



REQUEST FOR PROPOSAL

The Town of Derry and the Derry Fire Department

Seeks Proposals for: New Type I Medium Duty Ambulance

ACCEPTANCE DEADLINE: February 22, 2016 by (2:00 p.m.)

RFP COORDINATOR: Robert Atwater, Lieutenant
603-432-6121 ext 4001
robertatwater@derrynh.org

SEALED ENVELOPES MUST BE MARKED: RFP- Ambulance Bid
Attention: Robert Atwater, Lieutenant

BID DELIVERY:

Bids may be mailed to Derry Town Administrator, 14 Manning Street, Derry, NH 03038, or hand delivered to the Town of Derry Municipal Center, Administrative Office - 3rd Floor, 14 Manning St. Derry, NH 03038.

INTRODUCTION:

The intent of the Town of Derry (Town) Fire Department is to obtain the best possible terms and prices for purchasing a new Type I Medium Duty ambulance. The bid is to include all equipment and components as listed in provided specifications.

INSTRUCTIONS TO BIDDERS:

Competition Intended:

It is the Town's intent that this RFP shall permit competition. It shall be the bidder's responsibility to advise the Town in writing if any language, requirement, specification, etc., or any combination thereof, inadvertently restricts or limits the requirements stated in this RFP to a single source. Such notification must be received by the RFP Coordinator not later than ten (10) days prior to the date set for proposals to close.

Inquiries:

Inquiries pertaining to the Request for Proposal must cite New Type I Medium Duty Ambulance as the RFP title and acceptance date and be directed to the RFP Coordinator.

Submission of Bids:

Pricing must be inclusive, clear, and concise, including such other information as requested or required. Be sure the proposal container is completely and properly identified. The face of the container shall indicate the title of the RFP and the acceptance date and time. Proposals must be received by the Town BEFORE the hour specified on the acceptance date.

Firm Pricing for Town Acceptance:

Bid price must be firm for Town acceptance for (90) days from acceptance date of proposals.

Late Proposals:

At the Town's discretion, LATE proposals received after acceptance deadline may be returned to the bidder UNOPENED, provided there is a return address on the container.

Basis for Award:

Contract award will be made to the lowest responsive and responsible bidder that meets the specifications contained herein on a total cost basis, with terms viewed as most favorable to the Town of Derry. An award will only be made after careful evaluation of all submitted proposals and satisfactory negotiation of a final contract.

Negotiation with the Lowest Responsible Bidder:

Unless all proposals are cancelled or rejected, the Town reserves the right to negotiate with the lowest responsive, responsible bidder to obtain a contract price within the funds available. Negotiations with the bidder may include both modifications of the proposal price and the specifications/scope of work to be performed.

Reservation of Rights:

The Town of Derry reserves the right to reject all or any part of any or all proposals, to waive technical or legal deficiencies, and to accept any proposal that it deems to be in the best interest of the Town.

References:

The proven durability and reliability of this product is of the utmost concern. Each bidder submitting a proposal must furnish references consisting of the names of Departments or agencies

that have purchased their ambulances. These ambulances are to be of similar chassis, make, and conversion. All references shall include owner, address, contact name and phone number, and the model owned. A minimum of five (5) references shall be provided.

Quotations to be F.O.B. Destination:

QUOTE F.O.B. destination for all competitive proposals. If otherwise, show exact cost to construct and deliver. Include as required any set up, installation, and delivery costs in pricing.

Proprietary Information:

Trade secrets or proprietary information submitted by a bidder in connection with this solicitation may not be subject to disclosure under New Hampshire law under the provisions of NH RSA 91A; however, the bidder must invoke the protections of this section prior to or upon submission of the data or other materials, and must clearly identify the data or other materials to be protected and state the reasons why protection is necessary. Bidders shall not mark sections of their proposal as proprietary if they are to be part of the award of the contract and are of a "Material" nature.

Authority to Bind Firm in Contract:

Bids MUST give full firm name and address of bidder. Failure to manually sign a bid may disqualify it. The person-signing bid should show TITLE or AUTHORITY TO BIND HIS FIRM IN A CONTRACT. Firm name and authorized signature must appear on bid in the space provided in the lower right hand corner of the pricing page(s). Bidders must be an authorized representative of the equipment manufacturer for equipment presented in the proposal.

Correction or Withdrawal of Bids and Cancellation of Awards under Competitive Sealed Bidding:

Correction or withdrawal of inadvertently erroneous proposals before or after award, or cancellation of awards or contracts based on such proposal mistakes, shall be permitted at the Town's discretion. After acceptance of proposals, no changes in proposed prices or other provisions of proposals prejudicial to the interest of the Town or fair competition shall be permitted. Except as otherwise provided by regulation, all decisions to permit the correction or withdrawal of bids, or to cancel awards or contracts based on errors or omissions, shall be supported by a written determination made by the Town Administrator or his/her representative. No proposal may be withdrawn when the result would be to award the contract on another proposal of the same bidder or of another bidder in which the ownership of the withdrawing bidder is more than five percent. If a proposal is withdrawn, the lowest remaining proposal shall be deemed to be the low proposal. If the Town Administrator or a designee of such denies the withdrawal of a proposal, he shall notify the bidder in writing stating the reasons for his decision.

Condition of Items:

All items proposed for the construction of the ambulance shall be new, in first class condition, unless otherwise disclosed and so indicated in the proposal. Verbal agreements to the contrary will not be recognized.

Prohibition as Subcontractors under Competitive Bidding:

No bidder who is permitted to withdraw a proposal shall, for compensation, supply any material or labor to or perform any subcontract or other work agreement for the person or firm to whom the contract is awarded or otherwise benefit, directly or indirectly, from the performance of the project for which the withdrawn proposal was submitted.

Deviations from Specifications:

If there is any deviation in the source, quality, etc. of any item proposal from that prescribed in the specifications, the appropriate line in the specifications shall be ruled out and the substitution clearly indicated. The Town reserves the right to determine the responsiveness of any deviation.

Descriptive Literature:

All bids shall include descriptive literature on each item being offered. Failure to include this information with your bid may result in the entire bid being considered unresponsive. The detailed specification described in this RFP is for a new ambulance that is expected to be acquired by this purchaser. The specification describes the needs of this purchaser as far as chassis configuration and module body design. A state of the art vehicle is required. However, manufacturers that utilize prototype equipment or manufacturing processes will not be considered. The builder's manufacturing history shall be supported by documentation where applicable, and by the reference section within this specification. The benchmark for the Initials configuration of this ambulance shall be the 2016 NFPA 1917 Standard for Automotive Ambulances

However, most requirements in this specification exceed the federal specifications because of the specific needs of this purchaser. Please note that the following specifications represent minimum general terms or requirements. While it is not the intent of this purchaser to preclude any qualified bidder from submitting a proposal it must be clear that any bidder deviating in any substantial manner from these specifications will be rejected as being non-compliant.

Notice of Acceptance:

A Notice of Acceptance/Determination will be provided to all bidders within 10 business days of acceptance of proposal. The Town reserves the right to invite only the vendors most closely meeting the terms of RFP specifications to participate in the demonstration phase of the acceptance of proposals. Acceptance does NOT mean award of contract. Award of contract will only occur after successful demonstration of offered equipment with on-site evaluation by users. Notice of Award will be served only to those vendors participating in the demonstration phase of the acceptance of proposals.

Legal Notice:

The Town of Derry is currently seeking bids for a new type III ambulance. The bid is to include all equipment and components as listed in provided specifications.

Bid specifications can be obtained from the Town's web site at www.derrynh.org. All submissions are due by Monday, February 22, 2016 (2:00 p.m.). Bids may be either mailed or hand delivered to Derry Town Administrator, Derry Municipal Center, 14 Manning Street, Derry, NH 03038. The Town of Derry reserves the right to reject any or all bids on any basis and without disclosure of reason.

**SECTION ONE
MINIMUM BID SPECIFICATIONS:**

Information to be submitted with Proposal: The information requested within this bid must be furnished in full. Any bidder not completing this proposal or not furnishing any required information will not be considered. If a bidder will not furnish a material or fabrication process exactly as described in this specification, then that difference must be designated in the list of exceptions. If a substitution is being proposed, then the bidder must note the section to which the alternative is being proposed and provide technical data, supported by a registered engineer, supporting the fact that the substitute is equal to or better than the item as specified. If this data is not submitted with the bid, then the bid shall be rejected as being non-compliant. Bidder added narrative describing a substitution as being a “clarification,” “exceeding,” being “equal to,” etc. will not be accepted. Statements such as these, with or without the technical data described in this section, will cause the bid to be rejected as being non-compliant. This purchaser reserves the right to require samples of any deviating material to be provided for evaluation.

Does the bidder comply with these requirements?

Yes_____ No_____ Initials: _____

In the event that the bidder represents more than one ambulance manufacturer meeting the manufacturer requirements outlined herein, then the bidder shall only bid the highest quality vehicle that the bidder represents. Under no circumstances will multiple bids from the same bidder on different manufacturers be accepted. Should a bidder submit two or more bids representing more than one manufacturer, then all bids submitted by that bidder will be rejected as being non-compliant with the requirements of this specification. This purchaser is seeking quality equipment. Bidders are asked to bid only the product of the highest level of quality represented by that bidder.

Is this requirement understood and met?

Yes_____ No _____ Initials: _____

Directions for Responding to Each Section:

Individual sections of the specification may be followed by three (3) response lines. The lines shall read as follows:

Above section bid exactly as written. _____

Section not provided by bidder. _____

Bidder is offering an alternative to this section. _____

On the line to the right of each statement, the bidder shall mark an ‘X’ to signify the appropriate response. If a bidder is offering an alternative to the written section, then exception must be taken for the section. The exception must be accompanied by data supported by a registered engineer to demonstrate the equivalency of the alternate item. The bidder shall note that the data submitted must correspond with the substitutions offered. If the data submitted does not cover all substitutions offered, then the bid shall be rejected as being non-compliant.

Does the bidder understand this requirement?

Yes _____ No _____ Initials: _____

Exceptions to Specifications:

Exceptions to specifications shall be clearly documented and provided with bid proposal. All exceptions taken shall be recorded per the guidelines defined below. Each exception shall be noted by page number and item header. The bidder shall use additional paper as necessary to document exceptions.

Each bidder shall utilize the following format for any **EXCEPTIONS to the REQUEST FOR PROPOSAL**. Each bidder shall ensure that each page is numbered.

1. Page #:
2. Header:
3. Exception:

Specification the 2016 NFPA 1917 Standard for Automotive Ambulances: Vehicle must meet or exceed **the 2016 NFPA 1917 Standard for Automotive Ambulances**. The bidder will be required to submit testing certificates prior to delivery. Failure to submit the required certificates if requested may result in rejection of the completed vehicle.

Qualifications of Ambulance Manufacture:

The town will not accept proposals to build this ambulance from ambulance manufacturers whom have not been building ambulances for at least 10-years. The local ambulance dealer shall only submit a proposal for one type/brand of ambulance. The type/brand proposed shall be of the highest quality in relation to materials utilized and workmanship.

The Derry Fire Department is seeking a custom designed, new vehicle. Demonstrator units will not be accepted and vendors shall not submit bids for demonstrator units.

Service Requirements:

The Derry Fire Department requires the successful bidder to provide **MOBILE SERVICE** to the station/service bay that the ambulance is housed when the ambulance is in need of service. Bidders are required and will be held responsible to provide **MOBILE SERVICE** for the warranty period. The Department will not provide transportation of the ambulance to the bidder's place of business for the length of the warranty period.

The successful bidder will have the ability to perform service at a Fixed Repair Facility in New England.

Major Vehicle Damage will be repaired at the bidder's facility or at the ambulance builder's factory as requested by the Derry Fire Department. The Derry Fire Department may require major vehicle damage to be repaired at the original manufacturing facility.

Proposal Drawings:

Each bidder shall supply proposal drawings with the following views:

1. Exterior Front View
2. Side Views
3. Rear View
4. Interior Street Side
5. Curbside
6. Front Bulkhead View

Liability:

Bidders shall submit proof of liability insurance. A Certificate of Insurance shall be provided to the Town of Derry by the Insurance Company representing the ambulance builder. The insurance binder will include terms and amount of the insurance. The Derry Fire Department will evaluate the insurance binder for accuracy.

Contract Agreement:

The bidder will be required to sign a contract approved by the Derry Fire Department prior to final award of the bid.

Design and Preconstruction Approval:

The bidder and department shall conduct a pre-order review in which the final vehicle approval shall occur.

Construction Period Inspection and Review:

The bidder shall include one factory inspection trip for (2) department members to include airfare, rental car, meals and lodging. Air travel shall be from Manchester or Boston.

Delivery and Training:

The successful bidder will provide one company representative for a minimum of (4) hour per shift for the purpose of training all shift members on vehicle familiarization. The Derry Fire Department has four duty shifts. In the event of weather or multiple call delays, the bidder will provide alternate training of the same duration on another consecutive day(s).

Terms of Acceptance:

The Derry Fire Department will conduct acceptance testing which will include the operation of all vehicle systems prior to final payment. Vehicle design flaws and mistakes shall be repaired and/or replaced prior to final payment as acceptable to the Derry Fire Department.

Proposal Submission:

Proposal price shall be valid for a period of 90-days from bid submission.

Warranty:

Each bidder shall include a copy of the bidder's warranty package.

Non-Collusion Bid Certificate:

The bidder shall submit a certificate and/or letter certifying non-collusion.

Manuals:

Each bidder shall submit a hard copy and an electronic copy of the bidder's manual. If the bidder does not utilize an electronic version, (2) hard copies will be supplied.

Critical Design Features:

Each proposed vehicle submitted shall conform to all accepted testing standards as required by the **2016 NFPA 1917 Standard for Automotive Ambulances**. No bidder will submit information, which indicates any information about CRASH or SLED Testing. No Nationally Recognized Testing Standard exists to validate those tests.

SECTION TWO
MINIMUM REQUIRED STANDARDS

Minimum Required Standards:

The highest degree of quality, both in the materials and in craftsmanship, is required for this ambulance being proposed. At a minimum, the manufacturer must meet all current mandated and voluntary ambulance design standards in effect at the date of the proposal submission. All current Federal Motor Vehicle Safety Standards (FMVSS), National Truck Equipment Association (NTEA) Standards, Ambulance Manufacturers Division (AMD) Standards, and Qualified Vehicle Modifiers (QVM) Standards, must be met, as well as **the 2016 NFPA 1917 Standard for Automotive Ambulances.**

Date_____Initials: _____

The Town of Derry prefers that the primary manufacturer be ISO 9001:2000 certified, but it is not required. If applicable, the bidder can state the date of and provide to the purchaser a copy of their current ISO 9001:2000 certificate.

Date_____Initials: _____

Single Source Manufacturer:

To simplify warranty coverage and to assure a consistent level of quality throughout the vehicle, a manufacturer is desired that manufactures the major components for the ambulance (excluding the chassis). Major components are defined as including the module body, the aluminum interior cabinets, and the converter-added electrical wiring system. This purchaser understands that manufacturers may purchase some elements, such as switches, boards, etc. with which to manufacture a system. This requirement is addressed elsewhere within this specification where the specific defined items are located. Manufacturers who outsource any of the above-referenced components shall be considered non-responsive and will be rejected.

Bidder states that the represented vehicle builder manufactures all of the major components as defined above:

Yes_____ No_____ Initials: _____

Component Manufacturer (by company name):

Modular Body:

Interior Cabinets:

Quotation:

The overall quotation shall include a firm price for a vehicle meeting these specifications. The length of time that the price will be held shall be clearly stated in the quotation. The quotation shall

include a specific delivery window based on the number of calendar days following the award of the contract. The model year of both the chassis and the conversion shall be clearly stated in the contract.

Warranty:

The proposal shall include all warranties that are required in the following detailed specification. “Lifetime” warranties will not be accepted because of their unclear nature of duration. All warranties must have specific MINIMUM time durations and shall define warranties on specific components. The minimum acceptable warranty periods are noted below. In the blank lines, the bidder shall note the terms of the warranties that apply to the manufacturer being proposed.

Modular Body Structural Warranty: MINIMUM 15-Years/Unlimited Miles

Proposed Warranty Term: Year(s) _____ Miles _____ Initials: _____

Note: The structural warranty, as noted in the structural section of this specification, will include the module doors, continued module body door alignment, and all interior cabinet construction. It shall also be extended on 5-year intervals in the event that the body is placed on a new chassis provided that 1, the rechassis is performed by the original manufacturer, 2, the structural warranty has not expired at the time of the rechassis, and 3, this purchaser approves any structural repairs at the time of the rechassis. These terms and conditions must be explicitly stated in the manufacturer’s warranty certificate.

Does the structural warranty proposed comply with the above-stated terms and conditions?

Yes _____ No _____ Initials: _____

Electrical Warranty: MINIMUM 6-years/72,000 Miles

Proposed Warranty Term: Year(s), _____ Miles _____ Initials: _____

Paint Warranty: MINIMUM 6-Years/72,000 Miles

Proposed Warranty Term: Year(s), _____ Miles _____ Initials: _____

For verification of the completed warranty, terms stated above the bidder must include printed manufacturer’s warranty certificates that meet or exceed the minimum required periods stated above.

Are the manufacturer’s warranties included? Yes _____ No _____ Initials: _____

Warranties shall not be pro-rated in any manner and shall be transferable for their duration. All warranties shall be from the manufacturer as opposed to a distributor or service center. This is necessary for the protection of the purchaser and to guarantee a certain known level of service and warranty. If, however, the bidder feels that it is necessary to modify the manufacturer’s warranties,

Finally, a manufacturer is desired that has an ongoing testing program. The testing, as described above, shall be current and shall have been conducted on a continuous basis for a period of time not less than ten 10-years. Therefore, the bidder is required to answer the following questions, Initials the response to confirm that the question is understood and answered truthfully.

How many total sled tests has your company performed? _____ Initials: _____

What was the date of the last test? _____ Initials: _____

Has this specified body construction method been tested? Yes_____ No_____ Initials: _____

If not, what body construction method was tested? _____ Initials: _____

Has the testing program been in place for a period of at least ten (10) years?
Yes_____ No_____ Initials: _____

If the program has not been in place for at least ten 10-years, then how long has the testing program been in place? _____ Initials: _____

Note: This requirement is in addition to the current minimum **the 2016 NFPA 1917 Standard for Automotive Ambulances**. Requirements do not suffice as a substitute for this requirement as they do not address impact crash testing. It should also be noted that neither photographs of vehicles involved in accidents of accident damage suffice to fulfill this requirement. This requirement will be fulfilled only when testing verification, signed by an accredited independent engineer, is furnished with the bid. The testing being described takes place in a controlled environment where meaningful data can be collected and used to further the design and safety of the vehicle. Actual accidents present too many variables that hinder the collection of meaningful data. Bidders who submit photographs or written observations from customers or manufacturer's representatives should note that such information is considered invalid and will not be a factor in the purchase decision.

Does the bidder understand these requirements? Yes_____ No_____ Initials: _____

If the bidder does not perform sled testing, then the bidder is asked to take exception to this requirement so that the purchaser may evaluate bids on a legitimate basis. Bidders not taking exception shall have all appropriate documentation, as described above, included with the proposal. Bidders who do not take exception, and who do not include all appropriate documentation will be considered non-responsive and will, therefore, be rejected. This also applies

to any subsequent sections of this specification that require sled testing where the bid response indicates that no exception has been taken.

Does the bidder understand this requirement? Yes_____ No_____ Initials: _____

Liability:

The bidder shall defend, indemnify, and save harmless the purchaser and its officials from all claims, demands, payments, suits, actions, recoveries and judgments of every description, whether or not well founded in law, brought or recovered against it, by reason of any act or omission of said bidder, his agents or employees, in the execution of the contract or in consequence of insufficient protection or for the use of any patented invention by said bidder, and a sum sufficient to cover aforesaid claims may be retained by the purchaser from money due or to become due to the bidder under this contract, until such claims have been discharged or satisfactorily secured. Each bidder must furnish a Certificate of Insurance showing aggregate total of insurance, which shall not be less than twenty-five million dollars (\$25,000,000).

Certificate of Insurance included with proposal? Yes_____ No_____ Initials: _____

In addition, the bidder is to assume any risk of loss to the ambulance until the ambulance is delivered to this purchaser.

Does the bidder understand this requirement? Yes_____ No_____ Initials: _____

Delivery Process:

The vehicle shall be delivered over the road to the purchaser. Delivery shall be stated in number of calendar days in negotiated contract. The purchaser has the right to reject the vehicle if it does not conform to these specifications to the satisfaction of the purchaser.

Does the bidder understand this requirement? Yes_____ No_____ Initials: _____

SECTION THREE
SPECIFICATIONS FOR A CUSTOM BUILT TYPE III AMBULANCE

(A) One (1) 2015/16 TerraStar 4X2 Type I Ambulance **or**

(B) One (1) 2015/2016 Ford F550 4x4 Type I Ambulance

(C)

Dimensions Minimum of: 183.0” Patient Module, 72.0” Interior Headroom, 95.0” Wide

Specification Design:

The following specifications were created by the purchaser in order to best describe a need. However, it is not the intent of the purchaser to exclude any manufacturer from submitting a bid on these specifications. In many places, required equipment or features are identified by brand name. The bidder shall note that the use of brand names within this document is meant to describe a required level of quality or performance. The bidder may substitute equipment or features provided that the substitutions meet the intent of the specification. The bidder shall note, however, that substitute components shall be included in the list of exceptions. Exceptions should be listed per the following bid completion requirements.

Deviations from Specifications:

If there is, any deviation in the part, source, quality, etc., of any item bid from that prescribed in the specifications, the appropriate line in the specifications shall be ruled out, and the substitution clearly indicated. The Town reserves the right to determine the responsiveness of any deviation.

CHASSIS REQUIREMENT – Option A

3-a Chassis/Cab

- **Chassis Make and Model:** One (1) 2015/16 TerraStar 4X2, 2-Door Regular Cab
- **Engine:** 6.6L Dura Maxforce-7 V-8 Turbo Diesel
- **Transmission:** Allison 1000, 5-Speed Electric
- **High Idle Switch:** UF3 high idle switch shall be mounted in the cab.
- **Air Conditioning:** The connections for the rear air conditioner shall be made to the OEM tie in points specifically designed for an intermediate or final stage manufacturer.
- **Chassis Wheel Base Minimum Dimensions:** 183.0” WB with 109.0” cab to axle.
- **Emission:** Federal compliant.
- **Front Suspension:** The front suspension shall be a 7,000-pound taper leaf style suspension with stabilizer.
- **Front Axle:** The front axle shall be option FM7, 7,000 lb. Capacity, I-Beam Wide Trac. It shall include up to 53 degrees turn angle and (4)-piston brakes apply calipers.
- **Traction Control:** The Rear Axle shall include option G80 for Rear Limited Slip Differential, required with YF2 Ambulance Package.
- **Rear Axle Speed:** Single Speed Rear Axle for 13,500 lb. capacity. Full floating includes (2)-piston brake applied calipers.
- **Gross Vehicle Weight Rating (GVWR):** The GVRW of the chassis supplies shall be at least 19,500 pounds.
- **Air Compressor:** The chassis shall have option Bendix Trueflow 550 Air Compressor.

- **Alternator:** Leece-Neville Single -320 amps.
- **Engine Block Heater:** 1000-watt 12-volt DC engine block heater package.
- **Engine Shut Down:** Option with automatic alarm.
- **Air Ride Suspension:** Monroe Air Suspension. May accept hydraulic alternative.
- **Dump Activation:** A front console, rear interior compartment filler and a trailing door dump switches shall be included in the vehicle.
- **Dump Enable Switch:** A dump enable switch shall be included in the electrical system.
- **Dump Activation Indicator Light and Interlock Switch:** When the suspension system is dumped, the vehicle transmission will not move out of Park. An indicator light will be included on the dash, Red in color to indicate when the suspension is dumped. The department may also require a warning buzzer to indicate when the suspension is dumped and sound until 50% of raised position is achieved. A disable switch will be located on inside of right rear door to disable system when left door is opened.
- **Exhaust System Exit:** The exhaust system shall exit to the curbside of the vehicle just forward of the dual rear wheels. The exhaust system shall be fitted with a Plymovent Backer Plate. The backer plate set back shall be 5-inches.
- **Fuel Tank:** Single 40-gallon
- **Rear Axle Ratio:** 4.56:1 rear axle ratio that requires diesel engine and HD2 rear axle option.
- **Front Tire Tread:** The front tires shall be Highway Tread Pattern.
- **Front Tires:** 225/70R19.5F Michelin or equivalent
- **Front Wheels:** The front wheels shall be steel 19.5" x 6.75", 8-hole, hub piloted, with 275 mm, flange nut. Shall furnish chrome wheel simulators.
- **Rear Tire Tread:** The rear tires shall be Traction Tread (mud & Snows).
- **Rear Tires:** 225/70R19.5F Michelin or equivalent
- **Rear Wheels:** The rear wheels shall be steel 19.5" x 6.75", 8-hole, hub piloted, with 275 mm, flange nut. Shall furnish chrome wheel simulators.
- **Tire Valve Extensions:** The tire valve extensions shall take into account steel wheels and wheel simulators.
- **Batteries:** 700 CCA Heavy Duty Batteries shall be supplied.
- **Cab Equipment:** Air Conditioning Connection Package: OEM tie points must be provided.
- **Exterior Side View Mirrors:** Wide Heated Remote Control Lighted Mirrors.
- **Cab Equipment:** Front Bumper: Chrome V46 Steel
- **Interior Trim Color:** Gray
- **Cab Seats:** Bucket Style Superior Vinyl seats shall be installed in the vehicle. Both seats shall be equipped with armrests.
- **Cab Air Bag:** The driver and passenger shall have a SRS air bag. The passenger's air bag shall not be disabled for any purpose other than by an OEM Key Switch.
- **Heating & Air Conditioning:** There shall be provisions for the rear body heating and air conditioning connections. It enables the heating and cooling of the module up fit.
- **Cab Radio:** Original Equipment Manufacturer
- **Bluetooth™ Capable**

- **Driver Information:** The option shall include an air cleaner restriction gauge; option UPM that has a gauge mounted on the driver’s instrument panel. This option shall also include a transmission temperature gauge;
- **Driver Convenience Package:** The option will include a Driver Convenience Package option that includes Power Door Locks, Power Windows, and a speaker package in each cab door location, which includes tilt wheel and cruise control.
- **External Vehicle Sun Visor** with DOT approved clearance lights to front window.

3-b Chassis

The chassis will be supplied with Front & Rear IPD Sway Bars.

1. Front IPD Sway Bar – 1.5-inch diameter
2. Rear IPD Sway Bar – 1.5-inch diameter

Bidder Response to Chassis Requirements

Above section bid exactly as written _____
 Section not provided by bidder _____
 Bidder is offering an alternative to this section _____

3-c Chassis Warranty:

International Limited Truck Warranty – 24-Months Unlimited Mileage

TerraStar Maxforce7 Engine – 5-Years or 100,000 Miles, \$100.00 deductible after 36-months
Allison Transmission – 3-Years/unlimited mileage
Tire Warranty – Original Equipment Manufacturer
Suspension – Original Equipment Manufacturer – Liquid Shocks

Bidder Response to Warranty Requirements

Above section bid exactly as written _____
 Section not provided by bidder _____
 Bidder is offering an alternative to this section _____

CHASSIS REQUIREMENT – Option B
3-A Chassis/Cab

- **Chassis Make and Model:** One (1) 2015/2016 Ford F-550 4X4, 2 door Regular Cab
- **Engine:** 6.7L Power Stroke Diesel V8
- **Transmission:** 6 speed Torqshift Automatic
- **High Idle Switch:** UF3 high idle switch shall be mounted in the cab
- **Air Conditioning:** The connections for the rear air conditioner shall be made to the OEM tie in points specifically designed for an intermediate or final stage manufacturer.
- **Chassis Wheel Base minimum dimensions:** 201” wheel base
- **Emission:** Federal Compliant
- **Front suspension:** 7000 lb. with stabilizer bar
- **Front Axle:** 7000lb moonbeam
- **Traction control:** as per ambulance prep package
- **GVWR: 19,500 lbs**
- **Air Compressor (if needed for suspension)** Bendix Trueflow 55 Air Compressor
- **Alternator:** minimum 357 Amps
- **Engine Block Heater:** 1000watt 12 volt DC heater
- **Suspension:** Either (a) Monroe air suspension or (b) hydraulic equivalent (provide details in proposal)
- **Dump Activation:** a front console and a trailing door dump switch shall be included
- **Dump Activation Indicator Light and Interlock Switch:** When the suspension system is dumped, the vehicle transmission will not move out of Park. An indicator light will be included on the dash, Red in color to indicate when the suspension is dumped. The department may also require a warning buzzer to indicate when the suspension is dumped and sound until 50% of raised position is achieved. A disable switch will be located on inside of right rear door to disable system when left door is opened.
- **Exhaust System Exit:** The exhaust system shall exit to the curbside of the vehicle just forward of the dual rear wheels. The exhaust system shall be fitted with a Plymovent Backer Plate. The backer plate set back shall be 5-inches.
- **Fuel Tank:** Single 40-gallon
- **Rear Axle Ratio: 4.10 LS**
- **Front Tire Tread:** The front tires shall be Highway Tread Pattern
- **Front Tires:** LT 225/70Rx19.5G BSW traction
- **Rear Tires:** same
- **Front Wheels:** The front wheels shall be steel 19.5” x 6.75”, 8-hole, hub piloted, with 275 mm, flange nut. Shall furnish chrome wheel simulators
- **Rear Wheels:** The rear wheels shall be steel 19.5” x 6.75”, 8-hole, hub piloted, with 275 mm, flange nut. Shall furnish chrome wheel simulators.
- **Tire Valve Extensions:** The tire valve extensions shall take into account steel wheels and wheel simulators.
- **Batteries:** 700 CCA Heavy Duty Batteries shall be supplied.

- **Cab Equipment:** Air Conditioning Connection Package: OEM tie points must be provided.
- **Exterior Side View Mirrors:** Wide Heated Remote Control Lighted Mirrors.
- **Cab Equipment:** Front Bumper: Chrome Steel
- **Interior Trim Color:** Gray
- **Cab Seats:** Bucket Style Superior Vinyl seats shall be installed in the vehicle. Both seats shall be equipped with armrests.
- **Cab Air Bag:** The driver and passenger shall have a SRS air bag. The passenger's air bag shall not be disabled for any purpose other than by an OEM Key Switch.
- **Heating & Air Conditioning:** There shall be provisions for the rear body heating and air conditioning connections. It enables the heating and cooling of the module up fit.
- **Cab Radio:** Original Equipment Manufacturer
- **Bluetooth™ Capable**
- **Driver Information:** The option shall include an air cleaner restriction gauge; option UPM that has a gauge mounted on the driver's instrument panel. This option shall also include a transmission temperature gauge;
- **Driver Convenience Package:** The option will include a Driver Convenience Package option that includes Power Door Locks, Power Windows, and a speaker package in each cab door location, which includes tilt wheel and cruise control.
- **External Vehicle Sun Visor** with DOT approved clearance lights to front window

3-b Chassis

The chassis will be supplied with front and rear IPD Sway bars (or equivalent)

Bidder Response to Chassis Requirements

Above section bid exactly as written _____
 Section not provided by bidder _____
 Bidder is offering an alternative to this section _____

3-c Chassis Warranty:

Ford Limited Truck Warranty – 3 year bumper to bumper
Power Stroke Diesel Engine – 5-Years or 100,000 Miles,
Ford Transmission/Powertrain – 5-Years/60000 miles
Tire Warranty – Original Equipment Manufacturer
Suspension – Original Equipment Manufacturer – Liquid Shocks

Bidder Response to Warranty Requirements

Above section bid exactly as written _____
 Section not provided by bidder _____
 Bidder is offering an alternative to this section _____

SECTION FOUR

MODULAR BODY, EXTERIOR COMPARTMENT AND EQUIPMENT REQUIREMENTS

4-a Modular Body General Construction

Each bidder shall complete the following as to how they intend to build the ambulance module. The department requests that double spacing be maintained for the purpose of evaluating the proposals.

Service Intent:

- Body Member Alloy:
- Body Warranty:
- Structural Integrity:
- Weld Quality:
- Crevice Preparation:
- Side Structure Members:
- Side Impact Rails:
- Side Sheet:
- Corner Post Strength:
- Roof Rail Construction:
- Roof Sheet:
- Roof Bows:
- Lateral Roof Support:
- Roof Corners:
- Floor Members:
- Floor Gussets:
- Full Width Cross Members:
- Cot Fastener Plates:
- Water Tight Patient Cabin:
- Door Skin:
- Door Framing:
- Entry Door Windows:
- Door Panels:
- Door Jamb:
- Door Hinges:
- Door Latches:

Drop Skirt Design:

The department requires a module that has a drop skirt design. The drop skirt design shall be at least (3.0”) forward of the dual rear wheels.

4-b Mounting:

Each bidder shall describe the method utilized to mount the module to the OEM Frame.

Module to Frame Mounting Method:

4-c Module Configuration

Module Length: minimum of 172.0”.

Module Width: minimum of 95.0”.

Module Interior Height (Headroom): minimum of 72.0”.

Overall Length: _____

Overall Height: _____

Door Hold Devices:

1. Grabber Style for rear doors hold open devices.
2. Piston style door hold open devices for Curb Side Entry and compartment door hold open devices.

Door Swing:

The door swing angle shall be at least 100 degrees minimum.

Cab Extensions:

Each bidder will supply a minimum 6.0” Cab Recess.

4-d Compartment Construction:

Each bidder will describe the method utilized for compartment construction.

The department requires that the inside door surface and inside compartment surfaces will be smooth aluminum not diamond plate for application of safety chevron striping.

Compartment door panels will have lock mechanism access panels approved by the department. Frequent door lock mechanism workability is vitally important to the department mechanic. The access panels shall allow for door mechanism workability by removing a small door access panel on the interior door panel. Door access panels that require the removal of a large panel or removal of multiple panels and/or grab rails will not be accepted.

- Material:
- Drain Holes:
- Compartment Floor Configuration:
- Ventilation:
- Curbside Access Door:
- Jamb Protection Plate:
- Door Swing:
- Rear Access Doors:
- Jamb Protection Plate:
- Door Swing:

- Load Height:
- Door Hold Open Devices:

Bidder Response to Body General Construction Requirements

Above section bid exactly as written _____
 Section not provided by bidder _____
 Bidder is offering an alternative to this section _____

4-e Curb Side Entry Area:

Side Step Well:

The department requires that a two-step curb side entry step well to be utilized. The vendor shall supply a removable Grip Strut section on each curbside entry step. The vendor shall also provide drain holes in each recessed section.

Side Step Well Illumination:

The curb side step well shall be illuminated.

4-f Body Protection:

Fuel Fill Housing:

CPI Open Style Fill Housing

Fuel Overfill Protection:

Overfill body protection shall be supplied.

Driver Step:

The drivers step shall not contain any type of battery box. The step shall be traction type surface. The step surface shall not be diamond plate.

Passengers Step:

The passengers step shall not contain any type of battery box. The step shall be traction type surface. The step surface shall not be diamond plate.

Rear Fenders:

The rear fenders shall be aluminum and shall be isolated from the modular body.

Skirt/Rub Rails:

Bidders will not include any form of lighted Skirt/Rub Rails. Skirt or rub rails will be constructed from aluminum diamond plate. Skirt or Rub Rail shall be spaced away from the modular body to allow for un-restricted fluid and debris flow.

Body Corner Protection:

Body corner protection shall be provided and shall be 48.0” in height. The body protection shall be aluminum diamond plate.

Front Module Protection:

Module protection shall be provided between the cab and the body corner protection and shall be 48.0” in height. The body protection shall be aluminum diamond plate. Stainless steel will not be utilized due to potential dissimilar metal corrosion.

Front Cab Step Lights:

The bidder shall supply LED Cab Door Step Lights to be located in each front body corner to illuminate the front cab steps.

Rear Kick Plate:

Polished aluminum diamond plate shall be provided. The kick plate shall be designed to be removed in the event of damage.

Front/Rear Recovery Eyes:

Front and rear tow/recovery hooks shall be provided. The rear tow hooks shall be protected by an aluminum door.

Recessed License Plate/Rear:

The license plate shall be recessed and center mounted above the rear bumper. The license plate shall be lighted. The bidder may offer a side mounted lighted license plate if the flip up bumper section is recessed in to the kick plate area.

Rubber Mud Flaps:

Front & Rear Mud Flaps shall be provided on the vehicle. The mud flaps shall be secured with bolts isolated from the vehicle/modular body.

Bidder Response to Curb Side Entry and Body Protection

Above section bid exactly as written	_____
Section not provided by bidder	_____
Bidder is offering an alternative to this section	_____

4-g Rear Bumper:

Each bidder shall describe the method utilized to build the rear bumper.

Framing:

Diamond Plate Cover/Side Pontoon.

Bumper Depth:

Each bidder shall describe depth of bumper.

Recessed Flip-Up Section/Center Step:

The center section shall have a non-skid type Grip Strut Surface. Rubber dock bumpers on the out edges shall be provided.

4-h Module Body Exterior Compartments, General Requirements:

1. All Exterior Compartments, Curb Side Entry Door and rear Access Door Sills shall be covered with stainless steel sill protection.
2. All compartment aluminum shelves shall be constructed from smooth aluminum and shall have 2.0" lips on the shelf edges.
3. The smooth aluminum thickness shall be (.125) thick.
4. Smooth aluminum shall be utilized for all interior compartment surfaces.
5. The smooth aluminum does not need to have a sanded or brushed appearance, as it will be sprayed with Truck Bed Liner material.
6. All compartment door panels are to be sanded or brushed smooth aluminum.
7. Each compartment door shall have a red reflector installed on the lower and upper section of the compartment door(s). The reflectors utilized shall be round and replaceable at any local parts store.

4-i Left Front Compartment:

1. Single Door
2. Hinge toward the front of the vehicle

The minimum requested dimensions are: 72.0" HR – 85.0" H x 21.0" W x 21.0" D

This compartment must be configured to accommodate the following:

1. (2) Long Back Boards, (1) Scoop Stretcher, (1) Stryker Stair Chair.
2. (2) Fixed Dividers shall be spaced to allow for 10" of space in the center of the compartment. This compartment must allow a Stryker Model #6252 to fit, stored in a vertical position in this compartment. The Stair Chair will be located in the center section of the compartment.
3. (1) Adjustable .125 Aluminum Shelves to be located over the stair chair in the center of the compartment. The area under the shelf shall at least 42" of clear space for the stair chair storage.
4. Black nylon straps with buckles are to be included for the same purpose of securing equipment on each side of the compartment to secure backboards and a scoop stretcher.

LED Jamb Lights: Each compartment shall be illuminated by LED lights.

1. Any shelving or dividers will be sprayed with Truck Bed Liner type material.
2. Backboard Divider System
 - a. A system shall be installed from aluminum channel and door weather stripping to hold backboards in place. The system shall consist of (2) floor mounted sections approximately 12.0" long and 1.5" wide. The back wall of the cabinet shall consist of (2) sections 16.0" long and 1.5" wide. The foot end and the side of the backboard will fit into the center of the divider to hold the device in place. The ambulance builder will ship a complete second set of the system described with the vehicle.

4-j Left Mid Exterior Compartment:

1. Double Doors

The minimum requested dimensions are: 39.5” H x 41.5” W x 20.5” D

This compartment must be configured to accommodate the following:

1. (2) Adjustable .125 Aluminum Shelves.
2. Truck Bed Liner Material – The compartment will be sprayed with Truck Bed Liner type material. Any shelving or dividers will be sprayed with Truck Bed Liner type material.
3. The compartment door to the rear shall open first. The compartment door to the front of the vehicle will be the second door to be opened for access to this compartment.

4-k Left Rear Compartment:

1. Single Door

The minimum requested dimensions are: 58.0”H x 30.0” W x 19.5” D

This compartment must be configured to accommodate the following:

1. The main oxygen cylinder that supplies oxygen to the in-house delivery system shall be mounted in this compartment. The ambulance builder shall supply (3) ratchet style straps for securing the cylinder in place. The ambulance builder shall provide a tank-mounting bracket secure to the ambulance body. The tank will be located in the front corner of the compartment. The oxygen cylinder utilized by the Derry Fire Department is 48.0” in height.
2. (1) Corner SCBA Brackets shall be supplied and mounted. The brackets will be adjustable vertically. The corner brackets shall be 45 degree angled into the compartments corners. The (2) sections per Bracket shall extend from the compartment floor level up to 24.0” from the top of the compartment. (1) SCBA brackets specific to Scott SCBA utilized by the department shall be supplied.
3. (1) Heavy Duty Coat Hook
4. Flashlight Power & Ground #1 – To be located in Left Rear Compartment Door. Must have a 36.0” Tail with Butt Connector enclosed in plastic loom and shall terminate on the compartment door.
5. Truck Bed Liner Material – The compartment will be sprayed with Truck Bed Liner type material. Any shelving or dividers will be sprayed with Truck Bed Liner type material.

4-l Curbside Module Access Door/Rear Access Doors:

1. Curb Side Door
2. Single Door
3. Hinge toward the front of the vehicle.
4. The door grab bars shall be three-point grab bars, antimicrobial coated and they may be yellow in color.
5. This door shall have (1) window which must open to provide fresh air into the module.
6. This door shall be the access into the patient module from the curbside of the vehicle.

The minimum requested dimensions are: 79.0” H x 31.0” W

Rear Access Doors-Double Doors

The door grab bars shall be three-point grab bars, antimicrobial coated and they may be yellow in color.

The minimum requested dimensions are: 47.0” W x 61.0” H

4-m Right Front Exterior Compartment:

1. Single Door
2. Hinge toward the rear of the vehicle

The minimum requested dimensions are: 52.0”H x 29.0” W x RF ALS Depth

This compartment will access the RF ALS Cabinet with inside/outside access. This is the primary storage area for the following:

1. Monitor/Defibrillator
2. Primary Medical/Trauma Bag
3. Oxygen Bag
4. Portable Suction
5. Pediatric Bag

This compartment will be lined with smooth aluminum on the walls, floor and ceiling.

Truck Bed Liner Material – The compartment will be sprayed with Truck Bed Liner type material. Any shelving or dividers will be sprayed with Truck Bed Liner type material.

4-n Battery Compartment:

1. Single Door or Drawer
2. The vendor shall supply a Slide-Out Tray for vehicle batteries.

The minimum requested dimensions are: 24.0” W x 13.5” W x 20.5” D

The slide out tray shall be capable of holding (3) batteries. The slide out tray does not have to be located on the floor of the compartment.

The department realizes that not all vendors may be able to locate the batteries in this location. The vendor may provide an alternate vehicle battery location.

4-o Right Rear Forward Compartment:

The ambulance builder will include a compartment to the rear of the passenger’s side dual wheels. The compartment dimensions will be provided in the bid response.

Truck Bed Liner Material – The compartment will be sprayed with Truck Bed Liner type material.

4-p Right Rear Compartment:

1. Single Door
2. Hinge toward the front of the vehicle

The minimum requested dimensions are: 58.0”H x 22.0” W x 19.5” D

This compartment will not be a Full Height Compartment. This compartment will be a ¾ Height Compartment to accommodate an interior cabinet in the top section of this area. The interior cabinet will be as large as possible.

This compartment must be configured to accommodate the following:

1. Corner SCBA Brackets shall be supplied and mounted. The brackets will be adjustable vertically. The corner brackets shall be 45 degree angled into the compartments corners. The (2) sections per bracket shall extend from the compartment floor level up to 24.0” from the top of the compartment. (1) SCBA brackets specific to Scott SCBA utilized by the department shall be supplied.
2. (1) Heavy Duty Coat Hooks
3. Flashlight Power & Ground #1 – To be located in Right Rear Compartment door. Must have a 36.0” Tail with Butt Connector enclosed in plastic loom and shall terminate on the compartment door.
4. (2) Heavy Duty Coat Hook
5. Flashlight Power & Ground #1 – To be located in Left Rear Compartment Door. Must have a 36.0” Tail with Butt Connector enclosed in plastic loom and shall terminate on the compartment door.
6. Truck Bed Liner Material – The compartment will be sprayed with Truck Bed Liner type material. Any shelving or dividers will be sprayed with Truck Bed Liner type material.

4-q Compartment Floor and Shelving Liner:

1. Turtle Tile Compartment floor tile shall be provided.
2. All compartment floors Turtle Tile will have beveled edges.
3. Turtle Tile in shelving will not have beveled edges.

4-r Module Body Windows:

1. Curbside Entry Door – Shall have a window to sliding or fold out type glass.
2. Rear Module Access Doors – Shall have windows (one per door) fixed glass.
3. Curbside Bench Window – Shall have a window, fixed glass.
4. Bidders may submit a design that prevents a bench window from being utilized.
5. The module window package shall not include liquid crystal display windows.
6. All module windows shall be covered with Vision Shield.

Bidder Response to Modular Body Exterior Compartments

Above section bid exactly as written _____
Section not provided by bidder _____
Bidder is offering an alternative to this section _____

4-s Vehicle Numbering System:

The Derry Fire Department utilizes a numbering system, which allows ambulances to be rotated through four fire stations. Each station is numbered 1 through 4. The bidder must supply a numbering system, which allows for number changes. The bidder shall supply number placards for both sides and the rear. The bidder shall supply a 1, 2, 3 & 4 for each side. The lettering style and font shall match the vehicle lettering. The numbering system shall be located on the right rear module door and both rear module sides. The numbers on the module sides shall match the vinyl gold leaf on the module sides. The number on the rear of the module shall match the existing “MEDIC” lettering style and color, which is white. The system used to hold the vehicle numbers shall be constructed from aluminum and shall be painted to match the color of the ambulance body.

Bidder Response to Vehicle Numbering and Compartment Requirements

- Above section bid exactly as written _____
- Section not provided by bidder _____
- Bidder is offering an alternative to this section _____

**SECTION FIVE
MODULAR BODY INTERIOR REQUIREMENTS**

5-a General Interior Requirements:

The bidder shall provide for maximum interior cabinet space.

The bidder will after the bid is awarded work in conjunction with the department to ensure that a design is reached which is desirable for the department as specified.

1. **Wall Covering:** The wall covering shall be White Gloss Mica or equivalent from the ceiling down to the CPR Seat level on the street side and down to the squad bench level on the curbside.
2. The area below the above noted location shall be Matt Gray or equivalent Laminate.
3. The patient module doors shall be covered in smooth aluminum. The bidder will cover the smooth aluminum with laminate material color coded to the module interior. An access plate shall be provided to the door lock mechanisms on the interior for lock maintenance. The area above the lock mechanism may be laminate color coded to the interior.
4. **Door Grab Bars:** Shall be angled door grab bars, three points of attachment. Straight door grab bars will not be accepted. Door grab bars must be coated with antimicrobial coating. Door grab bars may be yellow in color.
5. **Ceiling Grab Bar:** Shall be recessed into the ceiling surface to reduce head strikes. Ceiling grab bar must be coated with antimicrobial coating. Ceiling grab bars may be yellow in color.
6. **Entry Assist Bars Curbside Entry:** Curbside entry assist bar shall be coated with antimicrobial coating. Entry assist bars may be yellow in color.
7. **Rear Entry Assist Bar:** Rear entry assist bar shall be coated with antimicrobial coating. Rear entry assist bar may be yellow in color.

5-b Action Wall Area:

1. Solid Surface Counter Tops
2. Switch Panel
3. The oxygen switch shall be a separate and distinct color from the remaining switches.
4. The suction switch shall be a separate and distinct color from the remaining switches. The suction switch will not be the same color as the oxygen switch.
5. If the bidder does not offer a separate and distinct switch color, an add-on indicator acceptable to the department may be considered.
6. (2) Oxygen Outlets/Quick Disconnect
7. (1) Suction Outlet/Quick Disconnect
8. Manual Oxygen By-Pass
9. Inverter Indicator: if applicable.
10. Suction Canister: Recessed into the Action Area Wall.
11. Power Outlets: (1) 12 VDC (1) 115 VAC

5-c Telemetry/CPR Seat Area:

1. Solid Surface Counter Top
2. The vehicle will have four glove box holders over the CPR Seat bench with a ½” Lexan door.

5-d Left Rear Interior Cabinet:

A. Upper:

1. (2) Shelves
2. Sliding Lexan Doors
3. Re-stocking Frame/Speed Load Door

B. Lower:

1. (2) Shelves
2. Sliding Lexan Doors
3. Re-stocking Frame/Speed Load Door

5-e Right Front Interior Cabinet:

1. (1) Shelf
2. ABS Slotted Dividers shall be built into this compartment. A minimum of (12) slot shall be provided in the final product.
3. Sliding Lexan Doors
4. Re-stocking Frame/Speed Load Door

5-f Walk Thru Cabinet-Upper:

1. The department requires a cabinet over the walk thru area for storage.
2. The cabinet shall be as large as possible.
3. The cabinet shall have aluminum frame with restocking or Speed Load feature.
4. The cabinet will have one shelf.

5-g Walk Thru Cabinet-Lower:

1. The department requires a cabinet under the walk thru area window.
2. The cabinet shall be as large as possible.
3. The cabinet shall have a ½” Lexan door hinged to the right.
4. The latch shall be a Chrome South Co Pull Ring latch.
5. The cabinet will have a shelf.
6. The top surface of this cabinet will be a solid surface counter top.
7. The distance from the counter top to the bottom of the window will be at least 4.0”.

5-h Electrical Cabinet:

1. The electrical cabinet shall be located behind the attendant seat and the door will face the rear of the vehicle.
2. The door will have a locking latch.
- 3.

5-i Talk Thru Window:

1. The wall separating the module from the cab shall have a window.
2. The window opening size proposed is approximately 16.0" x 16.0" square.
3. The Lexan will be one solid piece and will slide behind the passenger's seat.
4. A Handle will be provided to open and close the window.
5. The Lexan shall be dark smoke color to reduce light glare from the module to the driver's compartment.

RF ALS Equipment Storage Area:

1. The Right Front ALS Storage area will be located on the right front corner of the module. Interior/exterior access shall be provided.
2. The right front ALS shall be from ceiling to floor level.
3. This compartment shall have (3) Adjustable aluminum heavy-duty shelves.
4. The shelf shall have a lip on each side 2.0" in height.
5. The shelving will be mounted with Heavy Duty materials.
6. The doors shall be solid Lexan Doors, ½" thick.
7. The door design will be double upper and lower doors as required by the department. The latches shall be South CO Pull Ring Latches. Additional door latches or catches are not required.

Squad Bench-Partial Height Cabinet:

1. The cabinet shall be approximately 14.0" High x 16.0"
2. Wide by full Depth of the Squad Bench.
3. The forward end of the squad bench shall be a partial wall for the purpose of mounting the Cardiac Monitor.
4. The cardiac monitor will be mounted in a commercial device purposely designed to hold a LP-12 or LP-15 Cardiac Monitor. This mount will be a TMS Brand bracket.
5. The bracket will be supplied by the ambulance dealer as part of this bid.
6. The bracket shall be capable of rotating to the left from the straight on storage position.

The partial height cabinet on the head end of the squad bench will have (2) drawers that pull out toward the seated attendant on the squad bench. The drawers shall be as large as possible. The drawers shall have Chrome South Co Pull Ring latches.

Partial Height Cabinet-Sharps Container (Squad Bench):

1. The front or side facing the aisle of the partial height cabinet shall be indented for the purpose of a sharps box storage location.
2. The sharps container will be recessed into the front surface.
3. The door shall flip out and will be hinged at the bottom.
4. The top portion of the door shall be cut out so that the sharps container is accessible at all times.
5. The only time that the door must be opened is to change the sharps box.
6. The latch shall be a Lever Latch.

Partial Height Cabinet-Trash Container (Squad Bench):

1. The area immediately under the Partial Height Cabinet under the surface of the Squad bench shall be for a Trash Container.
2. The opening will not have a door. The bottom of the opening will have the floor roll up with a 3.0-4.0" lip to contain any trash in the recess.
3. The trash container dimensions shall be approximately.
4. The container shall be held in place with a 2.0" black nylon strap with a metal buckle.

5-j Squad Bench Area: Dimensions:

The Derry Fire Department is seeking a vehicle with a custom designed squad bench seating area.

The base model seat will be a seat with integrated six-point harness with padded bench seat and headrest. The department is specifying a vehicle in which an attendant will be able to sit on the SB seating position and access the following:

1. LP-12 or LP-15 Monitor/Defibrillator
2. Switch Panel Controls
3. Hospital Radio
4. Recessed Radio Head. The radio head will be recessed into the console. A removable plate will be provided by the ambulance builder for this purpose.
5. (1) Oxygen Outlet
6. Curb Side On-board Suction
7. IV Warmer
8. Medication Box
9. IV Pump
10. Narcotic Lock Box
11. Sharps Container- Curb Side
12. Trash Container-Curb Side

Curbside Wall: Action Area

1. This area shall be angled 45 degrees toward the seated attendant on the squad bench area.
2. This area shall be a cabinet with access to the following from the seated position on the squad bench.
3. The area just above the LP-12 or LP-15 shall be utilized for Rear Switch Panel (Second Panel in patient module) and for the Hospital Radio.
4. The switch panel and hospital radio shall be recessed or flush mounted.
5. Rear Switch Panel and Radio head shall be the following: Oxygen Outlets, recessed into the cabinet face to allow for oxygen regulators to be stored in the oxygen outlets with compact style flow meters.

Curbside Suction, On-Board Suction:

1. The curbside suction shall have a plastic or metal retention ring to secure the canister in place.
2. The suction container may be located in a recessed cabinet. A Velcro strap may be included to secure the suction tubing into place.

3. The curbside suction quick disconnect shall be located in a manner that will allow the disconnected to suction canister hose to be as short as possible.
4. The department would prefer that the quick disconnect to be located above the suction canister.

Curbside Upper Cabinet:

1. The curbside upper cabinet shall be as large as space allows.
2. This area may be utilized for horizontal glove box storage and/or storage.
3. The department requires glove box storage for the following sizes of gloves to be located in this location: Small, Medium, Large and Extra Large.

Right Rear ALS Storage Area:

1. Dimensions: Minimum dimensions shall be: 21.0” Wide x 16.0” Deep x Full Height.
2. This area shall be located to the left of the seated attendant above the level of the squad bench.
3. This area shall have the ability to store a Smith Works Floor Style IV Warmer, Medication Box, IV Pump and Narcotic Lock Box (Double Narcotic Case Lock Box supplied to the Derry Fire Department by Parkland Medical Center) and utilized by the Derry Fire Department.

RR ALS –Lower Storage Area: (Smith Works IV Warmer)

1. The dimensions of cabinet shall be the following: 14.0” Deep x 7.0” High x Full Cabinet Width
2. This area shall be located to the left of the seated attendant above the level of the squad bench.
3. This area shall have the ability to store a Smith Works IV Warmer currently utilized by the Derry Fire Department.
4. This area shall be accessed through a hinged ½” Lexan Door through an oval hole in the Lexan.
5. This hole shall allow an average sized hand to access the IV Fluid Bags without opening the Hinged Lexan Door.
6. The door shall be hinged on the bottom.

Power Source: The following Power Sources shall be installed:

(1) 12 VDC – (Needs to be Battery Hot at all Times) (1) 115 VAC

RR ALS: Middle Storage Area (Medication Box):

1. The dimensions of cabinet shall be the following: 14.0” Deep x 20.0” High x 21.0” Wide
2. This area shall be located to the left of the seated attendant above the level of the squad bench and above the IV Fluid Storage Area.
3. This area shall have the ability to store the existing Medication Box utilized by the Derry Fire Department.

The Medication Box Dimensions are following: 20.0” Long x 18.0” High x 12.0” Deep

Securing Device: A strap shall be installed to secure the medication box into the space provided for storage.

RR ALS: Middle Top Storage Area (IV Pump)

Right Side of the Cabinet – Side #1

The Dimensions of Cabinet shall be the following:

1. 14.0” Deep x 14.0” Wide x 16.0” High
2. This area shall be located to the left of the seated attendant above the level of the squad bench and above the Medication Box Storage Area.
3. This area shall have the ability to store the existing IV Pump and utilized by the Derry Fire Department.
4. The IV Pump shall be located to the aisle side of the cabinet. The IV Pump Mounting Bar will be positioned to be vertical. When the IV Pump is attached to the Mounting Bar, the pump shall not project out over the edges of the surface above or below.

The Dimensions of the IV Pump: 8.5” Wide x 8.5” High x 8.5” Deep

Power Source: The following Power Sources shall be installed:

1. 12 VDC
2. 115 VAC
3. Chrome IV Snap Hooks are to be mounted on the aisle side of this cabinet above the IV Pump storage area.

RR ALS: Middle Top Storage Area:

1. Left Side of the Cabinet – Side #2
2. This left area of this cabinet shall be divided from the remainder of the cabinet.
3. The cabinet shall be divided with (3) shelves.
4. This storage area shall be approximately 6.0” wide x 14.0” High x 6.0” Deep.

RR ALS: Top Storage Area (Narcotic Box Storage)

1. This area shall be located to the left of the seated attendant above the IV Pump and Oxygen Delivery Storage Area.
2. The cabinet shall have the ability to store (2) Narcotic Cases currently provided to the Derry Fire Department by Parkland Medical Center.

The Dimensions of the Narcotic Cases:

1. 9.0” Long x 3.0” Wide x 12.0” High
2. The successful bidder will receive a narcotic case from the department.
3. The narcotic storage will hold (2) of the provided cases.
4. The Narcotic Case shall be of metal construction (.125 Aluminum) and shall be secured by (4) grade eight through bolts into the ambulance body. The fasteners utilized to secure the Narcotic Box to the vehicle shall be located inside of the Narcotic Case. No bolt heads shall be located in the exterior compartment. The use of a carriage type bolt head is required.

Narcotic Lock: Kaba Mass Lock Model currently utilized by the Derry Fire Department shall be provided and installed on the cabinet. The storage area above may be either horizontal or vertical. Any remaining space not utilized by the Narcotic Storage Box will be utilized for additional storage.

Bio Waste Storage Passengers Side:

1. Sharps and Trash storage on the passenger's side is described above.
2. Sharps Container – Sage (A sample will be provided to the successful bidder)
3. Trash Container – Approximately one gallon or larger size container.

Bio Waste Storage Drivers Side:

The bidder shall provide drivers side receptacles for sharps and trash. The department requests that, if possible either one of two methods to be utilized for the containers requested. Recessed Sharps and Trash may have one or both of the following:

1. One to be located to the right and one to be located to the left of the seated CPR Seat position.
2. The receptacles may be mounted into the surface of the Action Area and/or Telemetry Area or into the face of the base wall riser to the left and right of the CPR Seat.
3. Designs that allow for both to be mounted to the forward side of the CPR Seat area will be considered.

If a design is utilized that is in the riser section of the wall surface the container shall be accessed by means of an open top design. The Derry Fire Department requires that a sharp device (needle or syringe) or article of trash will be able to be deposited into the sharps container or trash receptacle without opening a lid or drawer. The trash container utilized will be acceptable to the department. A design that has a recess into the compartment behind the base wall will be considered to allow for a container that is acceptable to the department. The trash container recess will have the floor roll up on the base wall surface at the floor level. A nylon strap and buckle will be used to keep the container secure in the opening.

Sharps Container: Sage (A sample will be provided to the successful bidder)

Trash Container: Approximately (1) gallon size container, or larger.

5-k Right Rear Interior Cabinet-Top:

1. This cabinet is located on the interior of the Right Rear Exterior Compartment.
2. This cabinet will not have inside/outside access.
3. The exterior compartment on the passenger's side rear requires a headroom height of 58.0”.

The Dimensions of Cabinet shall be the following:

1. Shelf (if the Sliding Lexan Doors Re-Stocking Frame/Speed Load Door
2. Hinged from the top, sliding Plexiglas door
3. Plexiglas color is dark tint
4. Door needs two pistons to hold in the open position.
5. Measure 18 inches high, by 19.5 inches wide.
6. Greenwood will build an aluminum box for behind the sliding door.

7. The box will be Approximately 18” height x 19” wide x 21” deep.

5-l IV Holders:

1. (2) Cast Product 2008 Rubber IV Hangers shall be supplied and located over the primary cot head/chest area.
2. (2) Chrome IV Style Snap Hooks shall be supplied and located over the primary cot knee area. Velcro straps shall be provided.
3. These shall be located on the ceiling in the lower section of the stretcher area.
4. The location will be approved by the department.
5. (2) Chrome IV Style Snap Hooks shall be supplied and located over the primary chest/head area. Velcro straps shall be provided.
6. These shall be located on the ceiling in the upper section of the stretcher area.
7. The location will be approved by the department.

5-m Interior Upholstery:

1. Color – Gray
2. All interior surfaces shall be padded with maximum padding.

5-n Oxygen Outlets:

The bidder shall install the following oxygen outlets with quick disconnect feature:

1. Outlets in Action Area (2)
2. Ceiling
3. Curb side Wall

5-o Electrical Oxygen:

An electric oxygen switch with manual by-pass shall be included in the vehicle.

5-p (2) Oxygen Cylinder Storage Brackets:

1. Shall be located under the squad bench accessible from the curbside entry door.
2. The oxygen cylinder brackets shall be horizontal.
3. The oxygen cylinders will be held in place by a spring-loaded paddle to prevent the cylinder from being removed without manually moving the paddle.
4. If the ambulance bidder cannot build or purchase this style cylinder retention device, an alternate design may be proposed.
5. The department prefers to have storage for (2) spare D sized oxygen cylinders.
6. Both to be accessed from the interior of the patient care module.

5-q Suction Outlets:

1. The bidder shall install the following suction outlets with quick disconnect feature.
2. The quick disconnect outlets shall be located in a recessed manner.
3. The suction collection canister shall be recessed, if possible.
4. (1) Action Area
5. (1) Curb Side Wall

5-r Attendant Seat:

1. The attendant seat will be an EVS brand seat with an integrated child seat.
2. The attendant seat shall be supplied with a lap and shoulder belt seat belt.
3. The seat shall be mounted on a pedestal or solid storage box.
4. The seat shall rotate to face the front of the vehicle.
5. The seat shall be located in a manner acceptable to the Derry Fire Department.

Bidder Response to General Interior Requirements

Above section bid exactly as written _____
 Section not provided by bidder _____
 Bidder is offering an alternative to this section _____

**SECTION SIX
MODULAR BODY INTERIOR**

6-a Lighting:

1. Ceiling Dome Lights:

1. (4) LED Street Side
2. (4) LED Curb Side
3. The LED ceiling lights shall be equally spaced along the aisle and bench sides of the vehicle to provide maximum lighting coverage.
4. The curbside door entry area shall be illuminated from the ceiling as well as the floor level.
5. The LED Ceiling lights will be provided with a dimmer.
6. Each bank of lights will be controlled through both switch panels in the patient care module.

2. Ceiling Dome Lights:

1. (4) LED lights shall be installed in the center of the ceiling equally spaced to provide maximum light distribution.

3. Timer:

1. A 15-minute timer shall be installed in the module in a convenient location for the purpose of activating the LED lights while performing vehicle checks.
2. The timer shall operate from the vehicle batteries through an electrical converter.

Bidder Response to Lighting Requirements

Above section bid exactly as written _____
 Section not provided by bidder _____
 Bidder is offering an alternative to this section _____

6-b Ceiling Grab Rail:

1. Ceiling Mounted Recessed Grab Rail shall be installed in the patient module ceiling. The ceiling grab rail shall be coated with antimicrobial coating and may be yellow in color.

6-c Module HVAC:

The module HVAC shall be capable to heating and cooling the ambulance module as required by the **2016 NFPA 1917 Standard for Automotive Ambulances**.

1. Auxiliary AC Condenser
2. Ducted HVAC
3. Each bidder shall include specifics about the above listed requirements.

Rear Air Conditioner Evaporator:

1. Evaporator Location
2. Condensation Drain Pan
3. Air Conditioning Hoses
4. Each bidder shall include specifics about the above listed requirements.

Auxiliary Condenser:

An auxiliary AC condenser shall be installed on the chassis. If the Auxiliary Condenser is located under the vehicle, the unit will be protected by a mud flap to prevent road spray from entering the unit as much as possible.

HVAC System Filter:

A filter shall be installed and shipped with the vehicle for the purpose of filtering patient cabin air.

Ducted HVAC System:

A system of ducting HVAC through the ceiling shall be utilized and shall terminate through individual registers in the patient module.

Ducted HVAC Compartment:

The vendor shall provide the ability for at one exterior compartment to be provided with a duct from the HVAC System. That compartment will be the Left Front Compartment directly behind the vehicles drivers' position.

Rear HVAC Controls/Thermostat:

The HVAC controls shall be accessible from the Action Area and Curb Side Switch Panels.

Power Vent:

The vehicle shall be equipped with two Power Vents capable of moving 580 CFM, minimum. The department requires two power vents in the module to assist in the reduction of air contaminants.

Bidder Response to HVAC Requirements

Above section bid exactly as written _____
Section not provided by bidder _____
Bidder is offering an alternative to this section _____

6-d Interior Clock:

An interior digital clock shall be provided. The clock shall be located in the Action Area.

6-e Auto Shut Down Circuit:

A 5-minute automatic shutdown circuit shall be provided.

6-f Electrical System:

1. General requirements – Each bidder shall supply information about the electrical system to be supplied.
2. Front Panel
3. Rear panel – Action Area
4. Rear Panel – Curbside Wall
5. Each vendor shall provide a multiplexed electrical system capable of being programmed at the Derry Fire Department for the Life of the Vehicle at no cost to the department. The department requires this service to be conducted within 14 days of request. The Derry Fire Department expects to utilize this vehicle for a period of at least ten years from the date the vehicle is placed into service.
6. Locked Compartment – The Electrical Compartment will be furnished with a key lock so that the compartment may be locked. The key shall not match any other keyed locks utilized in the vehicle.

6-g Communication Equipment:

All Radio Power & Ground, Coax and Computer Power shall be indicated with a paper tag and shall be labeled.

1. Radio Power & Ground #1
2. Radio Power & Ground #2
3. Radio Power & Ground #3
4. Coax #1- Computer Coax. Must be mounted on the cab roof. Customer supplied and MFG Factory installed.
5. Coax #2 – Customer supplied antenna coax to be installed at MFG factory.
6. Coax #3– Customer supplied antenna coax to be installed at MFG factory.
7. Coax #4– Spare
8. Computer Power & Ground #1 – Front Console with 36.0” Tail.
9. Computer Power & Ground #2 – Action Area with 36.0” Tail.
10. Computer Mount – Each bidder shall provide the ability for a computer mount to be located in the front console. The computer mount shall not interfere with the driver or passenger air bag.
11. Portable Radio Battery Charger – Each bidder shall provide power & ground for the purpose of multiple battery portable radio chargers.

12. Computer Antenna – Each bidder will plan to install a customer supplied computer antenna on the cab roof as specified by the Derry Fire Department.

6-h Inverter/Battery Conditioner/Converter:

Each bidder shall provide a Vanner Inverter (1000 watt) and Battery Conditioner acceptable to the department. The ambulance builder shall provide a 30-amp converter.

6-i 115 VAC Power Outlets:

The 115 VAC outlets shall have the ability to operate while the vehicle is running and while on shoreline power. The bidder shall install the following 115 VAC Outlets:

1. IV Warmer-Curbside Wall
2. IV Pump – Curbside Wall
3. Action Area
4. Curb Side Wall
5. Telemetry Area
6. RF ALS
7. Walk Thru Counter
8. The department will approve the final locations of the 115 VAC Power Outlets.

6-j 12VDC Power Outlets:

The 12 VDC outlets shall be powered at all time.

1. IV Warmer-Curbside Wall
2. IV Pump – Curbside Wall
3. Action Area
4. Curbside Wall
5. Telemetry Area
6. RF ALS
7. Walk Thru Counter
8. Front Console – Left Side
9. Front Console – Right Side
10. The department will approve the final locations of the 12 VDC Power Outlets.

The ambulance builder will provide ample medical isolators (more than one if required) to service (8) 12 VDC power outlets.

6-k Module Head Liner Panel:

The module headliner panel shall be constructed of either wood or aluminum and shall be covered with a smooth laminate material. The headliner shall not be constructed of one solid piece of material.

6-l Module Insulation:

The Derry Fire Department requires a maximum amount of insulation to be utilized in the patient module due to extreme temperatures encountered in New England. Each bidder shall enclose a description of the materials and methods utilized.

The following shall be addressed in the insulation description:

1. Module Floor
2. Module Walls
3. Module Roof
4. Compartment Doors
5. Rear Wheel Wells/Interior
6. Side Entry Step Base

6-m Spot Light:

1. One 400,000 CP hand held spot light shall be provided with the vehicle.
2. The light shall be hard wired.
3. One ABS or metal spot light holder will be supplied and will be mounted on the passenger’s side of the vehicle on the front console wall in a location approved by Derry Fire.

6-n Cot Mounting Hardware:

1. The vehicle shall be provided with Stryker cot mount hardware set up to accept a Stryker Power Pro stretcher.
2. Center mount cot hardware will be provided.
3. Stryker cot hook will be provided.

6-o Module Radio Speakers and Volume Control:

1. The bidder will supply two speakers and a volume control in the patient module. The speakers and volume control will control the OEM radio to the patient module.
2. The speakers will be mounted in the module ceiling.
3. The volume control will be mounted in the Action Area.

Bidder Response to Electrical and Communications Requirements

Above section bid exactly as written	_____
Section not provided by bidder	_____
Bidder is offering an alternative to this section	_____

**SECTION SEVEN
EXTERIOR LIGHTING AND ELECTRICAL REQUIREMENTS**

7-a General Construction:

The bidder shall describe the electrical system and components.

7-b Exterior Emergency Lighting:

1. Front Light Bar – Cab Mounted Whelen Freedom Edge (Cab Width, 55.0”)
2. (4) Red Super LED, Red Lens.
3. The white/clear lights in the light bar shall turn OFF when the vehicle is placed into the PARK position.

Lens Configuration: Red/Clear/Red/Traffic Control/Red/Clear/Red

Lens Color: Red/Clear/Red/Traffic Control/Red/Clear/Red

Tomar Traffic Preemption Device:

1. Wired to be controlled by a Front Switch Panel Control
2. Wired through Parking Brake Mounted in the center of the Light bar

Modular Body Corner Lights: Whelen M9 series Super LED.

1. Red LED
2. Clear Lens
3. Chrome Base Plate
4. Front Corners
5. Rear Corners
6. Side Corners –(2) Each Side of the vehicle

Front Grille Lights: Whelen M7 series Super LED.

1. Red LED
2. Clear Lens
3. Chrome Base Plate
4. Change from: (2) red L.E.D.’s with clear lenses.
5. Change to: (2) red L.E.D.’s with red lenses upper grille area and (2) white L.E.D.’s with clear lens lower grille area.

Explanation: Additional white L.E.D.’s will provide more illumination into the rear windows of passenger vehicles, due to height of vehicle.

Front Intersection Lights: Whelen M7 series Super LED.

1. Red LED
2. Clear Lens
3. Chrome Base Plate
4. (2) Change from clear lens to clear/red split if available

Rear Intersection Lights: Whelen 700 Super LED

1. Red LED
2. Clear Lens
3. Chrome Base Plate
4. Change from Whelen 700 Super LED to Whelen M7series Super LED.
5. #2 Change from clear lens to amber/red lens if available

Rear Lights at Windows: Whelen 900 Super LED

1. Red LED
2. #2 change clear lens to red lens, Chrome Base Plate
3. This group of lights shall be enhanced by a brake enhancer to activate when the vehicle brake is activated.

Rear Amber Light: Whelen

1. Amber LED,
2. Amber Lens
3. Chrome Base Plate

Traffic Arrow Bar: Whelen Traffic Advisor Model TA837L with (8) LED's
Emergency Lighting shall match the existing Derry Ambulance (C4500).

7-c Electrical Siren: Whelen – Vendor Standard Model

7-d Exterior Compartment/Door Lighting:

7. (1) Amber Whelen 700 LED Warning Light shall be located on the Curbside Entry Door. This light shall flash anytime the door is open.
8. (2) Red or Amber Whelen 700 LED Warning Lights shall be located on the Rear Entry Doors. This light shall flash anytime the door is open.

7-e Rear Load Lighting:

One pair of Whelen M6 Series LED Flood Lights to be located above the rear module doors.

If the Traffic Advisor dictates the bidder, provide an alternate location to mount the rear scene lights the bidder will provide an explanation of the proposed location. The lights may be located to the outside edges of the rear doors, if required. One additional pair of Whelen 600 Series LED Load Light to be located above below the rear module doors in the rear kick plate.

7-f Ground Lights:

The bidder shall provide the following safety lighting.

The bidder shall provide (6) total ground lights to be located as follows:

1. (2) Street Side
2. (2) Curb Side
3. (2) Rear under rear step
4. The lights shall activate anytime a cab door, module entrance door or compartment door is opened.

5. The ground lights shall be connected to a timer, which shall operate for at least five minutes.
6. The lights shall be mounted on an angled bracket, which will illuminate the ground to the side's and rear of the vehicle.

7-g Side Load Lights: Whelen 900 Series LED

1. (2) Street Side
2. (2) Curb Side Scene Lights shall be installed.
3. (1) Curb Side Scene Light shall operate when the Curb Side Entry Door is opened.
4. (1) Street side
5. (1) Curbside scene light shall operate while the vehicle is in reverse. The light shall be the light fixture to the rear of the vehicle. All scene lights and load lights shall operate from a switch on the front control panel.

7-h Stop/Tail, Backup, Directional, & Running Lights:

All to be Whelen 600 LED with Chrome Bases

1. Front Turn Signals with arrow, Module Mounted
2. Rear Side Running Lights
3. Rear Turn Signals with arrow
4. Rear Stop & Tail Lights
5. Back up Lights – Partially Populated
6. Front/Rear Clearance Lights with Light Guards – Not Whelen 600 Series.
7. Rear/Third Brake Light

7-i Marker Lights:

1. (5) Amber LED Marker Lights with Stainless Steel Guards shall be provided on the front of the module.
2. (5) Red LED Marker Lights with Stainless Steel Guards shall be provided on the rear of the module.

7-j Fog Lights:

1. Each bidder shall describe fog lights.
2. One pair of Hella Amber 550 fog lights will be installed in the front bumper.
3. The lights shall be controlled by a switch in the front console.

Bidder Response to Exterior and Lighting Requirements

Above section bid exactly as written	_____
Section not provided by bidder	_____
Bidder is offering an alternative to this section	_____

7-k Door Locks:

1. Compartment Door Locks: The Rear Patient Access Doors shall be equipped with manual and an electric door lock.
2. Compartment Door Locks: The Curbside Access Door shall be equipped with manual and an electric door lock.
3. Compartment Door Locks: The Passengers Front Compartment/RF ALS

Compartment Door shall be equipped with manual and an electric door lock.

4. The patient access doors and compartment door electronic locks shall be wired to be controlled by the cab door lock/un lock switch.
5. The vendor shall include a lock switch on the patient module interior to be located on the curbside bench area.
6. The vendor shall include a un-lock hidden switch shall be provided in the front grille area and rear license plate area. The switches shall be protected by a weatherproof rubber boot.
7. Each bidder shall supply an additional ignition key and compartment key and they shall be located in the battery compartment. The keys shall be located on a hook that will not allow for the keys to fall off the hook.

7-l Floor Covering:

1. **The Floor Covering Shall be:** Dark Gray Diamond Plate Floor Material or equivalent.
2. The floor shall roll up the cabinet sides 4 inches.

7-m Bariatric Device:

1. An Anderson Connector shall be provided to connect the Bariatric Winch directly to the vehicle 12-Volt system.
2. The attached wire shall be long enough to be connected to the winch while mounted to the floor plates.
3. A diamond plate storage box shall be in close proximity to the attendant seat. The Anderson connector shall fit the winch owned by the Derry Fire Department.
4. Winch Mounts Bolt Pattern: The mounting pattern for the bolts shall match the existing unit owned by the department. The ambulance builder shall supply the floor mounting plates and fastening hardware only.
5. Ramp Mount Bolt Pattern: The mounting pattern for the bolts shall match the existing unit owned by the department. The ambulance builder shall supply the floor mounting plates and fastening hardware only.

7-n Back Up Alarm:

The vehicle shall be equipped with a backup alarm with a momentary switch in the front console.

Back Up Alarm: 97 db. back up alarm shall be provided.

7-o Passive Back Up Sensor System:

Each bidder shall supply a passive back-up alarm system.

Bidder Response to Door Locks and Back Up Alarm Requirements

Above section bid exactly as written	_____
Section not provided by bidder	_____
Bidder is offering an alternative to this section	_____

**SECTION EIGHT
PAINT, PROTECTION, LETTERING & STRIPING**

8-a Body Paint & Finish:

Each bidder shall include as a part of their bid response package a full description of the bidder's paint preparation and painting process.

1. **Cab:** Solid Red (FLNA 3021)
2. **Module:** Solid Red (FLNA 3021)
3. **Module Roof:** OEM White, no white to show over edge of the roof. The white shall not be visible from the ground.
4. Bidder must confirm cab, module and roof colors.

8-b Lettering:

Derry Fire Department – Vinyl Gold Leaf with dark & light blue shadow on inside of letters, bottom and one side. A white shadow shall be on the top and the other side. The lettering shall match current vehicle.

1. **Drivers Side:** 5.5" "Derry Fire Department"
2. **Front:** "Derry Fire"
3. **Passengers Side:** 5.5" "Derry Fire" 3.3/8" Department
4. **Rear:** 4.0" "Derry Fire"
5. **Rear:** "MEDIC" White Letters
6. **Rear:** Web Address, White Letters
7. **Sides:** "Medic" Red letters in white reflective stripe
8. Emergency Dial 911 with white border – Two sides
9. **Door Decals:** Custom Derry Fire Logo

8-c Reflective Striping:

1. The bidder will install a 6.0" white reflective stripe.
2. The pattern shall match the current Derry Fire Department vehicle.
3. This stripe shall conform to all body angles and door corners.
4. The stripe shall cover all compartment doors corners.
5. The stripe pattern shall be an EKG QRS monitor pattern.

8-d Roof Star of Life:

The bidder will install a DOT approved roof Star of Life.

8-e Reverse:

"Ambulance" on front with (2) 4.0" Star of Life

8-f Chevron Safety Striping:

1. Chevron reflective safety striping in alternating red and yellow shall be installed on the rear module surface.
2. The module to the street side and curbside shall be covered from the level of the top doorjamb to the bottom doorjamb.
3. The chevron pattern shall be the same pattern as currently on Derry Fire Department vehicles.

4. The chevron pattern shall be at a 45-degree angle and shall match the starting point of existing Derry Fire vehicles.
5. All exterior light heads and bolted on components shall be removed prior to chevron striping.
6. The interior surfaces of the rear module access and curb side entry doors from just below the lock access panel to the bottom of the doors shall be covered with the same chevron striping.
7. Smooth aluminum shall be utilized for the panels.

8-h Undercoating:

The module underbody shall be undercoated.

Bidder Response to Painting, Lettering, and Striping Requirements

Above section bid exactly as written	_____
Section not provided by bidder	_____
Bidder is offering an alternative to this section	_____

**SECTION NINE
FRONT CONSOLE
9-a Front Console:**

1. **Converter Switch Panel:** Flush Mounted
2. **Siren:** Flush Mounted
3. **Traffic Advisor:** Mounted between sun visors.
4. **Radio Head:** Mounted as required by Derry Fire Department. The radio heads will be recessed into the console. Removable plates will be provided by the ambulance builder for this purpose.
5. **Radio Head Space:** Future Radio
6. **Computer Base:** (Shall not interfere with air bag deployment)
7. **(4) Glove Box Storage:** Must be labeled with printed plastic plaques, Small/Medium/Large/X Large in a contrasting color to the console color.
8. The console may be constructed from wood or metal.

The Preference of Front Console Equipment Mounting Locations is the following:

1. Computer Mount: Forward section of the console.
2. The department will provide a commercial computer mount, which will be mounted to the vehicle floor.
3. The arm will extend through the front console surface. The mount shall not interfere with the operation of the air bags.
4. The switch panel will be located to the rear immediately behind the computer mount.
5. The glove box holders will be mounted vertically.
6. Access to the glove boxes will be through the ends of the boxes.
7. Individual glove size tags will be mounted to the console. The tags shall be durable and not easily removed.
8. The area to the extreme rear of the console shall be for map and street directory storage.

9-b Front Console Power:

1. (4) 12 VDC Power Outlets shall be provided in the front console.
2. Two shall be located on the left and right front console corner. The power source shall be battery hot.

9-c Map Storage:

1. An aluminum storage box shall be constructed and mounted behind the passenger's seat.
2. The box shall match the existing Derry Fire Department vehicle.
The total height shall be no more than 10.0" high.

Bidder Response to Front Console Requirements

Above section bid exactly as written _____
Section not provided by bidder _____
Bidder is offering an alternative to this section _____

SECTION TEN
OTHER EQUIPMENT TO BE SUPPLIED, OPTIONAL EQUIPMENT

Each bidder shall supply an Option pricing for the following:

10-a Serenity Safety Products Adult/Child/Infant Seat:

The bidder shall price an option for a SERENITY Seat with child/infant seat. The seat shall also have a lap & shoulder belt for the attendant.

10-b Lumalier UV Disinfection Light:

The bidder will include the price to install a Lumalier Brand UV Disinfection light in the ceiling of the ambulance. The light will be mounted to the vehicle with a control unit remote to the light location.

10-c Stryker Power Pro Stretcher

The bidder shall price as an option for a Stryker Power Pro Stretcher XT Model Number: 6506 to include all mounts, batteries, and necessary equipment for its proper use.

10-d Trade Vehicle- Ambulance:

The Derry Fire Department would like the option to trade the following vehicle:

1. 2006 Ford - E450
2. Type III Ambulance
3. Mileage – **96,503** – 1/15/16
4. Hours – **9046** – 1/15/16

Robert Atwater, Lieutenant
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