# REQUEST FOR BIDS

# EMERGENCY MEDICAL VEHICLE – TYPE III Ford E-450 Gas 166" x 94" Module



Three Rivers Fire Department
Chief Carl Holcomb
333 W. Michigan Avenue
Three Rivers, MI 49093
(269) 273-3755

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#### **Bidding Information**

#### **Performance Bids**

The City of Three Rivers is committed to the concept of performance bids. All vendors are encouraged to submit bids which conform to the stated specifications, as well as, suggest deviations from the specifications, which in the vendor's opinion would be beneficial to the City in terms of price and performance. The City reserves the right to accept or reject any bid under these terms.

#### I. Instructions

- A. Bids must be typewritten or clearly printed in ink and signed by a duly-authorized representative of the firm submitting the quote.
- B. Bids must be submitted in sealed envelopes, clearly marked on the outside, "Emergency Medical Vehicle".
- C. Bids will be received by the Office of the City Clerk, City Hall, 333 West Michigan Avenue, Three Rivers, Michigan, 49093, until 11:00 a.m. local time, Monday July 31st, 2017 all bids will be date stamped and time marked when received.
- D. Faxed or emailed bids shall not be accepted.
- E. If you received this document from our website, you must e-mail your contact information to cholcomb@threeriversmi.org so we can place you on the bidders list for addenda.

#### II. Conditions Applicable to Bids

- A. Applicable Laws: The Ordinances and Charter of the City and laws of the State of Michigan concerning competitive bidding, contracts and purchases will be employed.
- B. Taxes: The City of Three Rivers is generally exempt from Federal Excise and Michigan State Sales Tax. Prices should not include tax.
- C. If the bidder elects to deviate from the specifications stated, all exceptions or other changes must be clearly noted.
- D. The City reserves the right to reject any and all bids, waive informalities or defects in bids, or accept such bids as it shall deem to be in the best interest of the City of Three Rivers.
- E. The City does not discriminate on the basis of race, color, national origin, sex, religion, age or disability in employment or the provision of services.
- F. The Bidder shall provide a completed W-9 form with this bid.
- G. The City plans to award the equipment purchase at the August 15, 2017 Commission meeting.
- H. A guarantee delivery date for the shipper shall be noted on the bid on the space provided.
- I. If you have any further questions, please contact Fire Chief Carl Holcomb at (269) 278-3755 or email inquiries to <a href="mailto:cholcomb@threeriversmi.org">cholcomb@threeriversmi.org</a>.

# Three Rivers FD Ambulance Bid Specifications

## EMERGENCY MEDICAL VEHICLE – Type III Ford E-450 Gas 166" x 94" Module

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### **Ambulance Bid Specifications**

EMERGENCY MEDICAL VEHICLE – Type III Ford E-450 Gas 166" x 94"

### SCOPE & GENERAL REQUIREMENTS

This specification describes a commercial cutaway chassis with a transferable modular body converted into a Type III, 4X2 ambulance configuration as defined in the FEDERAL SPECIFICATION FOR STAR-OF-LIFE AMBULANCE, KKK-A-1822F, dated August 1, 2007. Unless otherwise specified, this vehicle shall be manufactured in accordance with the ambulance design criteria of the National Highway Traffic Administration, U.S. Department of Transportation in Washington D.C and the GSA - Federal Ambulance Specification KKK-A-1822F. Documentation shall be submitted with the bid that validates the manufacturer's current and full compliance with KKK-A-1822F or submits proof of the manufacturer's intent to have this testing completed prior to delivery of the proposed new ambulance. The ambulance described herein shall be type and model tested to and in compliance with the National Truck Equipment Association's Ambulance Manufacturing Division, Standards 001 - 025. Certifications must be current to manufacturer's most recent manufacturing/engineering design criteria.

The standard for the configuration and design of this ambulance exceeds the current KKK Federal Specification due to the requirements of this department. Manufacturers, who are unwilling or unable to meet the requirements herein, will not be considered.

The purpose of these specifications is to provide a set of minimum general requirements and test parameters for the manufacture of an emergency medical care ambulance that meets the needs and desires of this agency. The bidder is responsible for understanding that this specification establishes the essential criteria for design, performance, equipment and appearance of the ambulance or rescue vehicle. This specification requires an all-aluminum modular exterior. The compartment and cabinet sizes are critical and changes will not be allowed. While it is not the intent of this specification to preclude any qualified bidder, it must be clear that any bidder deviating in any substantial manner from these specifications will be rejected as non-compliant.

Does	Your Bid	Comply?	Y	'es	No

This specification requires the manufacturer to provide a new, commercially produced, medical care vehicle, hereinafter referred to as an "ambulance" or "rescue vehicle". This vehicle shall be manufactured in accordance with the ambulance design criteria of the National Highway Traffic Administration, U.S. Department of Transportation in Washington D.C and the GSA - Federal Ambulance Specification KKK-A-1822F. Documentation shall be submitted with the bid that validates the manufacturer's current and full compliance with KKK-A-1822E. NO Exceptions

#### 1.0 MANUFACTURER

- 1.1 Shall be a modified vehicle Upfitter approved by the OEM chassis manufacturer whose chassis is used to complete this Specified vehicle. Additionally, the manufacturer shall hold current certification in the Ford Motor Company Qualified Vehicle Modifier Program, and shall submit a copy of the QVM certificate as part of the bid proposal. This certification insures the integrity of the "conversion" of a vehicle into an ambulance regardless of chassis make.
- 1.2 Shall submit a copy of current certification of compliance with Federal Specification KKK-A-1822F for the type vehicle described herein, as prepared by an ISO/IEC 17025:2005 certified, independent, third-party testing laboratory.
- 1.3 Shall carry not less than ten million dollars (\$10,000,000.00) in product liability insurance.
- 1.4 Shall employ full-time Parts personnel.
- 1.5 Shall employ a full-time Electrical Troubleshooter.
- 1.6 Shall employ a full-time Service/Warranty Representative.
- 1.7 Shall furnish custom Computer Aided Design (CAD) interior and exterior construction drawings specific to the vehicle to be produced under this Specification. Drawing dimensions must comply with AMD Standard 019- Measuring Guidelines: Cabinets and Compartments
- 1.8 Shall furnish custom CAD electrical illustrations (including physical layouts of switch panels and electrical component mounts) and electrical schematics specific to the vehicle to be produced under this Specification.
- 1.9 Shall furnish proof of manufacturing complete ambulance packages for a minimum of 15 years.

Does Your Bid Comply?	Yes	No
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The ambulance and the allied equipment required by this specification shall be the manufacturer's current commercial ambulance model of the type and class specified. The ambulance shall be complete with the required options and accessories as specified herein. Items will be furnished with such modifications as may be necessary and specified to enable the ambulance to function reliably and efficiently in a strenuous, sustained operation. The design of the vehicle and the specified options shall permit accessibility for servicing, replacement and adjustment of components and accessories with minimum disturbance to other components and systems. The term "heavy-duty" as used, shall describe equipment or items that are in excess of the usual quality or capacity that is normally supplied with standard production vehicles or components.

This department requires that the manufacturer of the ambulance be a 100% American owned company. American owned defines the manufacturer as well as the majority equity owners of the manufacturer as US companies, individuals and/or stockholders.

The ambulance and the allied equipment required by this specification shall be the manufacturer's current commercial ambulance model of the type and class specified.

Does Your Bid Comply? Yes No
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The bidder shall be obligated to provide an estimated delivery time from award of bid and a
selection of flooring, upholstery and Scotchlite colors for the customer to make the appropriate
selections. These color selections shall become a part of the customer's order and the bidders
manufacturing document.

Does Your Bid Comply?	Yes	No
this agency to write out vendors or specified. It should be noted, however this agency. With the intent to stand have named specific brands of compo- quality. Other brands will be accept	manufacturers rer, that this sp ardize certain conents. This h ted providing t	ype specification and it is not the intention of s of similar or equal equipment of the types ecification is written around specific needs of components, therefore, in numerous places we as been done to establish a certain standard of the vendor provides documentation in the bid ne quality of the actual brand called for in the
Does Your Bid Comply?	Yes	No
	specifications	ed. Additionally the bidder shall supply covering the products offered. Bids not ptions.
Does Your Bid Comply?	Yes	No
the purchaser. Payment shall be m	ade in accorda	anty and delivery of the completed vehicle to ance with the terms, and conditions of these ivery and acceptance of the vehicle(s) and
valid for 30 days from the date of th	e bid opening, n unit is receiv	the Bid Proposal Form. Bid prices shall be or as otherwise specified in the bid proposal. ed, inspected and found to comply with these age and properly invoiced.
Does Your Bid Comply?	Yes	No
the best of his/her knowledge the independently without collusion, convestricting competition, as to any	at the pricing nsultation, commatter relating ledges that the	der certifies under penalty of perjury, that to g in this bid response has been prepared amunication, or agreement for the purpose of g to such pricing with any other bidder or pricing quoted has not been discussed with or id, either directly or indirectly.
Does Your Bid Comply?	Yes	No
The bidder's proposal packet shall	include a cop	by of the ambulance manufacturer's current

insurance certificate. The manufacturer shall provide proof of \$10 Million dollars of product liability insurance coverage. No Exception.

Does Y	Your Bid Comply?	Yes	No _	
detaile Electri a copy	d specifications. The recal Warranty, Modular	minimum accept Structural Watthin the propo	ptable require arranty and Pa sal package.	all warranties listed in these following d warranties are: Conversion Warranty, aint Warranty. The bidder shall include If the bidder does not include a copy of
Does Y	Your Bid Comply?	Yes	No _	
2.0	CHASSIS			
2.1 model	TYPE III AMBULAN Ford E-450 Cutaway v			a Type III, Class 1, 2-door, current year ular ambulance body.
Does y	our bid comply?	Yes	No	
	n ambulance preparatio	n package des	igned and ins	The chassis provided shall be equipped talled by the O.E.M. The package shall t in Emergency Medical Vehicles.
Does y	our bid comply?	Yes	No	
2.3 shall b	e programmed for cha			control shall be provided. The throttle control module shall be located in the
Does y	our bid comply?	Yes	No	
	GROSS VEHICLE We at least 14,500 pound		ING (GVWF	R): The GVWR of the chassis supplied
Does y	our bid comply?	Yes	No	
2.5 than 50	FRONT AXLE WEIG	GHT RATING	(GAWR-F):	The GAWR-F shall be rated at no less
Does y	our bid comply?	Yes	No	
2.6 than 9,	REAR AXLE WEIGI 600 pounds.	HT RATING	(GAWR-R):	The GAWR-R shall be rated at no less
Does y	our bid comply?	Yes	No	
2.7 4.56:1	REAR AXLE TYPE agear ratio.	AND RATIO:	The axle type	e shall be limited slip differential with a
Does y	our bid comply?	Yes	No	

		ed KKK-A-1822F and AMD Standards (boling System Test, 017- Road Test and 0	
Does your bid comply?	Yes	No	
2.9 TRANSMISSION: provided.	A 6-speed	electronic automatic transmission with o	verdrive shall be
Does your bid comply?	Yes	_ No	
2.10 BATTERIES: Two batteries shall be at least 65		nall be mounted to provide easy access for.	or servicing. The
Does your bid comply?	Yes	No	
	be 4-wheel	power assisted hydraulic brakes shall be Disc type. The parking brake shall be M.	
Does your bid comply?	Yes	No	
aforementioned GVWR th	ne tires shall bove each w	dentical make, tread type, size and lobe LT225/75R16E. A label with the reneel opening, unless specified otherwise label 3.6.10.	ecommended tire
	e braided va	NSERTS: Stainless Steel Wheel Inserts s ve extenders installed. Wheel inserts shalls.	
Does your bid comply?	Yes	No	
2.14 MUD FLAPS: Howheels.	eavy duty r	bber Mud Flaps shall be provided behi	nd the rear dual
Does your bid comply?	Yes	No	
	_	re and wheel assembly shall be supplied. own and O.E.M. jack and tire tools shall	
Does your bid comply?	Yes	_ No	
		YSTEM: The front, forward facing callap and shoulder belt assemblies.	seats shall be

ENGINE: A Triton V-10, Gasoline engine with 305HP @ 4,250RPM and 420 ft.-lb. @

3,250RPM with a minimum displacement of 6.8 liters (414 cu in) shall be provided. The engine

2.8

shoulder rings.
Does your bid comply? Yes No
2.17 SUPLEMENTAL RESTRAINT SYSTEM: An O.E.M. air bag shall be installed on the driver and passenger side. Permanent or quick release ambulance conversion components shall not interfere with air bag deployment. The air bags must be completely operational. Modifications by the secondary manufacturer are not acceptable.
Does your bid comply? Yes No
2.18 FUEL TANK: The fuel capacity shall be at least 55 U.S. gallons. The fuel range shall be at least 250 miles per KKK-A-1822F 3.4.8.
Does your bid comply? Yes No
2.19 CAB SEATS: O.E.M. High back, stain-resistant cloth covered bucket type seats shall be provided in the cab. The seats shall adjust forward and aft. Seat base must be O.E.M. Aftermarket seats and/or bases are not acceptable due to certified requirements regarding S.R.S. (Air bag) deployment geometry. The seats shall be moisture repellant in case of contact with blood or body fluids.
2.20 CAB STEREO: An O.E.M. AM/FM/CD in dash radio shall be included with the chassis.
Does your bid comply? Yes No
2.21 MIRRORS: Dual electrically controlled extending mirrors with built in convex mirror shall be provided.
Does your bid comply? Yes No
2.22 DOOR LOCKS: The cab doors shall have O.E.M. power door locks. A momentary rocker type switch shall active (Lock/Unlock) both cab doors.
Does your bid comply? Yes No
2.23 TRIM PACKAGE: The highest level trim package shall be supplied from the O.E.M. The package shall include high quality chrome-like bright work on the grille face. Chrome plated steel bumper(s) shall also be supplied by the O.E.M. Argent or painted bumpers are not acceptable. The O.E.M. grille work shall remain O.E.M.
Does your bid comply? Yes No
2.24 RUNNING BOARDS: Running boards shall be constructed of .125 aluminum diamond

The seat belts shall have pre-tensioners built into the seatbelt assembly to take up belt slack during a frontal collision. The seat belt assemblies shall meet or exceed F.M.V.S.S. 208 and 209. Any transition trim panels installed in the cab shall not interfere with the swivel arc of the

plate and provide "splash guard" components to protect the running board surfaces from front

wheel wash.

Does your bid comply?	Yes	No
2.25 UNDERCOATING: the chassis manufacturer's gu		odule shall be fully undercoated in accordance with
Does your bid comply?	Yes	No
2.26 WINDSHIELD SUN installed over the driver's and		EM, stain resistant cloth covered sun visors shall be ides of the windshield.
Does your bid comply?	Yes	No
3.0 MODULE CONFI	GURATION	1
	finished vehic	Il length of the vehicle shall not exceed two hundred ele shall meet or exceed KKK-A-1822F 3.4.10.4 for Angle of Approach.
Does your bid comply?	Yes	No
3.2 MODULE LENGTH inches.	: The module	length shall be at least one hundred sixty six (166")
Does your bid comply?	Yes	No
width of vehicles permitted inches wide, excluding light	on its roads ar s and accessor	width shall comply with State requirements regarding and highways. The module shall be ninety four (94") ries. The rear wheels of the chassis shall not extend and be covered by fender flares as cited in Item 10.5
Does your bid comply?	Yes	No
	measurement	DROOM: The headroom within the module shall be shall be taken from the center of the patient
Does your bid comply?	Yes	No
18"W x 46"H walk-thru open	ning. There sha ewing area. Th	The bulkhead shall be a solid wall broken only by an all be a sliding door with a fixed Lexan window of at ne window shall be transparent and shatterproof. The pen and closed positions.
Does your bid comply?	Yes	No

3.6 COMPARTMENT CONFIGURATION: The minimum compartment dimensions shall be as described within this specification and as depicted in the CAD drawings attached to the specification.
Does your bid comply? Yes No
3.7 SPARE TIRE STORAGE: Unless otherwise specified, a full size, fully inflated spare tire matching the wheels and tires mounted on the chassis shall be shipped loose. An O.E.M. jack and tire tools shall also be provided and shipped loose.
Does your bid comply? Yes No
4.0 MODULE CONSTRUCTION - GENERAL
The ambulance body shall be all aluminum. The body structure shall be manufactured by the OEM ambulance manufacturer, not an outside vendor. This Agency will not accept bids from ambulance manufacturers that sub-contract the manufacture the ambulance body being bid.
Does your bid comply? Yes No
4.1 BODY STRUCTURE ALLOY: The side, roof, front and rear sheets shall be derived from .090 thick 5052-H-32 Aluminum sheet. The roof sheet shall be one piece, from roof rail to roof rail. The side, roof and floor structure and structural shapes shall be 6005-T5 extruded aluminum.
All frame and structural members shall be MIG (metal inert gas shielded) welded together to form a "roll cage" type structure. No rivets, screws, adhesive or other mechanical fasteners shall be used for the attachment of any structural or frame member used to form this critical structure.
Does your bid comply? Yes No
4.2 BODY WARRANTY: The body shall carry a 15-year warranty following the date of delivery to the end user. The warranty shall cover repairs or replacement of body elements or components that fail due to structural defects in materials and workmanship. "Life Time Warranties" shall not be acceptable, unless the protection coverage is CLEARLY specified and attached in its entirety, with the bid. Hollow, no content and/or unclear "Life Time Warranties" are not acceptable.
Does your bid comply? Yes No
4.3 STRUCTURAL INTEGRITY: The body shall be capable of providing impact, deformation and penetration resistance in the event of a collision. The body structure shall be capable of passing a stand-alone static load test on a type-tested body. The test shall be conducted in accordance to AMD Standard 001. The test weight shall be applied at no less than 2.5 times the curb-weight of the finished vehicle to both the top and either the streetside or curbside of the ambulance module.
Does your bid comply? Yes No

4.4 BODY PANEL MANUFACTURE: Each body panel, front wall, rear wall, two side walls, and roof panel, shall be manufactured utilizing .090" aluminum sheet, 2"x2"x.125" and 1"x2"x.125" 6061-T6 extruded structural aluminum framework with voids between the tubular structure filled with 2" thick block polystyrene and covered with .125" laminated Luan. These panel components shall be integrated utilizing high strength adhesives. The aluminum sheet shall be attached to the wall structure with a Methacrylate adhesive with at shear and tensile strength of approximately 2,215 psi and a tensile modulus of 157,090 psi. The block foam and ply shall be attached with a urethane adhesive with a minimum tensile strength of 300 psi. The entire assembly shall be vacuum cured to form a solid, penetration resistant composite body panel. In no case shall screws, rivets, VHB tape or any other mechanical fasteners be used to attach the skin to these structural members.

The two body side panels shall overlap the front and rear wall by ¾" and the four vertical corners shall be full-seam welded top to bottom on the outside and interval/stitch-welded every 5" along the inside. The roof panel shall overlap the front rear and side walls by ¾" and all four sides along the exterior roofline shall be full-seam, full perimeter welded roof panel to walls and interval/stitch-welded every 5" inside.

Does your bid comply? Yes No
4.5 MODULE INSULATION: The insulation material installed in the walls and ceiling shall be 2" thick, 1-lb. high density block foam insulation. The material shall be cut so that it fits securely between the structural wall members and will be installed with a full urethane coating along both sides of the material to provide a permanent bond between the outer wall skin and the interior liner. The front, side, rear and roof wall panels will be filled providing full wall insulation.
Does your bid comply? Yes No
4.6 REMOUNTABLE: The body shall be designed to be remounted to like chassis with same cab-to-axle dimensions.
Does your bid comply? Yes No
4.7 WELD QUALITY: All welds within the modular body shall meet American Welding Society codes for structural and sheet welding. All weld sites shall be cleaned prior to welding. All welds shall be free of cracks, cavitations, oxidation and foreign substances. All MIG welds shall be shielded with Argon, during the process.
Does your bid comply? Yes No

#### 5.0 FLOOR CONSTRUCTION

5.1 FLOOR MEMBERS: The floor shall be at the lowest level permitted by clearances and shall meet the floor height requirements of KKK-A-1822F, 3.4.10.6. The floor structure shall consist of 2" x 2" x .250" and 2" x 2" x .125" 6061-T6 primary and 1" x 2" x .125" 6061-T6 secondary structural aluminum tubing. The finished assembly shall be full length welded to the wall structures at all contact points above and below the side, front and rear walls. There shall be .50" aluminum plates welded into the floor structure to facilitate mounting of the Technician's

seat base and the cot retention hardware. The floor weight bearing capability shall be compliant with AMD Standard 020- Floor Distributed Load Test, S4.3 Bariatric Load.
Does your bid comply? Yes No
5.2 MOISTURE BARRIER: Over the floor substructure there shall be applied a moisture barrier of .060 inch thick aluminum skin. This skin shall be attached to the floor structure by a full bed application of a high performance elastomeric adhesive/sealant. This adhesive bed shall be adequate to eliminate any material vibration and to completely seal the patient compartment from fumes and moisture penetrating the interior.
Does your bid comply? Yes No
5.3 CARBON MONOXIDE PROTECTION: To prevent carbon monoxide penetration into the patient compartment, it is imperative that the entire underside of the modular body be sealed. All hollow corner structural materials shall be sealed with either expansion moisture resistant, closed cell foam or sealed metal plates. This completed vehicle shall be compliant with AMD Standard 007- Patient Compartment Carbon Monoxide Test.
Does your bid comply? Yes No
6.0 SIDE STRUCTURE
SHEET: The skin covering the front, sides, and rear walls shall be a single aluminum sheet with an alloy and temper strength of 5052 H32 for strength, ease of welding, and corrosion resistance. Modular bodies fabricated from "multi-piece" front, rear or side skins are not acceptable to this agency.
These panel components shall be integrated utilizing high strength adhesives. The aluminum sheet shall be attached to the wall structure with a Methacrylate adhesive with at shear and tensile strength of approximately 2,215 psi and a tensile modulus of 157,090 psi. The block foam and ply shall be attached with a urethane adhesive with a minimum tensile strength of 300 psi. The entire assembly shall be vacuum cured to form a solid, penetration resistant composite body panel. In no case shall screws, rivets, VHB tape or any other mechanical fasteners be used to attach the skin to these structural members.
Does your bid comply? Yes No
6.1 SIDE STRUCTURAL MEMBERS: The side assembly shall be reinforced vertically with extruded square aluminum structural tubing a minimum of sixteen (16) inch centers. These structural members shall be 2" x 2" x .125" 6061-T6 structural aluminum tubing. To minimize the possibility of the extrusion bending, twisting or suffering other deformation when stressed, the extrusion shall be designed that each boxed formed corner extrusion on the sides, front, rear,

with extruded square aluminum structural tubing a minimum of sixteen (16) inch centers. These structural members shall be 2" x 2" x .125" 6061-T6 structural aluminum tubing. To minimize the possibility of the extrusion bending, twisting or suffering other deformation when stressed, the extrusion shall be designed that each boxed formed corner extrusion on the sides, front, rear, and roof overlap the opposing extrusion, thus allowing for full length vertical welds on the entire outside of the body and interval welds on the inside of the body. There shall be .50" aluminum plates welded into the curbside and streetside wall structure to facilitate the mounting of a V-4 4-point harness restraint system. Each harness restraint system/seating position along the curbside or streetside wall shall be pull tested to 6,000 pounds. These structures shall be MIG welded together to form the body's roll cage and corner impact protection.

Does your bid comply? Y	Yes N	0
four full-welded horizontal roo corner extrusion bonded with L and an elastic modulus of 130 aluminum corner caps shall be	of seams shall be Lord's 406-17 ac 0,000 psi creating e seam-welded ed, drilled or pu	The four full-welded vertical corner seams and be covered with .125" extruded aluminum, radius crylic adhesive with a tensile strength of 4,650 psi ag an integrated corner support column. The cast in place. All exterior body holes for lighting or nached prior to prime and paint process to assure les.
Does your bid comply? Y	Yes N	0
7.0 ROOF CONSTRUC	CTION	
7.1 PERIMETER EXTRU perimeter extrusions, lateral roo		roof's substructure assembly shall consist of erconnecting corner caps.
Does your bid comply? Y	Yes N	0
skin shall be attached to the la Methacrylate adhesives applie	ateral roof bow ed prior to a skin to the struc	re an alloy and temper strength of 5052 H32. The s with a combination high strength urethane and vacuum bonding process to provide even and etural extrusions. In no case may screws, rivets or e skin to the lateral roof bows.
Does your bid comply? Y	Yes N	0
2" x .125" 6061-T6 secondary MIG welded together to form to so that the roof skin is supported shall interconnect with the roof case shall a lateral roof bow have aluminum plates welded into the dome lights. There shall also be mounting of the overhead grab	the body's "roll and on a minimum of side rails and be the roof structure a .250" aluminum orail and a cargled into the roof W hangers.	hall be 2" x 2" x .125" 6061-T6 primary and 1" x tural aluminum tubing. These structures shall be cage". These structural members shall be located m "center" distance of 14 inches. The roof bows be continuously welded at all contact points. In no more than 42 inches. There shall be eight (8) .125" to facilitate mounting of the patient compartment m plates welded into the roof structure to facilitate onet at the head of the squad bench. There shall a structure to provide secure mounting support for
mating walls at the corners. In	n addition, the cast aluminum	sions shall be welded together along the roof bow outer surfaces of the roof rail extrusions shall be corner castings. The castings shall have integral int.
Does your bid comply? Y	/es N	0
8.0 DOOR CONSTRUC	CTION	

8.1 DOOR SKIN: The door skin shall be .090 thick 5052-H32 aluminum sheet CNC cut and formed to create a robust, crevice free environment to mirror the mating surface of the door jamb extrusions and to provide optimum paint adhesion and corrosion resistance. The formed edges shall not have elongation cracks due to forming but shall have edges uniformly rounded for strength and aesthetic appeal. The forming process will produce a door with an integral surface for mounting a pliable air core rubberized neoprene gasket around the full perimeter of the door that will seat and seal against the mating surface on the door jamb. The CNC process will provide the cut-out for windows, latches, door panel mounting holes and hinge mounting points all machined into the finished raw door. The CNC cut, fold and weld process provides a guaranteed consistent tolerance within 1/5,000<sup>th</sup> of an inch which yields a finished product that is consistently repeatable and easily replaceable in the event of damage.

Does your bid comply? Yes No
8.2 DOOR PANELS: The inside door panels shall be made of .090" aluminum sheel laminated to match the interior of the unit. There shall be an aluminum diamond plate kick panel installed to protect the lower portion of the entry doors. Exposed, raw, sheared, unfinished sheet-metal edges are not acceptable. The panels shall be fastened to the door with Phillips head stainless steel, #10-32 machine screws with rubber washers to assist in cushioning the impact of door closure. The kick panel shall measure approximately 8" x 20".
Does your bid comply? Yes No

8.3 DOOR JAMB: The door jamb shall be an extruded aluminum extrusion measuring approximately 2.725" x 3" with no less than .1875" wall thickness to accommodate rigid fastening of compartment door hinges, and the TriMark cage nut assemblies that are used to secure nadir pens. The corners of the extruded door jamb shall be CNC mitered, fixture fit and welded full perimeter to hold the door opening square. The mounting and access points for the nadir pens shall be CNC routed for precision and repetitive consistency. The door jamb shall have a full perimeter flange that shall be secured to the body side skin with 3M panel bond adhesive rated at no less than 2,150PSI. The jamb shall also be secured with ¼" x 20 Type "F" self-tapping, stainless steel sheet metal screws installed around the full perimeter of the framed door opening into the wall structure that is welded into place around the door opening in the side wall structure. The jamb shall be CNC to accommodate the consistent placement of the TriMark cage nuts used to mount the Nader pins and for consistently locating the door hinge.

Does your bid comply? Yes No	
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8.4 HINGE: All doors shall have stainless steel, continuous, piano hinges. The pin diameter shall be .250"and staked into place to prevent drifting out of the hinge leaves. The knuckle lengths shall be 1". Alternating mounting slots shall be incorporated in the hinge to facilitate fine adjustment. The hinge attachment bolts shall be ½" x 20 x 1" long stainless steel Type "F" pan head screws. The screws shall be spaced 4 inches apart on each leaf for the full length of the hinge. The tapping points along the door and jamb shall be designed in and CNC placed for consistently repetitive production and ease of replacement. The hinges for each individual door shall be identically cut for all common door heights and the CNC process used to fabricate the door and jamb shall insure that all of the door components are easily replaceable and interchangeable.

Does your bid comply? Yes No
8.5 LATCHES: All exterior door latches shall be TriMark two stage, rotary type latches with and OEM installed emergency release mechanism that meet FMVSS 206 requirements for door locks and door retention components. The latches shall be through bolted to the door with 5/16 UNC countersink, machine type bolts and lock nuts that comply with the latch manufactures requirements. All entry doors shall have two rotary latches per door. To assure uniform latch timing and functional door reliability, only straight, 3/16" diameter rods shall connect the latches to the handle. All latch timing shall be set at the handle site. Other than at the latch site, bends in door latch rods are NOT acceptable.
The Nader pins for each door latch shall be installed through the door jamb into TriMark cage nut assemblies designed to be through bolted into the door jamb extrusion with grade 8 machine type bolts per the manufacturer's requirements. The cage nut assembly will support the mounting nut should the Nader pin need to be removed for maintenance or service.
All single, short compartment doors shall have one rotary latch. All double doors or tall compartment doors shall have two rotary latches per door. All Nader pins shall be headed to prevent the door(s) from opening under impact.
Does your bid comply? Yes No
8.6 EXTERIOR HANDLES: TriMark powder coated black finished, free floating exterior paddle handles shall be provided to open all doors. Blind fasteners shall be used to fasten the handles to the door. Exposed fasteners to the outside are unacceptable for security reasons. Paddle handles shall have an isolation gasket between the paddle body and the door skin. All door skin surfaces shall be CNC cut to produce a uniform fit and shall be painted prior to installation of the hardware. The handle shall be long enough to accommodate four gloved fingers for door actuation. All paddles on single doors and leading double doors shall be locking type and keyed the same. Trailing doors shall have non-locking paddle handles mounted on the interior door panel. The inner side of all exterior handles shall have a strip of 3M Safety Grip material installed to provide a slip resistant surface in bad weather. When locked, the paddle handle shall "float" to prevent unnecessary pressure being applied which may damage the handle and function as a signal that the handle is locked.
The rotary latches for each door shall be fit with metal rods, individually clipped to both the latches and the paddle handles. The rods shall be designed to be adjustable; however, they will be secured when adjusted so that they cannot voluntarily move. The door latching assemblies as a whole shall be fully tested to comply with FMVSS 206 requirements including 30G testing, no exceptions. A copy of the testing certificate validating the door system and testing shall be provided with the bid.
Does your bid comply? Yes No
8.7 INTERIOR HANDLES: A Lock/Unlock lever shall be installed and be clearly marked Lock/Unlock. As a safety feature, the interior paddle handles on the curbside and rear entry doors shall be capable of unlocking and opening the door without switching the Lock/Unlock

lever. The interior handles shall be powder coated black.

Does your bid comply? Yes No
8.8 WINDOWS: All entry doors shall be equipped with an upper window. The curbside entry door shall have a fixed pane window with a nominal area of 320 square inches. The rear access doors shall each have a fixed pane window with a nominal area of 320 square inches. All windows shall have anodized frames and blind inner mounting ring screws, fastened from the inside. The exterior portion of the frame shall have a full perimeter seal mated against the door skin. All glass shall be dark tinted safety glass compliant with FMVSS 205.
Does your bid comply? Yes No
8.9 DOOR CHECKS: All doors shall be equipped with a door check (hold open). The curbside entry door and exterior compartment doors shall have a gas strut mounted type of door check. The gas strut shall keep positive pressure on the door in the open and closed position. Door check brackets shall be bolted through overhead structure to provide a solid attachment to the door frame. All doors shall open 90 to 110 degrees, unless otherwise specified by the user.
Rear access doors shall open at least 150 degrees. The door checks shall be two pieces, heavy duty grabber type assemblies. The door shall have a ½" thick cast aluminum loop that plunges into a positive rubber/cast aluminum socket mounted on the body. Each component of the door checks shall be insulated from the skin with a rubber gasket. Each door-check component shall be rigidly mounted on the door or body by ¼" x 20 stainless steel machine screws tapped in ¼" aluminum plates permanently mounted behind the skin to stabilize the grabber.
Does your bid comply? Yes No
8.10 ENTRY DOOR ASSIST HANDLES: All entry doors shall be equipped with two-point, 1" diameter stainless steel, "handicap" style grab handles to aid in door closure and entry assistance. The handles shall run horizontally, directly above the inside door paddle handle. The assist handles shall be fastened directly to the horizontal door structure that is welded into the door assembly.
Does your bid comply? Yes No
8.11 DRIP RAILS: A drip rail shall be provided over each compartment to prevent water roll off from spilling into the opened compartment door. Drip rails shall be attached with double-sided adhesive for ease of replacement. Full height compartments are exempt because the perimeter roof rail drip rails cover these compartments.
Does your hid comply? Yes No

# 9.0 COMPARTMENT CONSTRUCTION & CONFIGURATION

9.1 MATERIALS: All exterior compartment walls, back and floor shall be constructed of smooth aluminum and coated with a rubberized polyurethane coating, Herculiner or equivalent. The ceilings and floor components shall be CNC cut, formed and welded to provide overlapping joints. The floors and ceilings are both welded and seam sealed as necessary to the walls and back prior to applying the rubberized coating. The compartment shall be designed so that the floor to the compartment will be below the lower edge of the door jamb.

Does your bid comply? Yes No
9.2 COMPARTMENT CONFIGURATION: The exterior compartments on this vehicle shall be as illustrated in the drawings attached to this Specification:  Drawing A- Curbside  Drawing B- Streetside
OXYGEN COMPARTMENT: An M-size cylinder retention bracket shall be provided to secure a vertically stored cylinder. The retention bracket shall be through bolted to the compartment wall backed by ½" aluminum plate with four 3/8-16 grade 8 bolts with grade 8 nuts. The retention bracket shall be powder coated steel and remain rust free for the life of the ambulance. The oxygen cylinder shall be attached to the bracket with three (3) spring-buckle webbed retention straps. The retention bracket shall be in compliance with AMD Standard 003-Oxygen Tank Retention System Static Test.  Compartment #1 shall be approximately: 19.25"W x 69.75"H x 15.75"D
Does your bid comply? Yes No
9.4 #2 STORAGE COMPARTMENT: This compartment shall be located just aft of the O2 compartment on the streetside of the module. It shall be configured for general storage or as specified by this agency.  Compartment #2 shall be approximately: 41.625"W x 37.625"H x 18.25"D
Does your bid comply? Yes No
9.5 #3 STORAGE COMPARTMENT: This compartment shall be located aft of the rear wheel well on the streetside of the module. It shall be configured for Backboard storage. Compartment #3 shall be approximately: 30.625"W x 53.625"H x 18.75"D
Does your bid comply? Yes No
9.6 #4 INSIDE/OUTSIDE COMPARTMENT: This compartment shall be located at the forward most curbside of the module. It shall be configured to provide exterior access to the interior ALS cabinet and the battery storage area located below the floor level of the ALS storage. There shall be a separate access door located below the floor level for maintenance and service to the vehicles battery storage area.  Compartment #4 shall be approximately: 19.125"W x 58.125"H
Does your bid comply? Yes No
9.7 #6 BACKBOARD COMPARTMENT: This compartment shall be located at the rearmost curbside of the module. It shall be configured to provide exterior access to the backboards. Compartment #6 shall be approximately: 17.75"W x 75.75"H x 20"D
Does your bid comply? Yes No

9.8 #7 STORAGE COMPARTMENT: This compartment shall be located at the curbside rear of the module. It shall be configured for miscellaneous storage. There shall be a 2" gas strut hold open device installed to hold the door open at approximately 90°. Compartment #7 shall be approximately: 17.75"W x 25.75"H x 16"D
Does your bid comply? Yes No
10.0 CORROSION: Anti-electrolysis procedures
10.1 EXTERIOR FASTENERS: Dissimilar metal contact is known to cause corrosion at fastener sites. All exterior device fasteners, especially light fasteners, shall not contact the painted aluminum surface. All fasteners that are not aluminum or plastic bodied are considered dissimilar. Each hole drilled after the prime and paint process shall be treated with an electrolysis corrosion control compound, ECK or equivalent prior to installation of the mounting screws. All mounting screws shall be stainless steel and shall be coated with the electrolysis corrosion control compound prior to installation.
Does your bid comply? Yes No
11.0 REAR BUMPER
11.1 FRAMING: The rear step bumper shall meet or exceed KKK-A-1822F 3.9.6 and be compliant with AMD Standard 018. The bumper shall be a minimum 1/8" welded tubular steel frame with a ¼" flange designed to be bolted directly to the chassis frame without cutting, drilling or welding. The frame shall be bolted with a minimum four ½" steel bolts, washers and nylon lock washers on each side. In addition the bumper will be configured so that the bottom of the bumper shall be mounted below the body skirt-line. The steel bumper frame shall be powder coated black for a durable, corrosive resistant finish.
Does your bid comply? Yes No
11.2 CENTER STEP: A flip up step shall be provided to allow closer access to the patient compartment floor. The step shall be as wide as the rear access door jamb. The step shall have a grip strut surface for aggressive traction. Snow and ice shall not compromise the level of traction on the center step. A stainless steel piano hinge shall have a staked in, ¼"diameter pin, one inch knuckles and Type-F ¼"-20 stainless steel bolts every four inches.
Does your bid comply? Yes No
11.3 OUTER BUMPER PODS: The step bumper shall have an aesthetically pleasing appearance. The outer bumper pods shall be polished aluminum diamond plate. The outer corners shall be rounded to eliminate sharp corners around the working area. Each pod shall have a heavy duty rubber rear dock bumper attached to further protect the bumper.
Does your bid comply? Yes No

# 12.0 BODY PROTECTION

aluminum diamond plate fitted between the contour of the cab and the corner posts. The corner posts shall have 12" high formed diamond plate protection panels.
Does your bid comply? Yes No
12.2 REAR OF BODY: An aluminum diamond plate kick panel shall run from rear corner post to corner post and house a recessed, cast aluminum, license plate holder. The kick panel shall be 12" in height and shall extend downward from below the rear door jamb to the bottom edge of the body. The corner posts shall have 12" high formed diamond plate protection panels.
Does your bid comply? Yes No
12.3 LOWER BODY RUB RAILS: The entire skirt-line of the body, forward and aft of the rear wheels shall have extruded aluminum "C" channel skirt rails installed to protect the edge of the lower body. Each rail shall be chamfered 45 degrees at each end. The rails shall be mounted with ¼" x 20 stainless steel machine screws through 1/8" nylon spacers to prevent contact between the rub rail and the modular body. There shall be a ¾" white reflective stipe installed down the center of the rub rail, full length.
Does your bid comply? Yes No
12.4 REAR ENTRY DOOR: At the rear entry doors, a full width, formed, stainless steel threshold protection plate shall be provided to prevent the cot frames from causing damage to the body and the entry level floor. The threshold shall have a high quality anti-skid material applied in full width strips to provide a slip resistant step into the patient compartment.
12.5 SIDE ENTRY DOOR: An aluminum diamond plate threshold shall be installed at the transition point between the side entry step well and the patient compartment floor. The threshold shall have a high quality anti-skid material applied in full width strips to provide a slip resistant step into the patient compartment.
Does your bid comply? Yes No
12.6 FENDER FLARES: The rear fender flares shall be stainless steel. The fender flares shall be through bolting around the wheel well opening with ½"-20 stainless steel pan head bolts coated with an anti-corrosion chemical.
Does your bid comply? Yes No
13.0 CABINETRY
13.1 SUBSTRATES: The interior cabinets and components shall be constructed of high quality, domestic grade plywood. The exposed layers shall be hard wood on both sides of the sheet. The layers shall be free of voids between layers. Cabinet interiors shall be made from 3/8" or 1/2" thick, 5-ply plywood determined by the application for each. Bench lids, doors and the primary cabinet fascia shall be made from 3/4" thick, 7-ply plywood.
Does your bid comply? Yes No

13.2 CABINET INTERIOR FINISH: Cabinet interior shall be laminated with white colored, high impact, abrasion resistant laminate. The contact adhesive shall be a high bond contact adhesive, specifically designed to bond plastic laminates to wood. Painted cabinet interiors are not acceptable.
Does your bid comply? Yes No
13.3 FLOOR AND SUBSTRATE: The sub floor of the module shall be 3/4" thick, 7-ply, marine grade plywood. The vinyl floor covering shall be Lonseal Flecks.
Does your bid comply? Yes No
13.4 LAMINATE: A high impact, phenol backed, high impact, and abrasion resistant laminate shall be used. The laminate shall be selected from the ambulance manufacturer's samples. The material shall be standard grade. This material as well as all interior components shall meet or exceed F.M.V.S.S. #302 (Burn Rate of Interior Components).
Does your bid comply? Yes No
13.5 CABINET ASSEMBLY: To maximize fastener bite, cabinet substrate parts shall be stapled with pneumatic fired equipment. Staples shall be placed on two-inch intervals along the corner joints. In addition to staples, the entire cabinet assembly must be screwed together with a minimum #8 screw size and a length not less than 2 times the thickness of the pierced substrate. Screw heads shall be counter-sink type and driven flush. Cabinet fascia shall be CNC cut or drop cut to eliminate the use of cleats or stick built components. The use of stick built components or dowel pin type assembly to create cabinet components will not be acceptable.
Does your bid comply? Yes No
13.6 CABINET TRIM: All trim throughout the interior conversion shall be anodized aluminum or formed stainless steel. All exposed corners within the patient compartment shall have either padded or rounded corners. Excess adhesive-sealant shall be removed. Intermittent placement of screws is not acceptable due to cleaning difficulty inherent in screw head design.
Does your bid comply? Yes No
13.7 FIT AND FINISH: Mitered joints throughout the interior conversion shall have a gapless, hairline fit. Openings and misalignments at the corners are not acceptable. Misapplied trim to cover manufacturing mistakes is not acceptable solutions to poor design and/or workmanship. Doors shall be warp free. Sliding polycarbonate door assemblies shall be scratch free and all edges shall be smooth and free of saw marks and sharp edges. Cabinet to cabinet joints shall not require more than 7/32" diameter welting to create a finished/well-fit look. Cabinets shall fit tightly against the ceiling without the use of vinyl covered trim pieces to cover the seam between cabinets and ceiling.
Does your bid comply? Yes No

shall slide in and out freely, without drag. All drawers shall be mounted on side mounted, full-extension drawer slides, rated at no less than 75 pounds per pair. All hinged wood-core doors shall have positive latches.
Does your bid comply? Yes No
13.9 SLIDING POLYCARBONATE DOORS: Polycarbonate shall hereinafter be identified as "Lexan". All interior cabinets requiring the sliding, transparent Lexan door assembly shall have a mitered, anodized aluminum frame. The Lexan shall be a minimum of 3/16 inch thick.
Each door shall be fitted with a full height, extruded aluminum door handle. The door pull extrusion shall also stiffen the ends of the doors. The door track/frame extrusion shall incorporate a flocked natural rubber track insert to prevent the doors from sliding free during transit. All extrusions shall be anodized.
Does your bid comply? Yes No
13.9 HINGED ACRYLIC DOORS: All interior cabinets requiring a hinged, transparent Acrylic door assembly shall have a ½" smoked acrylic door installed.
Does your bid comply? Yes No
14.0 CABINET CONFIGURATION
14.1 STREET SIDE: As required by this purchaser, a CPR seat shall be provided on the street side cabinet wall. The cabinets shall be easily accessible over the primary cot. The cabinet configuration as shown in the attached CAD files.
Does your bid comply? Yes No
14.2 CURB SIDE: A two position squad bench shall be installed. Two sets of EVS V-4 four point belts shall be supplied. The belts shall restrain two seated occupants or one secondary patient, on a back board. All seat belts and anchorages shall comply with F.M.V.S.S. 209 and 210. A progressive foam padded back and head rest shall be supplied for all seated personnel along the squad bench. The cabinet configuration and dimensions shall comply with the drawings attached. Squad bench lid shall utilize gas struts as support when opened and shall have a positive paddle latch to hold the lid in the closed position.

FUNCTION: Doors and drawers shall fit the opening. Flush fitting doors shall have even

door to opening spacing around the perimeter. All doors shall open and close bind-free. Drawers

There shall be two cabinet mounted on the wall above the squad bench. These cabinets shall be approximately 8.25"H x 30"L x 7"D. The cabinets shall be mounted end to end and shall include a hinged ½" acrylic door with flip latch mounted on each section.

Located in the forward section of the squad bench shall be a separate locking door with a drop in area for sharps and trash containers. Access to these containers shall be through a flip up Lexan lid – red in color and marked with the "BIOHAZARD" symbol.

A cargo net shall be installed at the forward end of the squad bench bolted into the wall ceiling
and forward face of the bench. All attachment point shall have the proper steel backer plates
installed for attachment.

Does your bid comply?	Yes	No			
14.3 REAR OVERHEA the rear doors configured a			•	e box shall be in	stalled over
Does your bid comply?	Yes	No			
14.4 DICHT EDONT (	CADINET, TI	aa riaht f	rant aghinat is l	anninaftan Irnayy	m og "AIC

14.4 RIGHT FRONT CABINET: The right front cabinet is hereinafter known as "ALS Cabinet". The ALS cabinet shall be finished in color keyed laminate. The cabinet shall extend from the ceiling to the floor and shall be separated into three sections. The upper section shall approximately 20"H x 25.5"W x 22.5"D. I shall have two solid ¾" wood doors with Southco chrome flip latches to secure the doors. The center section shall be approximately 27.25"H x 25"W x 22.5"D and shall have vertically hinged Plexi doors and one adjustable shelf. The lower section shall be approximately 14.75"H x 25"W x 22.5"D with a locking lower section secured by a GE Security Supra Push button lock. The door on the lower locking section of the ALS shall be ¾" wood. The top two areas of the ALS Cabinet shall be accessible from the exterior of the vehicle which will have a full height locking door. The lower are will have interior access only.

Does your bid comply?	Yes	No
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#### 14.5 STREETSIDE WALL CABINETRY:

Cabinet "A1" shall be located at the upper rear of the CPR seat. The cabinet shall have sliding Lexan doors and shall include 1 adjustable shelf. Cabinet "A1" shall be approximately 22.25"H x 22"W x 15"D

Cabinet "B1" shall be located aft of the CPR seat and above the monitor shelf aft of the CPR seat. The cabinet shall have sliding Lexan doors and shall include 1 adjustable shelf. Cabinet "B1" shall be approximately 15.25"H x 25.5"W x 15"D

Cabinet "B2" shall be located aft of the CPR seat and below the monitor shelf. The cabinet shall have sliding Lexan doors. Cabinet "B2" shall be approximately 11"H x 25.5"W x 18"D

Cabinet "C" shall be located above the action area for storage of medical tubing, air ways, and ventilation face masks. This cabinet will hereinafter be described as the "Action Area Overhead cabinet". The Action Area Overhead cabinet shall have the dimensions as shown on the attached CAD drawings. The Action Area Overhead cabinet will include 1 adjustable shelf. Cabinet "C" shall be approximately 17.5"H x 39.75"L x 15"D.

The CPR seat shall be approximately 32"W. The seating area shall be equipped with a hinged lid for access to the storage area below the seat. The seat/lid shall include a 2" cushion approximately 18" x 26" and shall be secured by a TriMark powder coated black, recessed latch. The back wall of the seating area shall include a formed, progressive foam backrest designed for the EVS/V-4 seat belt system to absorb energy in the event of an accident. Unless otherwise specified, an automotive style EVS V-4 harness/belt assembly shall be provided. Under no circumstances will a two point belting system be acceptable.

Does your bid comply? Yes No
14.6 ACTION AREA COUNTERTOP: The countertop surface shall be a color coordinated laminate. The edge of the action area shall have a lip to prevent items from sliding to the floor. Action areas will be located on both sides of the CPR seat. The action area forward of the CPR seat will hereinafter be called the EMSP Action Area. The action area shelf shall be approximately 43.5"L x 18"D. A pull out drawer shall be installed in the face of the action area. The drawer will protrude in the exterior number #2 compartment and will be finished off with an aluminum diamond plate cover.
Does your bid comply? Yes No
14.7 TECHNICIAN'S SEAT: The Technician's seat shall be steel framed, high back contoured style captain's chair with a Four Point belt assembly. The seat shall be color matched to other upholstery within the patient compartment. The seat base shall be a black, powder coated steel box. The Technician's seat shall be fastened with Grade 8 fasteners through the top of the seat base which is secured with Grade 8 fasteners through the floor and through 3/4" aluminum mounting plates welded into the floor structure.
Does your bid comply? Yes No
14.8 WALK-THRU CABINETS: Located in the pass-thru area of the module behind the Technician's Seat shall be two additional storage cabinets. These cabinets shall each be designated as general storage. The upper cabinet "D" shall be approximately 23.5"H x 20.75"W x 17.25"D. The lower cabinet "E" shall be approximately 23.75"H x 20.75"W x 17.25"D. Cabinet "E" shall include the onboard battery charger, the pre-wire for the inverter and the vacuum pump.
The lower cabinet shall be the mounting location for the inverter pre-wire and the electric vacuum pump. The upper cabinet shall be for general storage.
Does your bid comply? Yes No
14.9 WALK-THRU OVERHEAD CABINET: Located above the walk-thru area shall be one cabinet designated for the 12VDC electrical control panels. The cabinet shall be fitted with hinged ¾" plywood door and Southco chrome flip latches to secure the door. The latch on the cabinet shall be locking.
Does your bid comply? Yes No
14.10 OCCUPANT HEAD CLEARANCE ZONES: All designated occupant seating positions in the vehicle described in the Specification shall be in compliance with AMD Standard 025-Measuring Guidelines: Occupant Head Clearance Zones.
Does your bid comply? Yes No
15.0 UPHOLSTERY

15.1 UPHOLSTERY MATERIALS: All padding and upholstered seating shall be covered in vacuum formed vinyl. Sewn, exposed seams in the seat covers and cushions are not acceptable.
The color shall be selected by the purchaser to coordinate with the laminate selected.
Does your bid comply? Yes No
15.2 SEAT / BACKREST CORE MATERIAL: The foam shall meet Federal Specification KKK-A-1822F 3.11.4. All seating and trim materials shall meet or exceed FMVSS 302-Flammability of Interior Materials.
Does your bid comply? Yes No
16.0 INTERIOR HARDWARE
16.1 OVERHEAD ASSIST RAIL: This rail shall be naturally accessible to assist working attendants in maintaining their balance. The rail shall meet or exceed Federal Specification KKK-A-1822F and comply with AMD Standard 008- Patient Compartment Grab Rail Static Load Test. The rail shall be approximately 1.25" diameter, handicap style, brushed stainless steel and 72" long. The rail shall be located over the primary patient.
Does your bid comply? Yes No
16.2 COT RETENTION DEVICE & PRIMARY COT: The main cot retention device shall be a Stryker Performance Load System mounted in the center position. The purchaser shall specify the model of cot to be retained by the device. The installed cot retention device shall be in compliance with AMD Standard 004 and SAE 3026 as required by K^3 CN8.
Does your bid comply? Yes No
17.0 OXYGEN, VACUUM SYSTEMS
17.1 MAIN OXYGEN SUPPLY: The manufacturer shall provide a certified cylinder mount designed for storage of one (1) M-sized oxygen cylinder. The cylinder and its retention components shall be located in the streetside front exterior compartment as specified in 9.3 of this Specification.
The Oxygen System shall also include a 50 PSI, pre-set Oxygen Regulator.
The retention bracket shall be positioned so that the cylinder's main valve and regulator are visible through a Lexan viewing window in the forward end of the EMSP Action Area.
Does your bid comply? Yes No
17.2 OXYGEN OUTLETS: The oxygen supply system shall be installed in the patient compartment in compliance with KKK-A-1822E. Unless otherwise specified, the system shall consist of three Ohio style oxygen outlets in raised trim rings. Two outlets shall be located on the action wall and one outlet shall be located on the forward end of the curb side wall above the

removing the front plate, thereby not compromising integrity of the system with field changes.
Does your bid comply? Yes No
17.3 OXYGEN HOSES: All oxygen system service hoses, fittings and devices shall be made of non-ferrous materials. Hoses used to pipe Medical Oxygen shall be ¼" inside diameter with an abrasion resistant, green colored, electrically conductive outer jacket. All hoses shall withstand a system test pressure of 200 PSI test as prescribed in Federal Specification KKK-A-1822F 4.4.1 and AMD Standard 015- Ambulance Main Oxygen System Test. Each ambulance shall be tested. "Type Testing/Certification" is not acceptable.
Does your bid comply? Yes No
17.4 VACUUM (SUCTION) SYSTEM: A 12-Volt DC electric vacuum pump shall be installed in the lower walk-thru cabinet forward of the Technician's Seat. The pump shall meet performance guidelines set forth by Federal Specification KKK-A-1822F 3.12.2 and AMD Standard 021- Aspirator System Test, Primary Patient. A variable vacuum regulator and gauge panel shall be installed in the action area control panel. The vacuum regulator shall control the vacuum pressure delivered to a Rico RS-4X collection system with a disposable collection canister. The Vacuum gauge shall not be mounted on the collection canister but on the Action Area wall and be hard-plumbed to the electric vacuum pump. Each ambulance shall be tested. "Type Testing/Certification: is not acceptable.
Does your bid comply? Yes No
18.0 ELECTRICAL SYSTEM – 12-Volt Direct Current
The 12 VDC Electrical system installed in this vehicle must comply with AMD Standard 005-12-Volt DC Electrical System Test. This electrical System shall be covered under the manufacturer's Warranty for a period of 72 months (6 yrs) or 72,000 miles which ever shall occur first.
18.1 BODY GROUNDING: A minimum of (2) two 1" wide braided ground straps shall be bolted through the chassis frame and the floor structure of the modular body. The bolts shall be 3/8" diameter. A flat washer shall be provided under the head of the bolt, over the strap lug and an internal tooth lock washer shall be installed under the lug to preclude loosening. Chassis frames with asphalt/wax coating or E-coating shall have grounding sites prepared by lightly grinding or sanding the coating away to reveal raw metal.
Does your bid comply? Yes No
18.2 GENERAL GROUNDS: To comply with federal specification KKK-A-1822F 3.7.12 plus enhance ground quality and reduce trouble shooting time, all devices wired within the ambulance conversion shall be <u>centrally</u> grounded on a ground bar located in the Electrical Cabinet. The ground bar is grounded to the chassis frame by a 2/0 AWG cable and attached in the same manner as the braided body ground cables. Each device shall have a separate ground

squad bench. This system shall be set up so a change in outlet style is readily made by just

wire routed to a central buss bar then grounded via fine strand cable to the module body.

Does your bid comply?	Yes	No_	
			the ambulance harnesses shall meet Federal All wire insulation shall be GXL cross-linked
length of the wire. Wire con-	ductors shall	be stra	shall be stamped on 4" centers along the full anded copper. Single strand copper conductors and stiffness which promotes loosening of the
Does your bid comply?	Yes	No_	
convoluted loom with a melti- be clamped and routed to eli made of rubber or plastic shal and irregular shaped wire	ng temperatur minate possib Il be used whe passages sha s shall be nea	re of 30 bility of the control of th	he conversion shall be protected and run in split 00 degrees Fahrenheit. All wire harnesses shall of damage due to cut/chaffed wire. Grommets messes pass through metal or wood. Large holes automotive edge trim to protect the wire amped into protective routing areas away from .
Does your bid comply?	Yes	No_	
proprietary, manual reset, circ	cuit breakers. eakest compo	The tri	12VDC circuits shall be protected by non-ip value for the breaker shall not exceed 80% of a the circuit. Branch circuit wire sizes shall be 2F 3.7.2.1.
Does your bid comply?	Yes	No_	
supplied; one (1) in the action separately protected and sha	on area and on all be electric	one (1) cally is	DC, 20 Ampere, cigarette style outlets shall be in the ALS compartment. Each outlet shall be solated from other electrical functions on the pecification KKK-A-1822F 3.7.7.3.
Does your bid comply?	Yes	No_	
19.0 ELECTRICAL SY	STEM- 125	5 VOI	LT Alternating Current
19.1 The 125 VAC Electric	cal System de	escribe	d in this Specification shall comply with AMD

19.1 The 125 VAC Electrical System described in this Specification shall comply with AMD Standard 009- 125-Volt AC Electrical Systems Test. This electrical System shall be covered under the manufacturer's Warranty for a period of 72 months (6 yrs) or 72,000 miles which ever

shall occur first.

19.2 PRIMARY SHORELINE INLET: The 110V electrical system shall be furnished with a 125VAC 20 amp straight blade shore power inlet incorporating a male plug and shall be located on the street side of the module aft of the #1 compartment and above the #2 compartment. The inlet shall have a spring-loaded, weather proof cover. The circuit shall be ground fault and circuit breaker protected incorporating a manual reset switch control (GFI) with a UL approved

QO type single phase load center located behind the driver seat in the cab. All 125VAC wiring shall be 12 gauge. All 125 volt AC wiring connections shall be made in UL approved junction boxes. A battery charger pigtail with female plug will be routed to the battery charger prewire area.

	your bid comply?		No  ude a Vanner 1050 watt inverter with a 55 amp
battery wiring locate	y charger built in to the g to all 125 Volt AC ou d on the rear action par ection 250-6 (Portable a	unit. The inve tlets provided i nel. This pre-wi	rter shall be wired to the shoreline inlet and output n the vehicle. There shall be a single on/off switch iring shall be in accordance to KKK-A-1822F 3.7.8.3 ounted Generators) of the National Electrical Code
Does	your bid comply?	Yes	No
19.4	BATTERY CHARGE	ER: The standa	rd battery charger shall be deleted.
Does :	your bid comply?	Yes	No
on the (Grou	wall of the main Act	tion Area. The Breaker. The o	Hospital grade, Straight blade outlet shall be provided outlet must be grounded and protected by a G.F.I. outlet must illuminate a green indicator light when
Does :	your bid comply?	Yes	No
in the	ALS cabinet. The capter) Breaker. The out	outlet shall be	Hospital grade, Straight blade outlet shall be provided grounded and protected by a G.F.I. (Ground Fault inate a green indicator light when power is applied to
Does :	your bid comply?	Yes	No
20.0	ENVIRONMENT	ΓΑL	

20.1 REAR AIR CONDITIONING: The design of the environmental system is to provide optimal air flow and distribution of conditioned air to the module interior. Conditioned air shall be discharged from one vent area and shall be distributed through five vents evenly spaced across the face of the upper section of the ALS cabinet. The module shall have an additional, self-contained A/C evaporator unit complete with dual blower, motor driven, high output fans. The fans shall be three speeds and shall contain a 720 CFM fan. The A/C unit shall also incorporate a hot water heater core for heat. All heater hoses shall be 3/4 inch QVM approved Nomex for improved circulation. Hot water flow shall be controlled by one (1) vacuum actuated inline water valves. All A/C fittings shall be ferruled, banded, or snap ring type. Clamps will not be acceptable.

British Thermal Units (BTU) in A/C Mode and 36,000 BTU in Heater Mode. The Vehicle A/C – Heater system must meet or exceed federal specification KKK-A-1822F 3.13.1 thru 3.13.3 and must be compliant with AMD Standards 011- Equipment Temperature Test, 012- Interior Climate Control Test.
Does your bid comply? Yes No
20.2 REAR AC CONTROLS: An ON/OFF switch shall be located in the action area. The aforementioned switch will not control fan speed, but indicate the selection of Heat/Off/Cool. A separate three-speed fan speed control switch shall be located in the action area control panel. Temperature settings shall be controlled by a simple rheostat controlled thermostat mounted on the Action Area switch panel.
Does your bid comply? Yes No
20.3 HVAC SYSTEM INSTALLATION & WARRANTY: The auxiliary heating and air conditioning system shall be installed in the ambulance at the ambulance manufacturer's facilities by technicians employed by the manufacturer of the HVAC equipment. Said technicians shall document the installation on forms provided by the HVAC manufacturer and on forms required by the ambulance manufacturer. Warranty on the installation of, and the equipment content and performance of the equipment, shall be the sole responsibility of the HVAC manufacturer.
Does your bid comply? Yes No
21.0 CONSOLES, SWITCH PANELS
21.1 CAB CONSOLE: The ambulance conversion control console shall be ergonomically designed, ABS plastic and molded to the contours of the engine cover. Sharp and other unfriendly edges shall be rounded. The body of the console shall be color keyed to the O.E.M. interior color. The console shall be easily removed from the engine cover to minimize engine repair time. The console shall include an electronic siren and a contoured switch panel.
The siren control head and contoured switch panel shall be within easy reach of the passenger and driver.
Two (2) large sized cup holders will be provided at the base of the cab console.
Does your bid comply? Yes No
21.2 SWITCH PANEL, CAB CONSOLE: A switch panel made from a thick, composite/acrylic sheet shall be installed on the forward end of the floor console. All switches and controls shall have back lighted legends indication function and status. The Switch Panel shall have the following minimum controls and indicators:

The valves shall operate with the heater/defrost controls. The unit shall be rated at least 32,000

8. Rear Flood Switch

9. Right Flood Switch

10. Back-Up Alarm Switch

1. Compartment Open indicator

2. Battery On indicator

3. Door Open indicator

21.3 SWITCH PANEL, ACTION AREA: A switch panel made from a thick, composite/acrylic sheet shall be installed on the outboard wall of the Action Area. All switches and controls shall have back lighted legends indication function and status. The Switch Panel shall have the following minimum controls and indicators:

No

- 1. Dome Lights, Cot Switch (Hi/Lo)
- 2. Dome Lights, Bench Switch (Hi/Lo)
- 3. Vacuum System Switch, red bezel
- 4. Exhaust Vent Switch
- 5. Inverter

Does your bid comply?

- 6. AC/Heat Selector Switch
- 7. AC/Heat Fan Speed Switch
- 8. Digital Clock
- 9. Module Disconnect
- 10. Thermostat

Does your bid	d comply?	Yes	No

#### 22.0 VISUAL CONSPICUITY - EXTERIOR LIGHTING

Yes

- 22.1 WARNING LIGHTS: The warning light system shall meet or exceed KKK-A-1822F as demonstrated with the documentation provided by the lighting manufacturer. Unless otherwise specified, the warning lights shall be configured like, and flash in compliance with, KKK-A-1822F 3.8.2.1, and Table 1.
- 22.2 DUAL MODE FLASHERS: A dual mode Primary/Secondary flasher shall be provided for the vehicle emergency warning light system as required in KKK-A-1822F. Lights shall be configured as depicted in the attached drawings and as described below:
  - 22.2.1 FRONT WALL: The front wall shall be configured with seven Whelen 900 Series LED warning lights mounted on the front of the body. These LED lights shall be configured: RED/WHITE/RED/WHITE/RED/WHITE/RED on the upper front wall. These lights shall be wired to flash in primary/secondary modes as required. The lenses shall be clear.
  - 22.2.2 WARNING LIGHTS- DRIVER SIDE: There shall be (2) Whelen 900 Series Red LED warning lights mounted on the driver side of the module. (1) In the upper forward and (1) in the upper rearward corners of the module. The lenses shall be clear.
  - 22.2.3 WARNING LIGHTS- PASSENGER SIDE: There shall be (2) Whelen 900 Series Red LED warning lights mounted on the passenger side of the module. (1) In the upper forward and (1) in the upper rearward corners of the module. The lenses shall be clear.
  - 22.2.4 WARNING LIGHTS— REAR: The ambulance shall be equipped with (3) Whelen 900 Series LED warning lights positioned on the upper module rear wall. The LEDs shall be configured as follows: Red//Amber//Red. The lenses shall be clear.

22.2.5 REAR MID-BODY WARNING LIGHTS: This unit shall be equipped with (2) Whelen 900 Series Red LED warning lights mounted on the rear of the module set to show through the rear door windows when the rear doors are open. These LED lights shall be Red and shall be wired to function as brake lights when not in emergency mode. The lenses shall be red.

22.2.6 GRILLE LIGHTS: This unit shall be equipped with (2) Whelen LINZ6R Series Red Super LED warning lights mounted on the upper chrome cross bar of the OEM grille in compliance with the OEM chassis manufacturer's guidelines and the lighting requirements of KKK-A-1822F. These LEDs shall function in the primary mode only. The lenses shall be clear.

22.2.7 INTERSECTION LIGHTS – CAB: This unit shall be equipped with (4) Whelen 700 Series Red LED warning lights. Two will be mounted in the forward area of the chassis front fenders in compliance with the OEM chassis manufacturer's guidelines and the lighting requirements of KKK-A-1822F. The remaining two will be positioned over the rear wheel wells. These warning lights shall function in the primary mode only. The lenses shall be clear.

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Does your bid comply? Yes No
22.3 TAIL LIGHTS: Tail light configuration shall be Whelen 600 Series LED Tail/Brake, Turn Signals and Back-up Lights installed w/ chromed bezels. These lights shall be stacked vertically above the diamond plate rear kick plate in the order presented above.
Does your bid comply? Yes No
22.4 I.C.C. LIGHTS: 3/4" round LED clearance lights shall be provided per FMVSS and D.O.T. Standards. The lights shall indicate the height and width of the vehicle and define the vehicle centerline. These lights will be mounted on the uppermost margins of the front and rear body. The lights shall be mounted in rubber grommets and the mounting location for each light shall be prepared prior to the paint process to reduce the possibility of paint break and resulting corrosion. Drilling or tapping through a painted body shall not be acceptable. There shall be five (5) amber clearance lights (Optronics LED model MCL11CAB) forward facing and five (5) red clearance lights (Optronics LED model MCL11CRB) rear facing. Additionally there shall be two (2) matching amber D.O.T. marker/directional lights mounted one (1) each side of the module on the rear corner extrusions and two (2) matching red D.O.T. marker lights mounted one (1) each side of the module on the rear corner extrusions. The D.O.T. market lights shall be located approximately 48" above ground level.
Does your bid comply? Yes No
22.5 LICENSE PLATE LIGHT: The license plate holder shall be a cast aluminum housing that is near flush mounted on the rear of the module. The housing shall be mounted in the lower diamond plate kick panel below the street side B/T/T lighting. There shall be two (2) LED lights installed to provide illumination to the license plate with the chassis park light circuit on.
Does your bid comply? Yes No

22.6 SCENE LIGHTS: Two Whelen 900 series scene lights shall be provided on each side of the module. The curbside lights shall come on when the curbside entry door is opened. The streetside and curbside scene lights may be turned ON/OFF with (2) two separate, right and left scene rocker switches located on the cab console switch panel. There will be a momentary disconnect switch located at the side entry door for disabling the scene lights during the daylight hours. Does your bid comply? Yes\_\_\_\_ No\_\_\_\_ 22.7 LOAD LIGHTS: Two Whelen 900 series halogen load lights shall illuminate the rear of the module. Both rear lights shall come on with the opening of the leading rear access door. These rear load lights will also activate when the vehicle transmission is placed in reverse or when the rear load switch in the cab console switch panel is activated. There will be a momentary disconnect switch located on the wall at the curb side rear entry door for disabling the load lights during the daylight hours. Does your bid comply? Yes No PERIMETER LIGHTING CERTIFICATION: To assure that the exterior work lighting is adequate to perform EMS functions in a variety of settings which may require exterior illumination, the Scene and Load lights installed on this vehicle shall comply with AMD Standard 024- Perimeter Illumination Test. Does your bid comply? Yes No SPOT LIGHT: A hand held 400,000 candle power, blue-eye spot light shall be provided in the cab. A chromed hook with spring retainer shall be included to stow the light. Yes\_\_\_\_ Does your bid comply? No 22.10 COMPARTMENT LIGHTING: The compartments shall be illuminated with Optronics ILL36CB LED Compartment lights. The lights shall function each time the compartment door is opened and extinguish when the door is closed. The lights shall be located: (1) Ceiling of Compt #1; (2) in Compt #2- (1) URH, (1) LLH; (1) in ceiling of Compartment #3; (2) in Compt #4/5; (1) in Compt #6. Does your bid comply? Yes No

#### 23.0 AUDIBLE CONSPICUITY

23.1 ELECTRONIC SIREN: The ambulance shall be equipped with an ignition powered Whelen 295SLSA1 200 watt siren mounted in the engine cover console.

There shall be a set of CPI polished cast aluminum 100 watt speakers mounted through the bumper on the outboard ends. The siren speakers shall not block air-flow into the grille per the OEM chassis manufacturer's guidelines. The siren and speakers shall meet or exceed KKK-A-1822F 3.14.4 and be compliant with AMD Standard 023- Siren Performance Test and AMD Standard 006- Patient Compartment Sound Level Test.

Does your bid comply? Yes No
23.2 BACK UP ALARM: The apparatus shall include a minimum 97 decibel back up alarm device. The alarm shall be automatically activated by shifting the vehicle transmission into reverse. The backup alarm shall include a rocker type cut-off switch located in the cab console Switch Panel. The alarm device shall be provided as required in KKK-A-1822F 3.15.2 and shall be compliant with SAE Standard J994.
Does your bid comply? Yes No
24.0 INTERIOR LIGHTING
24.1 ACTION AREA LIGHTING: A 12-volt LED light shall be provided directly over the forward, street side work surface. A near flush, 18 inch type fixture shall be provided. The light shall have an on-off rocker switch on the body of the light housing.
Does your bid comply? Yes No
24.2 STEPWELL ILLUMINATION: A 12 VDC LED light shall illuminate the curbside stepwell per Federal Specification KKK-A-1822F 3.10.12.
Does your bid comply? Yes No
24.3 PATIENT COMPARTMENT DOME LIGHTS: The patient compartment shall have ten (10) 8" 18 diode LED dome lights in the ceiling. The lights shall be arranged in two longitudinal rows of five (5) lights each. The streetside row shall provide light directly over the patient; the curbside row shall provide light directly over the aisle and squad bench. The four curbside lights shall be activated when the side or rear module entrance doors are opened on a five minute timer circuit. The dome lights and configuration shall meet KKK-A-1822F 3.8.4, 3.8.4.1 and be compliant with AMD Standard 016- Patient Compartment Lighting Level Test.
Does your bid comply? Yes No
24.4 CHECK-OUT TIMER: A 5 minute check-out timer shall activate by opening the rear or side entry door when the battery switch is off. The curbside bank of dome lights shall turn on in the "high" mode. Following the first 5-minute cycle the lights will deactivate. The cycle can be reactivated by closing, then re-opening the side or rear entry door.
Does your bid comply? Yes No

# 25.0 COMMUNICATIONS EQUIPMENT

25.1 COMMUNICATIONS RADIO ANTENNA PRE-COAX: The vehicle shall be equipped with two (2) RG58-U coaxial cables with termination location to be determined by the purchaser. A 12VDC power and ground lead shall also be provide for each coaxial cable. There shall be an 18" service loop at the starting point and a 36" termination loop. The radio power wires shall originate in the power distribution area and will be labeled appropriately for future installation by a radio technician.

Does	vour bid	comply?	Yes	No
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### 26.0 PAINT, LETTERING, DECALS, MISCELLANEOUS

26.1 100% PAINTFILM COVERAGE: All stages of primer and paint shall cover all weather-exposed surfaces. Hinge mating surfaces on the doors and jambs shall be painted. Bare aluminum and primer-only preparation is not acceptable under door hinges. Doors shall be painted without actuation handles installed. All body cutouts for emergency lighting, shoreline receptacle, etc., shall be cut prior to initiating the prime/paint process to assure complete coverage of all exposed, raw metal.

All of the module entry and compartment doors shall be removed prior to painting and be painted separately, at the same time and identically to the module process to insure complete coverage and electrolysis protection between the stainless steel hinge and the aluminum door and frame surfaces.

To reduce the risk of breaking paint and to provide a for a more consistently robust paint application, all light holes, the license plate bracket hole, gas filler bracket hole, all door window and handle holes and exhaust fan and any other option required mounting holes shall be cut in the module prior to beginning the paint process. Intersection light holes shall be cut in the chassis fenders and cut out must be coated with a corrosion resistant material to comply with Ford QVM requirements to prevent oxidation and rusting of the OEM metal surface.

The manufacturer's standard paint process shall provide that all surface body welds and imperfections be ground flush and body filled as needed to provide a smooth even surface that facilitates a flat smooth paint finish.

The entire exterior surface of the module shall be sanded with an air powered DA sander and a minimum 150 grit sand paper and then the module shall be washed with DX-330 cleaner/degreaser to remove any metal, oil or contaminant residue prior to the application of the seam seal process.

All exterior body seams shall be sealed with 3M panel bond/seam sealer to provide a smooth application environment for the prime and paint processes and to prevent future contamination, oxidation and corrosion.

The entire exterior surface of the module shall be coated with a primary coat of PPG "Delfleet" etch-coat primer, flash dried and then coated with a high performance PPG "Delfleet" primer sealer and baked to dry. The primer sealer coat shall be sanded to a flat smooth finish to eliminate all nibs and imperfections, inspected and etch primer/sealer applied where necessary and washed with DX330 to provide a clean, smooth surface prior to the application of the base coat application.

The entire exterior surface of the module shall be coated with an application of PPG "Delfleet" color mixed base coat. The base coat shall be baked to dry and inspected for imperfections. Minor surface repairs shall be utilized to provide a smooth surface prior to the application of the clear coat material. The entire exterior surface of the module shall be coated with an application of a PPG - "Delfleet" clear coat finish that will provide a robust, durable finish. The clear coat

finish shall be baked per PPG "Delfleet" process instructions prior to the finished surface process application.

After the clear coat process is completed, the entire exterior surface of the module shall then be sanded with a minimum 1200 grit sand paper and then buffed using 3M Perfect-It III buffing compound to provide a clean, high gloss final surface finish.

Without exception, the manufacturer shall monitor the entire application process. The inspection process shall provide mil-thickness measurements at numerous random locations across the body to insure that the total paint process shall provide a minimum of 5 mils dry build, without runs or sags, after the completion of the final sand and buff process.

Does your bid comply? Yes No			
26.2 PAINT AND COLORS: Unless otherwise specified, the module shall be painted white to match chassis. All chassis and/or body paint, other than standard white, shall be specified by the purchaser. All striping and/or lettering, in addition to any "Ambulance" and "Star-of-Life" decals shall be specified by the purchaser. Any painting performed by the manufacturer, of the body and/or chassis, shall be covered under warranty for a period of not less than four (4) years / forty eight (48) months, and shall be sanctioned by the paint manufacturer. The graphics on the new ambulance shall match that of the most recent ambulance purchased by the Three Rivers FD. Photos can be provided upon request.			
Does your bid comply? Yes No			
26.3 LETTERING & DECALS: Federal Specification KKK-A-1822F "Star-of-Life" and "Ambulance" lettering shall be Optional.			
The following labels shall be provided as standard.  Notice: This vehicle Equipped with 12VDC charging System (Mounted in cab) 'Shore Inlet 125VAC 60 HZ" '125VAC Outlet' '12VDC Outlet' 'Diesel Only' or 'Gasoline Only' (per chassis requirements) 'No Smoking/Oxygen Equipped' (2) 'Fasten Seat Belt' signs provided: (1) located in the cab and (1) in the module.			
Does your bid comply? Yes No			
26.4 FIRE EXTINGUISHERS: In compliance with the Federal Specification KKK-A-1822F, there shall be two (2) 5lb. ABC rated fire extinguishers with mounting brackets. These extinguishers shall be shipped loose with the completed ambulance for installation by this agency.			
Does your bid comply? Yes No			
27 REFERENCES AND STANDARDS			

27.1 MANUALS

A Medix Owner's Manual copied onto a CD along with the OEM chassis manufacturers supplied items shall be provided with each vehicle. The information on the disc consists of the following items:

- 1. Chassis Warranty Card & Owner's Information
- 2. Chassis Maintenance and Operating Tips
- 3. Extra Set of Keys
- 4. 15 Year Module Warranty
- 5. 1 Year/12,000 mile Conversion Warranty
- 6. 6 Year/72,000 mile Electrical Warranty
- 7. 4 Year Paint Warranty
- 8. Care and Maintenance Instruction
- 9. Heater/AC Information & Warranty
- 10. OEM Chassis Manual
- 11. Schematics for Standard Systems:
  - Charging System
  - Power Distribution
  - Front Switch Panel
  - Rear Switch Panel
  - Climate Control System
  - OEM Drawings
  - Wire Harness list
  - Circuit Diagrams for all Systems
- 12. Conversion Component Information
- 13. Operations Manual
- 14. Warranty and Parts List Siren, Etc.

Does y	our bid comply?	Yes	No	
27.2	VEHICLE DRAWING	GS		
The following drawing views shall be provided:				
	1. Street side Exterior	· Detail		

- Curbside Exterior Detail
   Front & Rear Exterior Detail
- 4 6
- 4. Street side Interior Detail
- 5. Curbside Interior Detail
- 6. Front & Rear Interior Detail
- 7. Overhead Floor Detail
- 8. Overhead Ceiling Detail

Does v	your bid	comply	7?	Yes	No	
	your oru	COMPT		1 03	110	

#### **Bid Form**

The undersigned having familiarized (himself/themselves) with the local conditions affecting the cost of the product and the Contract Documents hereby proposes to provide and furnish all labor, materials, necessary tools, equipment, utility and transportation services necessary to perform and complete in a workmanlike manner all work required in accordance with the specifications as prepared by the Three Rivers Fire Department, City of Three Rivers, Michigan, for the following unit prices:

COMPANY		
ADDRESS		
CITY	STATEZIP COE	DE
SIGNATURE	TITLE	
TELEPHONE	DATE	
ITEM QTY DESCRIPTION		UNIT COST
1 Emergency Medical Vehicle		\$
Subtotal		\$
Shipping/Delivery		\$
TOTAL COST		\$
<b>Delivery</b> Guaranteed delivery date <b>Emergency Medical Vehicle shall be</b>	e furnished fully serviced and assembled.	
	ies covering <b>Chassis and modifications perfo</b> warranty is to be included in the bid price.	ormed by vendor for
Distributor or representative shall p service facility.	rovide the closest location to the City of Thro	ee Rivers for a parts and
Indicate location of service/parts fac	cility	