

**BID DOCUMENTS**  
**FOR**  
**TYPE III FORD E-450 AMBULANCE**



**CITY OF OWOSSO**  
**301 W. MAIN STREET**  
**OWOSSO, MICHIGAN 48867**

**May 27, 2016**

**NOTICE TO BIDDERS**  
**TYPE III FORD E-450 AMBULANCE**  
**FOR THE CITY OF OWOSSO, MICHIGAN**

Sealed bid proposals will be received by the city of Owosso for Type III 2016 or newer Ford E-450 Ambulance and should be addressed to: Bid Coordinator, City of Owosso, 301 W. Main, Owosso, Michigan 48867. Sealed bids will be accepted until 3:00 p.m. June 14, 2016 for the Type III 2016 or newer Ford E-450 Ambulance, at which time bids will be publicly opened and read aloud.

All bids must be in writing and must contain an original signature by an authorized officer of the firm. Electronic bids (i.e., telephonic, FAX, etc.) are **NOT** acceptable. All bids shall clearly contain on the outside of the **sealed** envelope in which they are submitted: **TYPE III FORD E-450 AMBULANCE**.

Hard copies of the proposal, contract forms and specifications are on file and may be obtained for a fee in accordance with the city's FOIA Policy at the office of the Bid Coordinator, City Hall, 301 West Main Street, Owosso, Michigan 48867. Bid documents are available at no charge on our website at [www.ci.owosso.mi.us](http://www.ci.owosso.mi.us) or on the MITN website at [www.mitn.info](http://www.mitn.info).

The city reserves the right to award by line item, to accept any proposal; or to reject any proposal; to waive irregularities in a proposal; or to negotiate if it appears to be in the best interest of the city of Owosso.

## INSTRUCTIONS TO BIDDERS

1. Each proposal must be signed by the bidder with his usual signature. Bids by partnerships should be signed with the partnership name by one of the members of the partnership or by an authorized representative, followed by the signature and title of the person signing. Proposals by corporations must be signed with the name of the corporation, followed by the signature and designation of the president, vice-president or person authorized to bind it in the matter. **Any paperwork not filled out properly or signed will cause the bid to be considered non-responsive and shall be rejected by the city.**
2. Proposals, to receive consideration, must be received prior to the specified time of opening and reading as designated in the invitation.
3. Bidders are requested to use the proposal form furnished by the city when submitting their proposals. Envelopes must be **sealed** when submitted and clearly marked on the outside indicating the name of the bid.
4. Proposals having and erasures or corrections thereon may be rejected unless explained or noted over the signature of the bidder.
5. References in the specifications or description of materials, supplies, equipment, or services to a particular trade name, manufacturer's catalog, or model number are made for descriptive purposes to guide the bidder in interpreting the type of materials or supplies, equipment, or nature of the work desired. They should not be construed as excluding proposals on equivalent types of materials, supplies, and equipment or for performing the work in a manner other than specified. However, the bidders' attention is called to General Condition six (6).
6. Proposals should be mailed or delivered to:

Bid Coordinator's Office  
City Hall  
301 W. Main Street  
Owosso, MI 48867
7. Special conditions included in this inquiry shall take precedence over any conditions listed under General Conditions or Instructions to Bidders.
8. Bodily injury, property damage and worker's compensation – The contractor, prior to execution of the contract, shall file with the city copies of completed certificates of insurance naming the city of Owosso as an additional insured party, as evidence that the contractor carries adequate insurance satisfactory to the city.
9. The city of Owosso has a local preference policy for the purchase of goods and services. The policy in part states: *A business located within the city limits and paying real or personal property taxes to the city of Owosso will be granted a six percent (6%) bid advantage or \$2,500, whichever is less, over a business located outside Shiawassee County. A business located outside the city limits but within Shiawassee County and paying property taxes to the county will be granted a three percent (3%) bid advantage or \$2,500, whichever is less, over a business located outside Shiawassee County. The preference also applies to subcontractors performing twenty-five percent (25%) or more of the work of a general contract.*

**BID Proposal**

**TYPE III FORD E-450 AMBULANCE**

TO: THE CITY OF OWOSSO (HEREINAFTER CALLED THE "CITY")  
 Bidder must provide pricing for each item listed.

The undersigned, having examined the bid proposal forms and specifications, does hereby offer TYPE III 2016 or 2017 FORD E-450 AMBULANCE as listed below at the following prices to wit:

Item	Description	QTY	Unit Price
1	Type III 2016 or 2017 Ford E-450 Ambulance Chassis Model _____ Year _____	1	
2	Stryker Power-Pro XT (Model 6506) with Dual Wheel Lock, PR Cot Retaining Post, Power Pro Standard Components, XPS Options, Equipment Hook, Performance Load Compatibility Kit, Knee Gatch/Trendelenburg, Retractable Head Section O2, SMRT Charger Mounting Bracket, Head End Storage Flat, SMRT, 120 V AC, J Hook, XPS Knee Gatch Bolster Mattress, Steer Lock Option, 3 YR X-Frame Powertrain Warranty, 2 Yr Bumper to Bumper Warranty, 3 Stage Patient Right IV Pole, X Restraint Package. Brand Preference: Brand Name Only Model Number: 6506000000	1	
3	Trade-in Credit for One (1) Manual Stryker EZ Pro 2Cot SN 000439078	1	
<b>TOTAL BID PRICE</b>			

BIDDERS INITIALS \_\_\_\_\_

VARIANCE FROM SPECIFICATIONS: If the bidder is unable to comply with the specifications as outlined, the bidder shall clearly note these variations from the specifications. The bidder may also propose additions to these specifications for the city to consider, but the costs associated with these additions shall be stated separately.

REMARKS: \_\_\_\_\_  
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On behalf of \_\_\_\_\_, I hereby submit this proposal for your consideration. The undersigned acknowledges that this proposal is subject to the General Conditions and the General Specifications included in the contract documents. In submitting this proposal, it is understood that the right is reserved by the CITY to reject any and all proposals, and waive any irregularities in the bidding process. The CITY may award this contract based on any combination of the total bid and/or alternates.

Dated and signed at \_\_\_\_\_ State of \_\_\_\_\_

This \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_

Bidder

Witness:

\_\_\_\_\_

By/s/

\_\_\_\_\_

Business Address

\_\_\_\_\_

Signature

\_\_\_\_\_

Title

\_\_\_\_\_

Telephone Number

## GENERAL CONDITIONS

### 1. LOCAL PREFERENCE POLICY

The city of Owosso has a local preference policy for the purchase of goods and services. The policy in part states: *A business located within the city limits and paying real or personal property taxes to the city of Owosso will be granted a 6% bid advantage or \$2,500, whichever is less, over a business located outside Shiawassee County. A business located outside the city limits but within Shiawassee County and paying property taxes to the county will be granted a 3% bid advantage or \$2,500, whichever is less, over a business located outside Shiawassee County. The preference also applies to subcontractors performing 25% or more of the work of a general contract.*

### 2. BID ACCEPTANCE

The city reserves the right to reject any or all proposals. Unless otherwise specified, the city reserves the right to accept any item in the proposal. In case of error in extending the total amount of the bid, the unit prices shall govern.

### 3. PAYMENT

Unless otherwise stated by the bidder, time, concerning discount offered, will be computed from date of delivery and acceptance at destination or from date correct bill or claim voucher properly certified by the contractor is received. When so stated herein, partial payments, based on a certified approved estimate by the city of materials, supplies or equipment delivered or work done, may be made upon presentation of a properly-executed claim voucher. The final payment will be made by the city when materials, supplies, equipment or the work done have been fully delivered or completed to the full satisfaction of the city.

### 4. BID DEFAULT

In case of default by the bidder or contractor, the city of Owosso may procure the articles or services from other sources and hold the bidder or contractor responsible for any excess cost occasioned thereby.

### 5. UNIT PRICES

Prices should be stated in units of quantity specified.

### 6. QUOTED PRICES

Unless otherwise stated by the bidder, prices quoted will be considered as being based on delivery to a designated destination and to include all charges for packing, crating, containers, shipping, etc., and being in strict accordance with specifications and standards as shown.

### 7. SUBSTITUTIONS

Wherever a reference is made in the specifications or description of the materials, supplies, equipment, or services required, to a particular trade name, manufacturer's catalog, or model number, the bidder, if awarded a contract or order, will be required to furnish the particular item referred to in strict accordance with the specifications or description unless a departure or substitution is clearly noted and described in the proposal.

### 8. HOLD CITY HARMLESS

The bidder, if awarded an order or contract, agrees to protect, defend, and save the city harmless against any demand for payment for the use of any patented material, process, article, or device that may enter into the manufacture, construction, or form a part of the work covered by either order or contract. Bidder further agrees to indemnify and save the city harmless from suits or action of every nature and description brought against it, for or on account of any injuries or damages received or sustained by any party or parties, by or from any of the acts of the contractor, his employees, subcontractors, or agents.

### 9. COMPETITIVE BIDDING STATUTES

The laws of the state of Michigan, the charter and ordinances of the city of Owosso, as far as they apply to the laws of competitive bidding, contracts and purchases, are made a part hereof.

#### 10. SAMPLES

Samples, when requested, must be furnished free of expense to the city and, if not destroyed, will upon request be returned at the bidder's expense.

#### 11. EQUAL EMPLOYMENT OPPORTUNITY AND OTHER CLAUSES

The contractor shall agree not to discriminate against any employee or applicant for employment because of age, race, religion, color, handicap, sex, physical condition, developmental disability as defined by Michigan Compiled Statutes, or national origin. This provision shall include but not be limited to the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rate of pay or other forms of compensation, and selection for training including apprenticeship. The contractor further agrees to take affirmative action to ensure equal employment opportunities for persons with disabilities. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provision of the non-discrimination clause.

## LOCAL PREFERENCE POLICY

The following affidavit should be completed if a bidder is located within Shiawassee County or intends to sub-contract more than twenty-five percent (25%) to a Shiawassee County based business: The city of Owosso has a local preference policy for the purchase of goods and services as recorded in the city ordinance in section 2-348. "Lowest qualified bidder" defined.

1. The term "lowest qualified bidder," as used in this division, shall mean the lowest bidder having qualifications to perform the work which are satisfactory to the council. The lowest bidder shall be determined based on an adjusted bid tabulation which shall be prepared in the following manner: To the bid of any bidder which is neither a city-based business nor a county-based business shall be added an amount equal to six (6) percent of the bid or two thousand five hundred dollars (\$2,500.00), whichever is less.
2. To the bid of any bidder which is a county-based business shall be added an amount equal to three (3) percent of the bid or two thousand five hundred dollars (\$2,500.00), whichever is less; provided, however, that if no bid is received from a city-based business, no additional amount shall be added to the bid of a county-based business.
3. "Owosso-based business" shall be interpreted to mean a business registered with the county clerk or a corporation registered with the state having a business address within the city limits which pays real and/or personal property taxes levied by the city. The term "county-based business" shall be interpreted to mean a business other than a city-based business registered with the county clerk or a corporation registered with the state having a business address within the county which pays real and/or personal property taxes levied by the county.
4. If twenty-five (25) percent or more of a contract for construction or other services is to be subcontracted by a city-based business bidder to a non-city-based business or businesses, or by a county-based business bidder to a non-county-based business or businesses, the adjusted bid shall be calculated by applying the provisions of this section separately to each portion of the contract based on the status of the contractor or subcontractor performing that portion of the contract as a city-based or county-based business.



**AFFIDAVIT**

In accordance with Section 2-348 of the Owosso city code, the bid from a business located in Shiawassee County shall be adjusted to reflect a preference. In order for the city to calculate the adjustment, the bidder hereby deposes and states that their business address is registered, and is currently paying real and/or personal property taxes in Shiawassee County at the following address:

\_\_\_\_\_

Registered business address

The affiant further deposes and states that a sub-contract with a business registered, and paying real and/or personal property taxes in Shiawassee County will be executed for a percentage equal to or greater than twenty-five percent (25%) as stated below:

\_\_\_\_\_

Business name and address of sub-contractor

\_\_\_\_\_

Percentage of contract

\_\_\_\_\_  
Authorized signature

\_\_\_\_\_  
Title

\_\_\_\_\_  
Company name

\_\_\_\_\_  
Date

**SIGNATURE PAGE AND LEGAL STATUS**

The undersigned certifies that he is an official legally authorized to bind his firm and to enter into a contract should the city accept this proposal.

Bid proposal by \_\_\_\_\_  
(Name of Firm)

Legal status of bidder. Please check the appropriate box and **USE CORRECT LEGAL NAME.**

A. Corporation \_\_\_\_ ; State of Incorporation \_\_\_\_\_

B. Partnership \_\_\_\_ ; List of names \_\_\_\_\_

C. DBA \_\_\_\_ ; State full name \_\_\_\_\_ DBA

D. Other \_\_\_\_ ; Explain \_\_\_\_\_

Signature of Bidder \_\_\_\_\_ Title \_\_\_\_\_  
(Authorized Signature)

Signature of Bidder \_\_\_\_\_ Title \_\_\_\_\_  
(Authorized Signature)

Address \_\_\_\_\_ City \_\_\_\_\_ Zip \_\_\_\_\_

Telephone ( ) \_\_\_\_\_

Signed this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_\_.

Bidder acknowledges receipt of the following Addenda:

ADDENDUM NO.	BIDDER'S INITIALS
_____	_____
_____	_____
_____	_____

## W-9 INFORMATION FOR LEGAL STATUS

**Sole proprietor.** Enter your individual name as shown on your income tax return on the “Name” line. You may enter your business, trade, or “doing business as (DBA)” name on the “Business name/disregarded entity name” line.

**Partnership, C Corporation, or S Corporation.** Enter the entity's name on the “Name” line and any business, trade, or “doing business as (DBA) name” on the “Business name/disregarded entity name” line.

**Disregarded entity.** Enter the owner's name on the “Name” line. The name of the entity entered on the “Name” line should never be a disregarded entity. The name on the “Name” line must be the name shown on the income tax return on which the income will be reported. For example, if a foreign LLC that is treated as a disregarded entity for U.S. federal tax purposes has a domestic owner, the domestic owner's name is required to be provided on the “Name” line. If the direct owner of the entity is also a disregarded entity, enter the first owner that is not disregarded for federal tax purposes. Enter the disregarded entity's name on the “Business name/disregarded entity name” line. If the owner of the disregarded entity is a foreign person, you must complete an appropriate Form W-8.

**Note.** Check the appropriate box for the federal tax classification of the person whose name is entered on the “Name” line (Individual/sole proprietor, Partnership, C Corporation, S Corporation, Trust/estate).

**Limited Liability Company (LLC).** If the person identified on the “Name” line is an LLC, check the “Limited liability company” box only and enter the appropriate code for the tax classification in the space provided. If you are an LLC that is treated as a partnership for federal tax purposes, enter “P” for partnership. If you are an LLC that has filed a Form 8832 or a Form 2553 to be taxed as a corporation, enter “C” for C corporation or “S” for S corporation. If you are an LLC that is disregarded as an entity separate from its owner under Regulation section 301.7701-3 (except for employment and excise tax), do not check the LLC box unless the owner of the LLC (required to be identified on the “Name” line) is another LLC that is not disregarded for federal tax purposes. If the LLC is disregarded as an entity separate from its owner, enter the appropriate tax classification of the owner identified on the “Name” line.

**Other entities.** Enter your business name as shown on required federal tax documents on the “Name” line. This name should match the name shown on the charter or other legal document creating the entity. You may enter any business, trade, or DBA name on the “Business name/disregarded entity name” line.

## Request for Taxpayer Identification Number and Certification

**Give Form to the  
 requester. Do not  
 send to the IRS.**

Print or type See Specific Instructions on page 2.	Name (as shown on your income tax return)	
	Business name/disregarded entity name, if different from above	
	Check appropriate box for federal tax classification: <input type="checkbox"/> Individual/sole proprietor <input type="checkbox"/> C Corporation <input type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶ _____ <input type="checkbox"/> Exempt payee <input type="checkbox"/> Other (see instructions) ▶ _____	
	Address (number, street, and apt. or suite no.)	Requester's name and address (optional)
	City, state, and ZIP code	
List account number(s) here (optional)		

<b>Part I Taxpayer Identification Number (TIN)</b>																																					
Enter your TIN in the appropriate box. The TIN provided must match the name given on the "Name" line to avoid backup withholding. For individuals, this is your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see <i>How to get a TIN</i> on page 3.  <b>Note.</b> If the account is in more than one name, see the chart on page 4 for guidelines on whose number to enter.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="9" style="text-align: center;">Social security number</td> </tr> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="9" style="text-align: center;">Employer identification number</td> </tr> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </table>	Social security number																		Employer identification number																	
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<b>Part II Certification</b>			
Under penalties of perjury, I certify that:			
1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and 2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and 3. I am a U.S. citizen or other U.S. person (defined below).			
<b>Certification instructions.</b> You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 4.			
<b>Sign Here</b>	<table border="0" style="width: 100%;"> <tr> <td style="width: 60%;">Signature of U.S. person ▶</td> <td style="width: 40%;">Date ▶</td> </tr> </table>	Signature of U.S. person ▶	Date ▶
Signature of U.S. person ▶	Date ▶		

<p><b>General Instructions</b></p> <p>Section references are to the Internal Revenue Code unless otherwise noted.</p> <p><b>Purpose of Form</b></p> <p>A person who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.</p> <p>Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:</p> <ol style="list-style-type: none"> <li>1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),</li> <li>2. Certify that you are not subject to backup withholding, or</li> <li>3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income.</li> </ol>	<p><b>Note.</b> If a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.</p> <p><b>Definition of a U.S. person.</b> For federal tax purposes, you are considered a U.S. person if you are:</p> <ul style="list-style-type: none"> <li>• An individual who is a U.S. citizen or U.S. resident alien,</li> <li>• A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States,</li> <li>• An estate (other than a foreign estate), or</li> <li>• A domestic trust (as defined in Regulations section 301.7701-7).</li> </ul> <p><b>Special rules for partnerships.</b> Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax on any foreign partners' share of income from such business. Further, in certain cases where a Form W-9 has not been received, a partnership is required to presume that a partner is a foreign person, and pay the withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid withholding on your share of partnership income.</p>
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## GENERAL SPECIFICATIONS

This Emergency Vehicle shall be in accord with the Ambulance Design Criteria of the National Highway Traffic Administration, U.S. Department of Transportation, and Washington, D.C. This bid specification is based on the Federal Ambulance Specification (KKK-A-1822F). Please note that this ambulance must be "change notice 8" compliant.

The purpose of this document is to provide minimum specifications and test parameters for the manufacture. It establishes essential criteria for the design, performance, equipment, and appearance of the vehicle. All dimensions listed are given as the approximate sizes, meeting the needs of the city. The objective is to provide a vehicle that is in accordance with nationally recognized guidelines. It is not the intention of the city to write out vendors or manufacturers of *similar or equal equipment, construction processes, and material*. These specifications are a minimum requirement.

All vendors and manufacturers must meet all state and local regulations regarding the manufacturing, licensing, and sale of emergency rescue vehicles and ambulances within the State of Michigan. **A copy of the bidder's State of Michigan Vehicle Dealer License is a requirement.**

**Any exceptions or clarifications to the specification shall be noted on a separate page in the bid marked "EXCEPTIONS AND CLARIFICATIONS". All exceptions and clarifications shall be clearly defined with the page number, description, and the exception or clarification.**

## **1.0 CHASSIS**

1.1 **VEHICLE AND WHEEL BASE**

2016 or 2017 Ford E-450 Super Duty cutaway chassis with dual rear wheels, 158-inch wheelbase, 14,500 lb. GVWR, Ford Ambulance prep package 47A.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

1.2 **ENGINE**

Ford 6.8L V-10 Electronic Fuel Injected GAS engine.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

1.3 **AUXILIARY POWERTRAIN CONTROL (APC)**

The Ford OEM APC Module shall be standard. The APC Module is to be programmed in the "Charge Protection" mode. When the vehicle is in park, service brake disengaged and the parking brake is set, the APC module shall electronically adjust the engine idle (up or down) to maintain proper electrical system voltage.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

1.4 **GAUGES AND METERS**

Speedometer, odometer, fuel gauge, temperature, oil pressure, digital voltmeter, engine hour meter.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

1.5 **AXLES, GAWR & SHOCKS**

Front Axle, Twin I-Beam; 5,000 pounds GAWR. Rear Axle, Full Float; 9,600 pounds GAWR. Gas filled shock absorbers, front and rear.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

1.6 **STEERING**

Power steering with tilt wheel and cruise control.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

1.7 **BRAKES**

Heavy-duty power assisted. Front / Rear Disc w/ 4-wheel anti-lock brake system.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

1.8 **TRANSMISSION**

Five-speed automatic overdrive transmission with external oil cooler.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

1.9 AXLE, REAR

4.56 gear ratio with limited slip differential.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

1.10 FUELTANK

Single OEM 55 gallon capacity tank with a Cast Products fuel fill mounted in compliance with Ford QVM guidelines.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

1.11 WHEELS AND TIRES

Seven (7) LT 225/75R16E Steel Belted Radial tires, BSW all season tread. The spare tire will be mounted in the left rear exterior compartment. Stainless steel wheel inserts with valve stem extensions will be provided. The valve stem extensions are to be steel braided lines that are held in place with stainless steel brackets. These brackets are to be located in such a way as to provide easy access to both the inside and outside rear tires valve stems for the checking of tire pressure and for the addition of air when required.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

1.12 BATTERIES

Two 750 CCA mounted in a pull out slide tray in a separate sealed compartment underneath the ALS compartment with access via the inside/outside door; wired parallel in OEM configuration that complies with Ford QVM and KKK-A-1822-F requirements. Batteries will be wired so that both will always be used for starting and controlled by a 300 amp power cut off switch. The power cut off switch circuit shall be protected by a 250 amp fuse. The Ford ignition key shall activate the power cut off switch. Power can be provided to the module without the engine running by turning the ignition key to accessory position.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

1.13 ALTERNATOR

Ford OEM 225 amp alternator with internal regulators.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

1.14 WINDOWS, CAB

Tinted safety glass is installed in all exterior windows. Ford OEM power operated windows.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

1.15 WINDSHIELD WIPERS

Two speed electric, with washer and adjustable intermittent cycle.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

1.16 SEATS, DRIVER'S COMPARTMENT

Deluxe cloth OEM High Back Captains Chairs, with inboard fold-down armrests, seat belts and shoulder harnesses. There will be a 6" recess behind the cab seats for tilting or reclining of the seats.

The Ford OEM cab seats must be the seats installed and shipped with the chassis by Ford and have the correct Ford prescribed serial number. The Ford OEM seat pedestals shall be located in the mounting location as determined by Ford. Any changing of the Ford OEM Seats, mounting pedestals or location thereof is absolutely prohibited.

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_

1.17 HEATER AND AIR CONDITIONER, CHASSIS

OEM heavy duty, high output.

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_

1.18 COOLING SYSTEM, ENGINE

Heavy-duty liquid system using a 50/50 mix of permanent type antifreeze and water for protection to (-) 40 Fahrenheit.

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_

1.19 MIRRORS, DRIVER'S

Dual OEM below-eye-level mirrors on foldaway arms with power adjustment shall be provided. The flat mirror shall be 65 sq. in. with a 10 sq. in. convex mirror located in the lower outside corner of the flat mirror. Both mirrors shall be mounted below eye level.

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_

1.20 TRIM PACKAGE, CHASSIS

Exterior upgrade package; full stainless steel wheel simulators, chrome bumpers and grill, aero style headlights with Daytime running lights. Interior upgrade package; Color keyed door trim, color-keyed carpet and headliner, padded sunvisors, courtesy and dual dome lights, AM/FM/CD Stereo Radio with Clock. Power door locks, cruise control, tilt steering wheel.

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_

1.21 RUNNING BOARDS AND MUD FLAPS

Heavy-duty aluminum diamond tread running boards shall be installed from the back of the front wheel opening to the front of the module box. They will include mudguards to protect the chassis and module. Rubber mud flaps will be installed behind the dual rear wheels.

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_

1.22 MISCELLANEOUS CHASSIS ITEMS

Dual pitch horn, reduced sound level exhaust, OEM standard undercoating, dual air bags.

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_



1.23 REMOTE ENTRY

Remote Entry with two key FOBs shall be included.

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_

1.24 HIDDEN UNLOCK SWITCH

A hidden unlock switch shall be installed in the front cab grill and shall unlock all entry doors of the cab and module.

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_

**2.0 MODULE CONVERSION**

2.1 APPROXIMATE DIMENSIONS, EXTERIOR

Overall vehicle length	268.0 inches
Overall vehicle height	107.5 inches
Overall module body length	168.0 inches
Overall module body height	87.0 inches
Overall module body width	96.0 inches

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_

2.2 APPROXIMATE DIMENSIONS, INTERIOR

Length forward door to rear door	158.0 inches
Width interior wall to wall	90.0 inches
Width of aisle	51.0 inches
Height floor to ceiling	72.0 inches
Loading height	32.5 inches

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_

2.3 GENERAL CONSTRUCTION

The body wall skin shall be of prime commercial quality minimum .125" thick 3003 H14 corrosion resistant aluminum. All side and roof panels shall be .125" thick. The use of side and roof panels that are of a lesser thickness is strictly prohibited.

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_

All side panels and the roof panel shall be a single sheet of aluminum. Covering the sidewall, front, rear or roof of the exterior body with sectional pieces of aluminum panels is prohibited. This is to eliminate the necessity for joints or seams where these panels join.

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_

All parts of the body and attachments will be fastened together with rust resistant fasteners in a manner that will preclude loosening of any bolts and screws, and the

cracking of welded joints. The exterior body panels will be made of not less than 0.125" thick aluminum and be reinforced at all points where equipment will be attached.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

The body will be a bolted and welded structure. Welding will not however, be employed in the assembly of the body in a manner that will prevent the ready removal of any component part for service or repair.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

In the assembly of the body, areas where steel is in contact with aluminum, there shall be rubber isolator pads installed. This pad provides corrosion and water resistance.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

All fasteners, bolts, screws, etc. used in the assembly of the body and all attachments shall be coated with the "ECK" brand corrosive protectant. Additionally, all exterior door hinges, both entry and compartment, are to be coated with "ECK" protectant prior to the installation of the door. This "ECK" coating is to be used in lieu of a gasket material behind the hinge to prevent the problems of gasket retention and deterioration.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

The body shall be attached to the frame of the chassis with the 12 OEM rubber mounts and bolt assemblies provided for such purpose by Ford. The body will then be fastened to the cab with 32 1/4"-20 x 1" stainless steel bolts. The body (components) will not be welded to the frame of the chassis. The mounting of the module body to the chassis shall be done in strict accordance with Ford QVM guidelines. Any other method of attachment is strictly prohibited.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

2.4 ROOF

The roof under structure will be fabricated from extruded aluminum box beams (6061-T6). The use of skip or intermittent welding of the roof perimeter is unacceptable.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

2.5 SIDE WALLS

The body sidewall skin shall be constructed of a single sheet of .125" aluminum (3003 H14). The sidewall under structure will be fabricated by welding 2" x 2" x .125" extruded aluminum box beams

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

All body openings shall be seamless. Body openings framed with tongue and groove style extrusions requiring the use of seam sealer will not be acceptable.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

2.6 FLOOR SUB-STRUCTURE

The floor shall be at the lowest level permitted but not more than 32.5 inches from the ground with no modifications to the OEM chassis suspension. There shall be 12 mounting points using the Ford supplied ladder supports.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

2.7 EXTERIOR COMPARTMENT CONSTRUCTION

Compartments provided on the unit will be constructed as follows: The compartment floor will be fabricated of .125 diamond plate aluminum (3003-H14) and the ceiling and bulkheads of .100 diamond plate aluminum (3003-H14). All compartment floors will be reinforced with two 1x2 inches aluminum bars on the underside of the floor.

All exterior compartments will be sweep out style to provide for ease of cleaning. Drain holes are not desirable. All exterior compartments will be vented to provide for the displacement of air when closing doors. Vent louvers shall be installed on the vertical walls of the exterior compartments.

All exterior compartments shall be lighted when the compartment door is opened. Compartment lights will be flush mounted with wiring routed through the body eliminating any exposed wiring.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

All exterior compartment shelving shall be "Pan" style aluminum shelves mounted on two (2) sets of uni-strut tracks at each end of the shelf providing infinite adjustment. Rubber matting is to be installed on the topside of all shelving.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

2.8 DOORS

The door(s) of each compartment will be flush type (being on the level with adjacent body surface). The weather seal is to be mounted on the outer flange of the door with the latches and strikers mounted on the extruded second break inside the door opening. This door design eliminates exposure of the latches to the elements and prevents moisture from corroding the latch mechanisms.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

All doors shall be constructed of .125 aluminum and 2 1/2" thick.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

All doors shall be reinforced and cross-braced inside for increased strength allowing for the mounting of equipment on the door.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

In order to facilitate adjustment and routine maintenance of door linkage rods and latches, all patient compartment entry doors shall have access ports. There is to be an access port above and one below each interior entry door handle of sufficient size to allow for the adjustment of the door linkage rods. Access ports shall also be provided for the lubrication of the slam latches located at the top and bottom of each entry door. All ports are to be covered with a friction type "plug-in" plastic cover that is readily removable.

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_

The door latch assembly of each compartment will be an **Eberhard Grabber 21100 series**, two (2), point slam lock (206 rotary latch) of stainless steel construction. Door latch assemblies shall be "blind\_mounted" eliminating any exposed mounting hardware on the exterior side of the latches. There is to be a rubber gasket between the exterior stainless steel latch assembly and the aluminum door to ensure the isolation of the two dissimilar metals.

The door linkage rods' connecting the door handles and the rotary latches are to be threaded stainless steel rods. They shall be straight direct pull rods with no bends built into the rods allowed. Adjustments to the entry door linkage rods are to be provided by a turnbuckle located above and below and adjacent to each interior door handle.

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_

All exterior doors are to be lockable via an "automotive style" lock with all compartment and patient compartment entry doors being keyed alike. The key shall be double sided for ease of insertion into the lock.

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_

Door strikers shall be installed on the vertical compartment flanges, with the exception of double doors. There are to be two (2) pins per door, with the exception of the battery compartment door. All striker pins shall be fully adjustable from the exposed side. They will be grade 8.0 cadmium plated steel strikers with a "captive nut" for adjustment and so located as not to interfere with the sweep-out design of the compartment itself.

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_

All compartment and entry doors shall have one-piece Stainless Steel doorsill protectors to protect both surfaces of the body opening.

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_

Each compartment and entry door is to have a full width aluminum drip rail mounted above each door. All drip rails are to be attached using double back adhesive tape. The use of screws, rivets, or any other form of metal attachment is not acceptable.

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_

All compartment doors will be equipped with a gas strut door stay that holds the door at 90 degrees to the body when open. All gas struts are to be mounted in such a way as to

allow for easy access in the event that replacement or repair is required.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

There shall be a "dampening" devise installed within each gas strut for the purpose of preventing the "shock" that can occur when a gas strut is fully extended.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

Each compartment door will be mounted with a continuous stainless steel hinge with a minimum pin diameter of (.250). Hinge Pin diameter of less than (.250) is unacceptable to ensure the long-term performance of the hinge in this extreme use application.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

Each compartment opening is to be sealed with full perimeter 5/8" wide by 1/2" thick hollow core wiper seal. The seal is to be mounted on the doorframe out board of the striker pins and the door latches. This seal insures that each compartment will be dust and waterproof and that the striker pins and door latches will remain dry and clean.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

All exterior compartment and patient compartment entry doors shall be insulated with a single layer of R-14.5 reflectics insulation. Additionally there shall be a single layer of 2" polystyrene insulation installed in each door.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

Rear patient compartment doors shall be equipped with Cast Products "Grabber" hold-open devices. Side patient compartment door shall be equipped with Gas Strut door opening device.

Rear and side patient compartment doors shall have dark tinted safety glass windows encased in extruded aluminum frames.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

2.9 LICENSE PLATE HOLDER

Installed in the center of the rear kick plate above the rear step bumper there shall be a Cast Products license plate holder.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

**3.0 ELECTRICAL SYSTEM**

3.1 ELECTRICAL SERVICE PANEL

All circuits shall be rated to carry at least 125% of its maximum load. Each circuit shall be protected by a manual reset circuit breaker. Each circuit that is rated more than three (3) amps shall be switched by use of a relay.

Circuit breakers and relays shall be mounted in plug-in, pull out sockets that are permanently mounted in a printed circuit board for durability, as well as weight and space savings. Relays should be a type that is readily accessible at any auto parts store. All circuit breakers shall be interchangeable with standard ATC automotive fuses so that system can be quickly returned to service.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

3.2 ELECTRICAL SERVICE PANEL ACCESS

The electrical service panel shall be mounted in an easy to access area.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

3.3 LOAD MANAGEMENT SYSTEM

The distribution panel shall include a solid-state programmable load management system designed to sense when the charging system is not keeping up with the electrical demand. When this situation exists, the load manager will automatically shut down warning lights, one at a time in a programmed sequence until the electrical load is being sustained without discharge. This system only functions when the unit is in park.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

3.4 SEQUENTIAL SWITCHING

A solid state Sequential Switching System shall be installed that will turn emergency lighting on/off in staggered ½-second intervals. This is done to eliminate subjecting the alternator to sudden load and unloading of electrical draw.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

3.5 ELECTRICAL WIRING

All the vehicle's electrical equipment shall be served by circuits separate and distinct from the chassis electrical system. All electrical wiring shall be run in grease, oil, heat and moisture resistant looming. Harnesses shall be fastened with vinyl-clad clamps and grouted at any area they contact a metal edge.

Every load carrying wire shall be a minimum of 12-gauge, and shall be color-coded and heat embossed with its function every 6 inches.

There shall be at least a 6-inch service loop of wire at the point of attachment to each component. All electrical connections shall be machine crimped; the use of Scotch-locks is strictly prohibited.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

3.6 12V DC OUTLETS

There shall be three (3) Cigar style 12V DC outlets, one located in the action area, one in the right front bulkhead "ALS" compartment, and one in the locking cabinet above the ALS.

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_

3.7 110V AC SYSTEM

There shall be a weatherproof 110V - 125V male receptacle rated at 20 amps with a spring-loaded cover assembly located on the front left corner of the module body for incoming 110-volt power. This receptacle shall be labeled. It shall be wired through one 15-amp circuit breaker. The circuit shall include five (5) 110-volt interior receptacles, two located in the action wall area, one in the ALS cabinet, one in the cabinet above the ALS and one on the squad bench side of the module (toward the rear). Outlets shall illuminate per KKK-A-1822-F.

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_

3.8 LIGHTING, EMERGENCY

The unit shall be equipped with a Vanner #3860 flasher and the following warning lights:

Front of module lights to be in sequence of:  
red, red/white, white, red/white, red

8) Whelen Series 9 x 7 red LED lights as follows:

- 2) Facing forward
- 2) Facing rearward
- 2) Facing right
- 2) Facing left

1) Whelen Series 9 x 7 clear LED light installed top center forward.

- 1) Whelen Series 9 x 7 amber LED facing rearward
- 2) Whelen Series 9 x 7 clear load lights facing rearward
- 2) Whelen Series 9 x 7 red/white LED lights installed facing forward
- 2) Whelen Series 7 x 3 red LED lights mounted in front fenders
- 2) Whelen Series 7 x 3 red LED lights mounted above rear wheels
- 2) Whelen Series 500 red LED's with chrome housing in grill

Circuit shall have a dual mode switch. "Primary" shall flash all lights. "Secondary" shall flash top red & amber lights only.

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_

3.9 ADDITIONAL LIGHTING

SCENE LIGHTS

There shall be four (4) Whelen Series halogen lights. Two (2) lights on the left side and two (2) lights on the right side. A separate switch on the driver's switch panel shall control each pair. **In addition, there shall be a scene cut-out switch inside each entry door of the module.** The right side and rear scene lights shall activate when the right side or rear doors are open. The rear most scene lights on both sides of the module shall come on when the vehicle is put in reverse.

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_

3.9.1 DOOR SWITCHING

Magnetic Door Switches shall be installed to activate Door Open, Compartment Open, Dome and Scene Lights via a PC Board.

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_

3.10 SIREN AND SPEAKERS

Siren shall be a Carson Mfg. SA 400 with Wail, Yelp, Hi/Lo and Phaser sounds. Cast speakers shall be installed with the speaker driver being mounted behind the bumper. Siren speakers must be mounted in accordance with Ford QVM.

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_

3.11 SPOTLIGHT

There shall be a "300,000 candle power" spotlight, with eight foot coiled cord and momentary switch, permanently wired into front console. A "Mic" style storage clip shall be provided.

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_

3.12 LIGHTS, PATIENT COMPARTMENT

The ceiling headliner shall contain eight (8) Whelen High - Low intensity LED dome lights. The left and right banks of lights shall be switched separately. In addition, the left bank high mode can be switched from the drivers switch panel and will be activated by opening of the side or rear entry doors. There shall be a timer switch installed in the right wall at the head of the squad bench. The timer switch will allow the middle bank of Dome Lights to turn on even when the master switch is in the off position.

In addition, a 10" LED light shall be in the action area.

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_

3.13 CLOCK, PATIENT COMPARTMENT

A battery-powered clock with a sweep second hand shall be located above the rear patient entry doors and shall be visible from all seat locations.

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_

3.14 SUCTION - ON BOARD

A self-contained suction system shall be provided and mounted in a compartment below the action wall, with a ½ door.

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_

3.15 VENTILATION

A 138-CFM exhaust fan shall be mounted near the ceiling in the left rear of the patient compartment and shall be activated by a switch on the action wall.

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_



3.16 SWITCH CONSOLE, DRIVER'S

There shall be a one-piece molded console mounted on the OEM engine cover. The console shall be easily removable from the engine cover to allow access for servicing the engine. There shall be space provided for the installation of dual cup holders or radios below the switches and gauges. The switch panel shall be molded, aesthetically appealing, and incorporate modern switches and gauges as follows:

- Master Switch
- Load Manager/Sequencer
- Primary/Secondary
- Siren/Horn
- Left Scene
- Rear Scene
- Right Scene
- Rear Dome Lights
- Back up Alarm Disable
- Silent Intercom Lights
- Door Ajar Light
- Compartment Open Light
- Voltmeter, Digital
- Thermostat Control Heat/AC

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

3.16.1 LOW VOLTAGE ALARM

A Low Voltage Alarm shall sound when voltage drops below 11.8 volts for more than 120 seconds.

3.17 SWITCH CONSOLE, PATIENT COMPARTMENT

The following switches shall be in the rear control panel that shall be hinged for easy access to components. They shall be mounted in a single row at an angle facing the center of the cot and the squad bench.

- Left Dome High/Low
- Right Dome High/Low
- Silent Intercom Switches
- Driver Buzzer
- Exhaust Fan
- Checkout Lights
- Thermostat Control for Heat/A.C.
- Heat/A.C. Fan Control, 3 speed.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

All switches in front and rear panels shall be positive contact rocker type switches that are permanently marked by function, illuminate when activated and backlit for night visibility. Each switch must be independently replaceable to eliminate the need for replacement of the entire switch panel in the event of a single switch failure.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

**4.0 PATIENT COMPARTMENT**

**4.1 FLOOR, PATIENT COMPARTMENT**

The subfloor shall consist of .090" thick 3003 H14 corrosion resistant aluminum sealed watertight. Over the aluminum sub-floor there shall be single sheet of ¾" exterior grade plywood that is caulked and sealed.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

The floor is then to be covered with a single piece of commercial-grade, LON-PLATE, anti-skid flooring, which shall roll up the left wall and the squad bench approximately 3". Behind the linoleum at the base of the left wall and the squad bench, coving shall be installed providing a solid backing at the point of the bend in the floor. This coving shall run the full length of the left wall and the squad bench. Flooring shall be sealed at all edges to prevent water from seeping between the floor and cabinets.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

A formed 6 inch, full width stainless steel floor protection strip shall be installed forward of the rear patient compartment door seal. Additionally antiskid tape, 2 inch wide, is to be laid the full width just inside the rear entry doors over the floor protection strip.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

**4.2 CABINETS, INTERIOR**

All interior cabinets shall be built using ¾" cabinet grade, solid core birch plywood. The use of plywood of any lesser quality or thickness is strictly prohibited.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

All interior cabinets shall be constructed using wood screws. The use of staples or nails in the fastening of cabinet components is strictly prohibited.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

Exposed cabinet surfaces, interior and exterior, are to be covered with "Wilsonart" laminate. All cabinets and counter tops shall be caulked and sealed. Cabinets shall incorporate 1-inch aluminum radius corners throughout and have generous padding to lessen the chance of injuries in the event of an accident. Sliding Plexiglas windows shall be 1/4" thick with full height extruded aluminum handles mounted in full perimeter slide track. Door catches shall be flush-mount slam-type positive latching.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

**4.2.1 CABINETS, LEFT WALL**

Cabinets shall be designed with a one-piece molded Fiberglass countertop for the attendant in the action area. Storage cabinets shall be located in the left rear, above the CPR seat, and above the action area. The cabinet in the rear shall be approximately 26" wide by 19" tall and have restocking frame, inventory tag holes and one adjustable shelf. The cabinet over the CPR seat shall be flip-up and approximately 44" wide by 5" tall and

have latches. The cabinet over the action wall shall be approximately 46" wide by 14" tall, have a restocking frame, inventory tag holes, an adjustable shelf, and have the same angle front to back as the cabinet with the switch panel.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

The action wall shall house the technician's console, two oxygen outlets, climate control thermostat and fan control, one 12-volt connection and two lighted 110V duplex outlets. The upper action wall area, shall be hinged for ease of access.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

4.2.2 BULKHEAD CABINETS

The driver side cabinet shall incorporate a floor mounted climate control unit. Unit shall drain directly through the floor. Air in-take shall be at floor level, while output shall be ducted overhead, across the bulkhead cabinets. The return air shall be filtered. Directly above the climate control unit shall be a storage area.

A cabinet shall be above the "Walk Thru" area and be approximately 43" wide by 12" tall. The cabinet shall be padded on the outside.

A Cabinet shall be above the ALS compartments, approximately 23" wide by 16" tall. The compartment shall have a 110V outlet and a 12V outlet and the outside of the cabinet shall be padded.

ALS cabinet to have two roll-up doors. The top portion shall be approximately 29" wide by 25" tall and have access to the outside. Cabinet to have two lights and a 110V outlet and 12V outlet. Bottom section to be approximately 29" wide by 16" tall and have no outside access and locking.

A Countertop with an open access shall be in the area between the cab and module and have a 4" fluid dam on the bottom. Cabinet to be for storage under the counter top.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

4.2.3 SQUAD BENCH CABINETS

Two cabinets shall be mounted at the ceiling level directly over the entire length of the squad bench. They shall have sliding Plexiglas doors. There must be a minimum of 43" from the bottom of these cabinets to the top of the squad bench. Cabinets to be "flip-up".

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

4.2.4 SQUAD BENCH

The squad bench base shall be constructed of .075" gauge stainless steel for strength and ruggedness. The lid shall be split into two sections. Each lid will have a gas strut hold open device and paddle style latches. The interior shall be lined with white Wilsonart or equivalent laminate. Cushions shall be vacuum-formed seamless.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

4.3 SEAT, EMT / ATTENDANT

An attendant seat shall be located at the head of the primary cot. It shall be a high back deluxe seamless vinyl captain's chair mounted on a pedestal with integrated child seat. A 3pt. seat belt shall be included for attendant safety.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

4.3.1 SEAT, CPR

A sidewall seat will be mounted in the center of the left wall with lift up seat for storage below. Seat to be approximately 45" wide. A seat belt shall be provided for attendant safety. Cushions shall be vacuum-formed seamless. One-inch Cushions shall be installed on three sides of the Head Area.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

4.4 UPHOLSTERY

All door panels, seat cushions, and protective pads shall be constructed of fire-retardant foam, covered with a minimum of 40-ounce marine-grade vinyl.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

All seat and back cushions in the patient compartment shall be vacuum-formed seamless.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

4.5 HEADLINER

The headliner shall be constructed of padded white vinyl in three sections, with the center section being removable to gain access to wiring.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

4.6 PANELING, INTERIOR

Exposed surfaces shall be mar, dent and scratch resistant. Walls shall be covered with high pressure or equivalent laminate material.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

4.7 GRAB RAIL, OVERHEAD

A full-length stainless steel handicap style 1 1/2" diameter grab rail shall be installed on patient compartment ceiling, toward the CPR seat. An additional grab rail shall be installed on the squad bench side of the vehicle and be approximately 60" in length. These rails shall be capable of supporting a minimum of 300 pounds. Rails shall be treated with Agion Anti-Bacterial Coating.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

4.8 GRAB HANDLES, DOORS

All entry doors will have a matching heavy duty stainless steel handicap style 1 1/2" "V" bar grab handle that will be securely mounted slightly below the window.

These Bars shall be treated with Agion Anti-Bacterial Coating.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

4.9 STAINLESS STEEL SIDE WALL

The lower left aisle wall shall be .060 stainless steel from action shelf down to floor. The stainless steel shall be installed after the coved floor is in place. The stainless steel will be installed over the edge of the rolled floor. This will eliminate the seam and possibility of fluid retention.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

4.10 COT MOUNT

A Stryker "Performance LOAD" Manual Cot Fastener shall be installed as well as a Stryker "Mass Casualty" Fastener, with locking bar and antlers, allowing the majority of cot models to be used with the cot mount system. Mount to be set in center position.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

4.11 INSULATION

The entire patient compartment, walls and ceiling, shall be blanketed with two layers of reflectics insulation. In between the two layers of reflectics insulation shall be a 2" polystyrene insulation to provide exceptional insulation and sound deadening qualities. To make certain the insulation stays in place, all insulation in the vertical walls is to be glued in place.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

All exterior compartment and patient compartment entry doors shall be insulated with a single layer of R-14.5 reflectics insulation. Additionally there shall be a single layer of 2" polystyrene insulation installed in each door.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

4.12 CLIMATE CONTROL

Rear climate control shall be floor mounted in driver side bulkhead cabinet to shorten refrigerant and anti-freeze hoses and eliminate vertical circulation. Condensation from high humid conditions shall drain directly through floor. Air intake shall be at floor level; output shall be at ceiling level with return air at floor level for increased airflow. Return air shall be filtered.

The unit shall be a Pro-Air with 32,000 BTU cooling capacity and a 35,000 BTU heating capacity. The blower motor shall have permanent magnets and be capable of delivering 630 CFM of airflow.

A thermostat shall control both heating and cooling with 3-speed manual fan control. The thermostat and fan control shall be located on the action wall.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

4.13 SHARP'S AND TRASH CONTAINER

A lockable Sharp's container and trash container shall be installed in the A-bar, located at the curb side entry door.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

4.14 OXYGEN OUTLETS

Oxygen system shall be plumbed with conductive hose from oxygen compartment to two Allied, Ohio style oxygen outlets in the action area, a third over the cot mounted in the ceiling, and fourth on above the bench seat.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

4.15 MARKER BOARD

There shall be a telescoping marker board above the bench, covering the window.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

4.16 TIMERS AND SCENE CUT-OFF

There shall be switches installed at the entry doors for a check out timer and scene cut off of the curb side and rear lights.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

4.17 A-BAR

An "A-Bar" with sharps and waste containers shall be installed at the curb side module entry door.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

4.18 FLOW METER

Three (3) "Tube-type" flow meters shall be supplied and installed on the action wall.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

4.19 RESTOCKING SEALS

Re-stocking seals shall be supplied on all interior compartments.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

4.20 RESTOCKING FRAMES/SPEED LOAD

All interior cabinets shall have a "flip-up" frame/window for restocking

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

4.21 INTERIOR COLORS

All interior colors (counter tops, flooring, and vinyl) shall be determined after award.

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_

4.22 ADJUSTABLE SHELVES

All interior cabinets on street side of the interior to have one (1) adjustable shelf.

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_

**5.0 EXTERIOR BODY**

5.1 REAR WHEEL WELL TRIM

The rear wheel wells shall be trimmed with Stainless Steel Fenderettes that shall be attached to the body with stainless steel fasteners. There shall be a gasket placed between the aluminum body and the stainless steel fenderette for isolation of the dissimilar metals.

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_

5.2 RUB RAILS

There shall be bolt on clear anodized extrusion rub rails with a wall thickness of (.187). They shall run the full length of the body and be mounted at the base of each side of each side of the body. The rub rails shall be spaced ¼ inch from the body with Delrin spacers.

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_

5.3 BUMPER, REAR STEP

The rear step assembly shall be constructed of 1 3/4" X 1 3/4" tubular steel frame bolted to the chassis frame. The center section shall be flip-up non-skid grip strut that will allow mud and snow to fall through the step. The ends shall be constructed of diamond plate end caps with 18" X 4" X 4" heavy-duty rubber dock bumpers.

COMPLY? ..... YES \_\_\_\_\_ NO \_\_\_\_\_

5.4 DOOR STEP, SIDE

The side doorstep shall be formed of aluminum diamond tread and shall be flush sweep out style. Antiskid tape, 2 inch wide, is to be laid the full width of the step just inside the entry door. Additionally there shall be a formed 3-inch, full width stainless steel floor protection strip installed over the flooring at the top of the step. An LED step well light is to be installed on the forward vertical wall of the step well with the wiring to be pulled through the backside of the step well. The lower side of the step well shall be covered with Hush Mat to reduce road noise.

5.5 STONE SHIELDS

Diamond plate stone shields shall be installed on the front edge of the module body directly behind the cab at skirt level. These shields shall extend up the front of the box approximately 16 inches.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

5.6 EXTERIOR COMPARTMENT CONFIGURATION

NOTE: See Drawings for Exact Compartment Location and Dimensions

#1 OXYGEN / BACKBOARD COMPARTMENT

The left front (street side) exterior compartment shall contain a "Zico" nylon triple collar bracket to house one "M" size oxygen cylinder. The O2 tank is to be stored in the aft side of the compartment. There shall be an interior access door to allow the attendant to turn the oxygen tank valve on/off from the patient compartment. A separate O2 compartment light shall be provided for the purpose of viewing the tank O2 gauge and be switched on/off from the action panel. A wrench is to be provided for changing the tank regulator. This wrench is to be secured in the compartment with a cable and mounted to the compartment wall when not being used.

This compartment shall have an aluminum divider located between the O2 tank and the backboard storage side of the compartment. A shelf is to be installed from the divider to the compartment aft wall above the O2 bottle.

On the forward wall of the compartment there shall be a removable panel approximately 8" square in size located opposite of the shoreline plug. This panel, when removed, provides access to the shoreline plug when service or replacement is required.

**Approximate compartment size to be 80" tall by 18" wide.**

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

An O2 Regulator for an "M" tank shall be supplied

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

#2 GENERAL STORAGE COMPARTMENT

This compartment shall be located street side between the #1 compartment and the left side drive wheels and is to be used for general storage. There is to be a double door on this compartment with the secondary door latch being located on the inside of the door. For ease of opening, the secondary door latch shall be equipped with a stainless steel handle extension that is visible and readily accessible from the outside of the compartment.

There shall be a full width, full depth aluminum "pan" style storage shelf installed in the compartment. The shelf is to be mounted on two (2) sets of infinitely adjustable uni-strut



tracks at each end of the shelf with rubber matting covering the topside of the shelf.

Approximate compartment size to be 46" wide by 36" tall and to have an adjustable shelf.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

#### #4 TURNOUT GEAR AND MISC EQUIP.

The left rear street side exterior compartment shall be for the storage of turnout gear and other equipment. It shall have one (1) adjustable shelf that shall allow adjustment approximately 16" from the top of the compartment. Compartment to be approximately 32" wide by 60" tall

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

#### #5 CURBSIDE BACKBOARD COMPARTMENT

The right rear curb side exterior compartment shall be a single door full height vertical compartment for the purpose of storing a minimum of **two (2) backboards, a Stryker 6252 Stair Chair, and miscellaneous other related equipment.** The compartment is to be divided equally with an aluminum divider. There shall be an adjustable shelf located on the forward side of the divider approximately 5' above the floor. Approximate dimensions to be 80" tall by 18" wide.

The forward side of the compartment is to provide storage for two (2) backboards and shall have rubber "nerf" strips, two (2) on the floor and two (2) on the back wall of the compartment, for the protection of the backboards. There shall be a seat belt style-retaining strap installed for the purpose of securing the backboards.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

#### #6 GENERAL STORAGE COMPARTMENT

This compartment is to be located on the curbside forward of the #5 compartment and rearward of the right side rear wheels. This compartment is to provide exterior storage for miscellaneous equipment under the rear portion of the squad bench. Approximate dimensions to be 20" wide by 21" high.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

#### #7 ALS IN/OUT ACCESS

There shall be a single full-length door located at the right front (curbside) allowing for In/Out access to the TOP PORTION of the ALS. The Bottom portion of the ALS shall be inside access only. Approximate total compartment size to be 46" tall by 18" wide (see also "ALS" on the interior section).

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

**BATTERY COMPARTMENT**

There shall be a separate compartment to house the batteries on a slide-out tray.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

**5.7 LIGHTING, DOT**

The vehicle shall be equipped with halogen daytime running headlights and two amber park/turn lights on the front. The Module Body shall have at least 11 LED clearance lights with each light having four (4) LED's and grounded via a ground wire". Each top front corner shall have amber lights mounted on the front and side of each corner. There shall be three red lights at the top rear center of the module. Each top rear corner shall have red lights mounted on the rear and side of each corner. There shall be three amber lights mounted on the top front center of the module above the light bar.

The rear of the module box shall have two Whelen 4" x 6" series amber LED arrow turn lights, two Whelen 4" x 6" series red LED tail/brake lights, two Whelen 4" x 6" series reverse lights. They will be mounted in chrome flanges on the modular body above the diamond plate in the above listed order top to bottom. Mounting of these lights shall be as far outboard on the rear of the module body as possible.

All lights shall be installed and located as per I.C.C. requirements.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

**5.8 MODULE WINDOW**

There shall be a window on the curb-side of the module, approximately 16X32.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

**6.0 BODY FINISH**

**6.1 PAINTING PROCEDURE**

Cab and module to be paint Ford Red (acceptance of color sample after award).

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

Cab and module to have a high-gloss WET SAND AND BUFF

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

An extensive 12-step painting process is to be followed and strictly adhered to as follows:

Prior to paint all doors, chrome trim, lights, handles, steps, and all other attached equipment shall be removed to assure the paint process covers the entire body. No Weather-stripping will be attached to the body during the paint process.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

The entire outside of the body shall be sanded with a minimum of 180 grit sandpaper and cleaned and deburred of all rough edges. The entire body shall then be wiped clean with PPG DX436 wax and grease remover prior to painting.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

The body shall then be coated with (1) coat of PPG Delfleet Evolution F3993 Epoxy Primer followed by (2) coats of PPG Delfleet Evolution F3975 Urethane Primer. Once the primer has been applied the entire unit shall be baked at 150 degrees for a minimum of 30 minutes. The primer shall then be sanded prior to the application of the topcoat.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

Once the application of the primer has been completed, a topcoat consisting of (2) coats of PPG Delfleet Evolution FBC Color Coat is applied followed by (2) coats of PPG Delfleet Evolution F3921 Clear coat for a durable long lasting high gloss finish. The entire unit shall then be baked a second time at 160 degrees for a minimum of (45) minutes.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

After the body paint procedure is completed a band shall be applied at midline forming a continuous band around the vehicle. This band is to be painted with (2) coats of PPG Delfleet Evolution FBC Color Coat followed by (2) coats of PPG Delfleet Evolution F3921 Clear Coat.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

The final step shall then be to apply Rubberized undercoating to the underside of the cab and the body in strict adherence to Ford QVM guidelines and the KKK-1822- E Specification just prior to delivery.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

Warranty shall be a full 5-year / 100,000 mile **NON-PRORATED** Modular Paint Warranty.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

**7.0 PAYLOAD**

7.1 PAYLOAD

There shall be a minimum of 3400 lbs. of usable payload. Weight determination shall be made with standard unit, full complement of fuel, fluids and spare tire. Any optional equipment shall be deducted from payload.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

**8.0 MISCELLANEOUS EQUIPMENT**

8.1 DECALS, NO SMOKING & OXYGEN EQUIPPED

There shall be two NO SMOKING and two OXYGEN EQUIPPED signs, one each in the cab and one each in the patient compartment.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

8.2 I.V. HOLDERS

There shall be two recessed, swing-up dual I.V. bag holders mounted in patient compartment headliner. The holders shall be Cast Products # IV-2009 (KKK-1822-F Approved).

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

8.3 INVERTER

A Vanner Model 20-1050-CUL to be installed and will come on with ignition start.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

8.4 SHORELINE

A 20 AMP Kussmaul auto eject plug shall be installed on the driver's side, on the module.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

8.5 CAMERA(S)

A Hansom 7211 back-up/reverse camera shall be supplied and located on the upper rear of the module and have a monitor installed on the interior of the cab. Camera to come on in reverse.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

8.6 FLOW METERS

There shall be 3 (three) tube-style flow meter installed in the module.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

8.7 INTERIOR LATCHES

All interior cabinets on the interior of the vehicle shall have latches.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

8.8 FIRE EXTINGUISHER

A 5 lb. fire extinguisher will be supplied.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

8.9 ANTENNA PRE-WIRE

Two pre-wire antenna coaxial cable delivered to the drivers switch console. There shall be a raceway provided to be able to run radio cable from the cab to the patient compartment. An additional prewire for power and ground shall be supplied to the patient compartment.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

8.10 WIRING SCHEMATIC

There shall be a complete **SPECIFIC** wiring schematic showing all circuits, including optional equipment included in the owner's manual.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

**9.0 WARRANTY**

9.1 WARRANTY

Three year / 36,000 mile Product Conversion Warranty  
Six-year / 72,000 mile Electrical System Warranty  
Five-year / 100,000 mile **NON-PRORATED** Modular Paint Warranty  
**LIFETIME** Modular Body Structure Warranty

There shall be no pro-rating allowed for any portion of the above listed warranties.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

**10.0 REQUIREMENTS OF THE MANUFACTURER**

10.1 KKK-A-1822-F CERTIFICATION

This unit shall meet all KKK-A-1822-F specifications and the manufacturer shall have current documentation of compliance with all KKK-A-1882-F standards.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

10.2 FORD QVM PROGRAM

This unit shall meet all Ford QVM Program requirements and the manufacturer shall be

a current member in good standing of the Ford QVM Program.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

10.3 AMD MEMBERSHIP

The manufacturer shall be a current member in good standing of the Ambulance Manufacturers Division (AMD) of the National Truck & Equipment Association (NTEA). The unit shall be built in compliance with all AMD "Standards".

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

10.4 REMountING AND REFURBISHING

The manufacturer must be capable of remounting and / or refurbishing used units. The facilities for such purpose shall be located at the manufacturer's primary location. The subcontracting of remounting and refurbishing is strictly prohibited.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

10.5 FORD POOL ACCOUNT PROGRAM

The manufacturer shall be a current member in good standing of the Ford Pool Account Program.

COMPLY? ..... YES \_\_\_\_ NO \_\_\_\_

**NO EXCEPTIONS ALLOWED IN SECTION 10.0**