MILLBROOK FIRE DEPARTMENT RESCUE SQUAD

MILLBROOK, NEW YORK 12545

1667 SPECIFICATIONS FOR A NEW EMERGENCY MEDICAL VEHICLE

BIDDER INSTRUCTIONS:

The following specification describes 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 initial configuration of this ambulance shall be the current KKK Federal Specification for 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.

Finally, manufacturers or distributors for manufacturers submitting bids shall include the following information with their proposal:

2480 **MINIMUM REQUIRED STANDARDS:**

The highest degree of quality, both in the materials and in the building processes, is required for the emergency medical vehicle being proposed. At a minimum the manufacturer being proposed 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) must be met, as well as all current Federal Ambulance Design Standards (KKK-A-1822).

Design Standards (KKK-A-1022).
The bidder shall state the date of certification for the current KKK-A-1822:
The manufacturer shall also comply with Ford Motor Companys QVM program. A copy of the manufacturers current QVM certification must be submitted with the bid.
The current QVM certification is included. Yes No Initial:

3049 PROPOSAL COMPLETION PROCESS:

Various areas in the following specifications require a response from the bidder. In order to aid in the evaluation process all responses must be consistent and, most importantly, legible. Therefore, the areas that are may be th l be

to be completed by the bidder, along with any other materials that submitted by the bidder, must be typed. Bids that are submitted wi
either hand-written responses, or with hand stamped responses shall
automatically rejected as being non-compliant.
Does the bidder understand this requirement?
Yes No Initial:

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4701 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.

Further, this specification requires the vehicle manufacturer to own the design of, as well as the rights to, the onboard converter-added electrical system. Generic aftermarket systems that are manufactured by an outside company and installed by the vehicle converter are not acceptable.

These requirements are 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 manufathe major components as defined above: Yes No Initial:	actures all of
Bidder states that the represented vehicle builder owns to converter-added electrical system, as well as all rights Yes No Initial:	_
Component manufacturer (by company name):	
Modular Body:	
Interior Cabinets:	
Electrical Wiring System:	

5106 **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.

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10272 **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 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.

the blank lines the bidder shall note apply to the manufacturer being proportion	
MODULAR BODY STRUCTURAL WARRANTY: Proposed warranty term:	30 years/Unlimited Miles years/ Miles
Note: The structural warranty, as not specification, will include the modul alignment, and all interior cabinet of extended on 5 year intervals in the enew chassis provided that (1) the remanufacturer, (2) the structural warranter the re-chassis, and (3) this purchase the time of the re-chassis. These terstated in the manufacturers warranty	Le doors, continued module body door construction. It shall also be event that the body is placed on a chassis is performed by the original canty has not expired at the time of er approves any structural repairs at the and conditions must be explicitly
Does the structural warranty proposed and conditions? Yes No	d comply with the above-stated terms
ELECTRICAL WARRANTY: Proposed warranty term:	10 years/100,000 Miles year(s), Miles
CONVERSION WARRANTY: Proposed warranty term:	2 Years/24,000 Miles year(s), Miles
PAINT WARRANTY: Proposed warranty term:	7 Years/84,000 Miles year(s), Miles
Years 1 - 4 coverage shall be 100% Years 4 - 5 coverage shall be 50% Years 5 - 6 coverage shall be 35% Years 6 - 7 coverage shall be 20%	
For verification of the completed war must include printed manufacturers was exceed the minimum required periods s	arranty certificates that meet or
Are the manufacturers warranties incl	Luded? Yes No
Warranties shall be transferable for be from the manufacturer as opposed t	

Warranties 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 manufacturers warranties, then the bidder shall state why this modification is necessary. In addition, the bidder shall provide a full descriptive warranty certificate describing the warranty modification and the fact that it takes specific precedence over the warranty offered by the manufacturer. If no such certificate is provided, then the modified warranty shall be considered invalid and the manufacturers warranty shall remain in force. If a

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warranty modification is proposed through either a discenter, then complete financial statements for that bu past five (5) years MUST BE SUBMITTED with the bid. If states that no party is permitted to modify its warran warranty modification provided by the bidder, despite shall automatically be rejected.	siness cove the manufa ty, then ar	r service ering the acturer
Does the bidder conform to the above-written section?	Yes	No
In order to simplify the evaluation process the follow be answered and this section must be initialed by the		ons must
Are the warranties transferable? If yes explain.	Yes	No
Has the bidder modified the manufacturers warranties? If yes explain.	Yes	No
If yes was chosen above, has the bidder included modif warranties? Yes No	ied writter	1
If no explain.		
If 'yes' was chosen above, has the bidder included fin for the last five (5) years, of the warranty modifier? If 'no' explain.	ancial stat Yes	No
Bidder shall initial that this section is understood a answered truthfully. Initials:	nd has beer	ı
Note: Bidders who are found to be untruthful in this, section of this bid, will have their bid automatically		other
ENGINEERING SUPPORT:		
Due to the complexity of the design of the vehicle, praccepted only from manufacturers that utilize well-def techniques. Computer Aided Design (CAD) drawings of bothe patient area and the overall layout of the module mandatory prior to construction of the vehicle. At a m drawings shall include all exterior elevations, all in and a plan view of the roof/ceiling. All options and e	ined engine th the inte body will k inimum thes terior view	eering erior of oe se ws (4),

Can the requested drawings be supplied when required Yes____ No____

within these specifications shall be depicted on the prints. The purpose of this requirement is to give Millbrook Fire Department Rescue Squad the opportunity to review each drawing to ensure that the proposed project

does indeed meet the stated requirements as set forth in these

11137

specifications.

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16521 **SAFETY CERTIFICATION:**

Testing Facility Name:

The verification of construction techniques used throughout the building process must be furnished by the manufacturer/bidder. The installation methods and construction techniques associated with seat belt retention, cabinet construction and installation, oxygen cylinder retention and module to chassis mounting systems must be verified through a controlled Hygee sled test that simulates an actual impact condition. This test must be performed, under both side and frontal impact conditions, to a minimum force of 30 g's. All testing must be performed by a testing agency that is independent of the manufacturer.

As proof of this verification process being performed, the bidder must provide the following information (leave blank if this is not a sled test being verified):

Date Tested: 'G' Force Tested To:	/ G's	/	
The bidder must perform a on the ambulance body to normally installed componvehicle. The body structu evidence of structural fa a result of the test. All a Registered Professional	a load of 30 G's. ents for each of re and installed ilure or separati test results mus	The body teste the following a components shal on from its mou	ed shall include reas of the l not show anted position as
Test Required	Date Tested	Force Applied	Signed By
1. Body to Chassis Mount	ing		
2. Access Door Latching			
3. Oxygen Cylinder Mount	(Main)		
4. Oxygen Cylinder Mount	(Portable)		
5. Attendant Seat Mount			
6. Attendant Seat Belt			
7. CPR Seat Belt			
8. Squad Bench Seat Belt			
9. Retention of Main Cab	inet Wall		
10. Crash Restraint Wall At Head of Bench			
Is the documentation Furn	ished with Propos	al: Yes	No
Finally, a manufacturer i			

program. The testing, as described above, is to have been performed on a body built using the same materials and designs as those currently used by the manufacturer. Furthermore, the testing program must have been conducted on a continuous basis for a period of time not less than ten

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(10) years. Therefore, the bidder is required to answer the questions and to initial the response to confirm that the quaderstood 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? YesNo Initials	
If not, what body construction method was tested? Initials	
Has the testing program been in place for a period of at legyears? Yes No Initials	east ten (10)
If the program has not been in place for at least ten (10) how long has the testing program been in place? Initials	_
Note: This requirement is in addition to the current minimal requirements. The KKK requirements do not suffice as a substitution of the current as they do not address impact crash testing also be noted that neither photographs of vehicles involved nor written observations of accident damage suffice to full requirement. This requirement will be fulfilled only when the verification, signed by an accredited independent engineer, with the bid. The testing being described takes place in a environment where meaningful data can be collected and used the design and safety of the vehicle. Actual accidents presentables that hinder the collection of meaningful data. But submit photographs or written observations, from customers manufacturers representatives, should note that such informations dered invalid and will not be a factor in the purchase	stitute for ng. It should d in accidents fill this testing , is furnished controlled d to further sent too many idders who or mation is
Does the bidder understand these requirements? Yes No Initials:	
If the bidder does not perform sled testing, then the bidder take exception to this requirement so that the purchaser may bids on a legitimate basis. Bidders not taking exception shappropriate documentation, as described above, included with proposal. Bidders who do not take exception, and who do not appropriate documentation will be considered non-responsive therefore, be rejected. This also applies to any subsequent this specification that require sled testing where the bid indicates that no exception has been taken.	ay evaluate nall have all th the t include all e and will, t sections of
Does the bidder understand this requirement? YesNo	Initials:
Is the bidder certifying sled test compliance and/or Federa compliance?	al KKK
Sled Testing KKK compliance Initials:	_

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17796 SAMPLE PARTS REQUIREMENTS:

In order to compare construction techniques and parts utilization each bidder may be asked to submit after the bid opening the following items used throughout their proposed construction.

- 1. (1) 8 square exterior compartment door (to include applicable insulation and all typical structural components).
- 2. (1) Exterior compartment door hold-open device.
- 3. (1) 8 long upper roof corner post.
- 4. (1) 8 long body side corner post.
- 5. (1) 8 long sub-floor channel.
- 6. (1) 8 square interior cabinet material.
- 7. (1) 8 long interior cabinet door track
- 8. (1) 9 long cab console to central electrical panel cable with connector.
- 9. (1) Solid state circuit breaker (MOSFET)
- 10.(1) Module to chassis tie-down section, showing chassis frame, body understructure mount, rubber separators, and bolts.
- 11.(1) 4 sample letter being proposed (if required)

Note: Factory tours will not suffice to fulfill this requirement. The bidder shall state below whether of not the sample parts requirement can be fulfilled. If the requirement can not be met, then the bidder shall take exception to this section and explain the reason that the parts are not able to be furnished.

Can	the	sample	parts	listed	above	be	furnished?	Yes	No

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21411 **REFERENCES:**

The proven durability and reliability of this product is of the utmost concern. Each bidder submitting a proposal must furnish references consisting of in-service units of similar chassis make and conversion processes being proposed.

All references shall include owner, address, contact name and phone number, and the model owned. A minimum of ten (10) references shall be provided:

1. Owner:	
Address:	
Contact:	
Phone #:	1-(
Model:	Year:
2. Owner:	
Contact:	
Phone #:	1-()
Model:	Year:
3. Owner: Address:	
Contact:	
	1-(
Model:	Year:
4. Owner:	
Address:	
Contact:	
Phone #:	1- (
Model:	Year:
5. Owner:	
Contact:	

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Phone #:	1-(
Model:		Year:	
6. Owner:			
Address:			
Contact:			
	1-()		
Model:		Year:	
7. Owner:			
	1- ()		
Model:		Year:	
8. Owner:			
Address:			
Phone #:	1-()		
Model:		Year:	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
Address:			
Contact:			
Phone #:	1-()		
Model:		Year:	
10. Owner	·		
Address:			
Contact:			
Phone #:	1-()		
Model:		Year:	

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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

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____

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____

23184 **PAYMENT:**

22523

I IARII ITY:

Payment shall be made on delivery of the purchased item, or upon completion of all work contracted for (whichever occurs later) and performed to the satisfaction of the purchaser. Clauses requiring prepayment of any portion of the contract amount will render the bid non-responsive whereupon it will be rejected.

Does the bidder comply with this requirement? Yes____ No____

If no explain:

23528 **DELIVERY PROCESS:**

The vehicle shall be delivered over the road to the purchaser. Delivery shall be stated in number of calendar days after award of 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

PRICE AND TAXES:

All prices quoted shall be for a definite fixed price unless otherwise specified. Prices shall exclude Federal, State, and other taxes to the extent that this purchaser is exempt. All pricing shall be F.O.B.

F.O.B.	•	
1.0.0.		

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25865 **SPECIFICATION DESIGN:**

26632

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.

completion requirements.
BID COMPLETION REQUIREMENTS:
1. All proposals shall be submitted to:
Purchaser:
Address.
City: State: Zip Code:
City: State: Zip Code:
Proposals must be submitted by:/ at:
2. All proposals shall be submitted in a sealed envelope with the following information marked on the outside of the envelope:
BID FOR NEW EMERGENCY MEDICAL VEHICLE
3. All proposals shall be submitted in a hard-bound binder. In order to facilitate evaluation, the binder shall be divided by header into the following minimum sections:
A. Proposal: Bidders proposal showing product bid, model year, price, and delivery date.
B. Specification: Purchasers advertised specifications completed as required.
C. Design: Future CAD generated drawings of both interior and exterior D. Warranty: Complete written certificates of Modular, Electrical, Paint, and Conversion warranties.
Bidders proposal meets all of the requirements listed above. Yes No Initials:
TYPE OF BIDS TO BE SUBMITTED:
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 Bidder's initials:

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27831 INFORMATION TO BE SUBMITTED WITH PROPOSAL:

28800

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.

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 nor 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 Initial:
DIRECTIONS FOR RESPONDING TO EACH SECTION:
Each individual section of the specification shall be followed by three (3) response lines. The lines shall read as follows:
Above section bid exactly as written. Section not provided. 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 an 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,

Does the bidder understand this requirement?
Yes____ No___ Initial: ____

then the bid shall be rejected as being non-compliant.

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33666 **EXCEPTIONS TO SPECIFICATIONS:**

Exceptions to these specifications shall be noted below. All exceptions taken shall be recorded per the guidelines defined above. Each exception shall be noted by page number and item header. If additional space is required for exceptions, then the bidder shall use additional paper as necessary, however the same format shall be used.

Page #: Exception:	Header:			
Page #:	Header:			
Exception:				
 Page #:	Header:	 		
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Page	#:	
Exce	ption:	
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Page	#:	
Exce	ption:	
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Exce	otion:	
The l propo income submants photo	oidder sha osal. Prop mplete and itted for o os of the o nich design	I PHOTOGRAPHS: Il include the following photographs with the completed osals not including these photographs will be considered will, therefore, be rejected. These prints shall be evaluation purposes. This purchaser shall compare the different bidders and shall be the sole decision maker as a best suits the specific needs to be fulfilled. Commentary
be la shal	arge enougl l be provi	is not desirable. Photographs shall be in color and shall hand clear enough to supply ample detail. The photographs ded in the exact numerical order listed below. The be submitted shall include:
2. 3. 14. 15. 15. 16. 17. 18. 19. 110. 110. 110. 110. 110. 110. 110.	Interior s. Roof section of Section Superior of Interior of Section Section of Section 1 and Section section as Roof Section s	pper corner showing gusset and extrusion detail. ide wall including horizontal frame member. on showing 2" x 2" structural supports on 12" centers. vertical side wall substructure to include gussets. rstructure prior to installation of the aluminum sub floor. f rear door less Formica trim f rear door detailing door latch linkage distribution panel complete and wired. f front console switch panel complete and wired. luminum cabinet modules prior to installation. attachment point detailing threaded nylon hole insert.
		Above section bid exactly as written:

Bidder is offering an alternative to this section:

Section not provided:

35030

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35359	CHASSIS:	
	The chassis required for this project is specified in detail below. Failure of the bidder to provide the chassis exactly as specified will k grounds for rejection of the bidder's proposal as being non-responsive. Exceptions will be made only if the bidder can prove that a required feature is unavailable from the chassis O.E.M.	е
	Above section bid exactly as written:	
	Section not provided:	
	Bidder is offering an alternative to this section:	
	CHASSIS SPECIFICATION:	
35792	CHASSIS, 2015 CHEVROLET G4500 CUTAWAY:	
	The vehicle converter shall supply a 2015 159" wheelbase Chevrolet G4500 cutaway chassis for the ambulance conversion. This chassis shall have ar 100" cab-to-axle dimension. The chassis shall be equipped with GM's YF2 option package.	
	Above section bid exactly as written:	
	Section not provided:	
	Bidder is offering an alternative to this section:	
35952	ENGINE AND RELATED EQUIPMENT:	
	-Duramax 6600 diesel with 250 HP @ 3,200 RPM, and 460 ft. lbs. torque @ 1,600 RPM.	
	-57 gallon fuel tank mounted aft of the rear axleEngine block heater.	
	Above section bid exactly as written:	
	Section not provided:	
	Bidder is offering an alternative to this section:	
36014	TRANSMISSION:	
	-6-speed electronic with overdriveTransmission oil cooler.	
	Above section bid exactly as written:	
	Section not provided:	
	Bidder is offering an alternative to this section:	
36054	REAR AXLE:	
	-Ratio: 3.73:1 -HD locking differential	
	Above section bid exactly as written:	
	Section not provided:	
	Bidder is offering an alternative to this section:	

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36154	OVERALL WEIGHT RATINGS:			
	-GVW: -Front Axle: -Rear Axle:	14,200 lbs. 4,600 lbs. 9,600 lbs.		
	Se	ove section bid exactly as written: ction not provided: dder is offering an alternative to this section:		
36385	TIRES AND WHEELS	S:		
	Tire Size:	All season radials 225/75R16E All season radials		
	Above section bid exactly as written:			
		ction not provided: dder is offering an alternative to this section:		
36496	BRAKES:			
	Brake system: Parking Brake:	Power hydraulic disk with ABS. Foot operated pedal, manual release		
		ove section bid exactly as written:		
		ction not provided: dder is offering an alternative to this section:		

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	-Interior Upgrade Package -Power steering -Tilt steering with factory speed control -Courtesy lights -Dual padded sun visors -High Series door trim panels -A pillar grab handles -Cloth headliner -Rear view mirror -Power door locks -Power windows -12V power point -Sound reduction package -Light/Convenience group -Heat/Air conditioning -Dual O.E.M. cloth-covered captain's chairs -Carpeting on cab floor -Second generation driver and passenger air bags -An electronic AM/FM stereo/CD player with two (2) speakers installed in
	cab -Factory gauges for oil pressure, fuel capacity, and water temperature. The converter-added digital display shall provide both ammeter and voltmeter.
	Above section bid exactly as written:
	Section not provided:
	Bidder is offering an alternative to this section:
37534	
57334	ADDITIONAL APPOINTMENT STANDARDS:
	-Tinted glass
	-Dual electric horns -Interval wipers
	-Mirrors, wide stance Velvac sail panel mounted with convex
	-ICC marker lights (Installed by vehicle converter)
	-Halogen headlights with daytime running lights
	-Chrome-plated front bumper
	-Auxiliary idle control -Auxiliary heat/AC connections
	-Front license plate bracket
	Above section bid exactly as written:
	Section not provided:
	Bidder is offering an alternative to this section:
37653	DATTEDIES.
37033	BATTERIES:
	The vehicle shall be equipped with two (2) 770 cca batteries. The total cca rating for this vehicle shall be $1,540$ cca.
	Above section bid exactly as written:
	Section not provided:
	Bidder is offering an alternative to this section:

INTERIOR APPOINTMENT STANDARDS:

37202

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37718	ALTERNATORS:
	Dual Delco 145 amp alternators shall be installed on the chassis.
	Above section bid exactly as written: Section not provided:
	Bidder is offering an alternative to this section:
37792	WARRANTY:
	The chassis manufacturer's standard vehicle warranty policies shall apply.
	Above section bid exactly as written:
	Section not provided: Bidder is offering an alternative to this section:
37834	CHASSIS INTERIOR COLOR:
	The chassis interior shall be O.E.M. gray.
	Above section bid exactly as written: Section not provided:
	Bidder is offering an alternative to this section:
38043	CHASSIS HARDWARE AND ACCESSORIES:
	The items to follow represent chassis modifications, hardware, and accessories that are required. Failure to provide these features will be cause for rejection of the bidder's proposal as being non-responsive.
38233	DIESEL EXHAUST FLUID (DEF):
	The fill for the DEF tank will be located in the driver's side of the body rearward of the rear wheels. A label stating "DIESEL EXHAUST FLUID (DEF)" will be installed next to the fill neck.
	Above section bid exactly as written:
	Section not provided: Bidder is offering an alternative to this section:
	Brader is diffilling an afternative to this section.
38617	STAINLESS STEEL WHEEL COVERS
	Stainless steel DOT approved wheel inserts shall be installed on all four outside wheels of the chassis. The rear wheels shall include braided stainless steel filler extensions. The extensions shall be fastened to the center wheel hub with stainless steel brackets. Designs that do not incorporate the filler extensions will be unacceptable as they hinder inflation of the inner tire.
	Above section bid exactly as written:
	Section not provided:
	Bidder is offering an alternative to this section:

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38799	MUD FLAPS, FRONT:
	The vehicle converter shall install mud flaps behind the front wheels. The mud flaps shall attach to the chassis front fenders and shall protect the cab body panels from road debris.
	Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:
	Bruder is offering an afternative to this section.
39190	MUD FLAPS, REAR:
	The vehicle converter shall install individual rubber mud flaps behind each rear wheel. The mud flaps may incorporate the converter's corporate logo provided that the logo is made out of stainless steel or equivalent and attached to the mud flap. Logos either printed on, or otherwise incorporated into the mud flap are not desirable as they cannot be removed and possess a tendency to fade.
	Above section bid exactly as written:
	Section not provided:
	Bidder is offering an alternative to this section:
39400	DOCK BUMPERS, REAR:
	The rear step end caps shall include two heavy duty rubber dock bumpers installed on the outer face of the diamond plate. These bumpers shall serve to protect the diamond plate from damage due to minor contact.
	Above section bid exactly as written:
	Section not provided:
	Bidder is offering an alternative to this section:
39678	REAR STEP/BUMPER REINFORCEMENT:
	The end caps of the rear step shall be reinforced for added impact protection. The reinforcement shall tie into the chassis framework via a $1.5" \times 3" \times .357"$ aluminum channel. The top of the channel shall be trimmed with polished aluminum diamond plate for appearance purposes.
	Above section bid exactly as written:
	Section not provided:
	Bidder is offering an alternative to this section:
40003	RUNNING BOARDS: ALD
	Diamond plate running boards shall be installed on each side of the cab at the cab entry points. The running boards shall be constructed with .125" thick 3003-H14 alloy polished aluminum diamond tread plate. The running boards shall include splash shields at the forward end to protect the vehicle from spray and road debris.
	Above section bid exactly as written:
	Section not provided:
	Bidder is offering an alternative to this section:

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MILLBROOK, NEW YORK 12545

40764 REAR STEP/BUMPER ASSEMBLY:

41377

41620

The rear of the vehicle shall be equipped with a step/bumper assembly to be fabricated from .125" polished aluminum diamond Treadplate. The assembly shall be spaced out from the rear kick plate a minimum of 1.5". The center section of the assembly shall pivot up and over center on two (2) .5" bolts to stay in the 'up' position. This section shall be a minimum of 9.5" deep and shall be constructed with grip-strut on the stepping surface to provide for better footing. The ends of the assembly shall be fixed diamond tread plate. The distance between the top of the step and the ground shall not be less than 16". The fold-up portion of the step shall be firmly held down with two (2) pin and socket holders to prevent rattling while the vehicle is in motion.

	g while the vehicle is in motion.
	Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:
SPECIAL MIRROR	RS:
mirrors as note not be acceptab	onverter shall supply and install special aftermarket d below. Visible holes and mounts from O.E.M. mirrors will le. Any and all thread inserts must be removed and holes nels must be refinished if O.E.M. mounts leave visible nel surface.
Make: Model:	VELVAC #2020XG
	Install Velvac black power adjustable pillar mount mirrors on chassis.
	The mirrors requested by this purchaser shall be remote AND heated
	Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:
'ON SPOT' AUTOI	MATIC TIRE CHAINS:
switch to activ	atic tire chains shall be installed on the vehicle. The ate the chains shall be installed on the front console of shall include a safety guard to prevent the switch from ing engaged.
	Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:

MILLBROOK FIRE DEPARTMENT RESCUE SQUAD

41821	BATTERIES:	
	specification, sh	m, as noted in the "Chassis" section of this all include two batteries on a roll-out tray in a ment on the curbside lower forward portion of the body.
	Se	cove section bid exactly as written: ection not provided: idder is offering an alternative to this section:
42147	REVERSE ALARM:	
	<pre>placed into rever and wired through switch to disable</pre>	shall be installed to activate when the vehicle is se gear. There shall be, installed on the front console the vehicle electrical system, a momentary cutoff the alarm. This switch shall automatically reset each is placed into reverse gear.
		pove section bid exactly as written:
		ection not provided:
	В:	idder is offering an alternative to this section:
43340	CAMERA SYSTEM:	
	shall consist of providing a 360 of these views toget above the unit who camera is to include that do not include housing is to incorrect ability to function signals, and when	ly and install a 360 degree camera system. This system four (4) cameras feeding into the front control screen egree view around the vehicle. The system must stitch her to give an appearance on the screen of flying just ere all four sides are visible at the same time. Each ude a housing for protection from the elements. Systems de this protective housing will not be acceptable. Each orporate four (4) red LED lights with clear lenses. Each porate three (3) LEDs. These lights are to have the on in emergency response mode, as additional turn the vehicle is placed into reverse. The housings shall ch a way as to not allow the lights wash out the view reen.
	Cover color:	Match body
	NOTE:	INSTALL A SEPARATE MONITOR ON THE WINDSHIELD SPECIFICALLY FOR THE 360 DEGREE SYSTEM ILO USING THE SWITCH PANEL SCREEN. USE REAR VIEW SAFETY RVS-MV1619P REAR VIEW MIRROR REPLACEMENT
	А	pove section bid exactly as written:
		ection not provided:
		idder is offering an alternative to this section:

MILLBROOK FIRE DEPARTMENT RESCUE SQUAD

43553	SPECIAL INSTRUCTION, CHASSIS HARDWARE:			
		Dealer shall install a Kenwood DNX 7140 in dash GPS/DVD/CD/AM/FM or its most current equivalent.		
	NOTE:	Reverse camera is not required for this unit		
		ove section bid exactly as written:		
		dder is offering an alternative to this section:		
43793	SPECIAL INSTRUCTION, CHASSIS HARDWARE:			
		Custom manufactured Front coil springs shall be purchased and installed by the successful vendor to give the completed vehicle a more stable ride		
	Ab	ove section bid exactly as written:		
	Se	ction not provided:		
	Bi	dder is offering an alternative to this section:		
44154	CONVERSION:			
	process, and mater importance to this concerns. The bide	tion describes the required body design, manufacturing rials. Adherence to this section is of extreme spurchaser due to space requirements and safety der must meet this section as closely as possible experimental or prototype designs in order to be d award.		
44535	MINIMUM BODY DIN	MENSIONS:		
	The completed vehi	icle shall have the following minimum dimensions:		
	(Exterior)			
	-Height:	84"		
	-Width:	96.25" 169"		
	-Length: (Interior)	169"		
	-Height:	68"		
	-Aisle:	50"		
	-Length:	165"		
		S (Including Chassis, Module and Step):		
	-Height:	103" 100"		
	-Width: -Length:	268.5"		
	Ab	ove section bid exactly as written:		
		ction not provided:		
		dder is offering an alternative to this section:		

MILLBROOK FIRE DEPARTMENT RESCUE SQUAD

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45810 MODULAR BODY STRUCTURAL DESIGN REQUIREMENTS:

The module body shall be designed and fabricated with the following key elements in mind:

- 1. The greatest possible load carrying capacity is desired.
- 2. The safety of all vehicle occupants is of paramount concern.
- 3. The body design, including construction materials and fabrication techniques shall be proven to be durable.
- 4. The body shall be easily retrofitted to a new chassis should that need ever arise.

With these concerns in mind the following requirements have been established for the purposes of this specification:

The vehicle converter shall design and construct its own module bodies, and maintain an engineering staff at its manufacturing facility to handle any custom body changes that may be necessitated by this design. It is the intent of this purchaser to receive a finished product of the highest standards of quality available. Vehicle manufacturers who design and build their own bodies and who have the expertise of an engineering staff will possess a greater capacity as far as handling a custom project of this type than manufacturers who purchase their bodies from an outside vendor. Accountability and quality of the design and construction of the body are enhanced when the vehicle converter manufactures the body.

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47219 **GENERAL BODY DESCRIPTION:**

The construction process described within this specification will ensure that the body shall remain structurally intact. However, to achieve this level of quality and durability, the module body, including all doors, must be constructed correctly initially. This specification requires that the module body, including all doors, be built within a tolerance of one five-thousandths of one inch. To achieve this the vehicle manufacturer must use, as standard practice, precision computerized equipment such as found in Strippet machines and microprocessor controlled milling machines and chop saws. Use of precision equipment will ensure that all door openings, door handles and latches, body windows, and warning light assembly installation locations are of the correct size and square to the body. Cutting done by hand, such as with a jigsaw, is not desired unless it involves the chassis, or unless a warning light assembly must be located in such a way that it depends on the layout of the finished vehicle. (E.g. when a light must be centered within a paint stripe since the exact stripe location will not be determined until the module is built and mounted.) In addition, utilization of computerized equipment will simplify the production of replacement body panels in the event of an accident since the computer can duplicate a given part exactly. This includes documentation of all body light locations.

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48446 PAYLOAD REQUIREMENTS:

The vehicle payload shall meet or exceed that called for in the current KKK-A-1822 specification. The vehicle manufacturer shall, upon notice by this purchaser, provide a written statement from an independent engineer that the model being offered has met this set of criteria. Before delivery of the completed unit the manufacturer shall weigh the vehicle. A written statement of those weights shall be affixed to the inside of the street side front #1 compartment door. This purchaser reserves the right to have the finished vehicle weighed independently upon delivery. If it is found that the written statement of weight provided by the manufacturer is inaccurate beyond what may be reasonably explained as a slight difference in the calibration of the scales, then the vehicle will be rejected. It should be noted that this purchaser, while interested in attaining the greatest possible payload, is unwilling to compromise on the structural requirements of a strong, durable, and safe body. All bidders must understand these factors supercede concern over payload, and that the lightest body (greatest payload) will not necessarily be deemed sufficient to meet the stringent quality and safety requirements set forth herein.

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49893 MODULE BODY CONSTRUCTION AND WARRANTY:

The module body shall be constructed per the following detailed specifications. Generally speaking the body shall be of all-aluminum construction. Aluminum is shown to reduce weight over several other materials. It also possesses anti-corrosion properties that are essential for a vehicle of this type. The exact aluminum material requirements are explained in further detail below. The choice of materials and the design shall allow the manufacturer to warrant the materials and workmanship of the module body for a period of fifteen (15) years as set forth in the warranty section of this specification. The manufacturers structural warranty shall specifically cover:

- -The continued and correct alignment of both compartment and access doors.
- -Seam or joint separation in door construction.
- -Aluminum interior cabinetry.

The warranty shall be fully transferable to a new owner should the vehicle ever be sold. In addition, should the manufacturer bidding this proposal re-chassis the vehicle within the period of the initial structural warranty, then an additional 5 years shall be added to the remaining amount of warranty coverage left at the time of re-chassis. This warranty shall be revalidated in five-year increments each time the body is mounted to a new chassis provided that the warranty has not expired, that this purchaser authorizes any necessary repairs, and provided that the original manufacturer performs the re-chassis.

Above section bid exactly as written:	
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Bidder is offering an alternative to this section:	

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FOOF				
50905	CORNER	POST	SUPPO	RTS:

The body structure must be able to support the loaded weight of the vehicle in the unlikely event of a rollover. A structure is required that will enhance the safety of both patients and attendants in the event of

	an accidental collision. The foundation of a solidly built module body is the utilization of strong corner posts in both the sidewalls and the roof. A one-piece 90-degree radius post is required. The posts shall include a full length W shaped extrusion that forms a fully encased web inside the post for strength. This reinforcing member shall angle inward just before it joins the radius to form a small slot where the edges of the aluminum skin will be inserted prior to the final welding. Because the structural integrity of a body is derived from the corner posts, subfloor, and framework, corner posts that are a part of the exterior body skin (e.g. rolled corner posts) will not be considered, nor will corner posts which do not have an integral center reinforcement as part of the extrusion.
	Above section bid exactly as written:
	Section not provided:
	Bidder is offering an alternative to this section:
51006	CORNER POST STRENGTH:
	The corner post extrusions shall possess a minimum ultimate tensile strength of 27,000 psi (6063-T5).
	Above section bid exactly as written:
	Section not provided:
	Bidder is offering an alternative to this section:
51468	ROOF EXTRUSIONS:
	The horizontal roof extrusions shall conform to the same construction description as the vertical wall extrusions. They will, however, include an extruded drip rail as a part of the one-piece posts. Because the drip rail is a part of the post itself there will be no seams between the rail and the body above the rail. In addition there shall be drip rails installed above all body doors that are not full height. These rails shall attach via a durable adhesive.
	Above section bid exactly as written:
	Section not provided:
	Bidder is offering an alternative to this section:
51837	WALL AND ROOF SKIN SUPPORTS:
	The exterior wall and roof skins shall be supported on the inside by 2" square tubing with .125" wall. These structural supports shall be strategically located at the load bearing points of the module body. The roof structural support beams shall be spaced on minimum 12" centers for adequate load support. Wall tubing of .125" thickness or less will not be acceptable.
	Above section bid exactly as written:
	Section not provided:

Above section bid exactly as written:	
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Bidder is offering an alternative to this section	ı:

MILLBROOK FIRE DEPARTMENT RESCUE SQUAD

52014	HORIZONTAL WALL SUPPORT:
	In addition to the vertical wall supports there shall be a horizontal beam, located in the beltline area, to provide additional protection in the event of a side body collision.
	Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:
52507	GUSSET ENHANCEMENT:
	Gusset supports, made from 2" square tubing, shall be installed throughout the vehicle for added strength. Each gusset shall be a minimum of 5" long at its longest point. A minimum of twenty-four (24) of these gussets shall be welded into the vehicle support structure. Areas of installation shall include but not be limited to: all door openings, all body corners, and above all wheel wells. Designs that utilize no gussets, or gussets of lesser material size or strength, are not acceptable.
	Above section bid exactly as written:
	Section not provided: Bidder is offering an alternative to this section:
52917	EXTERIOR BODY PANELS:
	The materials selected for the body skin have been chosen because of this vehicles expected heavy-duty cycle and the good wear characteristics that this material has shown in the field. The material shall be a minimum 5052-H34 alloy with an ultimate tensile strength of 38,000 psi. This material has been chosen because it is less prone to fail due to stress than other weaker materials such as 5052-H32 alloy.
	Above section bid exactly as written:
	Section not provided:
	Bidder is offering an alternative to this section:
53284	EXTERIOR BODY PANELS (PART 2):
	The thickness required for exterior body panels is: -Side, front, and rear walls: .125" -Ceiling and floor panels: .090" Note: The roof shall be constructed with a single sheet of 5052-H34 .090" thick aluminum. This one-piece construction is preferred over a multiple piece design. The roof shall incorporate a 3/8" crown designed to allow water to drain.
	Above section bid exactly as written:
	Section not provided:
	Bidder is offering an alternative to this section:

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54995 **FLOOR CONSTRUCTION:**

Floors that are uneven or are incapable of adequately supporting the load being carried on the vehicle are unacceptable. For that reason thin floor panels and/or a lack of floor supports are not desirable. To prevent buckling, sagging, oil canning or any other structural breakdown of the flooring system a detailed description of the required construction process is provided.

The body subfloor shall be constructed of .090" 5052-H34 aluminum. The floor, from the front to the rear and from curbside to street side shall be supported by a minimum $2" \times 3"$ tubular beams with a .25" wall. The floor just behind the axle shall be supported by a minimum 1.5" x 3" tubular beam with a .25" wall. All beams shall be strategically located at the load bearing points of the floor and welded into place. The interior of this vehicle shall contain no wood or wood products of any kind. The subfloor, above the aluminum sheet shall be specially constructed to provide both acoustic and thermal protection for the patient interior. It shall consist of the .090" aluminum with tubular understructure as noted above. The underside of this area is to be sprayed with a sound reduction coating. In addition, a .125" damping pad, a .125" sound barrier sheet, and a .625" composite floor panel shall be installed prior to installation of the vinyl floor covering. The purchaser reserves the right to inspect the process proposed by the bidder and to make determinations regarding the acceptability of that process. The resultant subfloor shall have no organic, wood, or wood products and shall be guaranteed against rotting or water absorption for a minimum of fifteen years. It shall not support or attract mold or fungus.

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55818 **SKIN TO SUPPORT ATTACHMENT:**

All exterior aluminum body panels shall be attached to the underlying structural supports via high performance polyurethane two sided tape. The tape shall have a polyurethane foam core for environmental resistance and an acrylic adhesive for a durable bond. The tape will be used as an insulating agent to hold the panels tightly against the structural supports, thus eliminating vibration and oil-canning. In addition to the tape attachment system, all panels shall be welded to structural members at the perimeters only. Welding in the center of the panels is not desired as the process will cause heat distortion of the body panels and lessen the overall quality of the finished appearance. Use of the tape, as described here, will eliminate heat distortion without damaging the structural integrity of the module body.

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MILLBROOK FIRE DEPARTMENT RESCUE SQUAD

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56322 SKIN TO SUPPORT ATTACHMENT (PART 2):

Each body panel shall be welded to all horizontal frame members, including the roof extrusions. In addition, the panels shall be welded to the vertical corner posts. In the case of the roof, the perimeter of the one-piece roof sheet shall be welded. This method of attachment shall provide a total welding application to the entire perimeter of the body skin and a taped/insulating application to the interior surfaces of all walls. Methods of panel attachment that utilize rivets will not be acceptable.

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57493 **STRUCTURAL INTEGRITY VERIFICATION:**

Structural integrity, as stated elsewhere in this specification, is of extreme importance to this purchaser. As such, it is required that the manufacturer maintain a program of simulated crash tests. The manufacturers Hygee sled testing program must be current and have been maintained on a continuous basis for a period of time not less than ten years. In addition, the sled testing shall have subjected a body, built to the above-written specifications, to a minimum of 30 G's in both side and frontal impact conditions. Neither photographs of vehicles that have been involved in accidents, nor statements or observations relevant to an accident, be it from a customer or a manufacturers representative, shall suffice as a substitute for this requirement. The sled testing must take place in a controlled environment whereupon meaningful engineering data can be gathered and applied to the structural design of the module body. Accidents that take place outside of this controlled environment do not yield any meaningful data. Therefore, real world accidents are considered anecdotal and cannot realistically be used by the manufacturer to judge the safety of a design.

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57919 MODULAR DOOR DESIGN:

Door panel separation, dirt accumulation at seams, paint imperfections, misalignment, and even malfunctions whereupon the door cannot be operated have been observed in many styles of door construction. These problems, along with the expected rugged use of the vehicle doors, shall be eliminated with a good overall design and construction process. With these thoughts in mind the modular doors shall be constructed as follows:

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58248	OUTER	DOOR	SKIN

The door facing and edges shall be formed from a single sheet of aluminum. The aluminum used for the doors shall not be less than 5052-H34 alloy with an ultimate tensile strength of 38,000 psi. The material shall be .125" thick. All module doors shall be flush fit to the body side. The door panels must be welded at the corners.

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Bidder	is	offering	an	altern	ative	to	this	section:	

59110 INNER DOOR REINFORCEMENT:

Each door shall include an internal extrusion for added reinforcement. The extrusions shall extend around the entire perimeter of the door. Additional reinforcement shall be installed through the center of the door and around each window where applicable. In addition to the extrusions reinforcing each outer door pan, the extrusions themselves shall be reinforced through a dual joining method. First, each mitered corner, where the frame corners join, shall be fitted with a one-way solid aluminum insertable key. This key shall prevent the corner from pulling apart, and shall act as a solid aluminum internal gusset. Secondly, each corner where the frame joins shall be welded to further prevent any separation. The end result will be a rigid door that will not bend or flex and that will eliminate the other commonly seen structural defects described above.

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59624 INNER DOOR PAN:

An inner door pan shall fit flush with the inner edges of the door. Inner door pans that do not fit flush will have sharp or ragged edges exposed and will not be acceptable. The panels must be attached to the door structure with machine screws and Nutserts to prevent stripping. Sheet metal screws or rivets will not be accepted. Lastly, a closed cell crosslinked polyolefin foam tape shall be used beneath the inner door panels to isolate the panels from the door frames. This process will prevent door rattling.

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

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60243 DOOR SEAL	۱L:
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All module doors shall incorporate an extruded rubber seal located around the perimeter of the door. The seal shall insert into a groove in the inner door extrusion. Seals that are installed around compartment openings will be easily torn by the movement of equipment across them. In addition, glue will not be permitted except in the case of a double door compartment. The requested design does not include a groove on the underlying door edge of a double door compartment. That edge alone will require an adhesive. Glue for all seals is not desirable because of increased replacement time and insufficient durability.

	compartment. The requested design does not include a groove on the underlying door edge of a double door compartment. That edge alone will require an adhesive. Glue for all seals is not desirable because of increased replacement time and insufficient durability.							
	Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:							
60865	DOOR JAMB:							
	All doorjambs must be separate from the body skin and must be welded to the 2" x 2" tubular body frame members so as to ensure continued door alignment and proper latching. The compartment frame shall be designed in such a manner as to provide extra protection around the compartment openings. The reinforcement tube shall be at least 1" wide. For added strength, the frame shall be at least .188" thick where screws are attached.							
	Prior to door installation the doors shall be true fit to the door jambs. The fitting, prior to installation, shall provide added assurance that the door aligns properly with the doorjamb.							
	Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:							
61480	HINGING:							
	All doors shall have full-length stainless steel hinges. The hinges shall be .070" thick and shall incorporate a .25" diameter pin.							
	All hinges shall have un-slotted mounting holes for an exact and permanent installation. Hinges that utilize slotted mounting holes are unacceptable because of the continued adjustments that they require.							
	There shall be an insulating material installed along the length of the hinge where the hinge meets the door frame to separate the stainless hinge from the aluminum body. This material shall be transparent so as not to be visible at any point while the door is being used.							

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

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61856	HOLD-OPEN DEVICES:
0 1 0 0 0	HULD-UPEN DEVICES.

The following door hold-open devices shall be installed:

-Compartment doors: Gas filled, 100-degree extension actuator
-Side access door: Gas filled, 110-degree extension actuator
-Rear doors: Cast Products grabber style devices

Spring-loaded devices are not desired because of their weaker holding capabilities and a lack of smooth door operation.

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63728 DOOR HANDLES AND LATCHING SYSTEM:

A door latching system is required that provides safety to all on-board personnel and security to all stored equipment. The patient area must be capable of being quickly secured. The following minimum features are to be designed into the module door latching system:

- -All door handles shall be rugged automotive style handles that are near flush with the outer door panel.
- Each handle shall actuate a Nader rotary safety latch.
- -The handle and latching system shall be designed by their manufacturer to accommodate electromagnetic activation. Paddle style or D ring style handles that must be retrofitted for this application are unacceptable.
- -The entire exterior handle assembly shall be Tri/Mark Series 2100 cast metal that is chrome plated and buffed to a high luster.
- -All doors shall have an exterior key lock.
- -All three patient area access doors shall include both interior and exterior latch activators. The rear doors shall have an activator installed on the outside of each door. The interior activators shall be located in a recessed pan on the door. A manual lock/unlock device shall be located within the pan. This pan shall be powder coated cast aluminum for extra durability and for ease of decontamination. No plastic products shall be used for this application.
- -Exterior double door compartments shall include two exterior latching devices, one on each door.

The latching system shall be a proven system that has been subjected to the simulated sled tests as described elsewhere in this specification. Latching systems that have not been subjected to these tests will not have reliable data available as to installation and retention characteristics. Again, only controlled testing fulfills this requirement. Neither pictures of accidents, nor common observations gathered from damage surveys will suffice.

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64311 CAB SET-BACK:

This purchaser requires that full seat travel be attained in the cab. This purchaser also requires that the cab seat backs have the ability to tilt. A 6" recess shall be designed into the front bulk head wall of the module body to accomplish this. The recess shall be constructed with welded aluminum panels so as to assure that neither the structural integrity of the body, nor the safety of the module body design, shall be compromised. Bulk head walls that are constructed using wood are not desirable as they feature weaker structural characteristics when compared with aluminum.

	integrity of the body, nor the safety of the module body design, shall be compromised. Bulk head walls that are constructed using wood are not desirable as they feature weaker structural characteristics when compared with aluminum.								
	Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:								
64816	PATIENT AREA DOOR OPENINGS: REAR DOORS:								
	Two (2) doors shall be provided at the rear of the module body. The overall opening of the access to be a minimum of 58.3" in height x 48.75" in width. Both inside and outside door handles shall be installed on each rear door. Left rear doors that can only be activated from the inside are not acceptable.								
	SIDE DOOR:								
	One (1) side door shall be provided on the curb side of the module body. The opening shall have minimum overall dimensions of 79.1" in height \times 30" in width.								
	Above section bid exactly as written: Section not provided:								

Bidder is offering an alternative to this section:

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MODULE TO CHASSIS MOUNTING SYSTEM:

This purchaser requires a mounting system that provides a stable and durable attachment of the module body to the chassis frame. To accomplish this requirement the following body attachment method shall be used:

A minimum of (4) four, Maximum of (5) Five Mounting platforms shall be attached along the outside of each chassis frame rail for a maximum total of (10) ten. Each platform shall consist of (1) top plate of .375" thick steel and (2) side reinforcement plates made of .25" steel. There shall be a .375" full backing plate where the mount attaches to the frame rail. The plates shall be welded along all seams with a heavy continuous weld. The body substructure shall include a 1" by 3" solid aluminum tie down bar welded to each sub structure cross member. To complete the body to chassis attachment, a VI-Tech tuned mounting system shall be used. The elastomer mount shall be custom- tuned to the specific chassis type for vibration reduction, structure borne noise attenuation and to provide low profile, low frequency isolation necessary for ideal patient compartment conditions. Standard chassis furnished mounting donuts will not meet the requirements of this specification. The VI-Tech mount shall be attached to each platform by (2) .625" Grade 8 bolts with washers and locking nuts. The platform shall be attached to the chassis frame rail with (3) .625" diameter Grade 8 bolts with washers and locking nuts. The fail safe elastomer isolation mount shall then attach to the aluminum body tie down bar with a .75" diameter Grade 8 bolt, a washer, and a locking nut.

The VI-Tech mounting system must have been subjected to a documented Hygee dynamic frontal impact test of at least 30 G's to verify the integrity of the mounting system in the event of a serious accident. No exceptions to this requirement are permissible.

Above	sect	tion	bid	exac	ctly	as	writ	ten	:			
Sectio	n no	ot pi	rovio	ded:								
Bidder	is	offe	ering	g an	alte	erna	ative	to	this	section	n:	

66921 **INSULATION**:

The patient area, including the doors, shall be insulated with 2" Technicon polyfiber for both thermal and acoustic insulation. The headliner area of the vehicle shall also include a barrier insulation of Reflectix material for increased protection.

Above	sect	tion	bid	exac	ctly	as	writ	ten:	:			
Section	n no	ot pi	rovid	led:								
Bidder	is	offe	ering	gan	alte	erna	ative	e to	this	sectio	n:	

MILLBROOK FIRE DEPARTMENT RESCUE SQUAD

MILLBROOK, NEW YORK 12545

57900 STREETSIDE FRONT COMPARTMENT (#1):

The compartment described above shall feature the following minimum dimensions:

Clear Door Opening: 18.2" wide x 75.1" high

Actual Dimension: 22" wide x 78.1" high x 20.1" deep

This compartment shall be accessed through a single hinged door meeting the standards for door construction, hinging, and latching outlined within this specification. The compartment shall house the vehicle's primary O2 cylinder and shall be vented to the outside in such a way as to prevent moisture from entering the compartment. Under no circumstances shall vents be installed within the compartment door. The compartment itself shall be constructed as an individual box and welded into the body structural framing. The material used shall be .125" polished aluminum diamond plate that is continuously welded at all seams. The compartment shall include two strips of LED lights, one to either side of the compartment door, to provide lighting inside the compartment.

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

69161 STREETSIDE INTERMEDIATE COMPARTMENT (#2):

The compartment described above shall feature the following minimum dimensions:

Clear Door Opening: 49.2" wide x 26.3" high

Actual Dimension: 51.5" wide x 29.5" high x 20.1" deep

This compartment shall be accessed through double hinged doors meeting the standards for door construction, hinging, and latching outlined within this specification. A portion of this compartment shall house the vehicle's required onboard electrical components as specified for use on this vehicle. The remainder of the compartment shall be utilized for storage of miscellaneous items as required by this purchaser. This compartment shall be vented to the outside in such a way as to prevent moisture from entering the compartment. Under no circumstances shall vents be installed within the compartment door unless they are required for airflow to equipment installed within this compartment. The compartment itself shall be constructed as an individual box and welded into the body structural framing. The material used shall be .125" polished aluminum diamond plate that is continuously welded at all seams. The compartment shall include two strips of LED lights, one to either side of the compartment door, to provide lighting inside the compartment.

Above	sect	cion bid	exac	ctly as	writt	ten:	:			
Sectio	n no	ot provid	led:							
Bidder	is	offering	gan	alterna	ative	to	this	section	:	

MILLBROOK FIRE DEPARTMENT RESCUE SQUAD

MILLBROOK, NEW YORK 12545

69569	DIVIDER FOR PROTECTION OF ELECTRICAL EQUIPMENT:

A vertical divider shall be installed as noted below. The divider shall

	the construct	tion of the comp o isolate the re	be fabricated from the same material use partment in which it is to be installed. equired vehicle electrical equipment from	This				
	Quantity: Locate:	-1- 12.00"	' from righthand compartment wall					
		Section not p	n bid exactly as written: provided: fering an alternative to this section:					
70019	SHELVING FO		R EXTERIOR COMPARTMENT:					
	A shelf shall be installed in the location(s) noted below. All shelving is to be fabricated from 3003-H14 aluminum diamond plate. This material shall be .125" thick. All shelving is to include a 2" integral lip to prevent equipment from sliding off of the shelf. The compartment light shall meet the lighting criteria as described elsewhere within this specification.							
	Quantity: Locate:	-1- Forwar	d of electrical divider					
		Section not p	n bid exactly as written: provided: fering an alternative to this section:					
71045	STREETSIDE F	REAR COMPARTM	ΛΕΝΤ (#4):					
			pove shall feature the following minimum					
	Clear Door Op Actual Dimens		32" wide x 26.3" high 37.4" wide x 29.5" high x 20.1" deep					
	This compartment shall be accessed through double hinged doors meeting the standards for door construction, hinging, and latching outlined within this specification. This compartment shall be utilized for storage of miscellaneous items as required by this purchaser. This compartment shall be vented to the outside in such a way as to prevent moisture from entering the compartment. Under no circumstances shall vents be installed within the compartment door. The compartment itself shall be constructed as an individual box and welded into the body structural framing. The material used shall be .125" polished aluminum diamond plate that is continuously welded at all seams. The compartment shall include two strips of LED lights, one to either side of the compartment door, to provide lighting inside the compartment.							
			n bid exactly as written:					
		Section not p	<pre>provided: fering an alternative to this section:</pre>					
		DIGGE IS OF	TOTATING ALL ALCOLITACE VO CITED DECCEDITION					

MILLBROOK FIRE DEPARTMENT RESCUE SQUAD

MILLBROOK, NEW YORK 12545

71489	OUELVING FOR ROURLE BOOK EVIERIOR COMPARIMENT.
11403	SHFI VING FOR DOUBLE-DOOR EXTERIOR COMPARTMENT:

A shelf shall be installed in the location(s) noted below. All shelving is to be fabricated from 3003-H14 aluminum diamond plate. This material shall be .125" thick. All shelving is to include a 2" integral lip to prevent equipment from sliding off of the shelf. The compartment light shall meet the lighting criteria as described elsewhere within this specification.

	shall meet t specificatio	he lighting criteria as described elsewhere within this n.							
	Quantity: Locate:	-1- Centered on compartment							
		Above section bid exactly as written:							
		Section not provided:							
		Bidder is offering an alternative to this section:							
72495	CURBSIDE RE	EAR COMPARTMENT (#5):							
	The compartm dimensions:	ent described above shall feature the following minimum							
	Clear Door O Actual Dimen	±							
	the standard within this of miscellan shall be ven entering the within the cas an indivimaterial use seams. The ceither side	This compartment shall be accessed through a single hinged door meeting the standards for door construction, hinging, and latching outlined within this specification. This compartment shall be utilized for storage of miscellaneous items as required by this purchaser. This compartment shall be vented to the outside in such a way as to prevent moisture from entering the compartment. Under no circumstances shall vents be installed within the compartment door. The compartment itself shall be constructed as an individual box and welded into the body structural framing. The material used shall be .125" aluminum that is continuously welded at all seams. The compartment shall include two strips of LED lights, one to either side of the compartment door, to provide lighting inside the compartment.							
		Above section bid exactly as written:							
		Section not provided:							
		Bidder is offering an alternative to this section:							
72718	STAIR CHAIR POCKET:								
	A pocket that is 40" high x 10" wide x 1.2" deep shall be recessed into the inner compartment door panel. The pocket shall be installed as close to the bottom and hinged side of door as possible unless otherwise specified.								
		Above section bid exactly as written:							
		Section not provided:							
		Bidder is offering an alternative to this section:							

MILLBROOK FIRE DEPARTMENT RESCUE SQUAD

72910	VELCRO BACKBOARD STRAP:									
	A Velcro back	board strap shall be installed as noted below:								
	Locate:	(1) centered across stair chair area and (1) centered across backboard storage area								
		Above section bid exactly as written: Section not provided:								
		Bidder is offering an alternative to this section:								
73582	FIXED VERTICAL COMPARTMENT DIVIDER:									
	A 16" vertical divider shall be installed as noted below. The divider shall be non-adjustable and shall be fabricated from the same material used in the construction of the compartment in which it is to be installed.									
	Quantity: Locate:	-1- Divider shall be shipped loose for dealer to install after customer inspection. As a result, both shelves required for this compartment will have to be manufactured by the body builder and installed by the local dealer after the vehicle has been picked up from the production plant.								
		Above section bid exactly as written:								
		Section not provided:								
		Bidder is offering an alternative to this section:								
74584	SHELVING FOR VERTICAL EXTERIOR COMPARTMENT:									
	is to be fabr is to be .125 prevent equip	be installed in the location(s) noted below. All shelving icated from 3003-H14 aluminum diamond plate. This material "thick. All shelving is to include a 2" integral lip to ment from sliding off of the shelf. The compartment light e lighting criteria as described elsewhere within this.								
	Quantity:	-2-								
	Locate:	Ship loose for dealer to install. DO NOT install adjustable slide track for shelves								
	NOTE:	Dealer will supply the final dimensions of both shelves after the divider has been located prior to customer delivery. Therefore, the dimensions for the shelves will not be available until after the vehicle is picked up from the ambulance manufacturer and inspected by Millbrook Fire Department Rescue Squad								
		Above section bid exactly as written:								
		Section not provided:								
		Bidder is offering an alternative to this section:								

MILLBROOK FIRE DEPARTMENT RESCUE SQUAD

MILLBROOK, NEW YORK 12545

76544 CURBSIDE FRONT COMPARTMENTS (#6 & #7)):

COMPARTMENT #6:

The compartment described above shall feature the following minimum dimensions:

Clear Door Opening: 22.1" wide x 61.1" high

Actual Dimension: 27.2" wide x 65.1" high x 30" deep

This compartment shall be accessed through a single hinged door meeting the standards for door construction, hinging, and latching outlined within this specification. This compartment shall also be accessible from the vehicle interior front wall area. This compartment shall be utilized for storage of purchaser-supplied jump kits and other miscellaneous items as required by this purchaser. The compartment itself shall be constructed as an individual box and welded into the body structural framing. The material used shall be .100" aluminum that is continuously welded at all seams. The compartment shall include two strips of LED lights, one to either side of the compartment door, to provide lighting inside the compartment.

COMPARTMENT #7:

The compartment described above shall feature the following minimum dimensions:

Clear Door Opening: 22.1" wide x 12.7" high

Actual Dimension: 27.2" wide x 13.2" high x 20" deep

This compartment shall be accessed through a single hinged door meeting the standards for door construction, hinging, and latching outlined within this specification. This compartment shall be utilized for storage of two vehicle batteries on a roll-out tray. This compartment shall be vented to the outside in such a way as to prevent moisture from entering the compartment. Under no circumstances shall vents be installed within the compartment door. This compartment shall be completely isolated from the vehicle interior. The compartment itself shall be constructed as an individual box and welded into the body structural framing. The material used shall be .125" polished aluminum diamond plate that is continuously welded at all seams.

Above	sect	tion	bid	exac	ctly	as	writ	ten:	:			
Section	n no	ot pr	covid	ded:								
Bidder	is	offe	ering	g an	alte	erna	ative	to	this	sectio	n:	

MILLBROOK FIRE DEPARTMENT RESCUE SQUAD

MILLBROOK, NEW YORK 12545

77144	KKK-A-1822 CERTIFICATION LABEL:										
	The vehicle shall have weight/payload, electrical load, and the current KKK-A-1822 certification stickers installed in the O2 compartment. Failure to provide these certification labels will be cause for rejection of the completed vehicle. Labels that are found to be falsified will also be cause for rejection of the completed vehicle. The purchaser reserves the right to request documentation showing that all required testing has been completed at the time of the bid opening. Failure to provide this documentation, if requested, will result in the bid being rejected without further consideration.										
	Above section bid exactly as written:										
	Section not provided:										
	Bidder is offering an alternative to this section:										
77543	SPECIAL BODY REQUIREMENTS:										
	The requirements set forth in the following section of this specification represent items and features that may not be offered as standard by the bidder. If the bidder is unable to furnish any items listed in this section, then that inability must be listed and explained in the bidder's list of exceptions. Failure to do so will result in rejection of the bidder's proposal as being non-responsive.										
77602	HEADROOM:										
	The interior headroom of the finished vehicle shall be: 68"										
	Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:										
78063	3" DROP SKIRT DESIGN:										
	The curbside skirt, forward of the rear wheel well shall be dropped three (3) inches. Two integral aluminum diamond plate steps shall be installed within the side access door step well for improved accessibility to the patient compartment. Under no circumstances shall this be accomplished by bolting an additional step to the step well. The design must be such that all steps are integral. The use of bolts, rivets, or any other type of fastener is prohibited.										

	Above section bid exactly as written:
	Section not provided:
	Bidder is offering an alternative to this section:
STREETSIDE OF	BODY LOWERED 3":
	body skirt, forward of the rear wheel well, shall be 3) inches. The extra room is to be provided inside the this area.
	Above section bid exactly as written:
	Section not provided:
	Bidder is offering an alternative to this section:

78228

MILLBROOK FIRE DEPARTMENT RESCUE SQUAD

MILLBROOK, NEW YORK 12545

79695 **SOUNDPROOFING:**

NOTE:

To insure good working conditions and to create a stable patient environment, the vehicle shall be manufactured with particular attention paid to sound control. The following process must be performed throughout the manufacturing cycle of the vehicle:

- Underbody shall be completely sprayed with sprayable, non-flammable latex sound control coating
- 2. Body Interior walls, roofs and interior compartment walls shall be sprayed with sprayable non-flammable latex sound control coating
- The interiors of all access and compartment doors shall be sprayed with sprayable non-flammable latex coating
- 4. The backs of all interior cabinets shall be wrapped in antiphon damping material
- Door interiors are to be lined with polydamp intefoam extensional damping pad
- The body structural tubes shall filled with non-resonating dampening material
- 7. Side stepwell areas are to be backed with PT Damping Pad
- 8. All walls shall be insulated with 2" Technicon polyfiber acoustic insulation. Headliners shall be double insulated with 2" Technicon Polyfiber and a Reflectix barrier.
- 9. A .125" damping pad, a .125" sound barrier sheet, and a .625" composite floor panel shall be installed prior to installation of the vinyl floor covering.
- 10. A chassis tuned VI-Tech mounting system shall be used to provide vibration reduction and structure borne noise attenuation.

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

!!! THE PULLOUT TRAY SHALL BE DELETED. THIS WILL

80127 HINGED STREETSIDE WHEEL WELL COMPARTMENT & TRAY:

A diamond plate compartment shall be constructed above the street side wheelhouse. This compartment shall be accessed through a hinge-down door. The door and compartment construction methods and materials utilized shall match those listed within the appropriate section of this specification.

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

JUST BE UTILIZED AS AN OPEN STORAGE AREA.

MILLBROOK FIRE DEPARTMENT RESCUE SQUAD

MILLBROOK, NEW YORK 12545

80215	MODULE BODY HARDWARE:										
	The following section lists hardware items that are to be installed on the vehicle body.										
80756	WINDOW, SLIDING FOR SIDE ENTRY DOOR										
	The side entry door shall have a sliding privacy window. The window shall measure 16.5"h x 17"w and shall be glazed and tinted in accordance with FMVSS. The window shall have dark privacy glass. The window shall meet FMVSS glazing standards. No films are to be used. The windows shall be encased in extruded aluminum frames. Under no circumstances will RV style windows, windows that rely on rubber gaskets, windows that do not feature extruded aluminum frames, or windows that do not meet the above stated minimum dimensions be acceptable.										
	Above section	bid exactly as written:									
	Section not p	erovided: Gering an alternative to this section:									
	Diddel 13 off	ering an arternative to this section.									
81687	ELECTRONIC PRIVACY WINDOV	ELECTRONIC PRIVACY WINDOWS, DOORS:									
	control. When privacy is need windows solid so they cannot distance. The windows shall switch. Both windows to have shall default the window set and transparent when the bat labeled "PRIVACY" and shall is	The patient area rear door windows shall include liquid crystal privacy control. When privacy is needed, a switch shall be activated to turn the windows solid so they cannot be seen through even at a very close distance. The windows shall return to clear with a second touch of the switch. Both windows to have fixed glass. Additional programming settings shall default the window settings to opaque with the battery switch off, and transparent when the battery switch is turned on. The switch shall be labeled "PRIVACY" and shall be the same type of switch as described in the electrical section of this specification.									
	panel. in the	nt to side patient door & in rear control Electronic privacy shall only be installed rear windows only. The side entry door have privacy tint with sliding glass									
		bid exactly as written:									
	Section not provided: Bidder is offering an alternative to this section:										
											
81949	EMERGENCY RELEASE PROVIS	ION, REAR DOORS:									
	bottom of the interior of the in the event of a door latch	The manufacturer shall install emergency release latches at the top and bottom of the interior of the rear entry doors. These will allow egress in the event of a door latch failure. The release knobs are to activate the rotary at the top and bottom of each door.									
	Above section Section not p	bid exactly as written:									

Bidder is offering an alternative to this section:

MILLBROOK FIRE DEPARTMENT RESCUE SQUAD

82397	DOOR HANDLES:									
	The vehicle is to include Tri-Mark free floating door handles. The handles shall include a chrome finish and are to activate the door latches through the use of pre-stretched stainless steel cables. Latches using cables made of any other material or that are not pre-stretched are not acceptable. The interior door panels are to be three piece with a removeable center section allowing access to the latch mechanism for lubrication and maintenance.									
	Above section bid exactly as written:									
	Section not provided:									
	Bidder is offering an alternative to this section:									
82477	LIGHTED DOOR HANDLES:									
	The door handles shall be backlighted with blue led fixtures behind the handles.									
	Above section bid exactly as written:									
	Section not provided:									
	Bidder is offering an alternative to this section:									
82784	SPLASH SHIELDS:									
	Stainless steel splash shields are to be installed on the lower front face of the module body just aft of the cab access doors. These shields are to have a #8 mirror finish and shall match the height of the diamond plate corners guards that are to wrap around the lower corner posts on the side of the body.									
	Above section bid exactly as written:									
	Section not provided:									
	Bidder is offering an alternative to this section:									
83107	STAINLESS STEEL FENDERS:									
	Polished stainless steel fender flares shall be installed above each wheel well opening. The mounting of these flares shall provide for no contact between the stainless steel fender, fasteners, and the aluminum body skin. This is done to eliminate any contact between dissimilar metals and the electrolysis that may result.									
	Above section bid exactly as written: Section not provided:									
	Bidder is offering an alternative to this section:									

MILLBROOK FIRE DEPARTMENT RESCUE SQUAD

83498	RUB RAILS:									
	Polished stainless lower body rub rails shall be installed on each side of the module body. Each rail shall be securely installed yet simple to remove and replace in the event of damage. Each rail is to be a three piece assembly to include a channel style rub rail and two removable end caps. These rails are to have a #8 mirror finish. Rubber rub rails are not acceptable to this purchaser.									
		Above section bid exactly as written:								
		Section not provided:								
		Bidder is offering an alternative to this section:								
83733	REAR ACCE	SS DOOR HOLD-OPEN DEVICES:								
	installed t loop shall	cts "Grabber" style rear door hold-open devices shall be to maintain the rear access doors in the 'open' position. be installed on each door, and the appropriate socket show the body.								
		Above section bid exactly as written:								
		Section not provided:								
		Bidder is offering an alternative to this section:								
83986	ELECTRIC L	OCKS, ACCESS DOORS:								
	Power activated door locks shall be installed on patient area access doors. Locks shall be activated by switches located at each patient area access door and in the front radio console. Locks may be overridden by a manual slide lever or by the door key.									
		Above section bid exactly as written:								
		Section not provided:								
		Bidder is offering an alternative to this section:								
84193	CONCEALE	D DOOR LOCK SWITCH:								
		d weatherproof switch shall be installed as indicated belower door locks specified above. The switch shall be wonly.								
	Locate:	Behind chassis grill								
		Above section bid exactly as written:								
		Section not provided:								
		Bidder is offering an alternative to this section:								
84410	DOOR LOCKS WIRED THROUGH OEM SWITCHES:									
	The power door locks specified above are to be wired to the O.E.M. chassis door lock switches. The converter-added switches in the module shall operate the module body only. They are not to operate the cab door locks.									
		Above section bid exactly as written:								
		Section not provided:								
		Bidder is offering an alternative to this section:								

MILLBROOK FIRE DEPARTMENT RESCUE SQUAD

84485	REFLECTORS ON ENTRY DOORS:										
	Red reflectors shall be installed on the inside on the patient area doors.										
		Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:									
84645	DOOR REFLE										
	Red Scotchli the top of e	te strips, 2" x 12", shall be installed horizontally across each entry door. This material is in addition to the isted above.									
		Above section bid exactly as written: Section not provided:									
		Bidder is offering an alternative to this section:									
84785	DRI-DEK IN EXTERIOR COMPARTMENTS:										
		erial shall be cut to size and installed on the bottoms of all apartments and shelves.									
	Color:	Black									
		Above section bid exactly as written: Section not provided:									
		Bidder is offering an alternative to this section:									
84989	RUBBER-CO	VERED WALLS IN BACKBOARD COMPARTMENT:									
	adhesive tex	the backboard compartment shall be covered with self- stured rubber matting to protect the walls and the equipment his area from any damage.									
	Color:	Gray									
		Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:									

MILLBROOK FIRE DEPARTMENT RESCUE SQUAD

MILLBROOK, NEW YORK 12545

86120 PAINT AND STRIPING:

An acrylic urethane paint process is required on the module body. This process shall extend to the chassis if the vehicle converter must perform paint or body work to the chassis. The acrylic urethane process is required so that the highest possible gloss will be provided. Acrylic urethane possesses superior color and luster retention characteristics when compared to other types of paint. In addition, an acrylic urethane process provides a higher resistance to chemical sprays, salt sprays, humidity, and temperature changes. Lastly, this process, given the expected life of the vehicle and its heavy-duty cycle, will best resist chipping. The final paint application shall be free of material application imperfections such as orange peel, streaking, or a dull finish. Once painted, the vehicle shall be inspected under a black light to bring any small imperfections, not seen with the naked eye, to attention. Any such imperfections shall be repaired prior to the conclusion of the paint inspection process. The final application shall provide a high gloss on all body surfaces including the roof and excluding the underside.

Above	sect	tion	bid	exac	ctly	as	writ	ten:	:			
Sectio	on no	ot pi	rovid	led:								
Bidder	is	offe	ering	an	alte	erna	ative	to	this	section	n:	

87413 **PREPARATION:**

To produce an acceptable paint finish, the following paint process must be used:

All body doors and hardware must be removed prior to any wash, prime, or final paint application. All material impurities and oils must be removed from the bare aluminum body. The entire module body, excluding the underside, will have all visible welds ground down and all material imperfections filled. All holes (e.g. for hinge mounting, etc.) shall be plugged at this stage to prevent any cleaning agents from entering the module body framework. The body shall be prepared for paint by spraying with a phosphoric acid-based cleaner to remove dirt and oil and to etch the body for superior paint adhesion. The application of the cleaner shall be followed with a water rinse. Next, a chromium-free titanium composite coating shall be applied to the body to enhance paint adhesion and to prevent corrosion. The body shall be rinsed with de-ionized water to prevent salts from accumulating on the surface. The body will, then, be baked dry prior to the application of three (3) coats of Sikkens Colorbuild primer. The primed body shall be finish sanded and made ready for the final paint application. All module doors, though handled separately from the body, shall undergo the same process as described above.

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

MILLBROOK FIRE DEPARTMENT RESCUE SQUAD

87839	PAINT MANUFACTURER'S INSPECTIONS:									
	The manufacturer shall maintain an outside paint audit system. As part of that audit the paint manufacturer shall regularly receive and test sample paint panels that are painted along with module bodies. The paint manufacturer shall also provide regular onsite inspections of the vehicle manufacturers paint process to assure a consistent level of quality. Audit reports from these inspections shall be provided to management.									
	Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:									
	Bruder is offering an afternative to this section.									
88158	ADDITIONAL CORROSION PREVENTION MEASURES:									
	All locations where fasteners penetrate the outer skin of the module body shall be coated with ECK anti-corrosion agent. In addition, all fasteners that penetrate the outer skin of the module body shall be treated with an anti-corrosion agent to assure the maximum protection against vehicle corrosion and electrolysis.									
	Above section bid exactly as written:									
	Section not provided:									
	Bidder is offering an alternative to this section:									
88453	NON-METALLIC HOLE INSERTS:									
	All locations where light heads and fenders attach to the aluminum body shall utilize threaded Nylon inserts to isolate the fasteners from the aluminum module body skin and structure. This practice, along with the other measures described above, shall act to minimize the threat of electrolysis.									
	Above section bid exactly as written:									
	Section not provided:									
	Bidder is offering an alternative to this section:									
88841	PAINT WARRANTY:									
	The paint warranty provided by the converter must meet all warranty standards as set forth elsewhere within this specification. At a minimum this warranty will be 4 years/48,000 miles. The warranty MUST NOT be prorated in any manner. Bidder must submit a manufacturer's paint warranty certificate with the bid. Failure to do so will result in automatic rejection of the bidder's proposal.									
	Above section bid exactly as written:									
	Section not provided:									
	Bidder is offering an alternative to this section:									

MILLBROOK FIRE DEPARTMENT RESCUE SQUAD

MILLBROOK, NEW YORK 12545

88923	CHASSIS PAINT COLOR:										
	The OEM chassis manufacturer's bright white paint shall be applied to the chassis.										
	Section n	tion bid exactly as written: ot provided:									
	Bidder is	offering an alternative to this section:									
89067	BODY PAINT COLOR:										
		The final paint application to the vehicle body shall be made with Sikkens Autocryl acrylic urethane paint.									
	Color: White Number: FLNA4002										
	Above sec	tion bid exactly as written:									
		ot provided:									
	Bidder is	offering an alternative to this section:									
89953	VEHICLE STRIPING:										
	photographs, diagrams, as may be required. The streshall break up the street doors out along each from sides. The successful bid	e applied. The stripe design shall match the nd/or drawings as provided by the purchaser as ipe specified shall be a Flying 'H' design and t and curb sides of the module, across the cab nt fender, and down the rear street and curb body dder shall provide, prior to any application, CAD required stripe as it will appear on the									
	Color: Ora	ange Scotchlite									
	st: arc par	not leave a break in the vertical portion of ripe for Star of Life. In addition wrap stripe bund rear corner posts and stop at rear face nels. Beltline Strip shall continue across the ar doors									
	Above sec	tion bid exactly as written:									
		ot provided:									
	Bidder is	offering an alternative to this section:									
90075	BLACK PIN STRIPE:	BLACK PIN STRIPE:									
		as described above, shall include a $1/4$ " black the entire accent stripe.									
	Section n	tion bid exactly as written: ot provided: offering an alternative to this section:									

90164 CABINET DOORS, PLEXIGLAS, HANDLES AND HARDWARE:

Information relative to interior door materials, handles, and hardware is provided below:

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90328	HANDLES FOR PLEXIGLAS DOORS:									
	All sliding Plexiglas doors within the patient compartment of the vehicle are to have extruded handles installed the full height of each door at the outermost edge.									
	Above section bid exactly as written:									
	Section not provided:									
	Bidder is offering an alternative to this section:									
90606	LATCHES FOR HINGED DOORS:									
	The hinged doors within the patient compartment are to utilize Southco Stainless Steel flush-style latches as noted below. These latches shall feature recessed pull ring style handles. The latches shall be both positive (mechanical latching) and passive (latches automatically).									
	Above section bid exactly as written:									
	Section not provided:									
	Bidder is offering an alternative to this section:									
90670	PLEXIGLAS COLOR:									
	The Plexiglas interior cabinet doors shall be a light gray tint.									
	Above section bid exactly as written:									
	Section not provided:									
	Bidder is offering an alternative to this section:									
91224	INHALATION PANEL:									
	To prevent contamination of the inhalation panel the panel shall be fabricated using no wood or wood based products. The material used shall be a .5" thick synthetic polyurethane foam with layers of continuous strand fiberglass and woven roving fiberglass sanded on both sides. The material shall have a minimum composite density of 26 pounds per square foot. This material shall not absorb liquids and shall not attract bacteria, molds or fungi. The material is to be covered with Formica material in a color matching that required within this document.									
	Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:									

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92173 **AVONITE COUNTER TOP WITH COVED INTERIOR EDGES:**

The patient area countertop(s) shall be constructed of solid surface material. The countertops shall incorporate a 1" radiused retention lip around the perimeter of the material. This radiused corner shall also be tapered to avoid any sharps edged. The area where the lip meets the

	to a 90 degree installed at escabinet wall. The vehicle, shareas that required with silicone.	face of the counter shall be rounded and smooth as opposed mating of materials. A radius cove molding shall be other end of the countertops where the material meets the other ear edge of the material, adjoining the side wall of hall be sealed with silicone. In addition, any and all haire seams due to manufacturing processes shall be sealed of this material shall be uniform throughout so that the buffed out without causing adverse effects on the other material. The Avonite color required is noted below:						
	Color:	MIDNIGHT PEARL						
		Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:						
92225	INTERIOR COLO	RS, UPHOLSTERY AND SEATING:						
		ea interior design is specified below:						
92550	INTERIOR COLO	R SCHEME:						
	The patient are below.	ea interior shall feature the materials and colors listed						
	FLOOR: RISER: WALL: ACCENT STRIPE: CABINET: UPHOLSTERY:	LonCOIN Sapphire Blue #152 Brittany Blue #D31 Fashion Gray Indigo #D379 Fashion Gray Paint Wedgewood Blue						
		Above section bid exactly as written: Section not provided:						
		Bidder is offering an alternative to this section:						
92859	INTERIOR STOR	AGE AREAS:						
	All interior storage cabinets, including the interior of the squad bench, shall be painted for ease of cleaning. Under no circumstances shall carpet be used within these storage cabinets as it is impossible to decontaminate. The paint color is listed within the "Interior Color" section of this specification.							
		Above section bid exactly as written: Section not provided:						
		Bidder is offering an alternative to this section:						

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93370	RISERS:
23310	KISEKS:

94158

The interior of this vehicle shall be constructed without the use of wood or wood-based products. The risers shall be constructed of a reinforced structural composite consisting of a high density polypropylene core laminated between two layers of .024""" aluminum skin. The composite shall then be covered by a Formica overlaminate to match the interior of the vehicle. The finished riser panels shall be impervious to water or other forms of moisture and must be guaranteed against rotting or decomposition.

	Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:	
ΑT	ENDANT SEAT:	
An	ttendant's seat base shall be fabricated from aluminum and shall b	е

An attendant's seat base shall be fabricated from aluminum and shall be installed in a position at the head of the cot. The base shall house the vehicle's heat/AC unit as described in that section of this specification. The material shall be perforated to promote airflow to the unit. A USSC bucket type seat shall be installed on the seat base in the rear-facing position. The seat shall be upholstered to match the vehicle interior, and shall be capable of adjustment from front to rear. Under NO circumstances shall this seat be installed in any manner that allows it to swivel due to the lack of stability and weaker structural characteristics inherent in such designs. The seat shall include an integral 4pt seatbelt as described under the "seatbelt" section of these specifications.

Above	sect	tion	bid	exac	ctly	as	writ	ten:	:			
Sectio	n no	ot pi	rovid	led:								
Bidder	is	offe	ering	gan	alte	erna	ative	to	this	section	ı:	

94801 **SEAT BELTS:**

Each seating position shall include a 4pt seat belt. Each belt shall include a 4 retractor system to allow all four belts to be fully retractable. Each belt shall also include quick one click design to ease their use. The belt at each position is to be outfitted with a removeable vest designed to guide the belt into the proper position, prevent the buckle from moving up or down and side to side, and offer better support and comfort to the seat occupant.

Locate:

Head of bench Middle of bench Foot of bench CPR seat Attendant's seat	Yes Yes Yes Yes No - belts are incorporated into the seat	
Secti	section bid exactly as written: on not provided: r is offering an alternative to this section:	

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96033 **ALUMINUM INTERIOR CABINETS, STREET SIDE:**

This specification requires an all aluminum modular cabinet design. Aluminum, a minimum of .063" thickness, is required over wooden cabinetry due to its lighter weight, greater durability, and the ease with which it can be decontaminated. The main cabinet wall shall be of modular construction. All individual cabinets shall be of welded construction. To insure the safety of patients and attendants in the rear of the vehicle, the main cabinet wall installation shall have been tested to a minimum frontal impact of 30 $G^{\prime\prime\prime\prime}$ s per the requirements of the Safety Certification section of this specification. The main cabinet wall may not be constructed of any wood or wood product. Wooden cabinetry can expand, contract, splinter, separate, or crack, Wood will

	harbor bloodborne pathogens whereas aluminum can be easily cleaned. Aluminum will remain stable and securely mounted (no fibers to compress) over many years and miles of continuous service. For these reasons, wooden cabinets, even when laminated with another material, will not be acceptable. Bids received that utilize any material other than that which is specified above will be considered non-responsive and will be rejected without further consideration.
	Above section bid exactly as written:
	Section not provided:
	Bidder is offering an alternative to this section:
96274	CABINET TRIM:
	The interior of the ambulance module shall have radius corner extrusions. The radius shall be a minimum of one and a half inches. The radius trim shall also include a removable cap that can be field replaced if damage occurs. (No Exception)
	Above section bid exactly as written:
	Section not provided:
	Bidder is offering an alternative to this section:
96456	INTERIOR CABINETRY, STREET SIDE
	All of the aluminum cabinetry within the vehicle shall be of welded construction. Methods of cabinet construction that utilize rivets or adhesives of any type will not be considered.
	Above section bid exactly as written:
	Section not provided:
	Bidder is offering an alternative to this section:
96762	ALUMINUM CABINET WARRANTY:
	The all aluminum cabinet construction, as described within this section, shall be warranted against any structural defects for a period of time not less than 15 years. This warranty shall be stated within the manufacturer's structural warranty document, and shall not be subject to any mileage limitations.

9

Above	sect	tion	bid	exac	ctly	as	writ	ten:	:			
Section	n no	ot pr	covid	ded:								
Bidder	is	offe	ering	g an	alte	erna	ative	to	this	sectio	n:	

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07527	A A DIVIET DELIVID	A ==== NID A NIE	^- • -
97537	CABINET BEHIND	AIIHNI)ANI	SEAT:

A vertical storage cabinet shall be located behind the attendant seat. The upper storage area shall house the primary electrical distribution area. The lower section shall be used for miscellaneous storage. The left and right cabinet walls shall be fitted with Unistrut shelf track for an

	aluminum adjustable shelf. Each area shall be accessed through hinged doors. The electrical distribution area shall include a Southco key lock/latching device. The entire cabinet shall be fabricated from aluminum. The interior of the cabinet shall be painted and trimmed as described in the cabinet construction section of the specification.								
	Number of Doors: 2 (Including Electrical Cabinet) Number of Shelves (Adjustable): 1 Number of Shelves (Fixed): 1								
	Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:								
97969	INTERIOR OCCUPANT PROTECTION:								
	For the safety of the attendants working in the patient area, the vehicle shall be equipped with an interior occupant protection system incorporating an emergency inflatable airbag system at both the attendant and the CPR seat locations. In the event of a side impact rollover collision, the bags shall be triggered by an electronic sensor to inflate and protect the occupants against severe head strikes typical of such collisions.								
	Above section bid exactly as written:								
	Section not provided: Bidder is offering an alternative to this section:								
98188	ATTENDANT'S SEAT PROTECTION:								
	The attendant seat location shall be protected by an inflatable head cushion technology as well as a unique inflatable tubular system to prevent the attendant from impinging into the danger zones of the inhalation area.								
	Above section bid exactly as written: Section not provided:								
	Bidder is offering an alternative to this section:								
98419	CPR SEAT PROTECTION:								
	The CPR seat location shall be protected by a combination of an inflatable tubular system at the forward side to protect against entry into the inhalation area as well as a system of progressive resistance head protection cushions.								
	Above section bid exactly as written:								
	Section not provided: Bidder is offering an alternative to this section:								
	proder to orrestlid all affective to filly section.								

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98916	TESTING:

99226

All airbag seating locations shall have been tested with a variety of occupant sizes. Those tests shall include Hybrid III fully instrumented test mannequins including 5% child (115 lbs.), 50% female (163 lbs.), and 95% male (195 lbs.). Testing shall have included at least fourteen (14) fully instrumented destructive dynamic roll crashes and an additional si (6) side impact performed at 17

(6) side impact destructive crashes. Roll crash testing shall be performed at 17-19G's while side impacts shall be approximately 27G's.	ΙX
Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:	
CERTIFICATIONS:	
The vehicle must have been certified as compliant to standards ECE R29, SAE J2420, and SAE J2422. The bidder must show evidence that their service facility is trained and certified to service or to replace the airbags should the need arise. Such certification shall be attached to the proposal (NO EXCEPTIONS).	
Above section bid exactly as written: Section not provided:	
Bidder is offering an alternative to this section:	

100575 STREET SIDE CABINET WALL:

The street side main cabinet wall shall be constructed from aluminum as described above. Each cabinet within the cabinet wall shall be designed and constructed as an individual welded aluminum box. Each box shall be insulated and soundproofed. The boxes shall then be bolted together to form the main cabinet wall. This design will allow for future modifications to the cabinetry should equipment storage requirements be updated. The cabinet wall assembly shall be further insulated against noise and temperature extremes. The entire assembly shall be bolted to the module body structure. Cabinets that are welded or otherwise permanently affixed to the module body structure will be unacceptable. Such permanent installation methods limit the ability to make design updates at a later time. They also increase the time and cost involved with regard to remounting the body onto a new chassis should that occasion ever arise. Likewise, cabinets mounted with the use of either rivets or adhesives of any kind will not be considered without exception.

Configure: Street side cabinets to be 18" deep. Cabinet wall to be as close to previous vehicle as possible Install a full height cushion on right hand wall (WHEN SEATED) in the CPR seat. Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:

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100702	CABINET SHELVING	3 :
		net shelves shall be fabricated from aluminum. The lize mini Unistrut adjustable shelf track.
	Ab	ove section bid exactly as written:
		ction not provided:
	Bi	dder is offering an alternative to this section:
101658	TESTING AND STRU	JCTURAL INTEGRITY:
	specification shall described within the string is in additional testing is in additional testing is in additional testing is in additional testing is responsible integrity. However, materials used to sound in the unlike the string is resiscrash-stable and include cabinet was	design and construction methods described within this all have been subjected to Hygee sled testing as the "Safety Certification" section of this document. In have been performed to a minimum of 30 g's. This ition to all other testing, whether mandated or as been performed. The cabinet wall shall not be, in any for any portion of the module body's structural responsive wall, as well as the methods and attach the wall to the vehicle, must be structurally kely event that this vehicle is involved in an accident. Equired as an added assurance that the vehicle interior and safe for all vehicle occupants. Proposals that all designs that have not been subjected to this testing on the basis of being non-responsive.
	Ab	ove section bid exactly as written:
		ection not provided:
		dder is offering an alternative to this section:
102470	RESTOCKING CABI	NET FRAMES, STREETSIDE:
	doors that hinge addition to the not shall be installed allow the entire cabinet. The door gas-charged cyling bolt type latches flush sweep-out standard additional type standard and the standar	abinet(s) listed below shall feature sliding Plexiglas apward for cleaning and restocking of the cabinet in ormal sliding mode of operation. The extruded door frame d at the top with a full length piano hinge. This will frame to flip upwards providing complete access to the and frame shall be held in the "up" position with two ders, and in the down position with two sliding dead. The bottom of all cabinets with this feature shall be tyle. The remainder of the door construction shall ropriate section of this specification.
	Locate:	(1) cabinet above inhalation area(2) rear cabinets on main wall
	Ah	ove section bid exactly as written:
		ection not provided:
		dder is offering an alternative to this section:

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102775	CPR SEAT ST	ORAGE:
	area beneath storage area as large as	cushion shall be hinged upward to allow for access to the it. This area shall provide miscellaneous storage. The shall be fabricated with aluminum diamond plate and shall be is possible given the location of the exterior tion and wheel house.
		Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:
103055	LOCKABLE D	
	A single loc designated i	kable door shall be installed on the cabinet noted below and n the vehicle drawings. The door shall include a Southco hing device, and shall be constructed of Formica-covered
	Locate:	Below electronics door (same size)
		Above section bid exactly as written:
		Section not provided:
		Bidder is offering an alternative to this section:
103361	ALUMINUM IN	ITERIOR CABINETS, CURB SIDE:
	standards fo in the previ	abinets located within this section shall meet the same r construction, design, materials, and testing as designated ous section. Failure of the bidder to provide aluminum ting these criteria shall be grounds for rejection of the bid-responsive.
		Above section bid exactly as written:
		Section not provided:
		Bidder is offering an alternative to this section:
103954	SQUAD BENC	H STORAGE:
	A storage ar installed be painted and specificatio cushion. Thi mandates pre the wheelhou of wood, whe	ea, fabricated from .063" 5052-H32 aluminum, shall be neath the squad bench cushions. This storage area shall be trimmed per the cabinet contraction section of this n. Access to this area shall be gained by raising the bench s area shall be as large as possible given the design sent in the federal 'K' specifications, and the presence of se directly beneath this area. Note that storage areas made ther or not they are laminated or otherwise covered with rial, will not be acceptable.
		Above section bid exactly as written:
		Section not provided:
		Bidder is offering an alternative to this section:

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104547	SQUAD BENCH:
	A minimum 22" wide x 72" long split squad bench cushion shall be provided on the curb side of the patient area. The cushion shall not include posts or wheel cups for a stretcher. Three seat belts shall be installed in this area for the seated position, and for backboard retention for a secondary patient. These belts shall meet all applicable testing requirements as set forth in the latest federal 'K' specs. In addition, these belts shall have been subjected to a Hygee sled test of at least 30g's. Squad bench restraints that have not been subjected to this testing will not be acceptable.
	Above section bid exactly as written:
	Section not provided:
	Bidder is offering an alternative to this section:
104758	BENCH END RESTRAINT:
	Install a full height welded aluminum crash resistant end restraint at the head of the squad bench. The restraint bulkhead is to incorporate a shatter resistant Lexan viewing window to the side access door area.
	Above section bid exactly as written:
	Section not provided:
	Bidder is offering an alternative to this section:
105130	CURBSIDE FORWARD BENCH HEAD CUSHION:
	As part of the interior occupant protection system, the vehicle shall have (1) inflatable head cushion (airbag) installed to protect the head of the occupant seated in the forward position of the bench. The restraint deployment shall be simultaneous with all the other patient compartment airbags activated by the electronic rollover crash sensor installed on the vehicle.
	Above section bid exactly as written:
	Section not provided:
	Bidder is offering an alternative to this section:
105502	CURBSIDE REAR BENCH HEAD CUSHION:
	As part of the interior occupant protection system, the vehicle shall have (1) inflatable head cushion (airbag) installed to protect the head of the occupant seated in the forward position of the bench. The restraint deployment shall be simultaneous with all the other patient compartment airbags activated by the electronic rollover crash sensor installed on the vehicle.
	Above section bid exactly as written:
	Section not provided:
	Bidder is offering an alternative to this section:

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105759	BENCH HOLD OPEN:
	24lb. Gas piston style hold-open devices shall be installed on the flip-up squad bench cushions. These devices will provide for smooth and simple operation. For that reason substitute hold-open devices, such as ratchet style devices, will not be acceptable.
	Above section bid exactly as written:
	Section not provided:
	Bidder is offering an alternative to this section:
106080	BENCH HOLD DOWN:
	Paddle style latches shall be installed on each flip-up bench cushion to hold the cushions in the 'closed' position. The operation of these latches shall be passive and shall required intentional unlatching in order to raise the squad bench cushion. Each latch is to be flush mounted in the face of the squad bench riser.
	Above section bid exactly as written:
	Section not provided:
	Bidder is offering an alternative to this section:
106353	SQUAD BENCH EDGE PROTECTION:
	An aluminum angled trim piece shall be installed along the bottom edge of each bench cushion. Each piece shall be bent to follow the contour of each cushion on the horizontal plane. These trim pieces shall provide added protection for the upholstery against extensive wear.
	Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:

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107529 SHARPES/WASTE DISPOSA	۱L:
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An aluminum drawer shall be installed in the face of the squad bench per the instructions listed below. This drawer will house a sharps/waste disposal location. Both the sharps and the waste containers shall be easily removable from the drawer. The drawer will include a Southco latching device to hold it in the 'closed' position.

LOCATE: FRONT OF BENCH TO OPEN INTO AISLE.

!!! INCLUDE A HORIZONTAL DIVIDER WITH OPENINGS TO HOLD CONTAINERS IN PLACE. INSTALL (2) #185 ONE-QUART SHARPS CONTAINERS SIDE-BY-SIDE ON THE DRAWER FACE SIDE, AND (1) #2953 SMALL WHITE RUBBERMAID WASTE CONTAINER AS CLOSE TO SHARPS CONTAINER AS POSSIBLE. SHARPS CONTAINERS TO BE LOCATED CLOSE TO THE DRAWER FRONT SO THERE IS FULL ACCESS TO ALL CONTAINERS WHEN DRAWER IS OPEN AND COT ANTLER IS IN PLACE. SEE DEALER MODIFIED PHOTO ON 'V' DRIVE.

!!! DRAWER FACE TO BE LAMINATE COVERED ALUMINUM ILOS.

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

107752 GLOVE STORAGE ABOVE SIDE ACCESS DOOR:

Install recessed storage above the side access door for two (2) boxes of gloves. Provide oval openings in a hinged padded and upholstered door for glove access.

Glove box size: 10.00" long x 4.00" deep x 5.00" high

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

108190 ALUMINUM INTERIOR CABINETS, FORWARD WALL:

Like all other cabinets in the patient area that are to be fabricated and installed by the manufacturer, the cabinets on the forward wall are to be fabricated from aluminum as dictated in the appropriate section above. Again, failure of the bidder to meet the criteria established within this specification with regard to cabinet design, construction, materials, and testing will be cause for rejection of the bid as being non-responsive.

Above	sect	tion	bid	exac	ctly	as	writ	ten:	:			
Section	n no	ot pi	rovio	ded:								
Bidder	is	offe	ering	g an	alte	erna	ative	to	this	sectio	n:	

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108914 FRONT WALL CABINET:

109406

A cabinet shall be provided on the front wall of the patient area just inside the side access door. This cabinet shall run from floor to ceiling and shall be fabricated from .063" welded aluminum. The cabinet shall be anchored at both the top and bottom for stability. This stability must have been tested through a Hygee sled test of at least 30g's. Under no circumstances shall this cabinet be welded to any module body structural member. This storage area shall be used to house purchaser supplied

bagged equipment and supplies. Finish Material: Texture painted surface Color: Per interior color scheme section 1 (.125" thick material) Shelf Quantity: Shelf Liner: Rubber matting Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section: FRONT WALL CABINET HINGED DOORS: Access to the front wall cabinet, as described above, shall be provided per the description below. Door Type: Hinged Plexiglas 4 (Equal size) Quantity: Locate: Front wall cabinet Latch Style: Southco

In addition to the Southco latches, install full height pull handles

Install (1) additional adjustable shelf in upper

portion of the cabinet

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

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110336	WAI KTHROUGH PARTITION DOOR:
110330	WALKIEROUGH PARILION DOOR:

110717

110881

111053

A hinged partition door shall be provided between the cab and the patient area. The door shall be constructed of high density urethane internally reinforced with layers or continuous strand and woven roving fiberglas. The door shall be impervious to moisture and shall be trimmed on both sides with a Formica laminate and shall be protected on all edges with aluminum trim that is screwed into place. The door shall fit into a recessed pocket when in the stored position. The recess shall be installed on the left side outer surface of the front wall cabinet facing the walkthrough. This recess will allow the door to be stored without any of the corners or edges protruding out into the walkway. The door shall include a fixed window that measures 11.5" in height by 13" in width. The door shall late design of this

	atch securely in both the open and closed positions. The is door shall not include the use of rivets without exception
	Above section bid exactly as written:
	Section not provided:
	Bidder is offering an alternative to this section:
MODULE INTE	ERIOR ACCESSORIES AND TRIM:
All installa by the bidde quality of c attendants.	g section addresses interior accessories and trim features. tion locations, as noted below, shall be strictly adhered to r. The items in this section will directly influence the are given to the patient, as well as the safety of the For these reasons the installation locations listed below without exception.
MODURA RAI	L:
	l for hanging equipment shall be installed per the listed below.
Quantity: Locate:	(3) feet Inhalation area
	Above section bid exactly as written:
	Section not provided:
	Bidder is offering an alternative to this section:
IV HOOKS:	
Perko IV han	gers shall be installed per the instructions listed below.
Quantity: Locate:	-2- Ship two loose with vehicle for dealer to install
	Above section bid exactly as written:
	Section not provided:

Bidder is offering an alternative to this section:

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111819 **CEILING GRAB RAIL WITH ANTI-MICROBIAL COATING:**

A grab rail shall be installed in the ceiling as noted below. This rail is to be constructed of stainless steel. Integral stanchions shall be welded into place at fixed points along the length of the rail for attachment to the ceiling. The rail shall attach through aluminum mounting plates that are welded to the module roof structure for strength

	and durability. Because contamination occurs most often as a result of contact, this feature must be treated with an anti-microbial agent consisting of an inorganic ceramic coating embedded with silver ions. This coating shall be effective against a broad range of microbes including bacteria, molds, algae and fungi.								
	Size: Locate:	8' Install on curbside edge of center ceiling plate							
		Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:							
112525	VERTICAL G	RAB RAIL WITH ANTI-MICROBIAL COATING:							
	be construct attach to the reinforce occurs most with an antiembedded with	A vertical grab rail shall be installed as noted below. This rail is to be constructed of stainless steel with a brushed finish. The rail is to attach to the mounting location at each end. The attachment points shall be reinforced for added strength and durability. Because contamination occurs most often as a result of contact, this feature must be treated with an anti-microbial agent consisting of an inorganic ceramic coating embedded with silver ions. This coating shall be effective against a broad range of microbes including bacteria, molds, algae and fungi.							
	Size: Locate:	2' On crash wall just inside of entry door at the head of the bench							
		Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:							
113083	PATIENT ARE	A DOOR GRAB RAILS:							
	Angled door handles shall be installed on the interior door panels of each access door. The handles shall be one-piece and shall be constructed of stainless steel. The handles shall feature smooth radius corners and flange mounts at each attachment point. Because contamination occurs most often as a result of contact, this feature must be treated with an anti-microbial agent consisting of an inorganic ceramic coating embedded with silver ions. This coating shall be effective against a broad range of microbes including bacteria, molds, algae and fungi.								
		Above section bid exactly as written:							
		Section not provided:							
		Bidder is offering an alternative to this section:							

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113170	COVE MOLDING:								
	A radius cov may have sea	e molding shall be installed at all areas of the floor that ms.							
		Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:							
113308	PROTECTIVE	EDGE TRIM:							
		e edges of the squad bench, the attendant seat riser, and the abinet shall be protected by a chamfered trim angle.							
		Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:							
114016	CEILING:								
	aluminum com between two impervious t same rate of that is padd any headline durability a Plastic, fib	area ceiling shall be constructed of a bright white Alcopla posite material consisting of a polyethylene core laminated sheets of coated aluminum. The headliner shall be smooth, o moisture, easy to clean and durable. It shall have the expansion and contraction as the aluminum body. Headliner ed or upholstered in any way will not be considered, not will r made of wood or wood products due to the lower degree of nd the risk of contamination inherent in such materials. erglas or ABS headliner material is not acceptable due to the monly causing by the differing rates of expansion.							
		Above section bid exactly as written: Section not provided:							
		Bidder is offering an alternative to this section:							
114243	FIRE EXTING	JISHER:							
		BC fire extinguishers, with mounting brackets, shall be the completed vehicle per the notations below.							
	Quantity: Note:	-1- Ship Loose for dealer to install before delivery							
		Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:							

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114559	COT MOUNTS	AND PATIENT HANDLING:
	mount install as outlined of documentation	c/patient handling requirements are specified below. The cot lation process shall have been subjected to a Hygee sled test elsewhere within this specification. Failure to provide n of this test having been performed may be cause for the bidder's proposal.
		Above section bid exactly as written:
		Section not provided:
		Bidder is offering an alternative to this section:
114706	COT SAFETY I	HOOK:
		llow cot safety hook just inside the trailing rear door of This hook shall be the type recommended for the cot being
		Above section bid exactly as written:
		Section not provided: Bidder is offering an alternative to this section:
		bruder is offering an afternative to this section.
115075	COT MOUNT:	
	recommendation installed as	ker cot mount shall be installed per the instructions and ons of the hardware manufacturer. The cot mount shall be noted below. The cot mount installation must meet all for cot retention as set forth in the current federal
	Cot Model: Locate:	Stryker Power Pro Center position
		Above section bid exactly as written:
		Section not provided:
		Bidder is offering an alternative to this section:
115453	COT FLOOR P	LATES:
	patient area attached to t perimeter of	eel floor plates, .050" thick, shall be installed on the floor below the cot wheels. The floor plates shall be the floor with #6 flathead stainless steel screws. The entire each plate shall be sealed to the floor with silicone to area beneath the plates from contamination.
	Cot Model:	Stryker Power Pro
		Above section bid exactly as written:
		Section not provided:
		Bidder is offering an alternative to this section:
115519	ELECTRICAL I	EMERGENCY VISUAL WARNING SYSTEMS:
		-INILIXOLITO I VIOUAL TTAIXITITO UTUTLIVIU.

Warning lights are to be installed per the following instructions:

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116266 **HEADLIGHT FLASHER:**

The vehicle headlights shall alternately flash through the activation of the appropriate switch on the cab control console. This feature shall be accomplished through a solid state flashing device that is a part of the primary electrical control board.

A programmable phase control shall be built into the system board to allow alteration of the light flashing sequence. The flash pattern must be capable of being switched from an alternating pattern to a pulsating pattern.

The phase of "on" time can be programmed to flash when desired for an effective light pattern. For instance: If the left grill light is flashing "on", the right flashing headlight is desired to be "on". Different flash patterns may be achieved through programming.

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

117401 L.E.D. WARNING LIGHTS ON COMPARTMENT DOORS:

Install custom made L.E.D. light strip(s) on the compartment door interior door panels. The light strip shall be comprised of twelve lights. Each light is to be centered behind a scalloped integral lens for maximum light disbursement. Each light strip is to be twelve inches in length. When mounted the lens shall be flush with the aluminum diamond plate inner panel. The light strip shall flash when the compartment door is open, and the red flashing light circuit is activated. The lens shall be designed to provide a bright and intense light from a distance. As distance is decreased the light shall become less intense, preserving night time visibility for people working near the vehicle. L.E.D. lamps shall be used due to their "cold" operating temperature, low amp requirement, and long life expectancy. The lights are to provide additional lighting to warn traffic and pedestrians of open compartment doors, and to provide additional safety for the attendants.

Quantity: -5Compartment: Upper center of all rear facing doors
Color: RED
Status: Flash

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

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118724 L.E.D. WARNING LIGHTS ON ACCESS DOORS:

Install custom made L.E.D. light strip(s) on the side and rear patient area access door interior door panels. Each light strip shall be comprised of twelve lights. Each light is to be centered behind a scalloped integral lens for maximum light disbursement. Each light strip is to be twelve inches in length. When mounted the lens shall be flush with the inner door panel. The light strip shall flash when the access door is open, and the red flashing light circuit is activated. The lens shall be designed to provide a bright and intense light from a distance. As distance is decreased the light shall become less intense, preserving night time visibility for people working near the vehicle. L.E.D. lamps shall be used due to their "cold" operating temperature, low amp requirement, and long life expectancy. The lights are to provide additional lighting to warn traffic and pedestrians of a stationary emergency vehicle with open access doors, and to provide additional safety for the attendants.

Quantity: -6-

Location: (1) RED centered in the upper section of each

entry door.

(1) WHITE Centered on the lower section of each entry door. These lights shall steady burn when

the doors are open

Above section bid exactly as written:

Section not provided:

Bidder is offering an alternative to this section:

119043 L.E.D. LIGHTING:

Whelen M9 Series blue L.E.D. lighting shall be installed per the quantity and location requirements listed below. All lighting is to include the optional chrome flange.

Quantity: -2-

Location: Upper rear outboard corners

Lens color: Blue

Flash: Set to Triple Flash

Above section bid exactly as written:

Section not provided:

Bidder is offering an alternative to this section:

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119567			D.	11	CL	JTI	NI	2.
110001	L.	ㄷ.	U.	ப	GГ	711	IN	J :

Whelen M9 Series red L.E.D. lighting shall be installed per the quantity and location requirements listed below. All lighting is to include the optional chrome flange.

Quantity: -10-

Locate: (4) Front face spaced between the 3 white light

Locate: (2) Street side Locate: (2) Curbside

locate: (2) Rear window level

Lens color: Red

Flash: Set to Triple Flash

NOTE: Front face to be R - W - R - W - R - W - R

Above section bid exactly as written:

Section not provided:

Bidder is offering an alternative to this section:

119976 L.E.D. LIGHTING:

Whelen M9 Series white L.E.D. lighting shall be installed per the quantity and location requirements listed below. All lighting is to include the optional chrome flange.

Quantity: -3-

Location: (1) Center of Front face (2) between Red Flashers

Lens Color: Clear

Flash: Set to Triple Flash

NOTE: Front face to be R - W - R - W - R - W - R

Above section bid exactly as written:

Section not provided:

Bidder is offering an alternative to this section:

120279 L.E.D. LIGHTING:

Whelen M7 Series red L.E.D. lighting shall be installed per the quantity and location requirements listed below. All lighting is to include the optional chrome flange.

Quantity: -2-

Location: Chassis Grill

Lens color: Red

Flash: Set to Triple Flash

Above section bid exactly as written:

Section not provided:

Bidder is offering an alternative to this section:

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120706	L.E.D. LIGHTING:									
	Whelen M7 Series red/white side/side split L.E.D. lighting shall be installed per the quantity and location requirements listed below. All lighting is to include the optional chrome flange. Clear lens is standard for split color light color light heads.									
	Quantity: Location: Lens Color: Flash:	-2- (1) on each chassis fender as intersection lights Clear Set to Triple Flash								
		Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:								
121173	L.E.D. LIGHTING:									
	Whelen M7 Serie quantity and lo	Whelen M7 Series amber L.E.D. lighting shall be installed per the quantity and location requirements listed below. All lighting is to include the optional chrome flange.								
	Quantity: Location:	-1- Centered above rear doors as Federal KKK light Install approx 4.00" above rear doors to allow for the installation of a reverse camera								
	Lens color: Flash:	Amber Triple Flash								
		Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:								
121289	WHITE LIGHT CU									
	A switch shall	be installed in the front control panel that will orward facing white flashing lights.								
		Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:								
121372	AUDIBLE EMERG	BENCY WARNING SYSTEMS:								
	The following a the vehicle:	udible emergency warning features shall be installed o	n							
121530	SIREN:									
	The vehicle man as noted below.	ufacturer shall supply and install a Whelen 295SLSA1 s	iren							
	Siren Location: Quantity:	Cab Radio Console 1								
		Above section bid exactly as written: Section not provided:								
		Bidder is offering an alternative to this section:								

MILLBROOK FIRE DEPARTMENT RESCUE SQUAD

121670	SIREN INSTALLATION:								
	The electronic siren specified above shall be installed in the designated location and wired for operation through the speakers noted below.								
	Above section bid exactly as written:								
	Section not provided:								
	Bidder is offering an alternative to this section:								
122032	SIREN SPEAKERS:								
	Cast Products SA4316 series speakers shall be installed on the chassis per the instructions listed below. The speakers shall be wired for operation through the siren listed above.								
	Quantity: 2 Locate: Bumper mounted Note: Leave enough space between both speakers to install								
	front license plate								
	Above section bid exactly as written:								
	Section not provided:								
	Bidder is offering an alternative to this section:								
122115	SIREN SPEAKER INSTALLATION:								
	The siren speakers specified above shall be bumper mounted and wired for operation.								
	Above section bid exactly as written:								
	Section not provided:								
	Bidder is offering an alternative to this section:								
122203	ELECTRICAL, NON EMERGENCY LIGHTING:								
	The lighting, as noted below, shall be furnished and installed by the successful bidder:								
122418	SIDE BODY RUNNING LIGHTS:								
	One Whelen M6 Series L.E.D. light with a red lens and a chrome flange shall be installed on each side of the vehicle towards the rear of the body. These lights shall function as both running lights and turn signals.								
	Above section bid exactly as written:								
	Section not provided:								
	Bidder is offering an alternative to this section:								

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122883	EXTERIOR COMPARTMENT LIGHTING:
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The compartment lighting for the exterior compartments noted above shall consist of LED lighting strips. Strips of LED lights shall be installed

	on each side of the compartment opening on the inside of the door jamb and shall direct the light back into the compartment. These light strips shall fit securely into clips installed in this location. These strips shall be semi rigid. Please note that rope lighting is not an acceptable alternative to this requirement.
	Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:
	Brader is differing an afternative to this section.
123596	ICC MARKER LIGHTS:
	The bidder shall install LED marker/ICC lights as required by FMVSS regulations. The lights are to be a rolled design to conform to the contour of the upper corner posts of the body front and rear. The lights are to be a surface mount design. Lights that must be recessed into the body are unacceptable due to the weakening of the body structure caused by cutting into the extrusions. The contour of the lights shall be such that there shall be visibility from the sky as well as the front and rear of the vehicle.
	The bidder should note that some lightbars have ICC lights already installed. In that case those lights shall be installed in lieu of the lights described here unless denoted within this document.
	Above section bid exactly as written:
	Section not provided:
	Bidder is offering an alternative to this section:
124195	360 DEGREE MARKER LIGHTS:
	The bidder shall install additional LED marker lights. The lights are to be a rolled design to conform to the contour of the upper body corners and sides front and rear. This design will allow for 360 degrees of light coverage including the sky. These lights are to be a surface mount design. Lights that must be recessed into the corners are not acceptable as they weaken the body structure at those locations. These LED's shall also be available to flash as emergency lights or turn signal when desired. These LED's shall also be available to flash as emergency lights or turn signal when desired.
	Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:
124357	360 DEGREE MARKER LIGHTS:
	The specified 360 degree marker lights, as detailed in the previous section, are to flash in primary mode along with the other specified

emergency warning lights.

Above :	sect	tion	bid	exac	ctly a	as writt	en:	:			
Section not provided:											
Bidder	is	offe	ring	an	alter	rnative	to	this	section	n:	

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124638	RUNNING BOARD LIGHTS, WHELEN PAR 16 L.E.D).

Clear Whelen Par 16 round L.E.D. lights mounted in chrome flanges shall be installed in the front of the module body. Locate in the stainless steel stone guard above the running boards. The lights shall be wired to the chassis door switch and illuminate the step/running board.

Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:	
L.E.D. LIGHTED RUB RAILS:	
12" long strips of L.E.D. lights shall be flush mounted into the lower	er

12" long strips aluminum rub rails on each side of the module body. Each light shall have a scalloped integral lens for maximum light disbursement. Each strip shall contain twelve (12) one inch long lights. The rub rails forward of the wheel wells shall contain three (3) L.E.D. strips, and the area to the rear of the wheel wells shall contain two (2) L.E.D. strips. The vehicle electrical system shall be programmed to operate these lights at a steady burn when the chassis running lights are activated, and to alternately flash the lights when the "Red Flashing Light" circuit is activated. The lenses shall be designed so that they provide a bright and intense light from a distance. As the distance is decreased the light shall become less intense so as to assure that the ability of the onboard personnel to see is not compromised. Finally, L.E.D. lights are specified due to their "cold" operating temperature, low amp requirements, and long life expectancy. These lights are designed to enhance vehicle visibility and safety for all onboard personnel.

The colors shall be as follows:

Front: [R] [W] [R] Rear: [W] [R]

Legend: R=red, A=amber, W=white

Above section bid exactly as written:

Section not provided:

Bidder is offering an alternative to this section:

126370 **M9 SERIES LED SCENE LIGHT:**

125902

Whelen M9 Series LED Scene Lights shall be installed in the quantity and locations noted below. Each light shall include the optional chrome flange. These lights shall be activated by right and left side switches located within the front electrical control console. Additional means of activation, if any, are listed in the electrical section of these specifications.

Quantity:	-4-	
Locate:	Locate: Below Red flashing lights	
	Above section bid exactly as written:	
	Section not provided:	
	Bidder is offering an alternative to this section:	

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126822 **LOAD LIGHTS:**

Whelen M9 Series LED Scene Lights shall be installed in the quantity and locations noted below. Each light shall include the optional chrome flange. These lights shall be activated when the rear doors are opened, and by a switch located within the front electrical control console. Additional means of activation, if any, are listed in the electrical section of these specifications.

Quantity: -2-

Locate: OVER REAR DOORS.

Above	sec	tion	bid	exac	ctly	as	writt	ten:				
Sectio	on no	ot p	rovic	ded:								
Biddeı	r is	offe	erinc	an r	alte	erna	ative	to	this	section	on:	

127152 TAIL LIGHTS:

Whelen M6 Series L.E.D. tail/brake, back-up, and turn signal lights shall be installed on the rear of the module body per the instructions listed below. All six of these lighting assemblies shall include the optional chrome flange. The tail/brake and turn signals shall be L.E.D. style lights. The back-up light shall be halogen.

Above	sect	tion	bid	exac	ctly	as	writ	ten:	:			
Sectio	on no	ot pi	rovid	ded:								
Biddeı	ris	offe	ering	gan	alte	erna	ative	to	this	secti	on:	

128017 **ELECTRICAL POWER GROUP:**

The vehicle electrical system is extremely important to this purchaser. The requirements for the onboard electrical system are noted in detail below. The bidder's electrical system, should it deviate in any way from that which is specified, shall be explained in great detail. This explanation shall present facts relative to the bidder's system only. The bidder shall not draw any comparisons between the electrical system being offered, and the system being specified. Any comparisons or decisions regarding one system versus another will be made solely by the purchaser and shall be based entirely on the written description as provided by the bidder at the time the proposal is submitted. All decisions made by the purchaser as to the merits of one system over another will be final and will not be subject to discussion, either verbal or written, at any point.

128977 ELECTRICAL CONTROL SYSTEM STANDARDS:

The electrical control system must meet all current ambulance design standards to include, KKK 1822, NFPA 1917 and AMD. A system is desired that is easy to use, simple in design and allows electrical problem diagnosis and repair time to be minimized. The electrical system must be thoroughly engineered and manufactured to allow simple personnel operation. Finally, the system must be designed so that the probability of experiencing dead batteries, shorted electrical components and engaging in lengthy troubleshooting procedures will be reduced. In some cases the electrical output provided by the chassis charging system can be marginal and under certain circumstances the electrical load can exceed the alternator output. In addition, some electrical systems have not provided proper circuit protection and at times have not provided adequate wiring for the load. To address the above objectives, the following minimum electrical system design is required:

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129440	CONVERT	ER ADD	ED C	HAS:	SIS CHAR	RGING ENHA	NCEMEN	NT:	
	The basic	design	for	the	chassis	electrical	output	system	1

must include equipment that provides adequate electrical needs to operate the vehicle's electrical components. In addition, a system is desired that continually mon result of the d less down time fulfillment of

result of the o	nitors the chassis voltage and amperage outputs. The end desired electrical output system is longer battery life,
	associated with charging system repairs, and the each and every emergency response.
	Above section bid exactly as written:
	Section not provided:
	Bidder is offering an alternative to this section:
BATTERY SELEC	CTOR SWITCH:
systems either on or near the battery switch	power selector, turning the battery power to the ambulance On or Off shall be furnished. The switch shall be located driver's seat base. Unless otherwise specified, the shall not disconnect power to the OEM chassis systems. chassis are permitted from disconnecting chassis power ch.
	Above section bid exactly as written: Section not provided:
	Bidder is offering an alternative to this section:
Automatic Thrott	tle Advance:

130411 **Automatic Thrott**

129814

In order to reduce the number of component parts and unnecessary throttle linkages, the factory electronic throttle control shall be utilized to activate the throttle advance system. The controls shall require that the chassis be placed in Park or Neutral with the Module Disconnect switch in the On position and the Park Brake engaged before activation of the throttle advance. A digital display warning on the driver console, accompanied by an audible tone, must instruct the driver to Set Park Brake or Release Park Brake to engage or disengage the automatic throttle control. No Exceptions.

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

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132787 **AUTOMATIC LOAD MANAGEMENT:**

In order to insure that onboard personnel attention is focused on victim care rather than being occupied with monitoring vehicle systems, an automatic load management system is required. The bidder must provide a system that continually monitors the vehicles charging system while it is sitting on scene. The system design shall have the ability to automatically shut down not less than ten pre-programmed electrical circuits to prevent a deficit charging condition while the vehicle is sitting at idle. The system shall be programmed to constantly scan the electrical system.

If a deficit charging condition continues for more than one minute, a pre-programmed circuit shall shut down, correspondingly reducing the electrical draw. If the deficit condition continues, a second circuit shall automatically shut down. This process shall continue to repeat at one-minute intervals until at least ten circuits are shut down with corresponding load reductions. In the event any circuits are being controlled (disabled) by the load management system, the driver must be informed in two ways. First, a digital display warning shall appear on the driver information panel indicating Load Management Active. At the same time, the L.E.D. switch indicator light shall begin to flash for each specific circuit that is being disabled. Systems that cannot indicate specific circuits being affected by the Load Management System are not acceptable.

Load management systems must be programmed through a microprocessor based logic and memory system rather than a series of mechanical relays. Systems that require manual activation of Load Management will not be acceptable. Once the deficit condition ceases to exist, the system must be capable of restarting any disabled circuit without any action required by the driver.

The bidder is required to furnish a system that permits the end user, if he so desires, to determine prior to production the order of priority for shedding loads. Although the entire system must function automatically, it must also be designed so that it can be set by the end user to a mode for restocking, training, or maintenance convenience. The System Off setting shall not be merely a switch which would permit the operator to easily turn off Load Management. The intent is to keep the system active at all times when the vehicle is in operation.

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

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133567 **LOW AMPERAGE SWITCHING:**

Electrical devices that are not activated automatically shall be controlled from either the cab or patient area control panels through the use of manual switches. A low amperage switch that sends only an on/off signal to the central electrical distribution area is required. The switches provided shall have documented durability ratings at a minimum of fifty million (50,000,000) cycles. The switch design shall include magnetic technology to attain the required durability ratings. Switches that are rocker style will not be acceptable due to their tendency to degrade and fail in continued field use. To eliminate loose or poor contacts, it is unacceptable to have soldered or terminal type connections for the switches. The switches must be an inherent part of the panels.

Above	sect	tion	bid	exac	ctly	as	writ	ten:	:			
Sectio	on no	ot pi	rovid	led:								
Bidder	is	offe	ering	an	alte	erna	ative	to	this	section	n:	

133984 SWITCH "ON" INDICATOR LIGHT:

All switches (unless otherwise noted) on the panels described below shall include a red L.E.D. indicator light that will indicate when power is being applied to a circuit. Designs that have indicator lights that activate to indicate switch position only are not acceptable. In addition, the indicator lights shall be independently programmable to flash or steady burn as required to meet the end user specification.

Above	sect	tion	bid	exac	ctly	as	writ	ten:	:			
Section	n no	ot pi	covid	led:								
Bidder	is	offe	ering	gan	alte	erna	ative	to	this	section	n:	

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136247 **SWITCH PANEL DESIGN:**

Both the driver and the patient area switch panels must be designed so they can be easily decontaminated. Current designs make decontamination impossible when an attendant must use a contaminated glove to operate the switch panel while treating a patient. These areas become breeding grounds for bacteria. For this reason, the switch panels must be built in such a manner that there are no openings or crevices on the panel faces. The entire switch panel must be sealed with a protective overlay material. There shall be no printing or labeling on the face of this material. Holes in the panel through which switches, backlighting, or legends are inserted will be unacceptable. The panels must be cleanable with any commercially available spray type cleaner or disinfectant commonly used by EMS systems with no damage created by fluids leaking through openings onto the circuit boards or switch contacts.

The panel surface must be covered with a polyester film laminate for enhanced solvent resistance, strength, and durability. Both front and rear switch panels shall have been tested to at least a 24 hour exposure under DIN 42 115 Part 2 for the following commonly used chemicals: hydrogen peroxide <25%, bleach <20%, glycol, isopropanol, xylene, benzene, phosphoric acid <30%, ammonia <2%, hydrochloric acid <10%, acetic acid <50%, sulphuric acid <10%, diesel fuel, silicone oil, linseed oil, Windex, Formula 409, Fantastic, Wisk, Downey, washing powders, fabric conditioner, Ajax, and glycerin. The bidder shall be required, if asked, to provide the appropriate documentation showing that the above chemicals produced no visible damage after at least a 24 hour exposure. Bidders should be cautioned that commonly used polycarbonate or vinyl membrane fascia and nameplate substrates for electrical panels will not meet this requirement.

The panels shall be spill resistant to shed accidental moisture from spilled soft drinks or coffee cups. In addition, the surfaces of the panels shall be antimicrobial. This antimicrobial property is to be inherent in the surface material itself and shall not need to be reapplied at any point in the future. Products offered that include aftermarket treatments of the panel surfaces will not be considered.

Above	sect	tion	bid	exa	ctly as	s writt	ten:	:			
Sectio	on no	ot p	rovid	ed:							
Bidder	is	offe	ering	an	alter	native	to	this	section	:	

136781 SWITCH PANEL BACKLIGHTING:

All switch perimeters shall be lighted and raised for ease of switch location at night. In addition, the control panels shall include a red color LED indicator -to further distinguish switch activation. The switch panels shall include, on each panel, an individual intensity control. Switch panel lighting that operates at the same level as the cab instrument panel or that illuminates both the front and rear panels at the same intensity will not be considered. The bidder must provide totally independent control for each panel.

Above	sect	tion	bid	exac	ctly	as	writ	ten	:			
Section	n no	ot pi	rovio	ded:								
Bidder	is	offe	ering	g an	alte	erna	ative	e to	this	sectio	n:	

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137541 CAB CONTROL SWITCHING AND LCD DISPLAY:

Switch Activation:

The cab control center shall include 8 critical buttons installed in protective enclosure with proper ventilation to maintain temperature. The following minimum circuits shall be provided on the switch panel:

- -Module Disconnect
- -Emergency Master
- -Emergency
- -Interior Lights
- -Exterior Lights
- -Home
- -Apps
- -Options

The following displays will appear on the Home screen of the cab console:

- -Voltage (to the nearest 0.10 volt)
- -Amperage (to the nearest amp)
- -Outside Temperature
- -Inside Patient Area Temperature
- -Access or Compartment Door Open Warning Message and Display
- -Electrical System Diagnostics
- -24 Hour Clock
- -HVAC
- -Emergency Brake Warning
- -Accent Lighting and Backlighting Controls
- -Patient Warning

Above	sect	tion	bid	exac	ctly	as	writ	ten	:			
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Biddeı	î is	offe	ering	g an	alte	erna	ative	to	this	sectio	n:	

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138274 PATIENT AREA CONTROL SWITCHES AND LCD DISPLAY:

Switch Activation: Home

The patient area control center shall include 8 mission critical buttons installed in a backlight aluminum control panel. The following circuits shall be provided on the Home screen of the switch panel:

- -Rear Heat/AC Activation and Separate Temperature Control
- -Rear Heat/AC Fan Speed Control
- -Power Vent
- -Interior Lights
- -Oxygen and Suction
- -Patient Status
- -Stop Clock
- -Oxygen Line Pressure
- -Oxygen Cylinder Pressure
- -Exterior Lights

Digital Message Center:

The following digital displays shall appear on the faceplate of the patient area control console when selected:

- -Patient Area Temperature
- -Thermostat Setting
- -Oxygen Tank Pressure
- -Oxygen Line pressure
- -Oxygen Warning

Above section bid exactly as written:	
Section not provided:	
Bidder is offering an alternative to this sect	cion:

138649 MODULE COMPARTMENT AND ACCESS DOOR SWITCHES:

Exterior circuits such as loading lights, side scene lights and compartment lights shall be activated by low amperage, non-mechanical switches. The type of switch desired is a magnetic sensitive switch that activates the circuit when the magnetic plane is broken. Plunger type switches are not acceptable because of their short useful life and higher amperage requirements.

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

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139014	DOOR	OPFN	INDICAT	ron.

A vehicle graphic door open warning indicator, with accompanying audible chime shall be installed in both the cab and patient area. A digital display shall appear on both consoles indicating which specific door has been left ajar.

Under no circumstances will red flashing lights or systems that do not specifically pinpoint a specific open door be acceptable.

Above	sect	tion	bid	exac	ctly	as	writ	ten:	:			
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Bidder	is	off	ering	g an	alte	erna	ative	to	this	secti	on:	

140015 CENTRAL ELECTRICAL DISTRIBUTION AREA:

The electrical system smart modules shall be independent and include their own logic. They must include RAM memory to execute commands without having to rely on a central CPU. The system must not be centered around the use of a logic-controlled microprocessor built into a single circuit board. This logic control system is required to maximize reliability of the electrical system and to minimize downtime. It must be provided in order to match the type of control system used in the chassis and to prevent communication problems caused when dissimilar systems are employed. The design of the system must totally separate chassis operation from converter feature installations. In the unlikely event of converter component failure, the chassis must still remain operable.

The computer based electrical system must utilize components similar in design to the computerized chassis functions such as the OEM cruise control system, fuel feed system, transmission control system and braking system.

Above	sect	tion	bid	exac	ctly	as	writ	ten	:			
Sectio	on no	ot p	rovid	ded:								
Biddeı	is	offe	ering	g an	alte	erna	ative	to	this	sectio	n:	

MILLBROOK FIRE DEPARTMENT RESCUE SQUAD

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142129 MULTIPLEXED ELECTRICAL COMMUNICATIONS SYSTEM:

Because most chassis manufacturers have chosen multiplex electrical communication technology to operate the chassis system, this purchaser requires the same technology for the converter-added systems. A standardized electrical control and wiring system is required. The vehicle manufacturer must own and control all rights to the electrical system. Standard systems controlled by outside vendors and modified for a specific vehicle or manufacturer will not be acceptable due to the unpredictability for future parts or service. Switch panels or modules that are not standard in design and are not interchangeable from one unit to another will not be considered. Since solid state logic-controlled technology is commonly available and not proprietary to any one manufacturer and has been proven to be more reliable with greater benefits, a blanket exception or clarification regarding the electrical specification is not acceptable and will be cause for automatic rejection of the bid.

In addition, the system will consist of a series of input / output control modules to manage and feed information and to control the various circuits required by this specification. Each smart module must have 32 outputs and 10 inputs. The smart modules shall have a chassis gateway interface with a 120 amp max output. Mate-Lock connectors shall be used for all load connections. Molex connectors shall be used for data transmission lines. Under no circumstances will systems be acceptable that utilize screw type terminals or card connectors due to their susceptibility to working loose due to vibration normally encountered on a vehicle.

Under no circumstances may the operation of the central processing unit or the input or output modules be based upon the operation of mechanical relays. Relay based systems require higher amperage operating current and rely on mechanical contact points designed to degrade with use, creating short duty cycles for the vehicle electrical system. Relay based systems, due to those limited short duty cycles, will not be acceptable for the requirements of this specification.

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

MILLBROOK FIRE DEPARTMENT RESCUE SQUAD

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142684	LIMIT E	UNCTION:
142004	UNII F	UNG HON:

The electrical control system shall be fully programmable and shall control a number of functions. The minimum functions to be controlled are as follows:

- -No Load Starting Circuit (as defined in subsequent sections of this specification)
- -Load Management
- -Sequenced Start Circuit Activation
- -Electrical System Diagnostics
- -Climate Control Heat/AC operation
- -Intensity Controls for Patient Dome Lights
- -Oxygen Warning System (high and low pressure)
- -All Warning Light Flashers and Flash Patterns
- -Patient Status System
- -Electrical Diagnostics

Above	sec	tion	bid	exac	ctly	as	writt	ten:	:			
Sectio	on no	ot p	rovio	ded:								
Bidder	is	off	ering	g an	alte	erna	ative	to	this	section	:	

143191 UNIT FUNCTION OPTIONS:

The electrical control system shall be capable of adding the following options:

- -Up to four cameras
- -Emergency GPS
- -Pulse width Modulation
- -USB port for field upgradability
- -Seat belt monitor display
- -Remote system activation from a mobile device
- -Record ambulance PM schedule

The electrical control system shall include the ability to manage user defined maintenance issues. It shall also allow for the notification of critical care issues such as oil changes and tire rotations.

Above	sect	tion	bid	exac	ctly	as	writ	ten:	:			
Section	n no	ot pr	covid	led:								
Bidder	is	offe	ering	g an	alte	erna	ative	to	this	sectio	n:	

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1 / 2 / E /	AIDALUE BRATEATIAN	
143654	CIRCUIT PROTECTION:	•

abrasion or chafing.

144499

144897

Each converter added electrical circuit must have circuit protection for both over current limit and over temperature condition. The circuit protection : devices (MOS circuit. Th as that requ to indicate

protection shall be provided by solid-state circuit breaker/switching devices (MOSFETS) for both the input and output wire feeds for each circuit. The circuit protection shall require no user intervention such as that required for circuit breakers or fuses. The system shall be able to indicate an output fault warning.
Above section bid exactly as written:
Section not provided: Bidder is offering an alternative to this section:
FIELD PROVEN AND TIME TESTED ELECTRICAL SYSTEM:
The converter-added electrical system represents the most important system in the design of this ambulance. Reliability and proven performance is essential. Therefore, the bidder must be able to demonstrate that they have at least ten years experience with solid state logic-controlled electrical systems installed in emergency vehicles. Further, the bidder must be capable of all programming required by the system without turning to outside vendors. This includes custom-programmed items as may be delineated in this specification.
The bidder may be required to demonstrate an in production or in service vehicle in order to guarantee compliance with this requirement. Prototype or first of a kind electrical systems are not acceptable. The purchaser may require the bidder to furnish specific references to further document compliance.
Above section bid exactly as written:
Section not provided: Bidder is offering an alternative to this section:
bidder is offering an afternative to this section.
WIRING:
The following minimum wiring standards are required:
Identification
By color, by itemized number, and by actual circuit name, stamped every 4 $6"$
Size:
Size will vary and will be dependent upon each wire being able to carry a minimum of 125% of the actual circuit load.
Protection of Wiring:
All wiring must be run in breakaway wire loom for protection against

Above section bid exactly as written:

Bidder is offering an alternative to this section:

Section not provided:

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MILLBROOK FIRE DEPARTMENT RESCUE SQUAD

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146252 ELECTRICAL SYSTEM DIAGNOSTIC CHECK:

The electrical system must have built-in capability to self check each converter-added circuit and identify a short or open circuit by means of a single diagnostic switch. . The diagnostic system shall be operable from the driver's seat without exiting the vehicle. Diagnostic systems that are incorporated into exterior compartments, patient area interior cabinets, or remote locations will not be acceptable. The relevant information shall be displayed on the digital display on the cab switch panel. When the operator activates the Run Diagnostic switch, the unit will initiate the systems check. The digital display shall flash the message Running Diagnostics while the check is in progress. The system must go through all outputs for the vehicle to check for malfunctions. If a malfunction is found, the display shall stop flashing and steady burn to indicate the message Module #, Output #, Fail. This message will direct the service staff to the correct output module and the correct wire number in order to troubleshoot and repair the system. Once a failure is identified, the operator may continue to run the remainder of the diagnostic by pressing the Warning Reset switch. The bidder shall furnish with the vehicle a detailed diagram indicating each input and output module number and identifying each circuit controlled by the module.

Above	sec	tion	bid	exac	ctly	as	writ	ten:	;			
Sectio	on no	ot pi	rovid	led:								
Biddeı	is	offe	ering	an	alte	erna	ative	to	this	section	1:	

146892 ELECTRICAL SYSTEM SUPPORT DATA:

Being able to service the electrical system should the need arise is of the utmost importance. To reduce the down time associated with servicing, the following information shall be provided at the time of delivery:

- 1. Electrical system operating instructions
- 2. Patient area heating/AC schematic and parts list
- Oxygen and vacuum system schematic, parts list and leak check instructions
- 4. Battery and alternator schematic and system description
- 5. Radio communications installation instructions
- 6. Wire description list for converter added wiring
- 7. Individual schematics for all converter added electrical circuits

Above	sect	cion	bid	exac	ctly	as	writ	ten:	:			
Section	n no	ot pr	rovid	led:								
Bidder	is	offe	ering	an	alte	erna	ative	to	this	section	:	

MILLBROOK FIRE DEPARTMENT RESCUE SQUAD

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147631	SECOND REAR CONTROL	DANEL.
T4/02T	SECOND REAR CONTROL	PANEI:

A second patient area electrical control panel, duplicating the panel listed above, shall be installed near the squad bench as noted below. The

	area electri bench or unf occur automa the use of m panels for e	be surface mounted and shall permit operation of all patient cal functions without the attendant having to leave the squad asten the seatbelt. Selection of the panel to be used shall tically without manual transfer switches. Systems requiring anual transfer switches, systems utilizing different control ach side, or systems that are not capable of allowing this ol panel will not be acceptable.									
	Locate:	Install on full height wall at head of bench above the plexi window									
		Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:									
148062	AUTOMATIC I	AUTOMATIC BATTERY SWITCH:									
	activate bat automatic sh is turned of push button	lectronic battery switch shall be installed. The switch is to tery power through the vehicle ignition and is to include an utdown timer to deactivate battery power after the ignition f. There shall be, incorporated into the vehicle, a blue LED power wake/timer switch to activate the electrical system icle turned "off".									
	Shutdown tim	er interval: 5 minutes									
		Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:									
148279	45 AMP BATT	ERY CONDITIONER:									
	intermediate	ttery conditioner shall be installed in the street side #2 compartment. This unit shall be wired through the vehicle let. This unit shall include an IQ3 external voltage									
		Above section bid exactly as written: Section not provided:									
		Bidder is offering an alternative to this section:									
148565	110V INTERIC	PR OUTLETS:									
	location inf	interior electrical outlets shall be installed. Quantity and ormation is noted below. Each outlet shall be GFI protected luminate when powered.									
	Quantity: Locate: Locate:	2 Inhalation area Front wall cabinet									
		Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:									

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149136	12V OUTI	ETC.
149130	12V ()()	F 12:

12 volt electrical outlets shall be installed within the vehicle. Quantity, location, and adapter type are provided below. All 12 volt outlets shall be protected by a Schottky medical isolator. In addition,

	the 12 volt ou breaker. All o	at lets shall be wired through a 20 amp manual reset circuit butlets, unless noted otherwise below, shall be battery 12 volt outlets shall be labeled.
	Adapter Type: Quantity:	Cigarette Lighter Style 1
	Locate: Configure:	Back wall of action area Wire outlet hot off batteries
		Above section bid exactly as written:
		Section not provided: Bidder is offering an alternative to this section:
149783	SHORELINE:	
	shoreline. The This inlet sha female adapter will automatic started while cover to prote	mall be equipped with a Kussmaul Super Auto Eject non-arcing a male shoreline inlet shall be installed as noted below. All be a straight three-prong type and shall include the plug. The shoreline shall be designed so that the plug cally eject from the inlet in the event that the vehicle is still plugged in. The shoreline shall include a hinged ect it from the elements. He shoreline system shall be andle a 20 amp load, and shall also include a 20 amp inline
	Locate:	Street side of module body ABOVE beltline
		Above section bid exactly as written: Section not provided:
		Bidder is offering an alternative to this section:
150211	SHORELINE IND	DICATOR:
	light shall be indicate not o	ot indicator light shall be installed as noted below. The wired in after the applicable circuit breaker so as to only the presence of AC power, but the fact that the circuit the closed position.
	Locate: Configure:	ABOVE THE SHORELINE INLET LED
		Light to indicate that the batteries are receiving power
		Above section bid exactly as written:
		Section not provided:
		Bidder is offering an alternative to this section:

MILLBROOK FIRE DEPARTMENT RESCUE SQUAD

150553	EXTRA CIRCUIT BREAKER: A Spare 15 amp manual resetting circuit breaker shall be installed as a provision for the possible installation, at a later time, of additional equipment. This feature is in addition to any prewire that may be included elsewhere within this vehicle specification. The total number of spare breakers is listed below:									
	Quantity: 1									
	Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:									
150822	CAB SWITCH PANEL INSTALLATION:									
	The cab control panel for the converter-added electrical circuits shall be flush mounted in the upper face of the cab console. The mounting surface shall be angled downward so that the digital readout and switches are visible to both the driver and passenger positions.									
	Above section bid exactly as written:									
	Section not provided:									
	Bidder is offering an alternative to this section:									
151233	REVERSE ACTIVATED REAR SIDE SCENE LIGHTS:									
	The rear scene lights on either side of the vehicle shall be programmed to be activated when the vehicle is placed into reverse gear. This is in addition to the other modes of operation as described elsewhere within this document. This feature shall be attained through the programming of the onboard electrical system. Systems that require additional wiring in order to provide this feature are not acceptable.									
	Above section bid exactly as written:									
	Section not provided:									
	Bidder is offering an alternative to this section:									
151632	SIDE DOOR ACTIVATED CURB SIDE SCENES:									
	The curb side scene lighting shall be programmed to be activated when the patient compartment side access door is opened. This is in addition to the other modes of operation as described elsewhere within this document. This feature shall be attained through the programming of the onboard electrical system. Systems that require additional wiring in order to provide this feature are not acceptable.									
	Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:									

MILLBROOK FIRE DEPARTMENT RESCUE SQUAD

152036	REVERSE ACT	IVATED LOADING LIGHTS:
	activated whe addition to t this document the onboard e	ting on the rear of the vehicle shall be programmed to be n the vehicle is placed into reverse gear. This is in he other modes of operation as described elsewhere within . This feature shall be attained through the programming of lectrical system. Systems that require additional wiring in ide this feature are not acceptable.
		Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:
152515	MODULE DISC	ONNECT TIMER:
	The "Module D the 'On' posi 'On.' If the Toggling the	isconnect" circuit shall be wired to shut down when left in tion with the engine not running and the battery switch shoreline is plugged in, then this feature will be disabled. Module Disconnect switch shall reset the circuit for an me interval. The time interval shall be adjustable through
	Time out: Configure:	5-minutes Do not time out if shoreline is plugged in
		Above section bid exactly as written: Section not provided:
		Bidder is offering an alternative to this section:
152640	AUDIBLE LOW	VOLTAGE ALARM::
		arm shall be programmed to warn the operator should the tage drop below 11.8 volts for 120 seconds.
		Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:
153157	EMERGENCY I	BRAKE WARNING:
	Disconnect" s audible alarm display, shal Likewise, whe	cle is placed into 'Park' or 'Neutral' with the "Module witch 'On' and the "Red Flashing Light" switch 'On', then an , accompanied by a visual readout on the cab console digital l warn the vehicle operator to engage the emergency brake. In the vehicle is placed into gear, then the same alarm will visual display warning the operator to disengage the ke.
	Configure:	wire alarm to activate with red flasher circuit
		Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:

MILLBROOK FIRE DEPARTMENT RESCUE SQUAD

153478	REPORT LIGH	łT:
	patient area via a switch simple "one	ing, as described below, shall be installed within the . The fixture shall be LED. The fixture shall be controlled on the attendant control panel. This design will allow for touch" operation while still providing for flexibility in thing needs.
	Quantity: 2	
		Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:
153599	INTELLITEC L	ED CLOCK:
	An Intellite below:	c Time Manager clock shall be provided and installed as noted
	Locate:	Over rear doors
		Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:
153747	STEP WELL L	IGHT:
		Vista light strip will be installed on the bench side of the ight to activate with door open through a magnetic door
		Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:
153982	CAB CEILING	LIGHTS, COMBINATION WHITE/RED LED:
	headliner. Toperated via	LED cab ceiling lights shall be installed in the cab hese lights are to feature both clear and red LEDs and can be a switch mounted to the light. Light functions are to be R', and 'RED'.
		Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:

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154947	DOM	E LIGI	HTS.
		LLIGI	IIO.

Weldon single filament halogen dome lights shall be installed in the patient area ceiling. Quantity and location information is listed below.

	The lights shall be recessed into the headliner and shall not protrude from the ceiling more than 1". Each light shall not draw more than three (3) amps at full intensity. All dome lighting shall be infinitely adjustable and shall be controlled via solid state switching at the patient area electrical control console.						
	Locate:	3 over cot 3 over bench 1 over walkthru Install a switch in the inhalation panel to control the 3-dome lights over the cot when the shoreline is plugged in and the battery switch is off. Install the switch so that there is no interference with future radio head installation in the panel.					
		Above section bid exactly as written:					
		Section not provided:					
		Bidder is offering an alternative to this section:					
155234	INTERIOR CAR	BINET LIGHTING, MAIN WALL:					
	lights. Light dispersion ar	l interior cabinets shall be equipped with LED cabinet ts shall include a snap-in 45 degree clip for light and ease of replacement. LED's shall be spaced a minimum of e lights shall be controlled through a switch in the rear l.					
		Above section bid exactly as written:					
		Section not provided:					
		Bidder is offering an alternative to this section:					
155405	PREWIRE FOR	R FUTURE STREAMLIGHT INSTALLATION:					
	Prewire shall be provided as noted below for future installation of Streamlight charger bases.						
	Locate:	Inside door panel of the streetside #2 compartment.					
		Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:					

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155838	AUXILIARY BRAKE LIGHTING	•

The rear red flashing lights, as specified elsewhere within this depressed. This lighting is in addition to the specified brake/tail

document, shall be wired so that they illuminate when the brake pedal is lights. Brake light feature to override flashers Configure: Lights: Window level flashers Note: Feature to activate regardless of module disconnect status. Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section: 156348 SECURITY IDLE SYSTEM: A solid state security idling system shall be provided on the vehicle. With the system in the on position, the driver may remove the vehicle keys with the engine running. If the vehicle is placed in gear without returning the keys to the ignition, the system will sound the vehicle horn, flash the marker lights and automatically shut down the engine to prevent vehicle theft. The desired system must be integrated into the vehicles programmed electrical system. Aftermarket add-on units are not acceptable. Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section: **HEATING AND AIR CONDITIONING:** A temperature control system is desired that provides quick and simple operation while maintaining a uniform temperature throughout the patient compartment. The unit itself must be located so that it is easy to access for service. This location must also be near the O.E.M. heat/AC

156824

connection points when provided so as to increase the overall efficiency of the unit. The following minimum design standards must be adhered to in order to best meet the needs of this purchaser.

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

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157467	CONTROLS:
T J / 4 O /	

158239

The climate control functions shall be controlled through a primary location in the inhalation panel, and through a secondary location in the cab electrical control console. The switches used for the operation of this system shall be identical to the switches described in the "Electrical" se the front consc to select the c control panel t 'Automatic' or temperature.

the front console t to select the desir control panel to se	on of this specification. Switches shall be present in to select either 'Heat', 'A/C', or 'Off' functions and ted temperature. Switches shall be present in the reasolect either 'Heat', 'A/C', or 'Off' functions, and mode of operation, and to select the desired	d
Abov	ve section bid exactly as written:	
	tion not provided:	
Bido	der is offering an alternative to this section:	
THERMOSTAT:		
electrical control location shall be u one degree interval system shall retain battery switch. The the inhalation pane temperature. The te shall be viewable for this system is to be system. Under no ci	rel shall be adjustable from both the front and rear panels for the 12V system. Two switches at each used to scroll through desired temperature settings on as. Once the desired temperature is set, then the atthat setting regardless of the position of the extemperature sensor for the system shall be located as as to attain a true patient compartment emperature setting and the actual temperature reading from both the front or rear digital displays. The controlled through the converter-added electrical arcumstances shall household type thermostats be	at
acceptable.		
Abov	ve section bid exactly as written:	
	tion not provided:	
Bido	der is offering an alternative to this section:	
SYSTEM OPERATION	:	
to the manual mode rear control panel the fan speed shall	low for both automatic and manual operation. When set the fan speed shall be infinitely adjustable from the for extra ventilation. When set to the automatic mode be controlled by the thermostat setting. The speeds shall be continuously maintained. When the	e e

158733 **SYSTEM OPERA**

The system shall to the manual r rear control pa the fan speed s temperature tha selected temperature has been reached, then the system shall automatically cycle the fan speed down to reduce unnecessary electrical load.

Above	sect	tion	bid	exac	ctly	as	writ	ten:	:			
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Bidder	is	offe	ering	gan	alte	erna	ative	to	this	section	:	

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159367	HEATER WATER	CONTROL .
133301	HEALER WALER	CONTROL:

160707

The flow of hot water from the chassis to the converter-added heat/AC system shall be controlled by an electrically operated valve located under the hood. Water flow to the rear heater shall be activated when either the front or rear heater switch is turned to the 'On' position. It is a requirement of this specification that this type of valve be used unless the converter is supplying a self-contained heat-AC system. The term "self-contained" is defined as being a unit that does not require any water flow from the chassis. Under no circumstances will manual valves be considered. Manual valves are inconvenient and tend to leak.

Above section bid exactly as written: Section not provided:	
Bidder is offering an alternative to this section:	
UNIT LOCATION AND SERVICE:	

It is required that the heat/AC unit be installed inside a custom-made aluminum box beneath the attendant's seat. This box shall be perforated to provide air flow to the heat/AC unit mounted beneath the seat. This is required for efficiency, serviceability, and safety.

Many O.E.M. chassis builders provide tap-in points for the converter-added heat/AC unit behind the driver's seat. Therefore, system efficiency is higher when the hot water from the chassis is pumped to the area beneath the attendant's seat. Efficiency is not lost by pumping the water over an extended distance or up to ceiling level. Such a condition would naturally result in reduced patient area temperature levels as excessive flow resistance would be present.

The attendant's seat shall be installed on a hinged top cover for the aluminum heat/AC system housing. This allows the seat to be hinged forward and out of the way for service work. The unit will be accessible by removing two bolts located behind the seat and lifting the seat forward as opposed to dismantling cabinetry, etc.

In the unlikely event of a system leak the specified installation location will allow the leakage to run out onto the ground. Systems that are installed above cabinetry may leak into the cabinets, thus ruining the cabinets (if they are wood) and the cabinet contents.

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

161072 FILTRATION SYSTEM:

A replaceable carbon filter shall be installed at the air intake area of the heat/AC system. Replacement of the filter shall be simple, and shall require very little time so as to assure that the vehicle will not have to be taken out of service. Replacement filters shall be readily available and shall be capable of being cut to the proper size to fit the vehicle.

Above	sect	tion	bid	exac	ctly	as	writ	ten:	:			
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Bidder	is	offe	ering	g an	alte	erna	ative	to	this	sectio	n:	

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161826	AIR	FLOW:

The installation of the heat/AC system shall include an air duct system to direct the airflow in such a way as to provide uniform temperature levels throughout the patient compartment. Air intake shall be from the

	floor level. The air shall be channeled through a duct that is aft of the heat/AC unit. The air shall exit through adjustable vents at the ceiling level above the attendant's seat. This design will allow for a circular flow of air throughout the patient compartment.
	The specified design will separate the intake and exhaust ports. Separation of the intake and exhaust will decrease air turbulence and improve overall efficiency of the system. Systems that combine intakes and exhausts within the same grille work will not be acceptable.
	Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:
162010	12V HEAT/AC SYSTEM: The 12V heat/AC system shall be installed per the instructions listed above. The BTU and CFM ratings on this unit shall be as follows:
	Heat: 65,000BTU A/C: 32,000BTU CFM: 650
	Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:
162389	SIDE MOUNTED POWER VENT:
	A chrome plated Perko power vent shall be installed on the module body side. The vent shall provide for the removal of air from within the patient area. The intake for this vent shall be in the patient area ceiling. This vent shall be wired through a switch located in the rear control panel. This vent shall also be capable of being manually closed from within the patient area.
	Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:
162638	SIDE MOUNTED STATIC VENT:
	A chrome plated Perko static vent shall be installed on the module body side. The vent shall connect with the patient area via a vent within the patient area headliner. The vent shall be capable of being manually closed from inside the patient area.

Above	sect	tion	bid	exac	ctly	as	writ	ten:	:			
Section	n no	ot pi	rovic	led:								
Bidder	is	offe	ering	g an	alte	erna	ative	to	this	section	on:	

MILLBROOK FIRE DEPARTMENT RESCUE SQUAD

162707	CAB CONSOLE AND COMMUNICATIONS:									
	The vehicle communications and console features are designated below:									
163200	ANTENNA COAX #1:									
	An RG 58U coax shall be installed. A removable access plate in the patient area ceiling shall be provided for access to the exterior termination point located on the module body roof. Under no circumstances shall the vehicle design necessitate disassembly of the interior finish work to access the coax termination point. The coax shall terminate at the following locations:									
	Exterior Termination: Interior Termination:	Above cab headliner, drivers side coiled Behind inhalation panel								
	Above section bid exactly as written: Section not provided:									
	Bidder	is offering an alternative to this section:								
163697	ANTENNA COAX #2:									
	patient area ceiling sh termination point locat shall the vehicle design	hall be installed. A removable access plate in the hall be provided for access to the exterior sed on the module body roof. Under no circumstances on necessitate disassembly of the interior finish a termination point. The coax shall terminate at s:								
	Exterior Termination: Interior Termination:	Above cab haedliner, Passenger side coiled Behind Drivers seat								
	Section	ection bid exactly as written: not provided: is offering an alternative to this section:								
163971	RADIO PULL WIRE:									
	A pull wire shall be installed to aid radio cable installation and prevent removal of interior panels once the vehicle has been completed. The following pull wire shall be installed:									
		Behind drivers seat behind inhalation panel								
	Section	ection bid exactly as written: not provided: is offering an alternative to this section:								

MILLBROOK FIRE DEPARTMENT RESCUE SQUAD

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1	64418	FRONT CONSOLE	•

The cab console shall be constructed from aluminum and covered with carpet to match the cab. The console shall provide installation space for

	radio heads in addition to the standard electrical control panel and siren. The rear section of the console will have three front to rear storage sections for maps, books etc.								
	The Console shall also include (2) recessed cup holders								
	Above section bid exactly as written: Section not provided:	_							
	Bidder is offering an alternative to this section:	-							
164738	RADIO POWER/GROUND:								
	The vehicle manufacturer shall install heavy gauge cable B positive and ground for radio power. Termination is to be to insulated studs.								
	Locate: Inside radio console Locate: Behind inhalation area Locate: Behind drivers seat								
	Configure: Wire battery switched hot								
	Above section bid exactly as written:	_							
	Section not provided:	_							
	Bidder is offering an alternative to this section:	-							
165048	OXYGEN AND SUCTION SYSTEMS:								
	Reliability, safety, and ease of operation are essential characteristics of the onboard oxygen and suction systems. System design must meet the following minimum guidelines. Bidders are asked to respond to each section appropriately per the bid requirements and to explain any variations to these requirements.								
165336	SWITCHING FOR OXYGEN AND SUCTION:								
	The rear switch panel shall contain two switches labeled "OXYGEN" and "VACUUM". Each of these switches shall electrically activate those respective systems. That activation shall be instantaneous. Systems that are not instantaneously responsive to their activation will not be considered.								
	Above section bid exactly as written:								
	Section not provided:	_							
	Bidder is offering an alternative to this section:								

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165697	SYSTEM DESIGN:								
	A single piece manifold assembly shall serve as the basis for the oxygen delivery system. The manifold assembly shall incorporate ports for installation of O2 lines to all specified outlets, an electrically activated oxygen delivery solenoid, and a manual bypass valve. The assembly shall be installed behind the inhalation panel and shall be easily accessible.								
	Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:								
165930	ELECTRICAL OXYGEN ACTIVATION:								
	The switch, located on the rear control panel and labeled "OXYGEN", shall activate the solenoid. This design will allow for the instantaneous flow of oxygen while eliminating the need to manually turn a valve to initiate oxygen flow.								
	Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:								
166165	MANUAL BYPASS:								
	The oxygen solenoid shall be equipped with a manual bypass valve. Located behind the inhalation panel, the valve shall be easily accessible so that, in the unlikely event of an electrical failure, administration of oxygen may continue.								
	Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:								
166640	SYSTEM REGULATION:								
	The patient area shall be free of high pressure oxygen lines. To accomplish this the vehicle converter shall install a KKK approved regulator at the oxygen cylinder. The regulator shall include an integral dial type gauge to monitor the cylinder contents. A single low pressure line shall be installed from the regulator to the O2 manifold assembly. This method shall insure that all high pressure is maintained in an exterior compartment away from the interior patient area.								
	Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:								

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167029	OXYGEN LINES:						
	The O2 line connecting the regulator to the manifold assembly shall be rated at 200 psi working pressure and 1,250 psi burst pressure. The line shall be UL approved. There shall be NO connections installed in the line between the regulator and manifold assembly as these create a possibility for leakage. All connections shall be DISS style and shall be specific to the gas being supplied.						
	Above section bid exactly as written:						
	Section not provided:						
	Bidder is offering an alternative to this section:						
167189	LINE PROTECTION:						
	The O2 line shall be protected from crimping through the installation of a flexible spring guard on the portion of the line in the cylinder storage compartment.						
	Above section bid exactly as written:						
	Section not provided:						
	Bidder is offering an alternative to this section:						
168167	SYSTEM MONITORING:						
	The condition of the oxygen system shall be continually monitored and reported to the vehicle operators through the vehicle's onboard electrical system. Digital readouts containing the information listed below shall be available primarily at the patient area control console.						

- -Cylinder Pressure
- -Line Pressure

In addition, this system shall be designed to offer a warning, both audible and visual, if the condition of the oxygen system falls outside of the following pre-programmed parameters:

The secondary location for availability of this information shall be the cab console. The information available shall include the following:

- -Low Cylinder Pressure (500 psi or below)
- -Low Line Pressure (40 psi or below)
- -High Line Pressure (75 psi or above)

These oxygen system warnings shall immediately notify the personnel of a problem, again, via a digital readout and audible alarm. The system shall require the personnel to acknowledge receipt of the information.

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

MILLBROOK FIRE DEPARTMENT RESCUE SQUAD

168428	PRELIMINARY	SYSTEM TESTING:							
	This test sha subject the s	stem shall be tested prior to installation in the vehicle. Il be performed by the vehicle manufacturer and shall ystem to three times (3X) the working pressure. This test sucted for a minimum of four (4) hours.							
		Above section bid exactly as written: Section not provided:							
		Bidder is offering an alternative to this section:							
168702	FINAL SYSTEM	I TESTING:							
	The completed system shall be tested again once it is installed in the vehicle. This test shall be performed at working pressure for a minimum of four (4) hours. After the system has passed the inspection process it shall be capped and tagged per Federal KKK specifications.								
		Above section bid exactly as written: Section not provided:							
		Bidder is offering an alternative to this section:							
168978	ADDITIONAL C	XYGEN AND VACUUM SUPPLIES:							
200370	The oxygen and suction systems shall be complete upon delivery with the exception of the O2 cylinder. The cylinder shall be supplied and installed by the purchaser after delivery of the vehicle has taken place. One disposable mask shall be supplied with the completed vehicle.								
		Above section bid exactly as written:							
		Section not provided:							
		Bidder is offering an alternative to this section:							
169172	OXYGEN BOT	TLE MOUNT, VERTICAL TRACK FOR QRM-V:							
	the back wall	k for mounting of a QRM-V 02 bottle mount shall be welded on of the compartment in the right hand corner. The 02 bottle stable for "M" or "H" size tanks.							
		Above section bid exactly as written:							
		Section not provided:							
		Bidder is offering an alternative to this section:							
169326	ZICO QRM-V CYLINDER BRACKET:								
	A Zico QRM-V compartment.	oxygen cylinder bracket shall be installed in the main O2							
	Locate: Tank Size:	standard location "M"							
		Above section bid exactly as written:							
		Section not provided:							
		Bidder is offering an alternative to this section:							

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169581	ACCESS TO CYLINDER VALVE FROM PATIENT AREA: A clear Plexiglas door shall be provided in the patient area wall for access to the oxygen cylinder valve. The door shall be hinged so that it swings into the oxygen cylinder storage compartment. The opening shall be trimmed with anodized aluminum edging.									
		Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:								
169677	OXYGEN OUTLETS:									
	Two oxygen ou otherwise not	atlets shall be installed in the rear inhalation panel used below.	nless							
		Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:								
169848	ADDITIONAL (DXYGEN OUTLETS:								
		kygen outlets shall be installed as noted below.								
	Quantity Locate:	-1- Ceiling above head of cot in center position								
		Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:								
170279	ADDITIONAL OXYGEN OUTLETS:									
	outlet(s) shawill not prot the back side	kygen outlet(s) shall be installed as noted below. The all be recessed so that, when a flow meter is installed, trude into the patient compartment. Install a close-out e of the outlet where it may protrude into an exterior or the squad bench storage area.								
	Quantity: Locate:	-1- In rear main wall riser recessed in a box out								
		Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:								
170362	NCG STYLE OXYGEN AND SUCTION OUTLETS:									
	The oxygen ar style outlets	nd suction outlets installed in the vehicle shall be NCG \mathbf{s} .								
		Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:								

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FLOWMETER:				
Dial type flowmeter(s), in the quantity listed below, shall be supplied with the completed vehicle. Each flowmeter shall be supplied with a mating quick connect adapter. The flowmeter shall provide a maximum flow of 25 LPM.				
Quantity:	1			
	Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:			
SPARE 'D' BOT	TLE STORAGE:			
A Zico QR-D-2 single Quic-release strapless 'D' bottle bracket shall be provided and installed in the location listed below.				
Quantity: Locate: Note:	-1- Left side of curbside stepwell at head of ben- Setup for "D" size cylinder Ship loose for Dealer to install	ch.		
	Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:			
PRIMARY VACUUM OUTLET: A single vacuum panel shall be installed in the inhalation area. The outlet shall be of the same style as those of the oxygen system and shall be connected to the onboard vacuum pump.				
	Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:			
RICO RS4X DIS	SPOSABLE ASPIRATOR:			
area per the	attached prints. The aspirator will be powered by the	on		
	Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:			
VACUUM PUMP:				
The aspirator system shall be operated through a CAPL #D34 SE (T282) 12V vacuum pump that is located inside an exterior compartment. The pump shall be activated by a switch on the inhalation area electrical control panel.				
	Above section bid exactly as written:			
	-			
	Dial type flowith the composition of the composition of 25 LPM. Quantity: SPARE 'D' BOTA A Zico QR-D-2 provided and Quantity: Locate: Note: PRIMARY VAC A single vacuoutlet shall be connected RICO RS4X DISA A Rico RS4X darea per the onboard vacuum pump to shall be active shall shall be active s	Dial type flowmeter(s), in the quantity listed below, shall be supp with the completed vehicle. Each flowmeter shall be supplied with a mating quick connect adapter. The flowmeter shall provide a maximum of 25 LPM. Quantity: Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section: SPARE 'D' BOTTLE STORAGE: A Zico QR-D-2 single Quic-release strapless 'D' bottle bracket shal provided and installed in the location listed below. Quantity: Left side of curbside stepwell at head of ben Setup for "D" size cylinder Note: Ship loose for Dealer to install Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section: PRIMARY VACUUM OUTLET: A single vacuum panel shall be installed in the inhalation area. Toutlet shall be of the same style as those of the oxygen system and be connected to the onboard vacuum pump. Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section: RICO RS4X DISPOSABLE ASPIRATOR: A Rico RS4X disposable aspirator shall be installed in the inhalatiarare per the attached prints. The aspirator will be powered by the onboard vacuum pump listed elsewhere within this document. Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section: VACUUM PUMP: The aspirator system shall be operated through a CAPL #D34 SE (T282 vacuum pump that is located inside an exterior compartment. The pum shall be activated by a switch on the inhalation area electrical copanel.		

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171690	KKK SUCTION KIT:			
		shall be included with the finished vehicle and shall etion rinsing bottle, (1) pharyngeal tip, and (1) yoke		
		Above section bid exactly as written: Section not provided:		
		Bidder is offering an alternative to this section:		
171737	LETTERING:			
	Lettering inf	formation is noted in detail below:		
172320	LETTERING DE	ESIGN:		
	the successfu section and b relative to l requirements	cation calls for lettering to be supplied and installed by all bidder. The lettering layout is summarized within this broken down by location in the sections below. Information lettering material, size, color, font, or any other special is also listed in the following sections. The lettering be as follows:		
	bid opening t	arged to make arrangements with the Rescue Squad prior to the co review the existing vehicles so that the lettering being all match our existing material and layout		
		Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:		
172551	LETTERING RE	EQUIRED ON CURBSIDE OF BODY:		
	The lettering described below shall be furnished and installed per these instructions prior to delivery of the completed vehicle to the purchaser.			
	Configure:	MILLBROOK FIRE DEPT. RESCUE SQUAD		
		Above section bid exactly as written: Section not provided:		
		Bidder is offering an alternative to this section:		
172782	LETTERING REQUIRED ON REAR OF VEHICLE:			
	The lettering described below shall be furnished and installed per these instructions prior to delivery of the completed vehicle to the purchaser.			
	Configure:	MILLBROOK FIRE DEPT. RESCUE SQUAD		
		Above section bid exactly as written: Section not provided:		
		Bidder is offering an alternative to this section:		

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173013	I ETTERNO DE	OUIDED ON CEREET CIRE OF BORY.		
173013	LETTERING REQUIRED ON STREET SIDE OF BODY: The lettering described below shall be furnished and installed per these instructions prior to delivery of the completed vehicle to the purchaser.			
	Configure:	MILLBROOK FIRE DEPT. RESCUE SQUAD		
		Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:		
173615	4" SHADED GOLD LEAF LETTERING:			
	letters as spe be 4", 24 kara A Mylar lamina protect agains expense and fr this protective	bidder shall supply and install a total quantity of ecifically described and noted below. This lettering shall at gold leaf that is turned by hand, outlined, and shaded. It is to the lettering surface in order to start scuffing and provide added longevity. Because of the ragile nature of this material, lettering that does not have be covering is not acceptable. The precise letters to be stillizing this material are noted above.		
	Quantity: Shade Color:	10 Black		
		Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:		
174222	6" SHADED GO	LD LEAF LETTERING:		
	The successful bidder shall supply and install a total quantity of letters as specifically described and noted below. This lettering shall be 3", 24 karat gold leaf that is turned by hand, outlined, and shaded. A Mylar laminate shall be applied to the lettering surface in order to protect against scuffing and provide added longevity. Because of the expense and fragile nature of this material, lettering that does not have this protective covering is not acceptable. The precise letters to be manufactured utilizing this material are noted above.			
	Quantity: Shade Color:	78 Black		
		Above section bid exactly as written: Section not provided:		

Bidder is offering an alternative to this section:

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174701	4" STAR OF LIF	E EMBLEM:			
	The bidder shall supply and install the 'Star of Life' emblem(s) requested by the purchaser. The total quantity required is noted below. The emblems shall be made from 4" white Scotchlite that is silk screened in blue. A Mylar laminate shall then be applied to the emblem's surface in order to protect against scuffing, and to provide added longevity. Emblems that do not have this protective covering are not acceptable.				
	Locate:	Cab hood as per existing vehicle			
		Above section bid exactly as written: Section not provided:			
		Bidder is offering an alternative to this section:			
175193	18" STAR OF LIFE EMBLEM:				
	requested by to the emblems she in blue. A Myl in order to pr	ll supply and install the 'Star of Life' emblem(s) he purchaser. The total quantity required is noted below. all be made from 18" white Scotchlite that is silk screened ar laminate shall then be applied to the emblem's surface otect against scuffing, and to provide added longevity. o not have this protective covering are not acceptable.			
	Locate:	Curbside and Streetside of body per pictures			
		Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:			
175648	26" STAD OF LU				
175648	36" STAR OF LIFE EMBLEM: The bidder shall supply and install the 'Star of Life' emblem(s) requested by the purchaser. The total quantity required is noted below. The emblems shall be made from 36" white Scotchlite that is silk screened in blue. A Mylar laminate shall then be applied to the emblem's surface in order to protect against scuffing, and to provide added longevity. Emblems that do not have this protective covering are not acceptable.				
	Location:	Roof			
		Above section bid exactly as written: Section not provided: Bidder is offering an alternative to this section:			
176042	CUSTOM LETTERING:				
	Special Letter	ing: Install 6.00" alternating Orange and White reflective Chevron stripes on the rear face of the module excluding the rear entry doors. Doors shall remain white with the standard Orange Scotchlite Beltline stripe spanning across the rear doors from hinge to hinge			
		Above section bid exactly as written:			
		Section not provided: Bidder is offering an alternative to this section:			

MILLBROOK FIRE DEPARTMENT RESCUE SQUAD

176253	TRADE-IN		
	Trade: Year: Chassis: Wheel Base: Conversion: Mileage: Value given:	2006 Ford E-450 158" Horton 523 41,500 miles at time of quote	
		Above section bid exactly as written:	
		Section not provided:	
		Bidder is offering an alternative to this section:	
176466	Dealer Prep. and Dealer Delivery		
	A representative of the selling distributor shall inspect the vehicle prior to acceptance from the manufacturer and shall drive the completed unit back to the dealership for final prep and delivery to the end user.		
		Above section bid exactly as written:	
		Section not provided:	
		Bidder is offering an alternative to this section:	
176887	WINDOW, SLIDING FOR SIDE ENTRY DOOR:		
	The side entry door shall have a sliding window. Each window shall measure 16.5"h \times 17"w and shall be glazed and tinted in accordance with FMVSS. The windows shall be encased in an extruded aluminum frame. Under no circumstances will RV style windows, windows that rely on rubber gaskets, windows that do not feature extruded aluminum frames, or windows that do not meet the above stated minimum dimensions be acceptable.		
		Above section bid exactly as written:	
		Section not provided:	
		Bidder is offering an alternative to this section:	