for both maintenance-free operation and protection from outside elements.

Bidder Complies YES _____ NO _____

D1, (1) O2 Tank Mount, Zico #QR-MV Bracket - "M" & Misc.

OXYGEN TANK MOUNT

One (1) Zico, "Multi-Versatile" model #QR-MV Oxygen mounting system shall be provided to secure an "M" type and other size Oxygen tank in exterior compartment D1.

Bidder Complies YES _____ NO _____

D1, Vertical Fixed Divider (s) QTY

VERTICAL DIVIDER

A vertical divider shall be provided in the D1 compartment to accommodate backboard storage. This

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divider shall be covered with a Line-X Brand non-slip sprayed-on surface. This surface must contain no V.O.C. Or C.F.C's and shall be solvent free. NO EXCEPTIONS

Bidder Complies YES _____ NO _____

D1, (1) Adjustable Shelf, ADP **ADJUSTABLE SHELVES**

(1) Adjustable shelf will be provided and installed in the D-1 compartment rearward of the divider. It shall be easily adjusted to accommodate equipment/supply requirements.

Bidder Complies YES _____ NO _____

D1, Recessed Multiplex Compartment Door with Latches

D2 Adjustable ADP Shelf, **ADJUSTABLE SHELF**

(1) Adjustable shelf will be provided and installed in the D-2 compartment. Each shall be easily adjusted to accommodate equipment/supply requirements.

Bidder Complies YES _____ NO _____

D4, Shelf, Adjustable ADP **ADJUSTABLE SHELF**

One (1) adjustable shelf shall be provided in the D4 compartment. It shall be easily adjusted to accommodate equipment/supply requirements.

Bidder Complies YES _____ NO _____

D4, Additional Adjustable ADP Shelf **ADJUSTABLE SHELF**

One (1) additional adjustable shelf(s) shall be provided in the D4 compartment. It shall be easily adjusted to accommodate equipment/supply requirements.

Bidder Complies YES _____ NO _____

P5, (Qty) Vertical Backboard Dividers **BACKBOARD DIVIDERS**

One (1) vertical backboard divider slots shall be provided in the P5 compartment to accommodate backboard storage.

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Bidder Complies YES _____ NO _____

P5, Fixed Shelve(s)

One (1) additional fixed shelves shall also be provided in Compartment P-5.

Bidder Complies YES _____ NO _____

SCBA Mounting Rails

SCBA MOUNTING PLATE RAILS

[2] Uni-strut rails for SCBA mounting shall be provided. There shall be 1" x 2" aluminum uni-strut rails welded to the rear wall of the compartment for future mounting of SCBA bottles or similar equipment.

Bidder Complies YES _____ NO _____

Reflectors on Interior of All Exterior Compartment Doors

SAFETY REFLECTORS

A 4.5" wide x 1" high red reflector shall be provided and installed on the inside, lower outboard area of each exterior door. These reflectors shall warn oncoming traffic of the open door while on scene.

Bidder Complies YES _____ NO _____

EXTERIOR MODULE COMPARTMENT SECTION COMPLIANCE

EXTERIOR MODULE COMPARTMENT COMPLIANCE

Checking Yes to the Compliance here indicates the bidder complies to the above exterior module compartment and equipment section **in its entirety** and will provide the above mentioned compartment dimensions, accessories additional options and equipment as specified. As mentioned previously in this document, exceptions to the compartment dimensions, accessories and additional equipment and options may be taken. Exceptions will not necessarily be cause for rejection in this section as not all manufacturers can meet these compartment dimensions to the exact inch. If exceptions are taken, documented dimensions and specifications must be provided of what the bidder is choosing to provide in lieu of what is specified here. **Failure to provide this information will be cause for rejection.**

Bidder Complies YES _____ NO _____

Grab Rail, 16" - Left Of Side Entry Door

GRAB RAIL

An exterior style 16" stainless steel grab rail shall be installed on the curbside of the vehicle to the rear of the curbside entrance door. The grab rail shall be bolted through the body skin and through the aluminum side structure with fender washers and lock nuts on the interior and rubber gaskets under the feet of the grab rail on the exterior. A grab rail mounted to the body skin is unacceptable.

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Bidder Complies YES _____ NO _____

Bumper, Rear with 7" Diamondback Flip-Up Step

REAR BUMPER

The rear step bumper shall be approximately 94" wide and step tread depth of 10.5". The bumper shall be supported with a 1.5" x 1.5" x .250" wall steel tube sub frame and have .250" steel angle outer frame construction. The bumper shall be bolted to the vertical web of the chassis frame rails with .375" x 1.5" Grade 8 bolts, nuts and washers. This configuration is designed to reduce body damage by directing impact under the body and away from the patient area should a rear impact crash occur. The center section of the bumper shall be 7" x 46" x 2" and be constructed of an open grate diamond back material and shall flip-up over center to facilitate loading a cot. The aluminum step shall be bolted to the sub frame with a minimum .250" x 20 stainless steel bolts for ease of replacement.

The rear bumper shall meet the requirements set forth in the AMD Standard 018- Rear Step and Bumper Test. The bumper shall be able to accommodate a 500 lb. load with maximum deflection of 1-inch and no more than ¼-inch permanent deformation.

Bidder Complies YES _____ NO _____

Bumper Pods, Cast Aluminum

The removable end pods of the bumper are constructed of cast aluminum. The height of the end pods shall be 4" and shall have 3" radius corners. The surface of the end pods shall be finished with 375" slip resistant raised pattern and embossed. These pods shall be even with the step edge.

Bidder Complies YES _____ NO _____

Rear Kick Plate, Stainless Steel, Hinge-to-Hinge

A stainless steel cot protection plate on the rear face of the rear step shall be provided.

Bidder Complies YES _____ NO _____

Tow Eyes on Rear, Recessed Into Kick Plate

TOW EYES

A pair of tow eyes shall be provided at the rear of the vehicle. They shall be recess mounted into the kick plate and shall meet or exceed all standards related to towing capacities and performance.

Bidder Complies YES _____ NO _____

"ECK" Body Hardware Preparation

BODY HARDWARE

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All body hardware, all compartment and entry doors shall be mounted on the body with stainless steel screws. All stainless mounting screws shall be dipped in or sprayed with electrolysis preventive solution before installation on the body. This is required to minimize the process of electrolysis. NO EXCEPTIONS ALLOWED.

Bidder Complies YES_____ NO_____

Body Protection, Rear Mud flaps & "C" Channel Rub Rail

BODY PROTECTION

A full-length body rub rail shall be attached to both sides and extend from the body below the compartment doors. This rub rail shall be constructed of 1.5" x 2" x .250" "C" channel aluminum. The rub rails shall be attached to the lower margin of the body skirt using 1" x .25"-20 stainless steel flat head mounting bolts with stainless acorn nuts to the outside and plastic or nylon washers between the rub rail and body. For additional protection and for compliance with state highway requirements, two [2] heavy-duty composite mud flaps shall be installed behind the rear dual wheels. The mud flaps shall extend the full width of each set of dual wheels.

Bidder Complies YES_____ NO_____

Fuel Fill Entry, Street side, above & Behind Wheel well

FUEL ENTRY

There shall be an 8.00" x 8.00" 65 degree cast aluminum fuel filler guard recessed into the body above and behind the street side wheel well. Steel fuel fill protectors are not acceptable. This protective bezel shall be sealed to the body to prevent spilled fuel from seeping behind the bezel and shall have a rubber grommet hole to protect the fuel cap retention strap.

Bidder Complies YES_____ NO_____

Diesel Emission Fluid Fill with Stainless Steel Splash Guard

DIESEL EMISSION FLUID ENTRY

A Diesel Emission Fluid (DEF) Fill entry shall be installed on this unit. This entry shall be easy to access and shall include a stainless steel magnet latching non locking fill guard door. Below the fluid fill, a stainless steel splash guard shall be installed below. Aluminum splash guards shall not be installed in this location.

Bidder Complies YES_____ NO_____

Fuel Guard, ADP under Fuel Fill

FUEL GUARD

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An aluminum diamond plate fuel fill splash protection plate shall be installed under the single fuel fill opening. It shall protect the paint from fuel over splash and fuel cap removal. This splash guard shall comply to section 3.9.7.3 of the KKK-A-1822F Federal Ambulance Specification. Bid proposals failing to meet this requirement will be rejected.

Bidder Complies YES_____ NO_____

Running Boards, Fire Grade ADP with Front Mud flaps

RUNNING BOARDS AND GUARDS

To provide for increased road splash protection and ease of driver/technician entry and exit, fire grade aluminum diamond plate running boards shall be installed on the vehicle. The use of fire grade Aluminum Diamond Plate is required for this option.

Bidder Complies YES_____ NO_____

Rear Corner Guards, Stainless Steel, 16.5"

CORNER GUARDS

The lower rear corners of the body shall have approximately 14.5" high stainless steel rolled around the corner radius and terminate at the rear kick plate area.

Bidder Complies YES_____ NO_____

Front Stone Guard, Stainless Steel 21"

STONE GUARDS

The lower forward corners of the body shall have approximately 17" high, 16 ga. stainless steel rolled around the corner radius and terminate at the junction of the cab and the body. These stone guards shall be fastened to the body with .50" -10 TX-25 Type F Torx head screws. The top edge of each stone guard shall be sealed to prevent moisture and debris from collecting behind the guard.

Bidder Complies YES_____ NO_____

Fenderettes, Rear, 19.00"

FENDERETTES

Formed aluminum fenderettes shall be installed around each rear wheel well opening. They shall help diminish damage to the wheel well area of the body caused by stones and road debris.

Bidder Complies YES_____ NO_____

License Plate Holder #LP0002-1, Recessed In Center, LED Light

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LICENSE PLATE

The rear license plate holder, model #LP0002-1 shall be recessed into the rear kick panel below the rear doors. It shall be constructed of polished cast aluminum and have two [2] top lights to illuminate the plate.

Bidder Complies YES_____ NO_____

Undercoating, Chassis & Body

UNDERCOATING

Undercoating shall be liberally applied to the entire undercarriage of the chassis and vehicle body. Undercoating shall be applied to a thickness between .062" to .125" as prescribed in KKK-A-1822F and according to Ford QVM guidelines (when a Ford chassis is specified.)

Bidder Complies YES_____ NO_____

Rust proofing and Undercoating, Ziebart Brand, Chassis

RUSTPROOFING

Ziebart brand rust proofing shall be liberally applied to the entire undercarriage of the vehicle body.

Bidder Complies YES_____ NO_____

Patient Compt, Tests & Standards

INTERIOR PATIENT COMPARTMENT COMPONENTS

Patient Compartment Sound Levels: This vehicle shall provide an interior working environment in which the ambient noise level is less than 80 dB as measured according to AMD Standard 006, Sound Level Test Code for Ambulance Compartment Interiors.

Patient Compartment Carbon Monoxide Levels: This vehicle shall provide an interior working environment in which the carbon monoxide level is less than 10 ppm as measured in accordance with AMD Standard 007, Carbon Monoxide Levels for Ambulance Compartment Interiors.

Bidder Complies YES_____ NO_____

Inventory Control Tags - Eyebolt Style

There shall be eyebolts placed 3/4 of the way up the window frame for inventory control tags.

Bidder Complies YES_____ NO_____

Cabinet Glass - Smoked Acrylic 1/4" Plexiglas

CABINET GLASS

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All cabinet doors incorporating acrylic glass, as sliding or hinged windows shall have .250" thick smoked acrylic Plexiglas® as the standard material.

Bidder Complies YES _____ NO _____

Stainless Steel Round Locking SouthCo Latches, Standard **STAINLESS STEEL ROUND LATCH**

Stainless Steel Round Southco locking latches shall be provided on each door where applicable.

Bidder Complies YES _____ NO _____

Cabinet Construction, Aluminum **CABINETRY**

The cabinetry in the patient compartment shall have picture-framed window face fronts fabricated from lightweight smooth aluminum material and laminated with a minimum .028" Formica. The shelves and the supporting structure shall be 3/4" lightweight Luan plywood material and laminated with a minimum of .028" Formica on both sides.

Non supportive partitions shall be lightweight smooth aluminum material and laminated with a minimum of .028" Formica on both sides. All vertical outside corners and protruding edges of overhead storage shall be capped with 5" radius satin finish anodized aluminum moldings or padded vinyl.

All cabinetry shall be sealed and molded to the floor with bright-anodized aluminum molding. All interior materials, cabinetry, vinyl, foam, and installation used shall meet or exceed FMVSS 302 requirements on flammability of interior materials (where applicable).

Bidder Complies YES _____ NO _____

Cabinet Drawer and Door Faces, Framed Style **PATIENT COMPARTMENT CABINET DRAWER AND DOOR FACES**

All drawers and door faces in the patient compartment shall be an framed and flush fit provide as little intrusion into the patient compartment as possible. These framed style faces shall have protective trim around the edges to provide a uniform, consistent look. Doors and drawer faces that overlay the door or drawer opening is not acceptable to this department.

Bidder Complies YES _____ NO _____

Countertops, Corian Brand, 1st Action Area **COUNTERTOPS**

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The countertop in the primary action area of the patient compartment shall be Corian brand material. It shall have a radius edge and shall be scratch and dent resistant.

Bidder Complies YES _____ NO _____

Countertops, Corian Brand, 2nd Action Area

COUNTERTOPS

The countertop in the second action area of the patient compartment shall be Corian brand material. It shall have a radius edge and shall be scratch and dent resistant.

Bidder Complies YES _____ NO _____

Countertop Color, Corian, 1st AA, Glacier White (White)

The countertop Corian brand color in the primary action area shall be Glacier White.

Bidder Complies YES _____ NO _____

Countertop Color, Corian, 2nd AA, Glacier White (White)

The countertop Corian brand color in the second action area shall be Glacier White.

Bidder Complies YES _____ NO _____

Dome Lights, Whelen LED (10)

PATIENT COMPARTMENT LIGHTS

Patient compartment lighting shall consist of ten (10), round LED dome lights with polished bezels, switched from the action area control console. These lights shall be high intensity LED with clear lenses. The lights shall be activated in separate banks of four (4) lights each. There shall be one (1) bank over the squad bench and one (1) bank over the primary cot. Two (2) switches shall be provided in the action area console, each with high/off/low positions for independent operation of each bank. All ten (10) LED dome lights shall be activated on "LOW" when either the curbside entry door or rear entry doors are opened. There shall be a three-minute time delay system activated by opening the entry doors. This system shall be battery hot and turn the lights "OFF" at the three-minute pre-set time. No ceiling light shall protrude into the patient compartment by more than 1.25".

The patient compartment interior lights must meet the requirements set forth in AMD Standard Test 016 Patient Compartment Lighting.

Bidder Complies YES _____ NO _____

Additional Dome Lighting, LED, DuroLumen Interior (3)

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PATIENT COMPARTMENT LIGHTS

Three (3) R.O.M DuroLumen LED lights shall be installed in the center of the patient compartment ceiling spaced evenly over the cot area from the attendant seat to the rear doors. There will be a switch in the action area control panel. The LED light shall have a clear lenses, and the system shall be battery hot. No ceiling light or attachment shall protrude into the patient compartment by more than 1-1/4".

The patient compartment interior lights must meet the requirements set forth in AMD Standard Test 016 Patient Compartment Lighting.

Bidder Complies YES _____ NO _____

Ceiling in Patient Compt, Pads Over Center Access

CEILING HEADLINER

The patient compartment headliner shall be constructed of a durable, white Sinocore material. The headliner shall be securely affixed to the roof bows. There shall be a full-length inspection access/wire race in the center of the ceiling, which provides access to the wiring harness and antennae bases/leads. In areas where the overhead assist rails are mounted, a 1/3" aluminum plate shall be installed. The access shall have removable padded vinyl covers.

Bidder Complies YES _____ NO _____

LED Strip Light, - Surface Mount (VMUX)

THINLITE LIGHT

An LED light shall be provided and installed in the primary action area. This light shall have a manual "on/off" switch.

Bidder Complies YES _____ NO _____

Federal 12" Littllite - Model #LF-12ES -LED

Federal Signal 12" Littilite Model #LF-12ES-LED LED light shall be installed in the electrical compartment and wired "battery hot".

Bidder Complies YES _____ NO _____

Flooring, Composite 5" Roll Up

COMPOSITE FLOORING

A 3/4" fiberglass reinforced rigid polyurethane foam sub floor shall be installed on top of the OEM steel floor panel. The 3/4" composite material shall be securely fastened to the body floor per the synthetic

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flooring manufacturer's approved fastening methods. The sub floors shall have no visible indentions, raising or other imperfections before the vinyl flooring is installed. Composite flooring is recommended by this agency for its superior durability, overall life span and its resistance to blood borne pathogens and warping. The composite sub floor used MUST comply to FMVSS 302 Fire Test Standards.

Vinyl, anti-skid, commercial grade, heavy-duty, non-porous floor covering shall be applied to the entire floor in a one-piece seamless application. This commercial inlaid sheet vinyl shall have minimums of nominal overall thickness of 2.03 mm. The flooring shall comply with ASTM F 970 (modified) in regard to static load bearing and D-2047 James Test for slip resistance. A waterproof sealant shall be applied between the cabinetry and the floor at the cabinet and floor covering juncture. Cove molding shall be installed around the base of the ALS cabinet. The cove molding shall conform to the requirements set forth in Section 3.10.11 of the KKK-A-1822F Federal Ambulance Specifications. Bid proposals not including this in the quote or detailed specifications will not be considered.

This floor shall exceed the requirements set forth in AMD Standard 020 Floor Distributed Load Test for a bariatric cot (800 lbs.) Flooring structures not meeting this requirement will not be accepted by this department. **NO EXCEPTIONS**

Bidder Complies YES _____ NO _____

Floor, Tapered, Lowered for Cot Load Height **Tapered Flooring for Proper Load Height**

The patient module flooring shall be tapered to allow for a proper load height (as determined by Federal Ambulance Specification KKK-A-1822 Revision F, and AMD Standards 001-009). The flooring, in conjunction with the Morryde Suspension system shall meet all applicable standards and not void any warranties.

Bidder Complies YES _____ NO _____

Rear Threshold, 6" Wide Stainless Steel With 2" Skid tape **REAR THRESHOLD**

There shall be a 6" wide, 16 ga. formed, waterfall style stainless steel threshold protector installed on the rear interior of the body. The protector shall run the entire width of the floor at the door opening. This style shall have no angles or contours which shall provide limited puddling and collection of debris as well as assistance with cot loading. A 2" wide, adhesive-backed non-skid material shall be installed on the threshold piece to assist with safe entry and exit from the vehicle.

Bidder Complies YES _____ NO _____

Interior Risers on Squad Bench & Street side, Full Height

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INTERIOR PROTECTION

A stainless steel riser shall be provided on the lower half of the squad bench, to just below the seating surface, and the street side cabinet face, full height, up to the bottom of the counter top. It shall protect the vertical surfaces from scratches, marks and debris and shall be easily cleaned.

Bidder Complies YES_____ NO_____

Fixed Whiteboard, 18" x 12" Squad Bench Wall

FIXED WHITEBOARD

A durable high quality dry-erase whiteboard manufactured in a complimentary style with the interior of this ambulance shall be installed in the patient compartment. The size and placement of this board shall be determined by this department. Commercially produced dry erase boards shall not be acceptable as the durability of these dry erase boards were not designed to be used in this application and are of a lower quality.

Bidder Complies YES_____ NO_____

Formica Color, White (#949)

The Formica color for all cabinets within the patient compartment shall be White #949.

Bidder Complies YES_____ NO_____

Matte Formica Finish

The Formica shall have a matte finish.

Bidder Complies YES_____ NO_____

Flooring Color, Gun Metal #424, Lon Plate II (Brown/Grey)

The Lon Plate II brand flooring color shall be Gun Metal (dark gray) #424.

Bidder Complies YES_____ NO_____

Upholstery Color, Ash #MV101 (Gray)

The upholstery color shall be Ash #MV101.

Bidder Complies YES_____ NO_____

Sect 1 - Action Area Wall(s), Polished White Std.

ACTION WALL

The action area wall shall be a matte white Formica material to facilitate easy cleanup and an

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aesthetically pleasing appearance.

Bidder Complies YES _____ NO _____

Sect 1 - 1st Action Area with 3/4" Lip **LEFT SIDE CABINetry**

ACTION AREA

An efficient and accessible action area shall be located to the right of the attendant seat. Oxygen and suction/aspiration equipment outlets shall be readily accessible. It shall provide a counter for the attendant's use. The counter shall have a 3/4" lip to prevent items from falling. For the attendant's safety, the foremost vertical leading edge and top horizontal edge of the action area cabinet shall be trimmed with fabric backed padded vinyl. The foam padding shall be 3/8" high-density foam and shall have a R-factor of 0.25. All seams are to be machine stitched for proper fit and durability.

Bidder Complies YES _____ NO _____

Angle Switch Panel, 1st Action Area, Hinged **Angled Switch Panel, 1st Action Area, Hinged**

An Angled switch panel shall be installed under the Drivers side forward overhead cabinet. The cabinet shall house the V-Mux Vista display. The switch panel shall be bottom hinged to allow access for repair of display or for future installation of radio's or equipment.

Bidder Complies YES _____ NO _____

Additional Vista III Display Screen, Fixed Over Squad Bench **Additional Vista III Display Screen, Fixed Over Squad Bench**

An Additional Vista III Display screen shall be installed on the passenger side of the interior module at the head end of the squad bench. The display shall be installed on an angled panel to allow for ease of use. The panel and display shall not interfere with the occupants on the squad bench.

Bidder Complies YES _____ NO _____

Sect 1, Trintec Clock, 3.5" Battery Operated, 1st AA Angled **PRIMARY ACTION AREA CLOCK**

A black case, 3.5" battery operated Trintec clock with sweep second hand and The ambulance manufacturer Logo shall be provided and recessed into the angled area, adjacent to the 1st action area control panel.

Bidder Complies YES _____ NO _____

Bids Due NO LATER than 3 pm EDT, Monday June 12, 2012.

Delta Township Fire Department Ambulance Bid Specifications

Sect 1, Speakers for Radio, In Rear Ceiling

SPEAKER SYSTEM

Two (2) speakers shall be provided and mounted in the rear module ceiling. They shall be connected to the cab AM/FM radio. A separate volume control and fader shall be provided in the rear action area.

Bidder Complies YES _____ NO _____

Sect 1, 1st Action Area Overhead Cabinet

ACTION AREA OVERHEAD CABINET

A cabinet shall be installed above the action area and shall be provided with one [1] adjustable shelf.

Bidder Complies YES _____ NO _____

Sect 1, Restocking Doors on Overhead Cabinet

It shall have "restocking type" Plexiglas doors. The doors shall slide, then flip-up for easy, full width access. The restocking doors shall be constructed in such a manner to prevent twisting, yet provide easy opening when the restocking cabinet face is lifted.

Cabinet faces shall be secured with mechanical fasteners at the corners of each frame. A center piece of .125 aluminum shall be installed in the inside running vertically from the top center to the bottom center of the cabinet frame. A full length hinge shall run horizontally along the top of the hinged compartment attached to a solid bracing surface (aluminum tube or wood structure) to assist in keeping the restocking cabinet from twisting. Gas shocks shall be installed on each end of the cabinet to assist in opening the cabinet.

In order to prevent accidental opening while the vehicle is in motion, the bottom of the cabinets shall be equipped with two positive catching hold-down locks that require a locking motion by the attendant to ensure the cabinet is secure when the vehicle is in motion. Spring-type catches or catches that automatically "lock-in" shall not be considered due to the failure of the catch over time.

Bidder Complies YES _____ NO _____

Sect 1, Handles, Full Length Aluminum

A full length, aluminum handle shall be installed on each door.

Bidder Complies YES _____ NO _____

Sect 1, Writing Drawer, Standard

WRITING DRAWER BELOW ACTION AREA

Bids Due NO LATER than 3 pm EDT, Monday June 12, 2012.

Delta Township Fire Department Ambulance Bid Specifications

A writing drawer shall be provided below the action area, in the rearward position. It shall have approximate dimensions of 2 3/4" high x 14" wide x 15" deep. It shall have a Plexiglas writing surface with flush mounted hinges at the rearward section, so that when the tray is full extended, the writing surface can be lifted to allow easy access to a storage area below. In the closed position, it shall be flush with the front edge of the cabinetry. The storage area shall be large enough to hold writing instruments, a bound notebook, calculator or small miscellaneous items.

Bidder Complies YES _____ NO _____

Sect 1, Cabinet below 1st Action Area **CABINET BELOW ACTION AREA**

A storage cabinet shall be provided below the action area, in the forward position. This cabinet shall be made of the same materials as the rest of the cabinets. This cabinet is designed for inverter, miscellaneous or radio module storage.

Bidder Complies YES _____ NO _____

Sect 2, Sharps & Waste Compartment - Tilt Out **SHARPS AND WASTE COMPARTMENT**

A sharps/waste compartment shall be provided in the area just rearward of the CPR seat. It shall be flush mounted, with a horizontal hinge at the bottom edge, to allow for tilt out access by the occupants. It shall have approximate dimensions of 15" wide x 9" high and shall have a round Southco latch with roller blade catches.

Bidder Complies YES _____ NO _____

Sect 2, NO Cabinet above CPR Seat (Head Protection Zone) **HEAD PROTECTION ZONE**

This unit shall comply to the most current federal standards in regard to overhead occupant clearance (AMD standard 025- Occupant Head Clearance Zone) Under no circumstance shall the manufacturer place an immovable object (cabinets or otherwise) over the CPR seat at the ceiling level when clear height from top of cushion to the overhead immovable object does not exceed 43". Due to the importance this department places on the safety of its' occupants in the patient compartment of the vehicle, **NO EXCEPTIONS or CLARIFICATIONS** to the requirement shall be accepted. Failure to comply to this requirement may result in automatic rejection.

Bidder Complies YES _____ NO _____

Sect 3, Rearward Overhead Cabinet **OVERHEAD CABINET**

Bids Due NO LATER than 3 pm EDT, Monday June 12, 2012.

Delta Township Fire Department Ambulance Bid Specifications

A cabinet shall be installed above the supply cabinet and shall be provided with one [1] adjustable shelf.

Sect 3, Restocking Acrylic Doors, Rear Overhead Cabinet

It shall have "restocking type" Plexiglas doors. The doors shall slide, then flip-up for easy, full width access. The restocking doors shall be constructed in such a manner to prevent twisting, yet provide easy opening when the restocking cabinet face is lifted.

Cabinet faces shall be secured with mechanical fasteners at the corners of each frame. A center piece of .125 aluminum shall be installed in the inside running vertically from the top center to the bottom center of the cabinet frame. A full length hinge shall run horizontally along the top of the hinged compartment attached to a solid bracing surface (aluminum tube or wood structure) to assist in keeping the restocking cabinet from twisting. Gas shocks shall be installed on each end of the cabinet to assist in opening the cabinet.

In order to prevent accidental opening while the vehicle is in motion, the bottom of the cabinets shall be equipped with two positive catching hold-down locks that require a locking motion by the attendant to ensure the cabinet is secure when the vehicle is in motion. Spring-type catches or catches that automatically "lock-in" shall not be considered due to the failure of the catch over time.

Bidder Complies YES _____ NO _____

Sect 3, Handles, Full Length Aluminum

A full length, aluminum handle shall be installed on each door.

Bidder Complies YES _____ NO _____

Sect 3, Lower Rear Street side Cabinet, (Inside/Outside)

SUPPLY CABINET

A supply cabinet shall be provided in the rearward section of the street side interior, below the overhead cabinet. It shall be accessible from both the interior and the exterior (D4) compartment.

Bidder Complies YES _____ NO _____

Sect 3, Acrylic Doors, Double Sliding

It shall have sliding double Plexiglas doors.

Bidder Complies YES _____ NO _____

Sect 3, Handles, Full Length Aluminum

A full length, extruded aluminum handle shall be provided on each door.

Bids Due NO LATER than 3 pm EDT, Monday June 12, 2012.

Delta Township Fire Department Ambulance Bid Specifications

Bidder Complies YES _____ NO _____

Sect 3, Exhaust Fan, 240 cfm Air Flow **PATIENT COMPARTMENT EXHAUST VENT**

There shall be a Detmar #751 three-speed power exhaust vent having a 240 cfm air flow rating shall be installed in the upper left side rear wall. The resistor coil shall be mounted. This shall be controlled from a control panel in the patient compartment. Airflow through the vent shall be manually controlled with a dual panel sliding cover plate. Full closure of this cover shall minimize loss of air during full heating or cooling cycles.

Bidder Complies YES _____ NO _____

B1, L/S, Oxygen Compt, Interior Access with O/2 View Window **OXYGEN COMPARTMENT**

The oxygen cylinder storage compartment shall be located in the street side front compartment D1. Access to the regulator, contents gauge, and cylinder shut-off valve from the interior of the vehicle shall be by means of a hinged .250" thick Plexiglas® door in the forward wall of the action area. This opening shall be trimmed with a black, ABS formed bezel to protect the technician's hands and provide a finished opening. The compartment shall be vented through the exterior door with a minimum 28 square inch opening. The vent opening shall be covered with a polished aluminum vent cover. It shall be attached with stainless screws. The oxygen cylinder retention bracket shall be mounted to the wall of the compartment by Grade 8 bolts tapped into a .250" aluminum plate welded onto the inboard side of the compartment wall. This retention bracket must meet or exceed AMD Standard 003, Oxygen Retention System. The finished oxygen system including regulator, contents gauge, hoses, outlets and flow meter must meet or exceed the requirements of AMD Standard 015, Ambulance Main Oxygen System Test.

Bidder Complies YES _____ NO _____

B1, L/S, Electrical Cabinet, 3-Section **WIRING MODULE**

A 3-section electrical cabinet behind the rear facing technician seat shall house the electrical components in the upper section. Solenoids, relays, circuit breakers, etc. shall be on a module disconnect panel behind the door. The middle and lower section of this cabinet shall be used for general storage. Ample venting shall be supplied.

Bidder Complies YES _____ NO _____

B1, Thermostat, Integrated VMUX Heat/AC system

The patient compartment heat and air conditioning shall be controlled and maintained through a digital thermostat.

Bids Due NO LATER than 3 pm EDT, Monday June 12, 2012.

Delta Township Fire Department Ambulance Bid Specifications

Bidder Complies YES _____ NO _____

B1/2, Cab/Body Pass-Through PASS-THROUGH

There shall be a pass-through access between the chassis cab and body

An aluminum partition wall framed with .125" x 2" x 2" aluminum tubing placed on 16" centers and plated with .060" aluminum formed and welded to the roof, both sides, and floor shall be installed. The patient compartment side of the partition shall be covered with 1/4" plywood laminated with a minimum of .028" plastic. The driver's side of the partition shall be covered with the OEM wall as well as a mildew resistant marine style carpet of a color that matches with the cab interior colors.

Bidder Complies YES _____ NO _____

B1/2, Cab/Patient A/C & Heaters, Equipment Furnished EQUIPMENT FURNISHED

The ambulance cab shall be equipped with an OEM supplied in-dash air conditioner and a hot water heater. The patient compartment shall be equipped with a combination hot water heater/air conditioner and a power exhaust vent. Front and rear heaters and air conditioners shall operate as separate and independent environmental systems. The controls for the rear environmental systems shall be located in the action area switch panel. The addition of the rear HVAC system shall have no deleterious effect upon the chassis system and especially the windshield defroster system as described in FMVSS 103, Windshield Defrosting and Defogging System.

Bidder Complies YES _____ NO _____

B1/2, Ducted Heat/AC, ProAir #935 Ducted Updraft

A combination heater/air conditioner having an air output of 650 cfm at 0 static pressure, a cooling capacity of 32,000 BTU and a heating capacity of 35,000 BTU shall be installed above the walk-through door on the front bulkhead. There shall be two insulated plenums running the full length of the modular body in the ceiling with (4) adjustable outlet vents in each plenum. There shall also be one adjustable outlet vent on the front bulkhead. This system shall be certified to KKK standards by a third party test facility and a copy of the test results shall be included with the bid.

Bidder Complies YES _____ NO _____

B1/2, A/C Condenser, Bottom Mounted, Pro Air

An auxiliary air conditioner condenser with dryer shall be provided under the body.

Bidder Complies YES _____ NO _____

Bids Due NO LATER than 3 pm EDT, Monday June 12, 2012.

Delta Township Fire Department Ambulance Bid Specifications

No Auxiliary 12 Volt Fan

B2, ALS Cabinet , 3-Section

ALS CABINET

An Advanced Life Support cabinet shall be provided in the right side of the forward wall. It shall be divided into sections to accommodate the storage of sensitive equipment and supplies, such as ALS equipment, Laerdal charger, medical boxes, etc. The ALS cabinet shall be finished with the same material as the other cabinets. Unless otherwise specified, all divided sections shall be accessible from the outside exterior corresponding compartment. A rubber floor mat shall be installed on each divided section (including any shelves if specified).

Each compartment shall have one [1] adjustable shelf mounted on "C" channel style tracking and double, Plexiglas doors . Each door shall be provided with a non-locking SouthCo round latch.

Bidder Complies YES _____ NO _____

B1/2, Health Center, Completely Open

HEALTH CENTER

An open type "health center" compartment shall be located rearward of the walk-through to the cab on the curbside, along the backside of the first exterior compartment. The materials used shall be the same material as the other cabinets. It shall have approximate height and width dimensions of the first exterior compartment. The depth shall be approximately 6" (distance between the walk-through opening and the back wall of the first exterior compartment). Cabinet will be all-open.

Bidder Complies YES _____ NO _____

ALS COMPARTMENT COMPLIANCE

ALS COMPARTMENT COMPLIANCE

The ALS compartment specified above is designed with this department's particular needs in mind. Checking Yes indicates the ALS compartment bid matches the ALS cabinet specified here.

Bidder Complies YES _____ NO _____

Vacuumed Formed Upholstery

VACUUM FORMED UPHOLSTERY

All seating and backrests (including the technicians seat) in the patient compartment shall be constructed of 60 ounce vacuumed formed, seamless vinyl.

Bidder Complies YES _____ NO _____

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Delta Township Fire Department Ambulance Bid Specifications

Att Seat - EVS1850 HiBac Child Safe - 2-Pos Swivel

ATTENDANT SEAT

A rear-facing, high-back attendant seat shall be located at the head end of the primary cot. The material shall be sixty (60) ounce vacuumed formed, seamless vinyl compliant with OSHA regulations for easy removal of blood-borne pathogens. The seat shall be mounted on a powder-coated black two (2)-position swivel base with the ability to lock in the forward and rear facing positions and shall be securely bolted through the subfloor structure. The seat shall be equipped with a heavy duty double locking slide track. A built-in Child Safety Seat equipped with a five (5)-point safety harness shall be incorporated. A retractable two (2)-point adult seat belt in a totally enclosed housing shall also be provided to provide safety for the attendant. The mounting hardware, seatbelt materials and configuration shall be in compliance with the most current applicable revision of FMVSS and KKK-A-1822. Seating constructed of or containing cloth, machine-stitching and/or welt shall not be allowed. NO EXCEPTIONS

Bidder Complies YES _____ NO _____

Sect 2, CPR Seat

CPR SEAT

To the rear of the first action area, there shall be a bench type CPR seat approximately 26" wide x 19.5" deep. This area is intended for use as an auxiliary technician's seat for administering care to a patient when the center mount cot position is used. This side-facing seating position shall have a Type 1, retractable seat belt assembly with anchor points drilled and tapped into the .250" aluminum plate welded onto the .125" aluminum sheet street side wheel well structure.

Bidder Complies YES _____ NO _____

Sect 2, Storage under CPR Seat - Rear Hinge

STORAGE UNDER CPR SEAT

There shall be a storage area below the CPR seat. This area shall be accessed via a flip-up CPR seat cushion.

Bidder Complies YES _____ NO _____

Sect 2, Fixed Backrest, CPR Seat

FIXED CPR SEAT BACKREST

The CPR seat shall have a fixed backrest with a full height cushion.

Bidder Complies YES _____ NO _____

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Delta Township Fire Department Ambulance Bid Specifications

Sect 2, CPR Seat Positive Catch Paddle Latch **CPR SEAT PADDLE LATCH**

There shall be a paddle latch for the CPR seat.

Bidder Complies YES _____ NO _____

Sect 2/3, Squad Bench **SQUAD BENCH**

The squad bench shall be 22" deep x 78" wide x 16" high and have a split lids with open storage under the forward section. The front face, lid and ends of the squad bench shall be fabricated from .750" 7-ply plywood and laminated with a minimum of .028" Formica[®]. The forward lid shall have a gas strut style hold-open device and a paddle handle slam latch that automatically holds the lid closed and to prevent opening in case of accident. The lid shall automatically open when the latch is released. The lid shall be fitted with a removable cushion covered with a heavy grade fabric backed vinyl that meets FMVSS 302, Flammability of Interior Materials. Three (3) sets of Type 1, retractable seat belts shall be installed on the curbside wall. Anchor points for these belts are attachments through and to the .250" aluminum plate welded into the curbside wall structure. The retractors shall be automotive style with plastic housings. The seat belt components and anchor points shall meet the requirements of KKK-A-1822E 3.11.4, 3.11.6 and FMVSS 209 and 210.

The flooring of the storage under the squad bench shall be lined with a black textured rubber automotive style mat permanently adhered to the floor.

Bidder Complies YES _____ NO _____

Sect 2/3, Back Rests, (2) Above Squad Bench

The squad bench backrests shall be comprised of two (2) full width x 3" thick x 8" high protective pads. One (1) shall be mounted approximately 10" above the bench seat and be attached to the curbside wall. Both backrest pads shall be easily removed for cleaning and reinstalled without special tools.

Bidder Complies YES _____ NO _____

Sect 2, No Posts and Cups Required At This Time

No Posts and Cups on the Squad Bench are required for this unit.

Bidder Complies YES _____ NO _____

Sect 2, Jack & Tools - Ship Loose **JACK & TOOLS**

One [1] set of jack and tools for changing a tire, will be provided and installed with Velcro straps, inside

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Delta Township Fire Department Ambulance Bid Specifications

squad bench.

Bidder Complies YES _____ NO _____

Sect 2, Armrest, Polished S/S "A" Bar - Head of Squad Bench

ARMREST

A stainless steel polished "A" bar armrest and sharps/waste container shall be located at the head of the squad bench. The sharps/waste container shall be easily accessible from the front of the squad bench.

Bidder Complies YES _____ NO _____

Sect 2 - Reinforcement Plate. CS Wall -

REINFORCEMENT BAR

Reinforcement shall be installed in the walls of the module for the installation of a cargo net, or other such device. This reinforcement shall be made of flat bar.

NO EXCEPTIONS ALLOWED FOR THIS REQUIREMENT

Bidder Complies YES _____ NO _____

Front Seatbelt Buckles on Squad Bench Face

SEATBELT BUCKLES ON SQUAD BENCH FACE

Three [3] sets of retractable seat belts shall be installed on the face of the squad bench to restrain a patient on a secondary litter.

Bidder Complies YES _____ NO _____

Sect 2/3, Squad Bench Cabinet, Two-Section

SQUAD BENCH CABINET

A cabinet shall be located over the squad bench at the ceiling level, rearward of the entry/egress door opening. This cabinet shall be divided into two (2) separate sections. The cabinet shall be finished in the same material as the rest of the interior cabinets.

Bidder Complies YES _____ NO _____

Sect 2/3, Flip Up Acrylic Doors, (2) On Squad Overhead

There shall be two (2) flip-up 3/8ths" Plexiglas doors.

Bidder Complies YES _____ NO _____

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Delta Township Fire Department Ambulance Bid Specifications

Sect 2/3, Handles, (2) Chrome "C" With Gas Strut Hold-Opens

Each door shall have spring-strut hold-open devices and chrome pull handles with roller ball catches.

Bidder Complies YES _____ NO _____

IV Holders, (4) Cast Products #2008-1, Ceiling - Head/Foot

IV HOLDERS

Four (4) ceiling mounted, recessed Cast Products 2008-1 IV holders shall be supplied. They shall be located at the patient head and foot areas, two (2) over the squad bench and two (2) over the primary cot. The fold-down structure shall be a flexible rubber material to prevent injury to technicians moving in the patient compartment. When not in use, the rubber fold-down shall flip up for flush storage in the recessed ceiling housing. Each holder must have the capacity to hold two (2) bags of solution and have Velcro securing straps to prevent excessive movement of the bags during transport.

Bidder Complies YES _____ NO _____

Cot Mount, Stryker #6370 Single Position, Floor Mount

COT MOUNT

A Stryker #6370 single position, floor cot mount shall be supplied (department shall specify model number for positioning during pre-construction conference). Additionally, this vehicle must meet or exceed AMD Standard 004, Litter Retention System.

Bidder Complies YES _____ NO _____

Cot Mount Location, Center Mount

The cot mounts shall be located in the center of the patient compartment floor area, as viewed from the rear of the vehicle.

Bidder Complies YES _____ NO _____

Cot Safety Hook, Long, Center between Rear Entry Doors

The cot stop shall be mounted in the center of the rear entry doors, on the rear threshold plate.

Bidder Complies YES _____ NO _____

Rear Entry Assist Handles, (2) Black Molded

REAR ENTRY ASSIST RAIL

Two (2) black molded assist handles shall be provided and securely fastened just inside the rear patient compartment. The handle shall be mounted in a location as to assist personnel exiting and entering the rear of the vehicle. Assist handles fastened with only self-tapping machine screws are not acceptable.

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Delta Township Fire Department Ambulance Bid Specifications

Bidder Complies YES _____ NO _____

Assist Rails, (1) 90" x 1.25", (1) 60" x 1.25" O.D, Brushed

ASSIST RAILS

One [1] 90" long, 1.25" diameter, smooth satin finished overhead grab rail shall be provided and securely fastened to the ceiling over the primary cot. One [1] 60" long, 1.25" diameter, smooth satin finished overhead grab rail shall be provided and securely fastened over the squad bench. The grab rails shall be fastened with bolts, washers and nuts of the appropriate dimension, through the interior ceiling panel and through the .090" aluminum accessory plate welded into the roof structure. Assist rails fastened with self-tapping machine screws are not acceptable. These grab rails must meet or exceed AMD Standard 008, Load Test for Ambulance Patient Compartment Grab Rail.

Bidder Complies YES _____ NO _____

Signs, "No Smoking Oxygen Equipped" & "Fasten Seatbelts"

SIGN

Two self adhesive "NO SMOKING OXYGEN EQUIPPED" and "FASTEN SEATBELT" sign (1) shall be installed in the 1st action area.

Bidder Complies YES _____ NO _____

Oxygen System, 3000 Liters Minimum

OXYGEN

The medical oxygen system shall be capable of storing and supplying a minimum of 3000 liters of oxygen. A suitable high-pressure hose shall be provided. The concealed oxygen supply hose shall be .250" ID, .50" OD nylon base with polyester fiber reinforcing. This electrically conductive hose shall be certified to 1,875 psi and have a 7,500 pound burst rating. The fittings shall be DISS and flare, and be securely crimped to the barbed fittings by means of compressed copper sleeves. Oxygen supply hose shall be routed through the ceiling of the ambulance body and be secured with non-abrasive plastic "C" clamps. The entire oxygen system shall be subjected to a 200-psi leak test for 24-hours before installation of panels or covers that may obscure or hide the system components. After the vehicle is completed, a test as prescribed by AMD Standard 015 shall be conducted for a period of two (2) hours to insure system integrity. Each outlet shall be checked for 100LPM flow at 50 psi. This test shall be performed using nitrogen gas to purge the lines of all moisture and foreign debris. Upon completion of the test, the lines shall be bled free of nitrogen and capped. This medical oxygen system shall meet or exceed AMD Standard 015, Ambulance Main Oxygen System Test.

Bidder Complies YES _____ NO _____

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Delta Township Fire Department Ambulance Bid Specifications

Oxygen, (3) Outlets - (1) AA, (1) Squad Bench, (1) Ceiling **OXYGEN**

The oxygen system shall have three (3) outlets, (1) on action area wall and (1) over squad bench at the head end of the overhead cabinet and (1) in the ceiling. The department shall specify the brand of quick-connectors to be used. A compartment shall have fully adjustable stainless steel rings for the O₂ tank. The rings shall be located in the front of the compartment (tank will be provided by the department).

Each outlet shall be covered with a protective, unbroken seal specifically detailed with the manufacturer's logo and a notice of testing. After proper testing, this seal is noticeable proof the outlet has not been tampered with prior to delivery. NO EXCEPTIONS

Bidder Complies YES _____ NO _____

Oxygen Outlets, Ohio Style

Oxygen outlets to be Amvex brand with Ohio style fittings. The oxygen outlets shall be certified by the equipment manufacturer to meet the appropriate FDA standards for medical oxygen outlets.

Bidder Complies YES _____ NO _____

Flow meter, (1) Oxygen, Gravity Type

One (1) gravity type Thorpe tube oxygen flow meter shall be provided. The flow meter shall be certified by the equipment manufacturer to meet the appropriate FDA standards for medical oxygen flow meters.

Bidder Complies YES _____ NO _____

Regulator, Oxygen

REGULATOR

A 50 psi, preset medical oxygen regulator shall be provided and installed on the supply end of the oxygen system hose. This regulator shall be certified by the equipment manufacturer to meet the appropriate FDA standards for medical oxygen flow meters. Regulators that are shipped loose shall not be excepted.

Bidder Complies YES _____ NO _____

Weldon Vista Internal Digital O2 Content Gauge (STD VMUX)

An icon and pressure readout shall be displayed onto the control panel monitoring display. The transducer shall be installed using "T " Fitting to maintain [manual pressure gauge](#) at tank [for tank](#) contents.

Bidder Complies YES _____ NO _____

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Delta Township Fire Department Ambulance Bid Specifications

Oxygen Shut-Off, Electric Solenoid with Manual Bypass (VMUX)

ELECTRIC OXYGEN SHUT OFF

An electric shut off switch for the oxygen system shall be provided and installed in the rear action area switch panel. The system shall include a manual bypass.

Bidder Complies YES _____ NO _____

Suction & Aspiration Systems, SSCOR/Vacuum Pump D2

SUCTION AND ASPIRATION SYSTEMS

An SSCOR Model 20002/22002 suction aspirator system with 1200 ml disposable canister, injection molded plastic bracket and wall-mounted vacuum control shall be supplied and installed in the 1st Action Area. An electric suction pump shall be supplied and installed in the right hand corner of the street side D2 compartment and be covered with a protective metal grating. The self-sealing vacuum outlet shall be mounted on the action area wall next to the oxygen outlets. To prevent premature fatigue of the suction plumbing, the line from the vacuum pump to the wall outlet shall be .375" I. D. double braided neoprene hose. This suction aspirator system shall have the capability of attaining a vacuum of 300 millimeters of mercury within four (4) seconds. The vacuum control regulator panel shall be installed on the action area wall adjacent to the vacuum outlet and the oxygen outlets. This control panel shall contain a vacuum gauge calibrated on a dual scale, to read vacuum pressure in increments from 0 millimeters of Mercury or 0 inches of Mercury to 750 mmHg or 30 inHg. A quarter-turn adjustment vacuum control and shut-off valve to adjust the vacuum levels or to discontinue suction immediately shall be integral to the control panel housing the vacuum gauge. The system as provided, shall include one (1) 10-foot length of transparent non-kinking clear plastic tubing and an operator's manual. This suction aspirator system shall be certified by the equipment manufacturer to meet the appropriate FDA standards for medical suction aspirator systems.

Bidder Complies YES _____ NO _____

Sharps & Biohazard Rack sack with Red Medical Bags

SHARPS/BIO-HAZARD

A sharps container with a crash stable mounting bracket shall be supplied and shipped loose. A biohazard container with lid and twelve [12] red biohazard bags shall be shipped loose for installation by the department.

Bidder Complies YES _____ NO _____

Patient Code Signal System, With (3) Switches & Buzzer

PATIENT CODE SIGNAL SYSTEM

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Delta Township Fire Department Ambulance Bid Specifications

In the action area switch console there shall be three [3] colored switches (red, yellow and green) that shall activate the corresponding indicator lights in the driver's switch console. In addition, there shall be a switch in the action area switch console that activates a buzzer in the driver's compartment. These lights and buzzer shall be used to notify the driver of any change in the patient's status.

Bidder Complies YES _____ NO _____

Radio Antenna Pre-Wire, (2) Base, Power, Ground & Coax **RADIO EQUIPMENT CONNECTIONS**

Two (2) 10-gauge power and two (2) ground wires, two (2) RG58U coax cables, and two (2) PL 259 connectors shall be installed as "pre-wires" for the installation of radio communications equipment. Power, ground, and coax shall be terminated and bundled behind the passenger seat. There shall be an 18" service loop at the antenna base locations and a 36" service loop at the terminations in the cab. The PL259 connectors shall be shipped loose in the New Vehicle Owners Manual pocket.

Bidder Complies YES _____ NO _____

Radio/Phone Antenna Pre-Wire, Three (3) additional **RADIO EQUIPMENT**

Three (3) Additional 10-gauge power, ground wires, RG58U coax cables and PL 259 connectors shall be installed. Power, ground, and coax shall be installed in locations to be determined upon award of bid. There shall be an 18" service loop at the antenna base and a 36" service loop at the termination.

Bidder Complies YES _____ NO _____

(1) Fire Exting., ABC 10 lb with Mounting Brackets **FIRE EXTINGUISHER**

One (1) ten pound rated ABC fire extinguisher with a mounting bracket shall be furnished with the ambulance. It shall be shipped loose to allow the department to install in the desired location.

Bidder Complies YES _____ NO _____

DOT Triangles, Ship Loose **DOT TRIANGLES**

Safety triangles approved by the United States Department of Transportation shall be shipped loose with the completed ambulance.

Bidder Complies YES _____ NO _____

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Delta Township Fire Department Ambulance Bid Specifications

Touch-Up Paint, Included in Completed Unit

TOUCH UP PAINT

Touch-up paint shall be supplied with the completed unit. One bottle of touch up paint shall be provided for each color of paint applied to the unit. The paint container shall include the paint number for future reference.

Bidder Complies YES _____ NO _____

Chassis Repaint, Two-Tone, Black Over Red

CHASSIS PAINT

The chassis shall be repainted two-tone color utilizing the OEM Red on the lower half and Black on the upper half, with the paint break line not to exceed the cab window, unless otherwise specified. The chassis shall be painted using the same paint process standards as the body.

Bidder Complies YES _____ NO _____

Body Surface Preparation with Corrosion Inhibitor

MODULE SURFACE PREPARATION

A corrosion inhibitor shall be used on specified exterior surfaces and on specified fasteners, hinges and accessories that are subject to the effects of corrosion due to the electrolytic process that occurs between dissimilar metals. The product, designated as ECK, is a petroleum-based substance with a very slow rate of desiccation. The substance functions as a barrier to water thus minimizes the electrolytic process. It shall be applied in the following conditions and to the following accessories and fasteners:

1. Behind stone guards or any other surface area where there is direct contact between dissimilar metals.
2. On light assemblies utilizing self-tapping mounting screws that penetrate the body.
3. On screws and screw holes for any accessory whose holes are drilled and tapped.
4. On the body surface when any accessory without a rubber or composite gasket is to be mounted; i.e. entry or compartment door hinges or light assemblies without gaskets.

ECK shall not be applied in the following conditions:

1. When mounting any accessory that has a rubber or composite gasket.
2. On light assemblies, which have, plastic inserts for mount screws.

Bidder Complies YES _____ NO _____

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Paint Preparation & Processes

PAINT

Prior to initiating the surface preparation process, all hardware, handles, light fixtures, door hinges, corner trim, etc. shall be removed from the body. Additionally, any portion of the chassis, which does not require refinishing, shall be protected from the ensuing process.

To rid the aluminum body of any extraneous materials or material impurities the entire surface shall be washed and wiped dry with a PPG certified wax and grease remover. Excess weld material shall be removed by grinding all welds, seams, and any other body imperfections. The entire surface shall then be sanded with 80 - 150 grit dry sandpaper to provide good adhesion for any fillers and primers, sanding with 150 grit or finer as a final sand. The required areas shall be filled with approved PPG premium lightweight filler and sanded smooth. A premium two component glazing putty shall be applied directly over these areas to ensure adequate base for application of primers.

Before final cleaning of the metal surfaces before painting, any new holes shall be drilled prior to final cleaning and painting.

The entire surface shall be cleaned again with certified wax and grease remover before application of any primers. A two component premium PPG Delfleet epoxy primer shall be applied to provide a base for adequate adherence of materials to be applied in subsequent steps of this process. A high quality urethane PPG Delfleet primer surfacer shall then be applied. The entire surface to receive topcoat will be sanded smooth to ensure a level and defect free surface.

Door edges and doorjambs shall be prepared similarly to other body surfaces and finish painted with a certified color coat paint. Clear coat shall be applied per recommendation of paint manufacturer. The entire surface of vehicle body shall be DA finish sanded with no coarser than 320 grit dry sandpaper. The surface shall be washed and wiped once again with certified wax and grease remover and tacked for application of epoxy sealer.

After appropriate flash times have elapsed, a clear coat finish with a minimum of 2 full wet coats of qualified urethane clear coat shall be applied.

The body shall be sanded, compounded, buffed and polished to a smooth defect free finish.

Upon final assembly, door hinges, hinge side of doorjambs and all stainless steel mounting hardware shall be coated with ECK, a corrosion inhibitor and permanently mounted to vehicle. Continue to use existing nylon hardware pieces to attach parts and accessories. If any components are damaged or broken, they shall be replaced with new components.

Bidder Complies YES _____ NO _____

Body Paint Color, Two-Tone Black over Red

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TWO-TONE BODY PAINT COLOR

The body shall be painted a two-tone color of Black upper and Red lower with SIKKENS base coat, clear coat paint processes. The paint break line not to exceed mid-height of the body.

Bidder Complies YES _____ NO _____

Roof Paint Color, Single Color White

ROOF PAINT COLOR

The roof shall be painted a single color of white with SIKKENS base coat, clear coat paint processes.

Bidder Complies YES _____ NO _____

Paint Sample

PAINT SAMPLE

A paint sample shall be provided to match the two tone colors selected by this department. Samples will be provided prior to the pre-construction conference.

Bidder Complies YES _____ NO _____

11" Vinyl Safety Stripe

SAFETY STRIPE

The body shall have one (1) 11" wide vinyl safety stripe(s) installed on the completed ambulance. The location(s) shall be determined by this department.

Bidder Complies YES _____ NO _____

Interior Side Entry Door Dgrade Barricade

SIDE ENTRY DOOR BARRICADE (CHEVRONS)

The lower side entry door shall have a 45 degree lower safety Diamond grade material barricade in a chevron pattern installed. Color and exact placement shall be determined by this department.

Bidder Complies YES _____ NO _____

Interior Rear Entry Door Dgrade Barricade

REAR ENTRY DOOR BARRICADE (CHEVRONS)

The lower rear entry doors shall have a 45 degree lower reflective Diamond grade safety barricade in a chevron pattern installed. Color and exact placement shall be determined by this department.

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Bidder Complies YES _____ NO _____

Exterior Rear Barricade w/ Doors Dgrade 2 Color **REAR BARRICADE CHEVRON**

There shall be Diamond grade reflective 45 degree stripes across the back of the ambulance, including the rear doors. This design shall provide the greatest amount of reflectivity for the overall safety of the vehicle and crew. The chevron pattern shall slant downward on both sides on the rear of the vehicle at an angle of 45 degrees, pointing in the direction of the bottom rear corner of the tailboard. The pattern should resemble an inverted V with the point at the top center of the ambulance.

Bidder Complies YES _____ NO _____

1/2" Perimeter Stripe Side Door, Reflective 3M **ENTRY DOOR PERIMETER SAFETY STRIPES**

A 1/2" reflective 3M perimeter safety stripe shall be installed around the side entry door.

Bidder Complies YES _____ NO _____

1/2" Perimeter Stripe Rear Doors, Reflective 3M **REAR ENTRY DOOR PERIMETER SAFETY STRIPES**

A 1/2" 3M reflective perimeter safety stripe shall be installed around the rear entry doors.

Bidder Complies YES _____ NO _____

Pinstripe, 3/4" W -"C" Style Rub rail, Reflective

There shall be a 3/4" wide reflective black color of stripe predetermined by the customer ran through the center of the "C" style rub rail.

Bidder Complies YES _____ NO _____

Gerber vision Decal on Entry Door Window, Each IATS **GERBERVISION DECALS ON WINDOWS**

On all windows specified by this department, Gerber vision SOL decals shall be installed. These decals shall be able to be seen in the windows, while still allowing light to see out of. Due to safety concerns, decals that completely cover a window or complete block an inside or outside view will not be acceptable.

Bidder Complies YES _____ NO _____

Install Roof SOL & Ship Loose Ambulance Package Installation

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SOL PACKAGE INSTALLATION

The entire Federal Specification ambulance decal package shall be installed prior to the delivery of this unit.

The decal materials shall be light blue reflective Scotchlite with white reflective Scotchlite outline. A standard Star of Life and Ambulance decal package shall be provided. The AMBULANCE package consists of three (3) 6" "AMBULANCE" and one (1) 4" reverse "AMBULANCE". The Star of Life package consists of two (2) 18" SOL, two (2) 14" SOL, and two (2) 6" SOL. Additionally, one (1) 32" vinyl SOL (blue) shall be provided for installation on the roof.

Bidder Complies YES _____ NO _____

PAINT AND LETTERING COMPLIANCE

The paint, stripe and lettering design bid shall match the layout specified above. NO EXCEPTIONS.

Bidder Complies YES _____ NO _____

Vehicle Operator's Manual, Hard Cover Binder - Ford

OPERATOR'S MANUAL

A vehicle owner's manual (reference handbook) for the ambulance shall be provided in an 8 1/2" x 11" three-ring, hard cover, loose-leaf binder. It shall contain copies of the chassis manufacturer's warranties and chassis owner's manual, copies of the ambulance manufacturer's warranties and New Vehicle Owners Manual, component manufacturer's equipment information, installation, operating, service instructions, warranties, etc., and a complete set of wiring diagrams or schematics with circuits and components clearly and accurately labeled. Verification of the chassis pre-delivery inspection, and a copy of the ambulance manufacturer's quality assurance form with results of the final vehicle release inspection shall be supplied upon the request of the department.

Bidder Complies YES _____ NO _____

Operating Instructions, DVD

OPERATING INSTRUCTIONS

To provide a safe working environment for emergency medical technicians to provide care of patients, this emergency vehicle must be operated in the safest manner possible. To provide proper training for all operators of this emergency vehicle, a professionally produced operations videotape shall be included with the vehicle at the time of delivery. The Digital Videodisc (DVD) shall present all aspects of the operation of the vehicle including front and rear switch panel operation; daily checkout and maintenance procedures; location of and precautions about the main electrical panel and components. The authorized representative of the manufacturer shall present the DVD and review its contents with the potential operators of the vehicle and shall answer any questions regarding its optional features and

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safe and correct operation.

Bidder Complies YES _____ NO _____

Electrical Schematics CD with transceiver, USB cable; V-mux **ELECTRICAL SCHEMATICS CD**

To provide for continued quality operations of the new ambulance and timely information regarding the vehicles multiplexing electrical system, the manufacturer shall provide a compact disc with the basic electrical schematics for this emergency vehicle. This CD shall be delivered to this department as an item included in the New Vehicle Owners Manual.

Bidder Complies YES _____ NO _____

LIFETIME TRANSFERABLE MODULAR BODY STRUCTURAL WARRANTY

The Manufacturer warrants each new modular ambulance body (exclusive of paint finish, hardware, moldings, windows and other appointments and accessories) is structurally sound and free of all structural defects of both material and workmanship and further warrants that it will maintain such structural integrity for a period of equal to the term or service of the vehicle to the original purchaser from date of manufacturers certification plate attached thereto.

The Manufacturer further warrants that this structural integrity warranty may be transferred to a second purchaser providing the manufacturer or their authorized representative inspects the vehicle within thirty (30) days of ownership transfer. The new owner or the authorized the manufacturer representative shall supply to the manufacturer, documentation of transfer of ownership. Transfer to a new owner other than a licensed ambulance service or fire department shall terminate the terms of this warranty.

In the event of a chassis remount this structural integrity warranty shall remain in effect providing the re-chassis work is completed by the manufacturer or a facility approved by the manufacturer.

Should repairs become necessary under the terms of this warranty, the extent of that repair shall be determined solely by the manufacturer and shall be performed solely by the manufacturer or a repair facility designated by the manufacturer. The expense of any transportation to or from such repair facility shall be that of the purchaser and is not an item covered by this warranty.

This warranty is conditioned upon normal use and proper maintenance of such modular body; prompt written notice of all defects submitted to the manufacturer or one of its authorized dealers in the area; no repair or additions thereto except by the manufacturer or authorized by it; said defect not resulting from misuse, negligence, accident, remounting, overloading beyond applicable weight rating by

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customer or third parties. If any of such conditions are not complied with, this warranty becomes void and unenforceable.

The manufacturer reserves the unrestricted right at any time and from time to time to make changes in design of and/or improvements on its products without thereby imposing any obligation on itself to make corresponding changes or improvements in or on its products theretofore manufactured.

EXCLUSIONS AND LIMITATIONS: THIS MANUFACTURERS WARRANTY IS PROVIDED IN PLACE OF ANY AND ALL OTHER REPRESENTATIONS OF EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. NO PERSON IS AUTHORIZED TO MAKE ANY REPRESENTATION OR WARRANTY ON BEHALF OF THE MANUFACTURER OR ANY OF ITS DISTRIBUTORS OTHER THAN SET FORTH IN THIS MANUFACUTRERS WARRANTY. YOUR RIGHT TO SERVICE AND REPLACEMENT OF PARTS ON THE TERMS EXPRESSLY SET FORTH HEREIN ARE YOUR EXCLUSIVE REMEDIES AND NEITHER THE MANUFACTURER NOR ANY OF ITS DISTRIBUTORS SHALL BE LIABLE FOR DAMAGES WHETHER ORDINARY, INCIDENTAL OR CONSEQUENTIAL.

Note: Surety Bond, if part if part of the sale of the vehicle to which this limited warranty is provides, applies only to the 12-month/12,000 mile Limited Warranty for such vehicle, and not to any other warranties made by the manufacturer or any authorized supplier.

Bidder Complies YES _____ NO _____

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LIFETIME ELECTRICAL WARRANTY

The manufacturer warrants the integrity of the electrical system on each new ambulance manufactured by the manufacturer for a period equal to the term of service of the vehicle to the original purchaser from the date of delivery to the retail purchaser by an authorized the manufacturer distributor or dealer to be free from defects in materials and workmanship under normal use and service. The obligation of the manufacturer under this warranty is limited to repairing or replacing, at its option, any part or parts thereof which shall, after delivery of such ambulance to the original retail purchaser, be returned with transportation charges prepaid to an authorized the manufacturer distributor, and which examination shall disclose to have been defective.

Items specifically covered are:

- Electrical harnesses and harness installation
- Printed circuit board
- Circuit breakers and relays

Items excluded are:

- Chassis electrical systems and components installed by chassis manufacturer
- Separately manufactured items installed by the manufacturer including, but not limited to: batteries, sirens, battery chargers, inverters, light bars and similar equipment. These are covered by warranties supplied by the manufacturer of the components.
- Periodic tightening and cleaning of connection terminals as this is considered routine maintenance.
- Normal wear, abuse, accident, negligence or unapproved alteration of original parts.

Should repairs become necessary under the terms of this warranty, the extent of that repair shall be determined solely by the manufacturer and shall be performed solely by the manufacturer or a repair facility designated by the manufacturer. The expense of any transportation to or from such repair facility shall be that of the purchaser and is not an item covered by this warranty.

The manufacturer reserves the unrestricted right at any time and from time to time to make changes in design of and/or improvements on its products without thereby imposing any obligation on itself to make corresponding changes or improvements in or on its products theretofore manufactured.

EXCLUSIONS AND LIMITATIONS: THIS MANUFACTURERS WARRANTY IS PROVIDED IN PLACE OF ANY AND ALL OTHER REPRESENTATIONS OF EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. NO PERSON IS AUTHORIZED TO MAKE ANY REPRESENTATION OR WARRANTY ON BEHALF OF the manufacturer OR ANY OF ITS DISTRIBUTORS OTHER THAN SET FORTH IN THIS MANUFACTURERS WARRANTY. YOUR RIGHT TO SERVICE AND REPLACEMENT OF PARTS ON THE TERMS EXPRESSLY SET FORTH HEREIN ARE YOUR EXCLUSIVE REMEDIES AND NEITHER THE MANUFACTURER NOR ANY OF ITS DISTRIBUTORS SHALL BE LIABLE FOR DAMAGES WHETHER ORDINARY,

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INCIDENTAL OR CONSEQUENTIAL.

Note: Surety Bond, if part of the sale of the vehicle to which this limited warranty is provided, applies only to the 12-month/12,000 mile Limited Warranty for such vehicle, and not to any other warranties made by the manufacturer or authorized.

Bidder Complies YES_____ NO_____

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LIMITED WARRANTY

The manufacturer warrants each new ambulance manufactured by the manufacturer for a period of twelve (12) months or 12,000 miles from the date of delivery to the original retail purchaser by an authorized the manufacturer distributor or dealer to be free from defects in materials and workmanship under normal use and service. The obligation of the manufacturer under this warranty is limited to repairing or replacing, at its option, any part or parts thereof which shall, within twelve (12) months or 12,000 miles after delivery of such ambulance to the original retail purchaser, be returned with transportation charges pre-paid to an authorized the manufacturer distributor, and which examination shall disclose to have been defective, except as hereinafter provided. The following items are excluded by the manufacturer warranty.

- Chassis or items supplied by chassis manufacturer
- Tires, tire balancing, or wheel alignments
- General tightening, light bulbs or headlamp adjustments
- Separately manufactured items installed by the manufacturer including, but not limited to: batteries sirens, battery chargers, inverters, light bars and similar equipment. These are covered by warranties supplied by the manufacturer of the components.
- Normal wear, abuse, accident, negligence or unapproved alteration of original parts.

Should repairs become necessary under the terms of this warranty, the extent of that repair shall be determined solely by the manufacturer and shall be performed solely by the manufacturer or a repair facility designated by the manufacturer . The expense of any transportation to or from such repair facility shall be that of the purchaser and is not an item covered by this warranty.

the manufacturer reserves the unrestricted right at any time and from time to time make changes in design of and/or improvements on its products without thereby imposing any obligation on itself to make corresponding changes or improvements in or on its products theretofore manufactured.

EXCLUSIONS AND LIMITATIONS: THIS MANUFACTURERS WARRANTY IS PROVIDED IN PLACE OF ANY AND ALL OTHER REPRESENTATIONS OF EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. NO PERSON IS AUTHORIZED TO MAKE ANY REPRESENTATION OR WARRANTY ON BEHALF OF THE MANUFACTURER OR ANY OF ITS DISTRIBUTORS OTHER THAN SET FORTH IN THIS MANUFACUTRERS WARRANTY. YOUR RIGHT TO SERVICE AND REPLACEMENT OF PARTS ON THE TERMS EXPRESSLY SET FORTH HEREIN ARE YOUR EXCLUSIVE REMEDIES AND NEITHER THE MANUFACTURER NOR ANY OF ITS DISTRIBUTORS SHALL BE LIABLE FOR DAMAGES WHETHER ORDINARY, INCIDENTAL OR CONSEQUENTIAL.

Bidder Complies YES_____ NO_____

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PAINT WARRANTY

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, The ambulance manufacturer Ambulance provides the following warranty to the Buyer:

Coverage:	Exterior surfaces of the body shall be free from blistering, peeling, corrosion or any other adhesion defect caused by defective manufacturing methods or paint material selection.
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Ten (10) Years
Conditions and Exclusions:	This limited warranty is applicable to the vehicle in the following percentage costs of warranty repair, if any:
See Also: Paragraphs 2 thru 4	Topcoat Durability & Appearance: Gloss, Color Retention & Cracking 0-72 months 100% 73-96 months 50% 97-120 months 25% Integrity of Coating System: Adhesion, Blistering/Bubbling 0-36 months 100% 37-84 months 50% 85-120 months 25% Corrosion: Dissimilar Metal and Crevice 0-36 months 100% 37-48 months 50% 49-72 months 25%

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73-120 months 10%

Corrosion Perforation

0-120 months 100%

This limited warranty applies only to exterior paint. Paint on the vehicle's interior is warranted only under the Basic One Year Limited Warranty.

Items not covered by this warranty include:

- (a) Damage from lack of maintenance and cleaning (proper cleaning and maintenance procedures are detailed in the Pierce operation and maintenance manual).
- (b) UV paint fade.
- (c) Any cab not refinished by The ambulance manufacturer.

This limited warranty shall apply only if the product is properly maintained in accordance with The ambulance manufacturer's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify The ambulance manufacturer or their dealer/representative in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, The ambulance manufacturer makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by the vendor, including but not limited to commercial chassis, medical equipment, and generators; with respect to all such parts, components, attachments and accessories, the ambulance manufacturer shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance,

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accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than The ambulance manufacturer which, in the sole judgment of the ambulance manufacturer, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. The ambulance manufacturer assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by the ambulance manufacturer.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the ambulance manufacturer Customer Service Department; or (b) at a facility which has not been approved by the ambulance manufacturer as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of the ambulance manufacturer may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY THE AMBULANCE MANUFACTURER. THE AMBULANCE MANUFACTURER HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY.

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify The ambulance manufacturer within the time period specified in paragraph 1, and shall make the product available for inspection by The ambulance manufacturer or its designated agent. At the request of the ambulance manufacturer, any allegedly defective product shall be returned to the ambulance manufacturer by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, the ambulance manufacturer shall repair or replace (at the ambulance manufacturer's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by the ambulance manufacturer. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

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4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES.

Notwithstanding anything to the contrary herein or in any agreement between The ambulance manufacturer and Buyer, IN NO EVENT SHALL THE AMBULANCE MANUFACTURER BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY THE AMBULANCE MANUFACTURER, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER THE AMBULANCE MANUFACTURER HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, The ambulance manufacturer specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to the ambulance manufacturer Basic One Year Limited Warranty for such vehicle, and not to other warranties made by The ambulance manufacturer in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than The ambulance manufacturer) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.

Bidder Complies YES _____ NO _____

VMUX WARRANTY

Warranties: The Vehicle Multiplex (V-MUX[®]) system of Weldon Technologies, Inc. when installed correctly is warranted against mechanical, electrical and physical defects for the period defined in the attached/following table. The period is defined as the date of manufacture from Weldon; each V-MUX[®] carries its own date of manufacture.

This warranty is valid only for those Manufacturers that have completed and received VCS (V-MUX Certified Supplier) Level 1 or Level 2 (see page 4).

Without VCS, WTI offers a 30-day parts-only warranty on all V-MUX hardware.

Weldon will correct by repair or replacement, at its option, equipment or parts which fail because of

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mechanical, electrical or physical defects, provided that the goods have been properly handled and stored prior to installation and properly installed and properly operated after installation. Buyer must provide Weldon written notice (RGA) of such defects after delivery of the goods to Buyer. All products to be returned for repair or replacement must be authorized by Weldon Technologies Inc prior to their return. Weldon will issue a RGA number that must be clearly marked on the exterior of the box and associated packing slip. WTI reserves the right to access a \$50.00 no-fault-found fee on any product returned to Weldon as defective and found to be fully functional. The Buyer must supply; model number, serial number and failure mode to Weldon when requesting an RGA. Weldon may examine any goods upon which a claim is made in the same condition as when defect therein is discovered, and may require the return of the goods to establish any claim.

Weldon's obligation under this is warrant is limited to making repair or replacement within a reasonable time after receipt of such written notice and does not include any other costs such as the cost of removal of defective part, installation of repaired product, labor or consequential damages of any kind, the exclusive remedy being to require such parts to be furnished. Weldon's liability under no circumstances will exceed the contract price of goods claimed to be defective. Any returns under this guarantee are to be on a transportation charges prepaid basis.

Part Numbers	Parts Period	Weldon Parts Labor Period
6000-0000-02 or -03 Hercules	5 years	5 years
6010-0000-00 Mini 4x12	5 years	5 years
6020-0000-00 Mini 16	5 years	5 years
6231-XXXX-XX		
Internal Displays	**1 year	5 years
Internal Electronics	5 years	5 years
**Display parts will be no charge for 1st year and limited to a maximum of \$265.00 for years 2-5. Labor is cover for five years.		
6300-XXXX-XX Switch Panels	5 years	5 years
6400-0000-00 Gateway Node	5 years	5 years
0R80-0614-00 Shunt interface Module	1 year	1 year
0U10-0715-00 VFD 2 Line Display	*1 year	5 years
0R13-0614-00 Temp sensor	30 days	30 days
611X-0000-00 Transceiver Serial or USB	1 year	1 year

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613X-0000-00 Diag Kit, Serial or USB	1 year	1 year
Cables or other accessories	30 days	N/A

¹ Weldon Repair Parts Labor Period is defined as the labor provided by Weldon's service department to repair/replace the returned device. This does not reflect the labor to remove/replace any such devices, nor indicate Weldon accepts any responsibility for such removal, replacement or troubleshooting of said devices.

Warranty Repairs: EMS or fire apparatus operators requiring warranty repairs on the Vehicle Multiplex (V-MUX) System of Weldon should contact the vehicle manufacturer's customer service or other appropriate dept for service/warranty repairs. All repairs and / or exchanges performed on the V-MUX System must be routed through and coordinated by the vehicle Manufacturer utilizing Weldon's RGA process.

THIS IS WELDONS SOLE GUARANTEE AND WARRANTY WITH RESPECT TO THE GOODS; THERE ARE NO EXPRESS WARRANTIES OR WARRANTIES OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY IMPLIED WARRANTIES OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY IMPLIED WARRANTIES OTHER THAN THOSE MADE EXPRESSLY HEREIN. ALL SUCH WARRANTIES BEING EXPRESSLY DISCLAIMED.

Limitation of Liability: Neither Weldon nor its suppliers shall be liable, whether in contract, warranty, failure of a remedy to achieve its essential purpose, tort including negligence, strict liability, indemnity, or any other legal theory, for loss of use, revenue or profit, or for cost of capital or of substitute use of performance, or for indirect, special, liquidated, incidental or consequential damages, or for any other loss or cost of a similar type, or for claims by Purchaser for damages of Purchasers customers.

Patents: Weldon shall pay costs and damages finally awarded in any suit against Purchaser to the extent based upon a finding that: the design or construction of the goods as furnished infringes a United States patent (except infringement occurring as a result of incorporating a design or modification at Purchasers request), provided that Purchaser promptly notifies Weldon of any charge of infringement, and Weldon is given the right at its expense to settle such charge and to defend or control the defense of any suit based upon such charge.

THIS PARAGRAPH SETS FORTH COMPANYS ENTIRE LIABILITY WITH RESPECT TO PATENTS.

Governing law and Assignment: The laws of the State of Ohio shall govern the validity, interpretation, and enforcement of this contract. Assignment may be made only with written consent of both parties.

At the OEM level:

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WTI offers two levels of certification for the OEM (original equipment manufacturer):

VCS (V-MUX Certified Supplier Program) Level 1.

To obtain VCS 1, an OEM must:

Send at least two electrical design qualified individuals through WTI's two-day class.
This class will consist at a minimum of:

1 hour of V-MUX electrical system overview
10 hours of V-MUX System Designer™ software training
1 hour of multiplex node Downloader software training
3 hours of vehicle Diagnostics software and troubleshooting training 1 hour of on-site support for V-MUX test apparatus fabrication

Host WTI provided production-level electrical training, (may be concurrent with above training) consisting at a minimum of:

1 hour of V-MUX electrical system overview
3 hours Diagnostics/Downloader software training with Diagnostics tools 1 hour of general electrical troubleshooting training.

Certified VCS 1 OEMs will have the ability to design, build, and service a V-MUXed electrical system.

VCS Level 2.

To obtain VCS 2, an OEM must:

Obtain VCS 1 level training. This can be concurrent with VCS 2 training.
Set up with WTI an end-user customer support system. (Manuals, internet, etc...) o Provide dealer and/or service-level training, consisting at a minimum of:

1.5 hours of V-MUX electrical system overview
1 hour of Downloader software training 2 hours of Diagnostics training
WTI approved basic computer literacy training/test for at each service center.
At least one active person per service center must pass the computer literacy test.
Distribution of V-MUX Diagnostic software and troubleshooting tools Annual refresher training.

Certified VCS 2 OEMs will have VCS 1 abilities plus the ability to provide to end users a robust V-MUX support system. For each end user an overview class will be conducted by the OEM or Dealer that covers the location of V-MUX nodes in their vehicle, on-board diagnostic messages, basic troubleshooting, and support. The end user should also test completely any V-MUXed vehicle before taking delivery. VCS 2 certification is annual and subject to annual reviews by WTI.

Bids Due NO LATER than 3 pm EDT, Monday June 12, 2012.

Delta Township Fire Department Ambulance Bid Specifications

At the Dealer and Service Network Level:

WTI offers two levels of certification for the dealer and service network:

VCSS (V-MUX Certified Service Supplier) Level 1. To obtain VCSS 1, dealer/service center must:

Provide WTI approved V-MUX service training for a minimum of 50% of the individuals responsible for electrical repair and troubleshooting. This training class will consist of a minimum of:

1.5 hours of V-MUX system overview

1 hour of Downloader software training

4 hours of Diagnostics/troubleshooting training with Diagnostics tools WTI approved basic computer literacy training/test. At least one VCSS 1 trainee per service center must pass the computer literacy test.

Certified VCSS 1 center will have the tools and ability to efficiently service a V-MUX electrical system.

VCSS (V-MUX Certified Service Supplier) Level 2. To obtain VCSS 2, dealer/service center must:

Provide VCSS 1 level training for all of the individuals responsible for electrical repair and troubleshooting within their organization. At least two VCSS 1 trainees per service center must pass the computer literacy test.

Set up with the OEM or WTI an end-user customer support system. (Manuals, etc...) o Participate in or coordinate a training class for end-users, which must include at least:

V-MUX system overview

V-MUX system documentation review: Wiring schematics

Complete vehicle electrical input/output documentation

Location of V-MUX hardware on vehicle

Review of all diagnostic messages available from installed system Review top-level troubleshooting practices

Review complete vehicle functional and system specification

Discuss availability of V-MUX diagnostic software and troubleshooting tools

Certified VCSS 2 centers will have VCSS 1 abilities plus robust capability to support and train V-MUX end users to become self-sufficient in basic V-MUX troubleshooting. VCSS 2 certification is annual and subject to annual reviews by WTI.

Bidder Complies YES _____ NO _____

Bids Due NO LATER than 3 pm EDT, Monday June 12, 2012.