

**MANUFACTURER'S  
NEW AMBULANCE BUILD  
FOR  
TETON COUNTY AMBULANCE SERVICE  
DRIGGS, IDAHO**

**0** **GENERAL INSTRUCTIONS**

**0.01** It is the intent of these specifications to secure an Ambulance constructed to withstand the severe and continuous use encountered during emergency service.

<b>COMPLY</b>	<b>YES</b>	<b>NO</b>
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**0.02** The Ambulance shall be the latest type, carefully designed and constructed with due consideration to the nature and distribution of the load to be sustained. Bidder is required to provide weights of similar vehicles for comparison.

1. Vehicle Type \_\_\_\_\_ Year \_\_\_\_\_  
 Body Length \_\_\_\_\_  
 Unloaded Weights  
 Front: Left \_\_\_\_\_ Right \_\_\_\_\_  
 Rear: Left \_\_\_\_\_ Right \_\_\_\_\_  
 Total Curb Weight \_\_\_\_\_  
 Owner of Vehicle \_\_\_\_\_  
 Contact Person \_\_\_\_\_
  
2. Vehicle Type \_\_\_\_\_ Year \_\_\_\_\_  
 Body Length \_\_\_\_\_  
 Unloaded Weights  
 Front: Left \_\_\_\_\_ Right \_\_\_\_\_  
 Rear: Left \_\_\_\_\_ Right \_\_\_\_\_  
 Total Curb Weight \_\_\_\_\_  
 Owner of Vehicle \_\_\_\_\_  
 Contact Person \_\_\_\_\_
  
3. Vehicle Type \_\_\_\_\_ Year \_\_\_\_\_  
 Body Length \_\_\_\_\_  
 Unloaded Weights  
 Front: Left \_\_\_\_\_ Right \_\_\_\_\_  
 Rear: Left \_\_\_\_\_ Right \_\_\_\_\_  
 Total Curb Weight \_\_\_\_\_  
 Owner of Vehicle \_\_\_\_\_  
 Contact Person \_\_\_\_\_

**0.03**

These specifications detail the requirements for general design criteria of engine, transmission, electrical, body, painting, and equipment. In evaluating the bid proposals to determine which proposal is the most advantageous, these major items shall be considered:

1. Conformity to the Specifications.
2. Bidders past performance with this and other agencies.
3. Manufacturers past performance with this and other agencies.
4. Bidders ability to service vehicles for this agency.
5. Cost of vehicles after adjustments for exceptions taken.

**COMPLY**    **YES**    **NO**

**0.04**

Ambulance and equipment must meet the specific requirements and the intent of the requirements as specified herein. All items of these specifications shall conform to the character of the proposed Ambulance and the purpose for which it is intended.

**COMPLY**    **YES**    **NO**

**0.05**

The Ambulance and equipment to be furnished in meeting these specifications must be the product of an established reputable emergency vehicle QVM certified manufacturer. Each bidder shall furnish satisfactory evidence of the manufacturer's ability to construct, supply service, parts, and provide technical assistance for the vehicle specified. Bidder shall provide name, address, and phone number of the nearest facility which meets the following criteria:

1. Facility is under direct control of bidder to insure prompt service.
2. Facility has the needed equipment, (i.e., press brake, shear, plasma cutter, paint booth, etc.) to fabricate major body parts.
3. Facility has the ability and authority to properly remount module body bid without affecting manufacturer's warranties.
4. Facility is a Ford QVM member.
5. Facility is a member of NTEA (National Truck Equipment Association)

Name \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_

**COMPLY**    **YES**    **NO**

**0.06** The manufacturer shall defend any and all suits and assume all liability for any claim against the purchaser for the use of any patented process, device, or articles forming any part of the emergency vehicle proposed. Each bidder shall supply proof of \$5,000,000 product liability and facility insurance or show proof of being listed on manufacturer's \$5,000,000 product liability and facility insurance policy.

**COMPLY**  **YES**  **NO**

**0.07** The vehicle shall be tested and approved prior to delivery, and all records of same shall be submitted at time of delivery. Bidders shall state the amount of mileage the vehicle will have on it at the time of delivery.

Approximate mileage at delivery: \_\_\_\_\_

**COMPLY**  **YES**  **NO**

**0.08** The manufacturer shall supply one (1) copy of parts, service, and operational manuals at delivery of the proposed ambulance. Manuals shall include "As Built" body wiring diagrams.

**COMPLY**  **YES**  **NO**

**0.09** Bidder shall compute pricing less Federal and State taxes. It is understood that any applicable taxes will be added to the proposed prices unless the purchaser furnishes appropriate tax-exempt forms. The proposal form contained herein shall be used by all bidders.

**COMPLY**  **YES**  **NO**

**0.10** Bids shall be addressed and submitted in accordance with the "Call For Bid Cover Letter". Bid envelope must be identified with the words "**Ambulance Bid**", the opening date, and time on the face of the envelope.

**COMPLY**  **YES**  **NO**

**0.11** It is the bidders' responsibility to see that their proposals arrive on time. Late proposals, telegrams, fax, e-mail or telephone bids will not be considered.

**COMPLY**  **YES**  **NO**

**0.12** The bidder shall state the number of calendar days required for delivery of the completed vehicle after receipt of order by the manufacturer.

**COMPLY**  **YES**  **NO**

**0.13** All bid prices shall be F.O.B. destination on a delivered and accepted basis of the finished vehicle. If a drive out allowance is allowed, it will be shown on the proposal page as a separate deduct amount, complete with details explaining the drive out procedure.

**COMPLY**  **YES**  **NO**

**0.14** The successful bidder will be responsible for preparing and maintaining a record file of all parts and assemblies used to manufacture the emergency vehicle. These records shall be maintained in the factory of the bidder for the life of the apparatus. File shall contain copies of any and all reported deficiencies, all replacement parts required to maintain the apparatus, and original purchase documents including specifications, contract, invoices, incomplete chassis certificates, quality control reports, and final delivery acceptance documents.

**COMPLY**  **YES**  **NO**

**0.15** Due to the technical nature of this project, bidders are required to provide detailed drawings and detailed specifications of exactly what they are proposing. Bids not providing these required support documents shall be deemed non-responsive and rejected. Drawings shall include four (4) exterior views showing lights, equipment, stripes, lettering, etc. and four (4) interior drawings showing cabinets, benches, equipment placement, etc. The use of standard drawings and standard specifications or copies of bid drawings does not constitute detailed drawings and detailed specifications and shall not be considered. In order to make evaluations of proposals as quick and concise as possible, manufacturers detailed specifications shall be in the same order as the bid document. Minor details of construction and materials, where not otherwise specified, are left to the discretion of the contractor, who shall be solely responsible for the design and construction of all features.

**COMPLY**  **YES**  **NO**

**0.16** Some items have been specified by brand name or model number. These have been carefully selected because of their reliability, the availability of parts and service, or uniformity with this department. In order to be responsive, items specified by brand name and or part number named shall be contained in bid proposals.

**COMPLY**  **YES**  **NO**

**0.17** Each bidder must indicate compliance with these specifications by checking "Comply Yes / No" below each section of these specifications. Checking "Yes" will indicate complete compliance with that section; "No" will indicate an exception is being taken. Bidder must underline in red ink any portion of the section which will not be provided as specified. All exceptions must be fully explained on a separate page, giving reference to the page number and the section where the exception is being taken. Sufficient explanation and documentation shall be provided so that this agency may evaluate exception. Failure to comply with these requirements will result in automatic rejection of the entire proposal.

**COMPLY**  **YES**  **NO**

**0.18** Proposals taking total exception to specifications will not be accepted.

**COMPLY**  **YES**  **NO**

**0.19** The purchaser reserves the right to accept or reject any and all bids on such basis as the purchaser deems to be in its best interest, and is not bound to accept low bid.

**COMPLY**  **YES**  **NO**

**0.20** The purchaser reserves the right, before awarding the bid, to require a bidder to submit evidence of their qualifications as may be deemed necessary.

**COMPLY**  **YES**  **NO**

**0.21** All equipment furnished shall be guaranteed to be new and of current manufacture and to meet all requirements of these specifications. Workmanship shall be of high quality and accomplished in a professional manner so as to ensure a safe and functional apparatus.

**COMPLY**  **YES**  **NO**

**0.22** Manufacturer shall warrant new apparatus of its own manufacture against defective workmanship and materials for a period of at least two years from the date of delivery to the purchaser. A lifetime module body warranty shall be provided. Under this warranty, manufacturer's liability is limited to furnishing purchaser, without cost, parts and labor required to replace defective material or workmanship when there is no indication of misuse, neglect, improper maintenance, accident, or overloading the apparatus. Defects shall be reported to seller in writing by the purchaser within the warranty period. Parts and labor will be supplied after inspection by an authorized agent of the manufacturer. Defective parts shall be returned prepaid by purchaser to seller when requested. Warranty shall begin upon acceptance of the manufactured apparatus by the purchaser. All warranties included with this proposal shall be provided by the respective manufacturer and included with bid proposal.

**COMPLY**  **YES**  **NO**

**0.23** In the event the unit fails to meet the specified requirements, the purchaser has thirty (30) days to notify the contractor in writing of corrections required. Failure to make such changes as the purchaser may consider necessary to conform to any clause of the specifications, within thirty days of notification, shall be cause for rejection of the unit.

**COMPLY**  **YES**  **NO**

**0.24** All bidders shall provide bid security in the amount of ten percent (10%) of the total bid price, payable by bidder to the purchaser. Such security may be in the form of a bid bond in form and from a surety company reasonably acceptable to purchaser, a cashier's check, or other security acceptable to purchaser. Bonds which do not show the bidder as "principal" shall be rejected as unenforceable and bid deemed non-responsive. In case of failure or refusal of the successful bidder to enter into a contract, the bid security submitted with the bid may be forfeited as liquidated damages because of such a failure.

**COMPLY**  **YES**  **NO**

**0.25** The successful bidder may be required to execute and deliver to the purchaser a Performance Bond in the amount of 100% of the contract price, in form and from a surety company reasonably acceptable to purchaser. The bond shall show the bidder as the “principal” and provide for a 100% guarantee that the bidder will deliver the apparatus and equipment per the bid specifications. The bond shall extend to the warranty provided by the bidder/manufacturer for one (1) year past delivery date, beyond which time the bidder/manufacturer will maintain continued responsibility for the remaining term of the warranties. Bidder shall state cost of such bond on price sheet. Requested bonds will only be acceptable if the bidder is listed as the principal on the bonds. Bonds from manufacturers will not be acceptable unless they are the bidder and will be a party to the contract.

**COMPLY**  **YES**  **NO**

**0.26** Bidder shall provide a **pre-build meeting and a final inspection meeting** at the manufacturing facility. If the bidder is not in the full-time employment of the company who will manufacture the vehicle, he is required to attend both of these meetings. Bidder shall be responsible for the following expenses, to include airfare, ground transportation from airport to plant and return, meals and lodging if necessary. **Pre-build meeting shall be for one (1) person from purchaser. Final Inspection meeting shall be for two (2) people from the purchaser.**

**COMPLY**  **YES**  **NO**

**0.27** As this agency expects to remount this vehicle at some future date bidder shall supply a copy of the manufacturer’s current remount warranty with the bid. If the manufacturer does not provide remount services bidder shall provide the name, address, phone, and history of the company who does provide the remount services, a current copy of their remount warranty and \$5,000,000 product liability insurance policy.

**COMPLY**  **YES**  **NO**

**0.28** **FORCE MAJEURE**

The seller shall not be charged with liquidated damages or any excess cost when delay in delivery of goods is due to:

1. Any preference, priority of allocation order duly issued by the Government;
2. Unforeseeable cause beyond the control and without the fault, or negligence of the Seller, including but not restricted to, acts of God, or of the public enemy, acts of the Buyer, acts of another Contractor in the performance of a contract with the Buyer, fire, flood, epidemics, quarantine restrictions, strikes, freight embargoes, and unusually severe weather; and
3. Any delays of subcontractors occasioned by any of the causes specified in the two immediately preceding clauses.

Provided that the Seller shall, within seven (7) days from the beginning of such delay, notify the Buyer, in writing, of the causes of the delay whereupon the Buyer shall ascertain the facts and extent of the delay and notify the Seller within a reasonable time of its decision in the matter.

**COMPLY**  **YES**  **NO**

**0.29**

**INTER-LOCAL AGREEMENT**

Pursuant to Revised Code of the Washington (RCW) 39.34.030(5), any public agency or agencies in Washington may purchase or otherwise utilize this contract provided the public agency or agencies that awarded the original contract complied with all statutory notice and contracting requirements.

Public or purchasing agencies from Oregon and Washington may utilize this contract for interstate cooperative procurements, according to the requirements of ORS 279a.220 and RCW 39.34.

<b>COMPLY</b>	<b>YES</b>	<b>NO</b>
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*This bid shall remain open to additional purchases (Interlocal, Tag-On, Piggy Back) by this or other agencies for a period of three (3) years, with periodic cost adjustments based on actual manufacturer's price increases.*

**INVESTMENT:**

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Year \_\_\_\_\_ Make \_\_\_\_\_ Model \_\_\_\_\_ Price \_\_\_\_\_  
Sales Tax \_\_\_\_\_  
Total \_\_\_\_\_

Payment Terms: The above vehicle price shall be based upon a 90% payment being made upon receipt of vehicle with the balance due in 30 days.

Drive out allowance included in above price \_\_\_\_\_

Pre-Build/ Inspection visit allowance  
*(One (1) Person for Pre-Build; two (2) People for Final Inspection)* \_\_\_\_\_

100% Performance Bond – *If required ADD* \_\_\_\_\_

The price quoted above shall remain firm until \_\_\_\_\_

Delivery: Calendar days after receipt of order \_\_\_\_\_

**Bidder** \_\_\_\_\_

**Signed** \_\_\_\_\_

**Address** \_\_\_\_\_

**Phone** \_\_\_\_\_

**Motor Vehicle Dealer License: State** \_\_\_\_\_ **#** \_\_\_\_\_

*This bid shall remain open to additional purchases (Interlocal, Tag-On, Piggy Back) by this or other agencies for a period of three (3) years, with periodic cost adjustments based on actual manufacturer's price increases.*



**MANUFACTURER'S  
DETAILED SPECIFICATIONS  
FOR  
TETON COUNTY AMBULANCE SERVICE  
DRIGGS, IDAHO**

**1 CHASSIS**

**1.01 OEM CHASSIS**

- 2019 Ford F-450 SuperCab, 4 x 4, meeting all the specifications of Section 1.01.
  - Ambulance Prep. Package
  - EPA Special Emergency Vehicle Emissions
  - 3 year/36,000 mile "Bumper to Bumper" warranty
  - Dual Rear Wheels

**COMPLY**    **YES**     **NO**

**1.01.01 SPECIFIC RATINGS**

- Drive – 4 x 4
- G.V.W.R. – 16,500 lbs.
- Front Axle – 7,000 lbs.
- Rear Axle – 12,000 lbs.
- Wheelbase – 192"
- Cab to Axle – 84"
- Curb Weight – 11,500 lbs. Approximate
- Front Spring Capacity – 7,000 lbs.
- Rear Spring Capacity – 12,000 lbs.
- Rear Differential – 4.10 ratio, limited slip wide track rear axle

**COMPLY**    **YES**     **NO**

**1.01.02 POWER TRAIN**

- Engine
  - 6.7L 4V Power Stroke V8 turbo diesel B20
  - Diesel Emission Fluid (DEF) system
  - 5 year/100,000 mile warranty
  - External oil cooler
  - Factory diesel package
  - 1,000 watt engine block heater
  - Heavy duty dry type air cleaner with flow restriction indicator
- Engine Cooling System
  - Heavy duty, closed-air, free-liquid state type
  - Coolant recovery system
  - 50/50 solution Permanent type antifreeze to –40 degrees F
- Transmission
  - TorqShift 6-speed automatic overdrive transmission
  - Tow/Haul Mode with Integrated Exhaust Brake
  - External oil cooler in chassis grille area
  - Electronic Shift on the Fly with auto-locking wheel hubs

**COMPLY**    **YES**     **NO**

- Exhaust System
  - System complies with Federal Motor Carrier Safety Regulations, Part 393.83
  - Suspended using three (3) hangers, excluding manifold attachment
  - Discharge at right rear side of module
  - Tailpipe shall not terminate within twelve inches of the vertical axis of the fuel tank filler opening.

**COMPLY**    **YES**    **NO**

**1.01.03      STEERING**

- Power-assisted tilt steering wheel

**COMPLY**    **YES**    **NO**

**1.01.04      SHOCK ABSORBERS/STABILIZER BARS**

- Heavy-duty shock absorbers front and rear
- OEM front and rear stabilizer bars

**COMPLY**    **YES**    **NO**

**1.01.05      BRAKES**

- Heavy duty power-assisted four wheel ABS; front and rear disc
- Front 14.53" diameter; Rear 15.35" diameter
- Trailer Brake Controller

**COMPLY**    **YES**    **NO**

**1.01.06      TIRES AND WHEELS**

- Seven OEM LT 225-70R-19.5G all-season steel belted radials
- Seven OEM 19.5" steel wheels
- OEM jack and tire changing tools
- Spare tire and wheel shipped loose

**COMPLY**    **YES**    **NO**

**1.01.07      ELECTRICAL**

- Alternators – OEM Dual rated at 377 Amps total
- Batteries – OEM Dual 750 CCA each
- Stationary Elevated Idle Control

**COMPLY**    **YES**    **NO**

**1.01.08      INSTRUMENT PANEL AND CONTROLS**

- Gauges
  - Tachometer
  - Coolant Temperature
  - Transmission Fluid Temperature
  - Fuel
  - Speedometer
  - Indicator lights
  - Odometer/Trip Odometer
  - Turbocharger Boost
- Cruise Control
- Audio – OEM AM/FM/CD/SiriusXM radio with 6 month prepaid subscription
- SYNC 3 Voice-Activated communications and entertainment system with AppLink and instrument panel compass display
- 8" LCD productivity Screen in IP Cluster with Compass Display

- Two USB Ports
- Rearview Camera and Prep Kit (872)

<b>COMPLY</b>	<b>YES</b>	<b>NO</b>
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**1.01.09**

**CAB EXTERIOR** Trim Level – XLT

- Horn – OEM dual electric
- Windows – Tinted safety glass
- Windshield wipers – Two-speed electric, washer and intermittent speed control
- Mirrors
  - Two two black, below eye level, manually telescoping trailer tow
  - Power, heated glass, upper portion
  - Turn indicators and clearance lights on outside edge
  - Lower portion convex
- Bumper – Chrome
- Tow hooks – Two front
- Mud flaps – Two front
- Lights
  - Headlamps – Single beam jewel effect
  - Roof clearance light
  - Under hood service light
- Fuel – OEM 40 gallon tank

<b>COMPLY</b>	<b>YES</b>	<b>NO</b>
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**1.01.10**

**CAB INTERIOR**

- Trim Level – XLT
- Seats – OEM
  - Cloth 40/20/40
  - Combination lap and shoulder harness
  - Side door armrest
- Flooring – Black vinyl
- Climate control – OEM
  - Heavy duty, fresh air, high capacity heater/defroster
  - Dehumidifying air conditioning system
- Airbags
  - Driver and right-front passenger front
  - Front-seat side
  - Safety canopy system with roll-fold side curtain airbags
- Other
  - Padded sun visors, dash, and door panels
  - Molded cloth headliner
  - Reduced sound package
  - Dome light, with dual map lights
  - Auxiliary power point(s)
  - Interior hood release
  - Power door locks & windows
  - Remote keyless entry
  - Adjustable gas and brake pedals (option 62M)
- Communication
  - Install provided Motorola 700 and VHF radios

- Intercom System /Mobile radio interface-Friecom system,
  - 5100D Intercom
  - 2 UHW505 headsets
  - WB505R Base station
  - MR-52X radio cable interface

**COMPLY**    **YES**    **NO**

**1.01.11            COLORS**

- Exterior – Oxford White (Z1)
- Interior – Gray

**COMPLY**    **YES**    **NO**

**1.02                CHASSIS MODIFICATIONS**

The following modifications will be made to the chassis by Manufacturer.

**COMPLY**    **YES**    **NO**

**1.02.03A           SIMULATORS AND VALVE STEM EXTENDERS**

Stainless steel wheel simulators shall be installed on all outer wheels, with braided valve stem extenders on all four rear wheels.

**COMPLY**    **YES**    **NO**

**1.02.04            EXHAUST HEAT SHIELDS**

Shall be formed from 20 ga. galvanized steel sheets with stamped reinforcements and formed edges. Access openings shall be provided for shock absorber, mounting bolts, etc. Heat shields shall be bolted to chassis frame and extend from back of cab to the frame cross member just behind the rear axle.

**COMPLY**    **YES**    **NO**

**1.02.05            RUNNING BOARDS**

Running boards made of 0.125" bright aluminum diamond plate with aluminum Grip Strut insert on the step surface shall be securely mounted on both sides of the chassis with OEM fasteners.

**COMPLY**    **YES**    **NO**

**1.02.08            RECOVERY EYES**

Two rear recovery eyes, rated at 10,000 lbs. per pair, shall be installed in 6.75"W x 6.75"H x 4.375"D recessed pockets. Eyes shall be 1.8125" ID, bolted to frame. These eyes shall not be used for towing or lifting of emergency vehicle.

**COMPLY**    **YES**    **NO**

**1.02.09            MUD FLAPS**

Mud flaps shall be installed behind each rear wheel.

**COMPLY**    **YES**    **NO**

**1.02.14            SUSPENSION**

The OEM rear stabilizer bar shall be removed and a LiquidSpring suspension system shall be installed, with a kneeling feature to activate when the rear streetside patient compartment entrance door opens within 60 minutes of the chassis ignition being turned off. An override switch shall be provided on the curbside rear wall, accessible from rear curbside door. The LiquidSpring control panel shall be installed on the chassis dash to the left of the steering wheel.

**COMPLY** **YES** **NO**

**1.02.55X MISCELLANEOUS ELECTRICAL**

The OEM "Lock/Auto-lock" function shall be disabled.

**COMPLY** **YES** **NO**

**1.02.60 CAB CONDUIT**

A 5.5" conduit shall be installed between the cab and module located behind the driver's seat. The driver's console harness shall be routed through the conduit.

**COMPLY** **YES** **NO**

**1.03 MODULE-TO-CHASSIS MOUNTING SYSTEM**

**1.03.01 MODULE MOUNTING SYSTEM**

The module shall be bolted to the chassis frame in no fewer than twelve locations. Each mounting location shall include a hard rubber isolation pad between the chassis frame and the module lateral. The rearmost lateral(s) shall be connected to the frame extensions with 5/8" grade 8 bolts. All remaining laterals shall be connected with vertical 3/4" grade B7 eye bolts fastened to the frame rails with horizontal 3/4" grade 8 hex bolts. All bolts shall be secured with locking nuts.

**COMPLY** **YES** **NO**

**1.03.02 CAB-TO-MODULE ATTACHMENT**

The module shall be connected to the cab with a flexible watertight boot to allow cab-body flex as designed by the chassis manufacturer. The chassis rear window shall be replaced by an aluminum insert covered with black-painted polyurea thermoplastic elastomer, with a 16"H x 16"W opening (3.04.01 related).

**COMPLY** **YES** **NO**

## 2 MODULAR CONSTRUCTION

All material utilized shall be of the correct type, alloy, and thickness to withstand the intended usage and provide protection against cracking, corrosion, or metal fatigue. All materials utilized shall be of open stock origin, commonly available through local sources, for rapid and economical repair or modification of the body. Any use of proprietary parts or materials in the construction of the body is unacceptable, due to potential delays or difficulties in future repairs or service. **NO EXCEPTIONS TO BE TAKEN IN THIS AREA.** This specification has been designed and written to fill specific needs of this agency. Where brand name, make, or model of equipment has been specified, no exceptions will be allowed. Where compartment and cabinet sizes have been specified, bidder must bid substantially (plus or minus 1") the size specified.

The module shall have a transferable lifetime structural warranty.

**COMPLY      YES      NO**

### 2.01

#### **MATERIAL**

<u>EXTRUSIONS</u>	<u>SIZE</u>	<u>ALLOY</u>
Structural Tubing	1" x 2" x 0.125" sq.	6063-T52
Structural Tubing	2" x 2" x 0.125" sq.	6063-T52
Cross Members	3" x 3" x 0.375"	6061-T6
Cross Members	1.5" x 3" x 0.25"	6061-T6

<u>FORMED SHEETING</u>	<u>SIZE</u>	<u>ALLOY</u>
Skin/Roof/Compartments/Subfloors/Doors	0.125"	5052-H32
Interior Cabinets	0.090"	5052-H32
Diamond Plate	0.125"/0.08"	3003-H32
Stainless Steel	16 ga., 20 ga.	304 # 4B

**COMPLY      YES      NO**

### 2.02

#### **MODULE DIMENSIONS**

Overall Vehicle Dimensions (Specifications are listed as minimums.)

Length	25 '      2.5 "	302.50 "
Width (excluding mirrors)	8 '      0 "	96.00 "
Height (Approximate)	9 '      2.31 "	110.31 "

Exterior Module Dimensions (Specifications are listed as minimums.)

Length	12 '      9 "	153.00 "
Width	8 '      0 "	96.00 "
Height	7 '      4.375 "	88.38 "

Interior Dimensions (Specifications are listed as minimums.)

Length	Forward Wall to Rear Wall	146.00 "
Width	Left Wall to Right Wall	91.00 "
Floor Width	Left Cabinets to Squad Bench	50.25 "
Height	Floor to Ceiling	72.00 "

Load Height (Approximate)		37.75 "
	With suspension dumped	33.00 "

**COMPLY      YES      NO**

**2.03**

**STRUCTURAL FRAMING**

Side wall and rear wall construction shall consist of 2" x 2" x 0.125" aluminum square tubing extensions welded together with a maximum of 14" centers. 1" x 2" x 0.125" aluminum tubing may be utilized in addition to 2" x 2" tubing to accommodate custom compartment sizes. The bottom of the wall structure shall be sealed with a welded 2" x 2" tube, a 2" x 2" angle, or a 0.125" plate depending upon location. The wall structure shall be capped with a 2" x 4" x 0.125" header upon which a 2" x 2" x 0.125" roof structure is welded. This process provides a unitized roll cage structure for greater occupant safety. The front wall structure shall be constructed of formed aluminum channels to allow ample space for wiring raceways, heater hoses, and A/C hoses.

**COMPLY**  **YES**  **NO**

**2.04**

**FOUNDATION SYSTEM**

The foundation system shall consist of a 0.125" aluminum sheet subfloor with foundation members securely welded under the subfloor. Transverse members (laterals) shall consist of 3" x 3" x 0.375" structural angles. 0.25" x 1.5" aluminum stringers shall span longitudinally between the laterals.

**COMPLY**  **YES**  **NO**

**2.05**

**MODULE SEAMS**

All body and compartment seams at or below floor level shall be full-seam welded. The entire perimeter of the subfloor shall be completely sealed with a caulking material, creating a watertight, dust-free module environment.

**COMPLY**  **YES**  **NO**

**2.06.01**

**EXTERIOR SKIN**

A Norton NORBOND closed-cell, polyurethane foam tape with high-performance acrylic adhesive shall be utilized full length on all front and rear wall and roof frame members. A polyurethane adhesive sealant shall be applied to the edges of framing members that are bonded with NORBOND tape. An advanced two-part methacrylate structural adhesive shall be used to bond all side wall tubes to the exterior skin and door frames. The module shall be constructed utilizing full-size sheet construction to minimize body seams. There shall be no corner or mid-body seams.

**COMPLY**  **YES**  **NO**

**2.07A**

**MODULE ROOF**

In order to improve module strength and minimize exposed seams, the roof shall be seamed transversely, shall be crowned, shall have a 1.5" radius along the edges, and shall be welded to 2" x 4" wall header tubes 4.75" below the roof line. The roof shall be supported by positive contact between sidewall framing and roof framing. All seams on the roof surface shall be continuously welded and body-worked on the outside. In order to avoid the possibility of paint and/or weld cracking, no extrusions shall be used in the exterior construction of the roof or corners of the module. The module roof front and rear edges shall be constructed to allow mounting of a recessed lightbar.

A contoured, 3/8" aluminum plate, painted to match the module, shall be welded to the roof structure and project through the center of the roof to serve as anchorage for personal fall arrest equipment. The anchorage is designed and rated for a single person only.

**COMPLY**  **YES**  **NO**

**2.08X**

**MODULE EXTERIOR COMPARTMENTS**

All compartments are constructed from formed 0.125" aluminum and are securely welded to the subfloor and structural framing. A baffled drain hole shall be provided in all exterior compartment bottoms that extend below the floor line. All exterior adjustable shelves shall be mounted on heavy-duty aluminum adjustable track, which is securely welded to compartment interiors. Each shelf shall support at least 300 lbs. of equipment.

<b>COMPLY</b>	<b>YES</b>	<b>NO</b>
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**COMPARTMENT #1**

**Interior Dimensions** – 20"W x 70"H x 20"D

**Doorway Dimensions** – 20"W x 70"H

**Location** – Streetside, forward

**Shelving** – One adjustable full width

**Door(s)** – Single

**Light(s)** – One LED strip light

**Additional Instructions** – The 120VAC Power Box shall be installed in the forward wall in a close-out (Section 6.21X related).

This compartment shall have a welded bracket and three ratcheting straps with UHMW stiffeners set up for storage of an M-sized cylinder. A formed stainless-steel gasket cover shall be installed. A filtered vent shall be located on the forward wall of the compartment.

<b>COMPLY</b>	<b>YES</b>	<b>NO</b>
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**COMPARTMENT #2**

**Interior Dimensions** – 25"W x 35"H x 20"D

**Doorway Dimensions** – 28.5"W x 35"H

**Location** – Streetside, forward of wheel well

**Shelving** – Two adjustable

**Door(s)** – Single

**Light(s)** – One LED strip light on aft wall

**Additional Instructions** – A filtered vent shall be located on the aft wall of the compartment.

<b>COMPLY</b>	<b>YES</b>	<b>NO</b>
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**COMPARTMENT #3**

**Interior Dimensions** – 36"W x 48"H x 20"D

**Doorway Dimensions** – 36"W x 48"H

**Location** – Streetside, rear

**Shelving** – One Adjustable

**Door(s)** – Single

**Light(s)** – One LED strip light

**Additional Instructions** – A bracket and restraint strap shall be provided for a *customer-supplied-and-installed* Stryker #6252 stair chair , recessed into the door skin.

A filtered vent shall be added to the aft wall of the compartment.

<b>COMPLY</b>	<b>YES</b>	<b>NO</b>
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**COMPARTMENT #4**

**Interior Dimensions** – 15.5"W x 77"H x 20"D

**Doorway Dimensions** – 15.5"W x 70"H

**Location** – Curbside, rear

**Shelving** – None

**Door(s)** – Single

**Light(s)** – One LED strip light on forward wall

**Additional Instructions** – Two backboard restraining straps shall be installed in the aft portion. A formed stainless-steel gasket cover shall be installed so that backboards do not cut gasket material.

A filtered vent shall be added to the aft wall of the compartment.

**COMPLY**  **YES**  **NO**

**COMPARTMENT #5**

**Interior Dimensions** – 26"W x 25"H x 20"D

**Doorway Dimensions** – 24"W x 25"H

**Location** – Curbside, aft of wheel well

**Shelving** – One adjustable

**Door(s)** – Single

**Light(s)** – One LED strip light on forward wall

**Additional Instructions** – None

**COMPLY**  **YES**  **NO**

**COMPARTMENT #6**

**Interior Dimensions** – 22.75"W x 61.5"H x 29"D

**Doorway Dimensions** – 22.75"W x 61.5"H

**Location** – Curbside, forward

**Shelving** – See Interior Cabinet #19

**Door(s)** – Single

**Light(s)** – One LED strip light on forward wall

**Additional Instructions** – This compartment shall provide inside/outside access have a full width stainless steel threshold on the floor level shelf. The below floor area shall be for general storage.

**COMPLY**  **YES**  **NO**

**2.09 MODULE DOORS**

The doors shall be flangeless box-pan formed with a total thickness of 2".

**COMPLY**  **YES**  **NO**

**2.09.01 DOOR FRAME AND SEAL**

Each door frame shall have a flange for the installation of an air cell hollow core, 360-degree compression door seal. This seal creates watertight, dust-free compartment integrity. Door seal shall be knock-on type. Door frames shall be bonded to the adjacent tubes such that no exterior flange is required.

**COMPLY**  **YES**  **NO**

**2.09.02 DOOR HINGES**

Shall be full length, piano type, stainless steel hinges, 2.5" wide with a 0.25" pin. The hinges shall be attached with 12 x 3/4 stainless steel truss head screws spread 4" apart. All curbside and streetside doors shall be hinged on the forward sides. All rear doors shall be hinged on the outboard sides.

**COMPLY**  **YES**  **NO**

**2.09.03**

**DOOR LATCHES**

Exterior door handles shall be semi-flush, cast aluminum, Eberhard E Grabber model 21100. Passage doors shall have release handles on the inside of each door. All exterior doors shall have rotary latches and striker posts that meet FMVSS 206 requirements. Striker posts shall be adjustable and shall be secured with a nut from behind the door frame. The striker washer shall not be removed. Doors greater than 45" tall shall have double rotary latches activated by stainless steel rods. Once final adjustments have been made, threads shall have Loctite or equivalent applied. All double-door compartments shall have an exterior E Grabber handle and rotary latches on each door. Doors shall latch to doorframe-mounted striker posts only and not to one another. Curbside passage and rear curbside doors shall have interior handles with dual-point, rod-actuated, rotary latch systems that are lockable inside and out. All locks shall be keyed J236. Rear passage doors shall both have emergency release levers accessible from the inside of the module.

COMPLY	YES	NO
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**2.09.04**

**COMPARTMENT DOOR CONTROL**

A heavy-duty, double spring door control capable of holding the door open at approximately a 90-degree angle on any road surface shall be installed at the top of each compartment door, except for compartment #4 which shall have a 1" rubber bumper installed on the compartment door.

COMPLY	YES	NO
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**2.09.05**

**CURBSIDE DOOR CONTROL**

A heavy-duty, double spring door check capable of holding the door open at approximately a 90-degree angle on any road surface shall be installed at the top of the curbside passage door.

COMPLY	YES	NO
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**2.09.06**

**REAR DOOR CONTROL**

Rear door controls shall be two grabber-type hold-open devices with replaceable rubber catches.

COMPLY	YES	NO
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**2.09.07**

**COMPARTMENT DOOR SKINS**

Each compartment doorskin shall be made of 0.080" bright aluminum diamond plate, shall be removable, and have a latch service opening with a 2.25" x 4.5" black rubber plug for lubrication and service. Doorskins shall be secured with #8 pan head screws and Sikaflex. Red/white 1.5" conspicuity tape shall be installed on the outboard vertical edge of each door.

COMPLY	YES	NO
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**2.09.08**

**ENTRANCE DOOR SKINS**

Shall be high pressure laminate covered 0.090" aluminum plate with 20" stainless steel kick panels on the side door and 16" stainless steel kick panels on the rear doors. The door skins shall be removable to service door hardware. Red/white 1.5" conspicuity tape shall be installed on the top, bottom, and vertical edges of the side passage door and curbside rear door. The streetside rear door shall have tape on the top and bottom edges.

COMPLY	YES	NO
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**2.09.09A ENTRANCE DOORWAYS**

One curbside and two rear module entrance doors shall be provided. The curbside doorway dimensions shall be 31"W x 73.75"H. The rear doorway dimensions shall be 49.75"W x 66"H.

COMPLY	YES	NO
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**2.09.10 THRESHOLDS**

All compartment and module access doorframes shall have full width formed stainless steel threshold plates to protect the lower edge of frame.

COMPLY	YES	NO
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**2.10X MODULE INTERIOR CABINETS**

Shall be formed of 0.090" aluminum and shall be securely welded or mounted to the structural framing. All interior adjustable shelves shall be mounted on 1" wide aluminum track.

COMPLY	YES	NO
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**CABINET #1**

**Dimensions** – 40"W x 20.75"H x 15.75"D

**Location** – Streetside, upper forward

**Shelving** – Two adjustable

**Door(s)** – Sliding, clear 0.177" acrylic with felt-lined anodized aluminum track and full extruded aluminum door pulls

**Additional Instructions** – Cabinet shall be divided in the center by a vertical fixed divider with an adjustable shelf on both sides.

A 120VAC receptacle shall be installed on the back wall, forward section.

COMPLY	YES	NO
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**CABINET #2**

**Dimensions** – 25"W x 8"H x 9"D

**Location** – Streetside, above CPR seat between Cabinets #1 and 2

**Shelving** – None

**Door(s)** – Hinged clear polycarbonate with gas shock lift system and twist/slam latch and full extruded aluminum door pulls.

**Additional Instructions** – None.

COMPLY	YES	NO
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**CABINET #3**

**Dimensions** – 40"W x 20.75"H x 15.75"D

**Location** – Streetside, upper rear

**Shelving** – Two adjustable

**Door(s)** – Sliding, clear 0.177" acrylic with felt-lined anodized aluminum track and full extruded aluminum door pulls

**Additional Instructions** – Cabinet shall be divided in the center by a vertical fixed divider with an adjustable shelf on both sides.

COMPLY	YES	NO
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**CABINET #4**

**Dimensions** – 34"W x 11"H x 20"D

**Location** – Streetside, rear

**Shelving** – None

**Door(s)** – Sliding, clear 0.177" acrylic with felt-lined anodized aluminum track and full extruded aluminum door pulls

**Additional Instructions** – None.

<b>COMPLY</b>	<b>YES</b>	<b>NO</b>
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**CABINET #5 – Open Storage**

**Dimensions** – 17.75"W x 16.25"H x 20"D

**Location** – Streetside, aft of CPR seat

**Shelving** – None

**Door(s)** – None

**Additional Instructions** – A full depth countertop shall be one-piece 16 ga., 304 stainless steel with a 0.5" aluminum retaining lip.

A monitor restraint shall be installed on back wall.

One 120VAC receptacle shall be located on the back wall (towards the front).

<b>COMPLY</b>	<b>YES</b>	<b>NO</b>
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**CABINET #6 – Action Area**

**Dimensions** – 41"W x 24.75"H x 20"D

**Location** – Streetside

**Shelving** – None

**Door(s)** – None

**Additional Instructions** – It shall contain an oxygen outlet, vacuum connection, suction collector, analog vacuum pressure gauge, attendant control panel, digital thermostat, inverter status panel, 120VAC receptacle, 12VDC receptacle and a Blue Seal Dual USB port.

The entire action wall area shall be lighted utilizing a LED strip light with on/off switch in the attendant panel (Section 6.14X related).

An oxygen window shall be located on the forward wall (Section 5.29 Related).

A full depth countertop shall be located below the action wall. The countertop shall be one-piece 16 ga., 304 stainless steel with a 0.5" aluminum retaining lip.

A sharps and waste space (sized for a Becton-Dickinson, 8.2 Qt., sharps container and a 7 Qt. waste container) shall be located at the aft of the countertop. The sharps and waste shall be accessible and changeable thru a hinged painted aluminum flip up door. Door shall have an access opening centered over the sharps container (Section 5.26X related).

<b>COMPLY</b>	<b>YES</b>	<b>NO</b>
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**CABINET #7 – Radio Cabinet**

**Dimensions** – 8"W x 27.75"H x 19.5"D

**Location** – Front, behind attendant seat

**Shelving** – None

**Door(s)** – Aluminum, hinged door, and a quarter turn slotted latch.

**Additional Instructions** – This cabinet is intended for radio component storage and shall be supplied with access to electrical component panel. Antenna cables shall terminate in this cabinet.

Cabinet shall be vented by louvers in the upper and lower portion of the door.

<b>COMPLY</b>	<b>YES</b>	<b>NO</b>
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**CABINET #8 – Miscellaneous Storage**

**Dimensions** – 8"W x 25"H x 19.5"D

**Location** – Front, under Cabinet #6

**Shelving** – Two adjustable

**Door(s)** – None

**Additional Instructions** – Open storage for map books and miscellaneous.

<b>COMPLY</b>	<b>YES</b>	<b>NO</b>
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**CABINET #9 – Attendant Seat Cabinet**

**Dimensions** – 25"W x 8"H x 19.5"D

**Location** – Streetside, below Attendant Seat

**Shelving** – None

**Door(s)** – Painted aluminum, hinged door, and a quarter turn slotted latch.

**Additional Instructions** – An inverter shall be installed in this cabinet (Section 6.31X related). A 120VAC muffin fan shall be installed to provide ventilation for inverter.

Door shall be punched for ventilation.

<b>COMPLY</b>	<b>YES</b>	<b>NO</b>
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**CABINET #10 – CPR Seat with Storage**

**Dimensions** – Bench: 25"W x 18.75"H x 20"D

Storage: 25"W x 7.625"H x 20"D

**Location** – Streetside

**Shelving** – None

**Door(s)** – Hinged aluminum bench lid, with high-density foam padding covered with seamless vinyl shall provide access to the storage area. It shall have a 1.5" overhang, and an automatic hold-open device. The pad shall be removable.

**Additional Instructions** – The CPR seat back pads shall have high-density foam padding covered with seamless vinyl. One set of seatbelts shall be installed on the seat.

The CPR seat base to be formed from aluminum and securely anchored to sub-floor. The bottom and unfinished sides of the storage area shall be sprayed with textured gray polyurethane and painted white with gray splatter.

<b>COMPLY</b>	<b>YES</b>	<b>NO</b>
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**CABINET #11**

**Dimensions** – 16.75"W x 12"H x 20"D

**Location** – Streetside, aft CPR seat

**Shelving** – None

**Door(s)** – Sliding, clear 0.177" acrylic with felt-lined anodized aluminum track and fully-extruded aluminum door pulls

**Additional Instructions** – An IV Warmer and surround shall be installed in this cabinet. A 120VAC receptacle shall be installed on the back wall, to supply power for the warmer (Sections 6.21X and 6.35X Related).

<b>COMPLY</b>	<b>YES</b>	<b>NO</b>
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**CABINET #12**

**Dimensions** – 16.75"W x 11"H x 20"D

**Location** – Streetside, aft CPR seat

**Shelving** – None

**Door(s)** – Sliding, clear 0.177" acrylic with felt-lined anodized aluminum track and full extruded aluminum door pulls

**Additional Instructions** – None.

<b>COMPLY</b>	<b>YES</b>	<b>NO</b>
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**CABINET #13**

**Dimensions** – 34.5"W x 10"H x 9"D

**Location** – Curbside, upper rear

**Shelving** – None

**Door(s)** – Sliding, clear 0.177" acrylic with felt-lined anodized aluminum track and full extruded aluminum door pulls

**Additional Instructions** – None.

<b>COMPLY</b>	<b>YES</b>	<b>NO</b>
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**CABINET #14**

**Dimensions** – 34.5"W x 10"H x 9"D

**Location** – Curbside, upper forward

**Shelving** – None

**Door(s)** – Sliding, clear 0.177" acrylic with felt-lined anodized aluminum track and full extruded aluminum door pulls

**Additional Instructions** – None.

<b>COMPLY</b>	<b>YES</b>	<b>NO</b>
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**CABINET #15 – Glove Storage**

**Dimensions** – 27.25"W x 6.75"H x 4"D

**Location** – Curbside, above passage door

**Shelving** – None

**Door(s)** – Hinged, painted aluminum, swing down door with a twist/slam latch

**Additional Instructions** – The cabinet shall be set up as storage for three glove boxes (Section 5.32 related).

<b>COMPLY</b>	<b>YES</b>	<b>NO</b>
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**CABINET #16 – Oxygen Cylinder Storage**

**Dimensions** – 13"W x 25"H x 5.5"D

**Location** – Curbside, aisle side of right front stack

**Shelving** – None

**Door(s)** – Hinged painted aluminum with Southco latch.

**Additional Instructions** – Shall be for storage of two "D" cylinders. A nylon travel-stop strap shall be installed on door.

<b>COMPLY</b>	<b>YES</b>	<b>NO</b>
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**CABINET #17 – Squad Bench with Storage**

**Dimensions** – Bench: 72"W x 18.75"H x 20"D  
Storage: 45.75"W x 7.625"H x 20"D

**Location** – Curbside

**Shelving** – None

**Door(s)** – Hinged aluminum split lid bench, with high-density foam padding covered with seamless vinyl shall provide access to the storage area. It shall have a 1.5" overhang, and an automatic hold-open device.

The forward lid shall provide access to the storage area. The aft lid shall be fixed. The pads shall be removable.

**Additional Instructions** – The squad bench back and/or head pads shall have high-density foam padding covered with seamless vinyl. Three sets of seatbelts shall be installed on the bench and set up for use with sit-up or stretcher patients.

The squad bench base to be formed from aluminum and securely anchored to sub-floor. The bottom and unfinished sides of the storage area shall be sprayed with textured gray polyurethane and painted white with gray splatter.

An Oxygen outlet, electric step override switch, and a fifteen-minute rotary timer shall be installed on the curbside wall over the bench, forward. A sliding window shall be installed above the bench back pad (Section 4.08X related). A sharps and waste space (sized for a Becton-Dickinson, 8.2 Qt., sharps container and a 7 Qt. waste container) shall be located at the forward part of the squad bench next to passenger door. The sharps and waste shall be accessible and changeable thru a hinged painted aluminum flip up door. Door shall have an access opening centered over the sharps container (Section 5.26X related).

**COMPLY**  **YES**  **NO**

**CABINET #18 – HVAC**

**Dimensions** – 34.75"W x 16.5"H x 24.875"D

**Location** – Front, right upper

**Shelving** – None

**Door(s)** – None

**Additional Instructions** – This cabinet shall house the heater/AC unit and the suction pump.

**COMPLY**  **YES**  **NO**

**CABINET #19 – Electrical Cabinet**

**Dimensions** – 32"W x 13.25"H x 10"D

**Location** – Front, center over walk-thru

**Shelving** – None

**Door(s)** – Aluminum, hinged, swing up door with a hold-open device, a quarter turn slotted latch, and an automatic compartment light.

**Additional Instructions** – This cabinet shall house the electrical component module.

**COMPLY**  **YES**  **NO**

**CABINET #20 – Custom Drawer**

**Dimensions** – 26.125"W x 5"H x 19"D

**Location** – Front, right center

**Additional Instructions** – The 25.75"W x 5"H x 19"D custom drawer shall be of formed aluminum, painted to match module interior. The drawer shall operate on 18" slides rated at 300 lbs. per set and have a gas shock hold open/closed device to ensure drawer does not accidentally open or close during operation of the vehicle. Drawers shall be formed of 16 ga. aluminum-welded construction with formed structural supports on the sides and front

of drawer. Drawer shall have machine-stamped divider supports along the side for at least four provided dividers. A strip of red/white conspicuity tape shall be installed along outermost side of drawer so that is visible from doorway when drawer is extended.

**COMPLY**  **YES**  **NO**

**CABINET #21 – Inside/Outside Access**

**Dimensions** – 28.5"W x 46.75"H x 24.875"D

**Location** – Front, right lower

**Shelving** – Two adjustable, with 1" x 1" lip down facing doorway

**Door(s)** – None

**Additional Instructions** – This cabinet shall be accessible from the outside via exterior Compartment #6.

Three 120VAC receptacle shall be installed in this cabinet.

The HVAC shall be distributed thru a vertical plenum on the aisle side of the right front stack.

**COMPLY**  **YES**  **NO**

**2.11A SIDE DOORSTEP**

A recessed curbside side doorstep shall be provided which is 11.5" deep x 31" wide. There shall be a drain hole and an open grate step plate, which is removable for cleaning purposes. Polished aluminum diamond plate kick panel will be installed on the sides and face of doorstep.

**COMPLY**  **YES**  **NO**

**2.13A CAB TO MODULE PASSAGE**

Shall be a pass-thru measuring 17" W x 17"H.

**COMPLY**  **YES**  **NO**

**2.14 WHEEL WELL LINERS**

Shall be installed in the wheel wells over the rear wheels. The liners shall be formed aluminum.

**COMPLY**  **YES**  **NO**



### 3 COATINGS AND FINISHES

#### 3.01 MODULE FINISH PREPARATION

The module shall be seam sealed and all imperfections on aluminum surfaces of module shall be sanded smooth. The entire exterior shall be mechanically etched and washed with wax and grease remover to ensure proper primer and paint adhesion.

**COMPLY**  **YES**  **NO**

#### 3.02 MODULE PRIMER

Module shall be primed with urethane primer prior to applying the finish coat of acrylic urethane paint.

**COMPLY**  **YES**  **NO**

#### 3.03 PAINT TYPE

Shall be Sherwin Williams acrylic urethane.

**COMPLY**  **YES**  **NO**

#### 3.04X COLOR SCHEME

Base color: Oxford White (SW #GLV-100199832)

**COMPLY**  **YES**  **NO**

**Stripe #1**      Color:            Lime Yellow #SY1060  
                         Width:            39"H (approximate to top of compartment #2 doorway)  
                         Style:            Upward 'swoop' from chassis/cab to module, beltline  
                         Material:        Paint  
                         Location:        Chassis, module sides and rear doors

**COMPLY**  **YES**  **NO**

**Stripe #2**      Color:            Black Scotchlite  
                         Width:            0.25"H Pinstripe  
                         Location:        Chassis, module sides and rear doors, along paint break line.

**COMPLY**  **YES**  **NO**

**Stripe #3**      Color:            Red #82 and Lemon Yellow #81  
                         Width:            6"  
                         Style:            Diagonal stripes alternating between the two colors  
                         Material:        (3M) Scotchlite  
                         Location:        Rear of module, *excluding rear door and header.*  
                         *Chevrons stop short of radius*

**COMPLY**  **YES**  **NO**

#### 3.04.01X CHASSIS COLOR SCHEME

Chassis shall be OEM Oxford White (F1) (Section 1.01.11 related).

**COMPLY**  **YES**  **NO**

**Stripe #1**      Color:            Lime Yellow #SY1060  
                         Material:        Paint  
                         Location:        Chassis, along fender line, to cab doors (below windows), down to bottom of cab, including door jambs.

**COMPLY**  **YES**  **NO**

**Stripe #2**      Color:            Black Scotchlite  
                          Width:            0.25"H Pinstripe  
                          Location:        Chassis, above stripe #1, at paint break line.

**COMPLY**    **YES**    **NO**

**3.06            COMPARTMENT FINISH**

All compartments shall be sanded, etched, washed, primed, coated with textured polyurethane finish, and painted white with light gray splatter paint (GLV-33631 Alt 2 / GLV-51748).  
 All shelves and trays shall be sanded, etched, washed, primed, and painted white with light gray splatter paint (G8-33631 Alt 2 / G8-51748).

**COMPLY**    **YES**    **NO**

**3.07X          INTERIOR CABINERY FINISH**

All interior cabinetry shall be sanded, etched, washed, primed, coated with textured polyurethane finish, and painted white with light gray splatter paint (GLV-33631 Alt 2 / GLV-51748).  
 All shelves and trays shall be sanded, etched, washed, primed, and painted white with light gray splatter paint (G8-33631 Alt 2 / G8-51748).

**COMPLY**    **YES**    **NO**

**3.08            MODULE UPHOLSTERY**

Shall be Spradling Perform 60 vinyl, Dove Gray, and be seamless.

**COMPLY**    **YES**    **NO**

**3.09            MODULE FLOORING MATERIAL**

Shall be Genome (#TFM2702) Altro Transflor Meta Slip-Retardant Sheet flooring providing durability, ease of maintenance, and stain resistance. It shall contain a high concentration of microscopic aluminum oxide particles and colored quartz crystals suspended throughout the thickness with silicon carbide grains in the entire wear surface for slip-retardant performance. It shall have a bacteriostat incorporated to give flooring excellent anti-bacterial activity and an overall thickness of 0.11" nominal. Flooring shall be manufactured for Wear Resistance to meet ASTM C 501, indentation resistance in accordance with ASTM F 1303 and ASTM F 970, Grade 1 standards, shall meet ASTM D 2047 Slip Retardant, ASTM F 970 Static Load, ASTM E648, CMVSS, FMVSS 302, CAN ULC S102.2 Fire Data Tests.  
 It shall be seamless and cove up the sidewalls a minimum of 5" on the streetside and up the entire face of the curbside squad bench as a seal.  
 An insulated floor shall be installed over the subfloor. It shall be constructed with square tubing (0.75" x 0.75" x 0.063"), filled with 0.75" thick polyiso foam insulation, and covered with 0.125" aluminum sheet (Section 2.04 related).

**COMPLY**    **YES**    **NO**

**3.10            COMPARTMENT LINING**

Compartment floors shall be lined with light gray Matéflex material and all shelves with easy sweep mat.

**COMPLY**    **YES**    **NO**

**3.11            CABINET LINING**

Interior cabinet shelves shall be lined with easy sweep mats, which are removable for ease of cleaning.

**COMPLY**    **YES**    **NO**

**3.12**

**SURFACES AND FINISHES**

All surfaces and finishes shall be impervious to soap, disinfectants, and water, to permit washing and sanitizing.

<b>COMPLY</b>	<b>YES</b>	<b>NO</b>
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**3.13**

**AUTOMOTIVE UNDERCOATING SEAL**

The module underbody (excluding the area above the fuel tank, driveline, and exhaust lines, per manufacturer's specifications) shall be sprayed with undercoating for reduced corrosion and added sound deadening.

<b>COMPLY</b>	<b>YES</b>	<b>NO</b>
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## **4** **MODULE EXTERIOR**

### **4.01A STEP/BUMPER**

Shall be a welded construction of 3" x 3" x 0.375" aluminum angle and 2" x 0.250" plate and shall be covered by 0.125" bright aluminum diamond plate. The entire top shall be non-skid Grip Strut and provide a 7" step. Both outermost ends shall be angled to prevent dragging of corners in high angle of approach/departure areas. Diamond plate shall be formed on front and rear edges for channel type strength and formed 0.090" aluminum close out shall be welded to the underside of the step/bumper. The bumper shall be bolted directly to the chassis frame using high strength Grade 5 bolts. Bumper shall be easily removable and replaceable in case of damage. Step/bumper designed to accommodate a "one-person style" cot.

**COMPLY** **YES** **NO**

### **4.02X RUB RAILS**

Bright finished extruded aluminum rub rails of a double channel design shall be installed along the lower streetside and curbside edges of the module. A black Scotchlite reflective tape shall be installed in the insert area of the rub rail.

**COMPLY** **YES** **NO**

### **4.03 FENDER RINGS**

Bright polished aluminum fender rings with a rounded outer edge shall be installed on the module, following the full contour of the wheel well opening.

**COMPLY** **YES** **NO**

### **4.04 DRIP RAIL**

Extruded, anodized aluminum drip rails shall be installed the full length of the module front, rear, and sides near the roof, and over each exterior compartment and passage door. Drip rails shall be installed with bonding tape and mechanical fasteners on each end that shall withstand exposure to the elements. They shall be finished with 45-degree angled ends to avoid hooking materials which brush against the vehicle causing damage.

**COMPLY** **YES** **NO**

### **4.05 ROCK GUARDS**

Bright aluminum diamond plate rock guards shall cover the front module corners, 24" up from bottom of module, 2.5" wrapped around the sides of module, and 15" across the front of the module.

**COMPLY** **YES** **NO**

### **4.06 REAR KICK PANEL**

A bright aluminum diamond plate rear kick panel shall extend from the bottom edge of the module up to the bottom of the rear doors, full-width formed and wrapped 2.5" around the sides of the module.

**COMPLY** **YES** **NO**

### **4.07 FUEL FILL**

A polished cast aluminum fill well shall be installed on the streetside of the module and be properly vented. All fuel filler hoses shall be protected with a 0.125" aluminum protection plate. Fuel fills shall be installed in accordance with Body Builder's recommendation. A fill shall be provided for the DEF tank, between the cab and module, streetside.

**COMPLY** **YES** **NO**

**4.08A**

**MODULE WINDOWS**

All module windows shall have black anodized aluminum frames, rubber gaskets, be dark-tinted and shall be attached with screws for ease of replacement. The side passage door window shall be 18.75" x 18.75" with sliding glass, a positive catch, and a screen. The rear door windows shall be 18.75" x 18.75" fixed glass to prevent exhaust from entering the module.

The curbside module window shall be 18.75" x 37.5" with sliding glass, a positive catch, and a screen. It shall be installed above the curbside bench seat.

<b>COMPLY</b>	<b>YES</b>	<b>NO</b>
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**4.09A**

**FUEL SPLASH GUARD**

A stainless-steel fuel splash guard shall be installed below the fuel fill.

<b>COMPLY</b>	<b>YES</b>	<b>NO</b>
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**4.16**

**LICENSE PLATE HOLDER**

A recessed license plate holder with dual incandescent lights shall be installed below rear doors.

<b>COMPLY</b>	<b>YES</b>	<b>NO</b>
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**4.17B**

**ELECTRIC STEP**

A Zico VS-24-11 single electric step with a 10.5" drop shall be installed under the curbside passage door and shall be wired to extend and retract with the door. An override switch labeled "AUTO/OFF" shall be installed inside the module, just aft of the curbside door to disable automatic operation.

<b>COMPLY</b>	<b>YES</b>	<b>NO</b>
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**5** **MODULE INTERIOR**

All interior hangers, supports, fasteners, latches, and hinges shall be of a near flush type design when not in use. The patient compartment shall be free of sharp projections. Exposed edges and corners shall be broken with a radius, chamfer, or covered with aluminum trim, plastic molding, or rubber edging.

**COMPLY**  **YES**  **NO**

**5.01** **UPPER WALL COVERING**

The upper module interior walls shall consist of light gray, heavy-grade, 0.125" ABS vinyl panels attached to the wall structure with a closed-cell polyethylene foam tape coated on both sides with a permanent acrylic-based pressure-sensitive adhesive.

**COMPLY**  **YES**  **NO**

**5.02** **HEADLINER**

Shall be a durable fiber-reinforced panel, 0.09" thick, with a textured, non-porous white surface.

**COMPLY**  **YES**  **NO**

**5.03** **HEAD PADS/CUSHIONS**

Head pads located over all module access openings and seat backs shall be 1" high-density foam covered with heavy-duty vinyl matching upholstery.  
Seat cushions shall be 3" high-density foam covered with heavy-duty vinyl matching upholstery (Section 3.08 related).

**COMPLY**  **YES**  **NO**

**5.04** **LOWER WALL COVERING**

The squad bench sides and lower portion of the streetside wall shall be nonporous, color-coordinated material.

**COMPLY**  **YES**  **NO**

**5.05A** **GRAB RAIL**

One 75" long x 1.250" diameter stainless steel grab rail with three support brackets shall be securely mounted to roof structural framing running through centerline.

**COMPLY**  **YES**  **NO**

**5.06** **ACCESS DOOR GRAB RAILS**

Each module access door shall have a 1.250"D L-style stainless steel grab handle which may also be used as an entry assist rail.

**COMPLY**  **YES**  **NO**

**5.07B** **IV HANGERS**

Two retractable dual IV hangers with stabilizers shall be near flush mounted in the ceiling over the primary cot.

**COMPLY**  **YES**  **NO**

**5.08X**

**COT MOUNT**

A Stryker Model 6370 center mount cot fastener shall be installed. A safety hook shall be installed.

Provisions shall be made for future customer purchase and installation of a Stryker Power-LOAD or Performance-LOAD cot fastener.

Provisions shall include:

- Installation of a 20 amp breaker and 10 ga. 12VDC power and ground, running from the electrical cabinet to the frame rail, terminating in a 36" capped and coiled pigtail forward of the rear axle.
- Insulated floor tubes positioned to allow for a future 2.5"-wide slot for the Power-LOAD floor plate.
- 3/8" reinforcing plates installed beneath each of the five attachment points for the Power-LOAD floor plate.

**COMPLY**    **YES**    **NO**

**5.10D**

**ATTENDANT SEAT**

A rear facing Wise #1615 high-back bucket seat with a built in child safety seat and upholstered with heavy grade vinyl shall be located at the head of the cot position and provide easy access to all action wall controls and outlets, and to the patient. Seat shall be securely anchored to an aluminum storage cabinet, with lap belt.

**COMPLY**    **YES**    **NO**

**5.11**

**OXYGEN SYSTEM**

The entire oxygen system to be assembled with certified Oxygen hose (1000 PSI burst strength) with brass fittings, pressure tested, and certified. Ohio outlets shall be installed in the following locations: one in Action Area, Cabinet #6, one in ceiling above primary patient, and one in the curbside wall above the squad bench.

A 50-PSI regulator and one OXYGEN tank wrench shall be included.

**COMPLY**    **YES**    **NO**

**5.12**

**SUCTION PUMP**

The unit shall have an electric pump as the source of suction, installed in HVAC cabinet, and be vented to the outside of the vehicle under the module body. The pump shall be controlled by an on/off switch labeled "ASPIRATOR" on the attendant panel in Action Area (#6).

**COMPLY**    **YES**    **NO**

**5.13A**

**SUCTION COLLECTOR**

A flush mount SSCOR #22000 suction regulator and #22002 stainless steel wall-mount bracket with a 1200cc disposable canister shall be installed in the Action Area #6. A switch labeled "ASPIRATOR" shall be installed in the streetside attendant panel (Section 6.13 related).

**COMPLY**    **YES**    **NO**

**5.14**

**SEATBELTS**

Black DOT-certified seatbelts shall be installed at each seating position. Three sets of two-point automatic locking retractor seatbelts shall be installed on the squad bench with three additional lower seatbelt buckle ends and be set up for use with sit-up or stretcher patients. The attendant seat and CPR seat shall each have a single two-point automatic locking retractor seatbelt.

**COMPLY**    **YES**    **NO**

5.16

**INSULATION**

The module side, ends, roof, doors, and floor shall be insulated to enhance the interior environment and to restrict heat, cold, and external noise from entering the module. The insulation shall be a non-settling foam plank material of 1.5", or 0.75" thickness depending upon location and available space.

Roof, doors, wall, and floor insulation shall be polyisocyanurate.

In addition, a closed-cell polyurethane tape with ultra-high-bond acrylic adhesive shall be utilized on the sidewalls and roof to provide a thermal and noise break between the outside skin and structural members. A 3" wide, 60-mil tape shall be used as a thermal break on the inside surface of the roof and wall tubes.

**COMPLY**  **YES**  **NO**

5.17X

**MODULE CLIMATE CONTROL SYSTEM**

Shall incorporate a combination heating/air conditioning unit with 36,000 BTU heating and 32,000 BTU cooling. The unit shall have a 580CFM fan and have controls independent of the cab system. The module system shall be controllable by a digital thermostat located on the action wall.

A 12VDC water pump shall be installed to increase the heating capacity and efficiency of the system.

The HVAC shall be routed through a vertical plenum on the aisle side of the right front stack. A wall port and heating hose for hypothermic patients shall be provided and installed below the HVCAC vents to provide direct heat to the patient.

**COMPLY**  **YES**  **NO**

5.18

**EXTERNAL AIR INTAKE**

To supplement heated or cooled air with fresh air, an external air intake shall be provided on the side of the module. The intake shall consist of an opening protected by an aluminum vent cover. The interior chamber of the intake shall be made of aluminum and formed to prevent the collection of moisture. Washable filter media shall be installed in the intake chamber.

**COMPLY**  **YES**  **NO**

5.19

**AIR RETURN**

A return air path with open area equal to at least twice the blower outlet area shall be incorporated into the evaporator closeout.

**COMPLY**  **YES**  **NO**

5.20

**EXHAUST VENT**

A motor-powered exhaust vent shall be located in the streetside rear corner of the module.

**COMPLY**  **YES**  **NO**

5.21

**NO SMOKING/FASTEN SEAT BELTS SIGNS**

Two NO SMOKING / FASTEN SEATBELTS signs shall be installed – one each for driver's area and module.

**COMPLY**  **YES**  **NO**

5.24A

**CLOCK**

An atomic-controlled clock shall be installed above the rear doors. The clock shall be LCD display and show hours (12/24 selectable), minutes, seconds, date, day, and temperature. Clock shall be powered by two AA alkaline batteries.

**COMPLY**  **YES**  **NO**



5.26X

**SHARPS/HAZARDOUS WASTE CONTAINER**

One Becton Dickinson 8.2 qt., sharps container and one 7 qt. waste container shall be installed under the aft end of action area (Cabinet #6) countertop.

**COMPLY**    **YES**    **NO**

5.29X

**OXYGEN WINDOW**

Shall be a clear, 6" x 10", acrylic window. The window shall be mounted with self-closing hinges, on the forward wall of action area, Cabinet #6. Window shall provide access to the oxygen cylinder regulator in Compartment #1.

**COMPLY**    **YES**    **NO**

5.32

**GLOVE BUTLERS**

Storage for three glove boxes shall be provided in Cabinet #15 above the curbside passage door.

**COMPLY**    **YES**    **NO**

5.34

**PERSONNEL RESTRAINT**

At the forward end of the curbside squad bench seat there shall be a net system installed to prevent a person seated on the bench seat from traveling forward off the seat and into the front cabinetry due to sudden braking. The net system shall be constructed of 2" webbing and shall be easily detached for cleaning or replacement.

**COMPLY**    **YES**    **NO**

## **6 ELECTRICAL**

All added body and chassis electrical equipment shall be served by circuits separate and distinct from the vehicle chassis circuits. All vehicle wiring shall be copper and conform to all SAE J1128 requirements. The wiring shall be colored, numbered, and function coded every 3" for permanent identification and correspond with the vehicle schematics. Solderless, insulated connectors shall be used. Slotted Panduit-style wiring duct shall be used in power component module to ensure air circulation throughout power component wiring. The wiring shall be routed in conduit or looms and wiring shall be secured to the underbody or frame with insulated metal cable straps. All power distribution cabling shall be covered with a protective split loom. The power component module shall be equipped with positive locking plugs to provide easy disconnect for remount or repair of body. All wiring devices, switches, outlets, etc., except circuit breakers, shall be rated to carry 125% of the maximum ampere load for which the circuit is protected.

**COMPLY**  **YES**  **NO**

### **6.01 OVERLOAD PROTECTION DEVICES**

Body electrical wiring shall utilize overload protective devices of the automotive type circuit breaker. In addition, one single pole, 20-amp circuit breaker shall be provided for future use. The circuit breakers, relays, and other electrical items shall be located in the enclosed power component module.

**COMPLY**  **YES**  **NO**

### **6.02 VOLTMETER/AMMETER**

Shall be a single digital display, located in the driver's console, which simultaneously displays voltage and alternator current when the ignition is on. Display flashes to indicate low voltage.

**COMPLY**  **YES**  **NO**

### **6.04 IGNITION CONTROL**

Chassis electrical circuits will be controlled by ignition switch as provided by the OEM chassis manufacturer. The auxiliary chassis related functions shall be powered by one 100-amp continuous duty solenoid (rear heater/air conditioner, siren, spotlight, etc.).

**COMPLY**  **YES**  **NO**

### **6.05A MODULE POWER**

A 200-amp power disconnect switch (CDR-357) shall provide module power. An ignition interlock will disconnect module power fifteen minutes after vehicle's ignition is turned off. The interlock shall also allow module power to be activated independently for fifteen minutes by cycling either the ignition switch or the module disconnect switch.

**COMPLY**  **YES**  **NO**

### **6.06 WIRING ACCESS**

All cabinets at ceiling level shall have removable backs, which are screwed in place for access to harnesses. Stack cabinets shall have removable panels for wiring and hose access.

**COMPLY**  **YES**  **NO**

### **6.07 BACK-UP ALARM**

Shall be installed and have a momentary disable switch in the driver's console. If disabled while in reverse, backup alarm shall automatically reset when shifted out of reverse. The alarm shall have a sound output level of 97dB.

**COMPLY**  **YES**  **NO**

**6.08 SERVICE LOOP**

A 6" service loop of wire or harness shall be provided at all electrical components, terminals, and connection points.

**COMPLY** YES NO

**6.09A DRIVER'S CONSOLE/MAP BOOK HOLDER**

A driver's console made of black-powder-coated formed aluminum shall be installed between the seats. It shall have a switch panel with the following layout, two cup holders, and a map holder with six mill-finished aluminum dividers. A map light shall be installed in the upper right corner (Section 6.11 related).

**COMPLY** YES NO

1.	Passage Compt. D/O Lights	2.	3.	Siren			
Module Disc.		Emerg. Master	Back-up Disable				

4.	5.	6.	7.	8.	9.	10.	Digital Meter
Lightbar Red	Lightbar White	Flashers	Blank	Blank	Blank	Switch insert USB	

11.	12.	13.	14.	15.	16.	17.	Blank
Left Scene	Rear Scene	Rear Scene	Blank	Spare	Blank	Blank	

**COMPLY** YES NO

**6.10 SWITCHES**

Switches installed in the driver's console and attendant panel shall be rocker-type and permanently marked by function.

**COMPLY** YES NO

**6.11 MAP LIGHT**

A map light with a 19" flexible neck shall be mounted on the right forward corner of the driver's console.

**COMPLY** YES NO

**6.12 DOOR AJAR WARNING LIGHT**

A flashing LED light with a red lens shall warn the driver of an open module passage door, and a flashing LED light with an amber lens shall warn the driver of an open module compartment door. The lights shall flash only if the ignition is on. Lights shall be installed on the driver's console.

**COMPLY** YES NO

**6.13 ATTENDANT CONTROL PANEL**

A six-switch attendant control panel shall be located on the streetside wall in the Action Area (#6) with the following switch layout:

- 1. Dome Hi-Off-Lo
- 2. Dome Hi-Off-Lo
- 3. Aspirator
- 4. Vent
- 5. Attendant Light
- 6. Blank

A digital thermostat and inverter status panel shall be located adjacent to the attendant control panel.

**COMPLY**    **YES**    **NO**

**6.14 ATTENDANT LIGHTING**

The wall area below Cabinet #1 shall be lighted utilizing under-cabinet LED strip lighting with an on/off switch labeled "ATTENDANT LIGHT" in the streetside attendant panel.

**COMPLY**    **YES**    **NO**

**6.15X STEP LIGHTS**

A Whelen LED light, model #0AC0EDCR shall be installed on the forward wall of the curbside door stepwell.

**COMPLY**    **YES**    **NO**

**6.16X MODULE INTERIOR LIGHTING**

Shall be designed to keep vehicle height to a minimum without interfering with the structural integrity of the roof. Module interior lighting shall consist of seven dual intensity #80C0EHCR LED recessed lights – one bank of four lights shall be positioned toward streetside and three lights toward curbside. There shall be a switch for each bank of lights on the action wall for "DOME HI-OFF-LO".

The bank of three lights on the curbside shall be automatically activated when the rear or side doors are opened, or by a 15-minute rotary timer mounted adjacent to the curbside passage door. The timer shall be wired to continuous battery power.

**COMPLY**    **YES**    **NO**

**6.17A**

**BASIC EXTERIOR LIGHTING**

Basic lighting shall include headlights, parking lights, directional signal lights, tail and stop lights, license plate light, back-up lights, hazard lights, identification lights, clearance lights, and side marker lights as required by FMVSS 108.

Module identification lights, and side marker lights shall be Truck-Lite LED Model 36.

Rear and side reflex reflectors shall be installed in accordance with FMVSS 108 requirements.

Rear stop/tail, turn and back-up lights shall be Truck-Lite Model 45 series LED lights, installed in the rear kick panel, pattern from outboard in: red stop/tail light, amber turn signal, and clear back-up light. The back-up lights shall activate automatically when the vehicle is placed in reverse.

**COMPLY**    **YES**    **NO**

**6.19**

**ANTENNA MOUNTS AND CABLES**

Two NMO universal antenna mounts with KHFUD cables and Larsen HyPer master universal connectors and mini-UHF adapters shall be installed on the module. Antenna base access shall be through the dome light openings, and the cables shall terminate in the radio cabinet, cabinet #8.

**COMPLY**    **YES**    **NO**

**6.20**

**BLOCK HEATER**

A block heater, with On/Off switch in 120VAC power box, shall be wired to the 120VAC shorepower system and shall be circuit protected (Section 1.01.02 related).

**COMPLY**    **YES**    **NO**

**6.21X**

**120VAC/SHORELINE CIRCUIT BOX**

Utility power shall be furnished with 120VAC shorepower via a Kussmaul 20-amp Super Auto-Eject with a green indicator light on a stainless-steel plate located on driver's side of vehicle and distributed via a formed 0.125" aluminum power box in the streetside front compartment #2. Power box shall have easily removable cover.

The box shall contain three 120VAC non-GFCI duplex receptacles and one 120VAC GFCI duplex receptacle for power distribution.

Toggle-style circuit breakers shall be installed for overcurrent protection and circuit isolation:

- Inverter (which feeds interior/exterior 120VAC (receptacles, IV warmer, etc.
- Block heater

All exposed receptacles outside of the power box shall be ground fault circuit interrupting (GFCI) and shall have a power on indicating light.

Five interior 120VAC duplex GFI protected receptacles shall be mounted;

- One in Cabinet #1
- One in Cabinet #5, aft of the CPR seat
- One in Action Area, Cabinet #6
- One in Cabinet #11 to supply power for the IV warmer
- One in Cabinet #21, right front stack

**COMPLY**    **YES**    **NO**

**6.22**

**BATTERY GROUNDS**

In addition to OEM grounds, the following ground circuits shall be added: 4 ga. ground cable from module power component panel to frame, two braided ground straps from the module body to the chassis to reduce RF interference.

**COMPLY**    **YES**    **NO**

6.23C

**BATTERY CHARGER**

A 50 amp battery charger shall be provided as part of Magnum Pure Sine inverter system (Section 6.31X related).

**COMPLY**  **YES**  **NO**

6.25X

**12VDC RECEPTACLES**

One 12VDC, 15-amp lighter-style power point receptacle shall be provided and installed:

- Action Area, Cabinet #6

Receptacle shall be powered continuously.

Two dual USB ports shall be provided and installed:

- One Blue Sea Dual USB port in the action area, Cabinet #6
- One Blue Sea Dual USB port in Driver's Console

Receptacles shall be powered continuously.

**COMPLY**  **YES**  **NO**

6.26

**COMPARTMENT LIGHTING**

A vertical LED strip light shall be installed in each outside compartment, and shall be activated by the respective compartment door switch.

**COMPLY**  **YES**  **NO**

6.27

**EXTERIOR DOOR SWITCHES**

Shall be 1/2" mechanical door switches.

**COMPLY**  **YES**  **NO**

6.30

**EMERGENCY WARNING SYSTEMS**

6.30.01X

**FRONT LIGHTBAR**

A 96" Whelen #4500 Plus lightbar shall be recessed on the front of the module, pattern curbside to streetside:

- |            |                                    |
|------------|------------------------------------|
| Curbside   | Red Lens Red Super-LED Flasher     |
|            | Clear Lens Clear Super-LED Flasher |
|            | Red Lens Red Super-LED Flasher     |
|            | Clear Lens Clear Super-LED Flasher |
| Center     | Red Lens Red Super-LED Flasher     |
|            | Clear Lens Clear Super-LED Flasher |
|            | Red Lens Red Super-LED Flasher     |
|            | Clear Lens Clear Super-LED Flasher |
| Streetside | Red Lens Red Super-LED Flasher     |

The lightbar shall be recess-mounted with the horizontal plane of the roof, and protrude no more than 1/2" beyond the vertical plane of the front and sides of the module. The LED ICC clearance lights shall be an integral part of the lightbar.

The red lightbar flashers shall be controlled by the "LIGHTBAR RED" switch, and the clear lightbar flashers shall be controlled by the "LIGHTBAR WHITE" switch, with both switches on the driver's console (Section 6.09 related).

**COMPLY**  **YES**  **NO**

**6.30.02X**

**REAR LIGHTBAR**

A 96" Whelen #4500 Plus lightbar shall be recessed on the rear of the module, pattern curbside to streetside:

Curbside	Red Lens Red Super-LED Flasher Amber Lens Amber Super-LED Flasher LR11 17 Degree Angled LED Scenelights
Center	Red Lens Red Super-LED Flasher Red Lens Red Super-LED Brake Red Lens Red Super-LED Flasher LR11 17 Degree Angled LED Scenelights Amber Lens Amber Super-LED flasher
Streetside	Red Lens Red Super-LED Flasher

The bar shall include an LED brake/clearance light over the center lights. The LED clearance lights shall be an integral part of the lightbar.

The red and amber lightbar flashers shall be controlled by the "LIGHTBAR RED" switch on the driver's console (Section 6.09 related).

The rear scenelights shall be controlled by the "REAR SCENE" switch on the driver's console (Section 6.09 related), and shall activate when the rear curbside passage door is opened or when the vehicle is placed in reverse.

**COMPLY**    **YES**    **NO**

**6.30.03**

**FLASHERS**

Four Whelen 900 Series #90RR5FRR Red Lens Red Super-LED flashers shall be mounted, two each on the curbside and streetside of the module in upper corners.

Two Whelen 900 Series #90AA5FAR Amber Lens Amber Super-LED flashers shall be mounted on the rear of the module at window height.

Lights shall be controlled by the "FLASHER" switch on driver's console (Section 6.09 related).

**COMPLY**    **YES**    **NO**

**6.30.04**

**SCENELIGHTS**

Four Whelen 900 Series Model #9SC0ENZR LED scenelights (comes with chrome flange, check with customer about installation) shall be installed - two each on the curbside and streetside of the module in the upper corners, inboard of the flashers. The curbside passage door shall activate the curbside scenelights. The scenelights shall also be controlled by the respective switches on the driver's console (Section 6.09 related).

**COMPLY**    **YES**    **NO**

**6.30.05A**

**SPOTLIGHT**

A handheld 12VDC halogen spotlight with integrated momentary rocker switch shall be hardwired into the front of the console.

**COMPLY**    **YES**    **NO**

**6.30.06**

**INTERSECTION LIGHTS**

Four Whelen #WIONSMCR Clear Lens Red intersection lights with chrome housings shall be installed, one on each cab fender and one above each module wheel well. Lights shall be controlled by the "FLASHER" switch on the driver's console (Section 6.09 related).

**COMPLY**    **YES**    **NO**

**6.30.08**

**GRILLE LIGHTS**

Four Whelen #WIONSMCR Clear Lens Red intersection lights with chrome housings shall be installed, one on each cab fender and one above each module wheel well. Lights shall be controlled by the "FLASHER" switch on the driver's console (Section 6.09 related).

**COMPLY**  **YES**  **NO**

**6.30.09**

**SIREN**

A Whelen 295SLSA1, 200-watt siren shall be installed in the driver's console (Section 6.09 related). Standard features shall include Radio Rebroadcast, Public Address, Manual, Wail, Yelp, Air horn, and Piercer tones. The siren's hands-free function shall operate through the OEM horn ring circuit when the sirens rotary selector is in the HF position and the Emergency Master switch is on.

**COMPLY**  **YES**  **NO**

**6.30.10**

**SIREN SPEAKERS**

Two Federal Signal DynaMax #ES100C speakers with ESB-ESFMT-EF "Electric F" stainless steel grilles shall be installed in the OEM bumper.

**COMPLY**  **YES**  **NO**

**6.30.11**

**SEQUENTIAL SWITCHING SYSTEM**

A Kussmaul sequential switching system shall be installed to control emergency lighting by sequencing the starting and stopping of selected electrical loads when the "EMERGENCY MASTER" switch is turned on or off. All emergency lighting shall be enabled when the "EMERGENCY MASTER" switch is on. The individual designated switches (e.g. LIGHTBAR RED, LIGHTBAR WHITE, OPTICOM, HORN/SIREN, etc.) shall turn on/off each individual function.

**COMPLY**  **YES**  **NO**

**6.31**

**INVERTER**

A Magnum Pure Sine 1000-watt inverter with a 50-amp battery charger shall be installed in the attendant seat base cabinet (#9) with a 120VAC muffin fan. A remote inverter status panel shall be installed on the action area wall (#6). The inverter shall be configured to turn on and off with ignition.

**COMPLY**  **YES**  **NO**

**6.35**

**FLUID WARMER**

A 120VAC fluid warmer with a 120VAC GFCI receptacle shall be installed in Cabinet #11. The warmer shall be thermostatically controlled at 95 to 105 degrees F. Space for 10 one-liter bags of fluids shall be provided with a 4" surround to contain the fluid bags.

**COMPLY**  **YES**  **NO**

**6.40**

**ELECTRIC DOOR LOCKS**

Electric door locks shall be installed on all compartment and module passage doors. Two lock/unlock switches shall be provided in the module: one located on the rear curbside passage door, and one located on the curbside passage door. The door locks for the cab and module shall be interconnected, to allow all doors to be locked/unlocked from either the cab or module. A hidden unlock switch shall be located behind the license plate on rear of the module.

**COMPLY**  **YES**  **NO**



**6.46X**

**BACK-UP CAMERA**

A Rostra #250-8628-W surface-mounted back-up camera shall be installed over the rear passage doors; shall be plugged in at the end of the chassis frame and shall automatically show on the OEM Sync 3 8" in-dash touchscreen display when the vehicle is placed in reverse.

<b>COMPLY</b>	<b>YES</b> <input type="checkbox"/>	<b>NO</b> <input type="checkbox"/>
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**7** **SUPPORTING DOCUMENTATION**

**7.01 OWNERS MANUAL**

Shall be provided with vehicle and consists of the following items:

1. Chassis owner information packet.
2. Extra set of keys.
3. Lifetime module warranty.
4. Factory warranty on Chassis.
5. 7 Year/75,000 miles limited electrical warranty.
6. 2 Year/30,000 mile Conversion Warranty.
7. 5 Year Paint Warranty.
8. Module remount engineering checklist.
9. Climate control information and warranty.
10. Main schematic.
11. Electrical equipment amperage ratings.
12. Wire coding list.
13. Schematics for standard system: (As Built)
  - Driver switch console
  - Attendant switch console
  - Climate control system
  - Dual battery system
  - Module harness routing
  - Interior and exterior lights
14. Operations manual
15. Schematics for individual options.
16. Warranty and parts list for light bar, etc.

<b>COMPLY</b>	<b>YES</b>	<b>NO</b>
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**8** **MISCELLANEOUS EQUIPMENT**

**8.01 LOOSE EQUIPMENT**

The following equipment shall be shipped loose with the vehicle:

1. Three Touch up paint
  - a. Lime Yellow #SY1060
  - b. White G8-33631 Alt 2
  - c. Lt Gray 8-51748
2. One 20-amp shoreline plug
3. One Wheel simulator wrench
4. One Oxygen cylinder wrench
5. Two Antenna coax ends
6. Spare tire and wheel
7. Two Compartment Keys
8. One 15ft Hypothermic Hose
9. One OEM OBD plug

<b>COMPLY</b>	<b>YES</b>	<b>NO</b>
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