

Interior Cabinet Windows - Windows

Windows shall be made of .1875 clear Lexan high strength polycarbonate. They shall have 1.125 inch diameter finger holes on each side. In the center of the sliding windows shall be two (2) 3/4 inch holes for inventory seals.

Complies As Written Does Not Comply

Interior Cabinet Windows - Windows

The center of each sliding window shall have a radius 'U' shaped cutout to prevent finger injuries while sliding the widows open. In addition the top and bottom leading edge shall have a small velcro like tab to assist in keeping the windows in the closed position during transport.

Complies As Written Does Not Comply

Interior Cabinet Doors - Construction

All interior solid doors shall be boxed pan formed aluminum. They shall be made of .090 inch Aluminum 5052-H32. They shall be welded and ground smooth. They shall be coated with acrylic urethane utilizing the powder coating process as described. They shall be attached to the cabinet with bolts and nutserts. The hinge shall be stainless steel. They shall be held closed with a commercial grade handle and latch.

Complies As Written Does Not Comply

Interior Cabinet Shelves - Construction

Interior cabinet shelves shall be constructed of boxed pan formed aluminum. They shall be made of .125 Aluminum. They shall be coated with acrylic urethane utilizing the powder coating process as described. To keep the shelves from rattling the manufacturer shall supply a mechanism that is easily removed for adjusting and cleaning.

Complies As Written Does Not Comply

Interior Exposed Shelves - Construction

Interior exposed shelves shall be constructed of boxed pan formed aluminum. They shall be made of .125 inch aluminum 5052-H32. They shall be coated with acrylic urethane utilizing the powder coating process as described. They shall be bolted in place to heavy duty aluminum unistrut.

Complies As Written Does Not Comply

Interior Ceiling - Construction

The interior ceiling shall be constructed of .090 inch aluminum 5052-H32. It shall be the full length and width of the module and shall fit under all cabinets, trim pieces and safety cushions. There shall be no visible seams. No Exceptions. All light holes, IV holders, hardware and mounting holes shall be cut out prior to coating. It shall be coated with acrylic urethane utilizing the powder coating process as described.

Complies As Written Does Not Comply

Interior Ceiling - Attachment

Ceiling panel shall be attached to the roof structural tubes utilizing white head truss self tapping fasteners. Prior to mounting the ceiling tubes shall be covered with a 1/8 inch foam insulation barrier to prevent heat transfer and noise, due to vibration and rattling.

Complies As Written Does Not Comply

Interior Flooring - Flooring

Flooring shall be cut from one continuous piece of vinyl flooring. It shall be 100 percent CNC cut prior to installation to prevent small scale cracks and over cuts. These tend to show up over time as the flooring shrinks and can become an area for fluid accumulation and absorption. It shall be secured to the subfloor with a structural adhesive that has zero (0) VOC's.

Complies As Written Does Not Comply

Interior Flooring - Flooring Rolled Up Main Cabinet Only

It shall roll up three inches on the main street side cabinet and shall run all the way to the curbside interior wall under the traditional squad bench location. This is done to have continuous flooring in the squad bench area. The flooring running up the side shall be trimmed off with an aluminum trim and sealed to prevent fluids from accumulating behind the flooring. At the squad bench side the flooring shall be 100 percent sealed.

Complies As Written Does Not Comply

Wall Panels - Construction

Wall panels shall be constructed of .090 inch aluminum 5052-H32. They shall be coated with acrylic urethane utilizing the powder coating process as described.

Complies As Written Does Not Comply

Wall Panels - Attachment

They shall be attached to the structural wall tubes utilizing white head truss fasteners that are drilled and tapped. Prior to mounting the wall tubes shall be covered with a 1/8 inch foam insulation barrier to prevent heat transfer and noise, due to vibration and rattling.

Complies As Written

Does Not Comply

Streetside Forward Cabinets Upper - Upper Cabinet

Located adjacent to the medical control center (MCC) shall be a full size cabinet. It shall have four (4) adjustable shelves and sliding clear Lexan doors as described. It shall be constructed out of a combination of aluminum and composite material. Composite material shall be light weight expanded PVC, which has a nominal thickness of 1/2".

Complies As Written

Does Not Comply

Medical Control Center - MCC Panel

A medical control center (MCC) shall be provided at the forward street side of the patient compartment area. It shall be in close proximity to the rear facing attendant seat and street side attendant seat. Mounted in this area shall be the oxygen and suction system, rear attendant control panel, 12 and 110 volt outlets, control thermostat for rear heat/AC unit and other equipment as specified. Exact arrangement will be determined after bid award. For ease of maintenance the rear of the MCC cabinet shall be accessible through a removable panel.

Complies As Written

Does Not Comply

Streetside Rear Cabinets - Rear Stack

Located rearward of the street side attendant seat shall be a vertical cabinet. It shall each have four (4) adjustable shelf and sliding clear Lexan doors as described. They shall be constructed out of a combination of aluminum and composite material. Composite material shall be light weight expanded PVC, which has a nominal thickness of 1/2". The lower section shall have a designated open Heart Monitor location.

Complies As Written

Does Not Comply

Curbside Kit Tree Cabinets - Access

At the curbside rear of the vehicle shall be supplied three adjustable shelves for storage of jump kits. For ease of access and quick functionality these shelves shall be open on three sides. Access shall be provided on the aisle side facing the patient, the forward facing the attendant on the squad seat and also through an exterior kit door. This is critical to the function of our squad seat. (No Exceptions).

Complies As Written Does Not Comply

Curbside Kit Tree Cabinets - Shelves

Shelves shall be heavy duty and box pan formed of .125 inch Aluminum 5052-H32. They shall be welded, ground smooth and coated as described. The exposed corner inside the module shall have a six inch chamfer for safety reasons. Each shelf shall be supplied with an adjustable seat belt to lock down equipment. Shelf lips shall be turned down for easy removal of jump kits. Shelves shall have an adjustment range of a minimum of 60 inches.

Complies As Written Does Not Comply

Curbside Kit Tree – Exterior Door

There shall be an exterior door accessing the curbside Kit Tree shelving. This door shall be formed into the corner of the modular body and have a below floor storage compartment for miscellaneous items.

Complies As Written Does Not Comply

Curbside Squad Bench - Bench

NOT APPLICABLE – See Curb-side Seating Details

Complies As Written Does Not Comply

Attendant Seat - Seat

The patient compartment shall be supplied with a rear facing attendant seat. Seat shall be a high back automotive style captain's chair with a minimum of 6 inches seat travel forward and backward. Seat shall be vacuum formed heavy grade vinyl with no seams and come provided with two molded fold down armrests. This seat, positioned at the head of cot shall provide easy access to all of the action wall controls and outlets. This seat shall also include both an infant and child safety seat with 5-point belting that meets DOT standards. This seat shall be a Guardian Safety Seat from Serenity Safety Products.

Complies As Written Does Not Comply

Attendant Seat - Pedestal

Seat shall be mounted on a swivel style base as required by Serenity Safety Products.

Complies As Written Does Not Comply

Attendant Seat - Requirements

The seat, base and all retention devices must conform to all FMVSS regulation: #571.207, #510.210 and #571.209 at a minimum and be mounted with appropriate room behind it to absorb the energy of an impact as dictated in seat testing. Final location of the seat shall be determined after the bid is awarded to assure proper placement.

Complies As Written Does Not Comply

Cushions and Protective Pads - Interior

All seating and protective pads shall be covered in seamless vacuum formed vinyl. Seamless cushions and pads are required for infectious control. Cushions with seams are especially susceptible to blood born pathogen contamination. Sewn seams puncture the vinyl surface and it is extremely difficult to reseal these surfaces. Vinyl seat covers must be vacuum formed. Hand stretched vinyl will not be acceptable because it keeps the vinyl surface under constant tension and is therefore more susceptible to tears and cracking.

Complies As Written Does Not Comply

Cushions and Protective Pads - Vinyl

Vinyl selected must be color coordinated with the attendant seat. It shall be commercial grade minimum of 32 ounce weight. It shall be abrasion resistant utilizing the Wyzenbeek test method of 500,000 double rubs with #8 cotton duck. It shall have antibacterial properties (Staph resistant) as well as mildew resistant. It shall also be urine, sulphide, oil and enhanced bleach resistant. It shall be flame resistant to FMVSS 302.

Complies As Written Does Not Comply

Cushions and Protective Pads - Foam

Foam utilized for cushions and back rests shall be a minimum 2 inch medium density closed cell foam that meets FMVSS 302 flammability tests.

Complies As Written Does Not Comply

Climate Control System - Design

An OEM air conditioning and high output heater shall be provided in the cab. The module system shall incorporate a combination heating and air conditioning unit with built in drain pan. The chassis and module heating and A/C system controls shall function independently of each other.

Complies As Written Does Not Comply

Heating - Capacity

System utilized shall have a minimum heating capacity of 40,000 BTU's. It shall meet AMD Standard 012. In addition, the heating system must have the ability to run off of 110V AC to maintain a constant temperature while the unit is in its station and plugged into shore power. The manufacturer shall clearly outline in the bid document how this will be accomplished and what equipment will be used.

Complies As Written Does Not Comply

Heating - Hoses

All heater hoses shall be QVM approved Nomex silicone reinforced rubber hoses for improved circulation.

Complies As Written Does Not Comply

Cooling - Capacity

System utilized shall have a minimum cooling capacity of 37,000 BTU's. This system will be connected and charged in accordance with the OEM manufacturer's specifications regarding gas, lubricant, and pressure, using methods that reduce or eliminate environmental impact. It shall meet AMD Standard 012. The Condenser shall be roof mounted for increased cooling capacity. There shall be a shield protecting the front side of the roof top A/C condenser. Testing should be done to determine the time to cool off the module 20 degrees from ambient air temperature and this testing will be supplied to the purchaser. In addition, the cooling system must have the ability to run off of 110V AC to maintain a constant temperature while the unit is in its station and plugged into shore power. The manufacturer shall clearly outline in the bid document how this will be accomplished and what equipment will be used.

Complies As Written Does Not Comply

Cooling - Hoses

All added AC hoses shall be hydraulically crimped. No Exceptions

Complies As Written Does Not Comply

Air Circulation - Design

The environmental system shall be a comprehensively designed system that incorporates controls and balances the following elements:

1. Conditioned air distribution.
2. Conditioned air recirculation.
3. Stale air exhaustion.
4. Fresh air intake.

Manufacturer must have a system that addresses all four aspects (No Exceptions). Note: Passive air intake systems such as opening a window or chassis intake vents will not be accepted.

Complies As Written Does Not Comply

Air Circulation - Distribution

To provide even distribution of conditioned air throughout the patient compartment an air duct shall be constructed that runs down the street side of the module at ceiling level. It shall contain a minimum of six (6) adjustable multi-directional vents. The duct itself shall be tapered in a way that equalizes the air flow coming out of each vent. The duct work shall also be insulated with .5/8 inch rigid foam insulation

Complies As Written Does Not Comply

Air Circulation - Capacity

The blower for the combination unit shall have a minimum capacity of 650 CFM.

Complies As Written Does Not Comply

Air Circulation - Return Air

The air return intake shall not be less than 50 square inches. This return system shall allow the existing air in the module to be re-circulated back through the heat A/C unit, thus allowing faster cooling or heating of the module environment. For maximum efficiency the vent shall be no more than 12 inches from the unit itself.

Complies As Written Does Not Comply

Environmental Controls - Thermostat

There shall be a three speed fan switch integrated into the switch locations. The thermostat shall have a set temperature that turns on either the heat or AC to achieve temperature setting.

Complies As Written Does Not Comply

Exhaust Fan - Exhaust

Vehicle shall be supplied with an exhaust fan with a minimum rating of 250 CFM. It shall be controlled by a switch at the MCC. Because it is critical for functioning and the large number of construction variables the manufacturer shall also supply documentation proving the effectiveness of the exhaust system. At a minimum it shall completely exchange the interior volume of air every three (3) minutes.

Complies As Written Does Not Comply

Air Intake Fan - Intake

As part of the comprehensive system the vehicle shall be supplied with a fresh air intake blower with a minimum rating of 200 CFM.

Complies As Written Does Not Comply

Electrical Load and Design Parameters - Design

All wires, switches, outlets and related components shall be rated to carry a minimum 125% of the maximum ampere load for which the circuit is designed (circuit breakers being the one exception). The system shall be designed to have the module power supplied independently of the chassis power supply.

Complies As Written Does Not Comply

Wiring Criteria – General

All added body and chassis electrical equipment shall be served by circuits separate and distinct from the chassis circuits. All vehicle 12VDC wiring shall be copper crosslink polyethylene wiring (GXL) or SGX rated to 250 degrees Fahrenheit, and conform to all SAE J1128 requirements. The wiring shall be color coded, numbered, and function imprinted every six (6) inches for permanent identification and correspondence with the vehicle schematics.

Complies As Written Does Not Comply

Wiring Criteria - Batteries

Battery cables shall be AWG (1/0), enclosed in loom and run unbroken from the battery location to the power distribution. They shall be secured underbody utilizing insulated metal straps.

Complies As Written Does Not Comply

Wiring Criteria - Grounding

All components shall have ground wires returning to the ECC (Electrical Control Center). There shall be no components that are grounded to the module.

Complies As Written Does Not Comply

Wiring Criteria - Doors

Wires routed through doors shall go through a stainless steel flex spring. One end shall be secured to the door frame and the other end will slide through a nylon open grommet. For servicing there shall be a large enough service loop to be able to completely pull the spring from the grommet.

Complies As Written Does Not Comply

Wiring Criteria - Service Loop

At the connection points of all components and devices shall be a minimum seven (7) inch service loop.

Complies As Written Does Not Comply

Documentation - Schematics

All wiring schematics and electrical schematics shall be designed for this specific vehicle (As Built). Generic circuit design will not be accepted. All wiring schematics are to be computer generated. Hand marked schematics will not be accepted.

Complies As Written Does Not Comply

Documentation - Layout

In addition to wiring schematics supplied with the vehicle there shall be a component layout drawing and circuit wire list supplied and mounted above the electrical control center (ECC). It shall be laminated and specific to this vehicle.

Complies As Written Does Not Comply

Harness - Design

Generic harnesses with numerous wires or wires marked with functions that are not on this vehicle will not be accepted. All harnesses are to be assembled to this specific vehicle. They shall be wrapped in protective loom and securely fastened along the module structure prior to cabinet installation.

Complies As Written Does Not Comply

Harness - Plugs

All wiring harnesses shall be connected to the power distribution utilizing harness plugs. These plugs shall have a positive locking feature. Access for disconnecting the harnesses from the cab to the module shall be provided and will be readily accessible.

Complies As Written Does Not Comply

Access - ECC

It is required that the electrical power distribution be located in an exterior compartment for ease of maintenance and patient safety. There is the potential to flood the patient compartment with smoke and fumes should there be a severe electrical component failure. All major components and devices shall be located in this compartment and installed in such a way as to make it easy to diagnose and maintain the vehicle. There shall also be access to the rear control panel through a removable access plate. Access to the module batteries shall also be provided in this compartment.

Complies As Written Does Not Comply

Generating System - Requirements

The generating system must supply the maximum electrical load at the regulated voltage, 200°F, under hood temperature and with an engine speed not exceeding 50 percent of the engine's SAE net HP, RPM rating.

Complies As Written Does Not Comply

Volt Meter - Display

Shall supply a digital LCD display for voltage reading of both the conversion voltage and separately the chassis voltage. It shall be backlit for low light and also be readable in direct sunlight. It shall also have a low voltage alarm.

Complies As Written Does Not Comply

Ammeter - Display

Shall supply a digital LCD display for amp reading of alternator current draw. It shall be backlit for low light and also be readable in direct sunlight.

Complies As Written Does Not Comply

Battery System - Conversion

Shall supply two batteries for the conversion. They shall both be deep cycle with a reserve capacity rating of 165 minutes and with a minimum of 750 cold cranking amps. (Optima Yellow Top or equivalent) The ACETECH™ electrical system shall utilize the chassis CANBUS system to access an Engine Running Signal and Ignition Signal to disconnect and control module power and ignition loads.

Complies As Written Does Not Comply

Battery Storage - Tray

Conversion batteries shall be mounted in a tray on slides, in such a manner that they will be easily accessible for inspection and maintenance. The battery tray must be constructed of corrosion resistant material. The tray slides shall be rated for a minimum of 250 pounds. The storage location of these batteries will be clearly marked CONVERSION BATTERIES and the size and type of battery noted with a permanent label.

Complies As Written Does Not Comply

Battery Ground - Straps

The module shall be grounded to the chassis with two heavy duty braided straps.

Complies As Written Does Not Comply

Battery Charging –Power Inverter / Charger

Shall supply a minimum 50 amp three stage battery charger. Shall come with a built-in transfer switch to automatically select either shore or inverter power. Shall be able to charge both wet and gel style batteries. Combined inverter / battery charger preferred.

Complies As Written Does Not Comply

Power Distribution – Design – FERNO ACETECH™ Vehicle Monitoring & Control System
The only exception must be a similar power system with the same or greater features.

The power distribution shall be A FERNO ACETECH™. The ACETECH™ systems will consist of the following modules
1- Electrical Control Unit (ECU), 2- ECO-Run, 3- Advanced Vehicle Informatics (AVI) Detailed information on the complete ACETECH™ System will be discussed during the preproduction meeting.

Complies As Written Does Not Comply

Power Distribution - Connectors

Connection from the power distribution circuit to the vehicle harnessing shall be done with locking universal style connectors. These connectors shall utilize a combination of pins and sockets. They shall be completely enclosed, have positive polarization, positive locking and have rear cavity identification.

Complies As Written Does Not Comply

Power Distribution - Location

The power distribution shall be located in an area that is advantageous to the mechanic for maintenance and servicing and is not in the patient compartment itself. In the event of component failure there is the risk of flooding the interior with toxic fumes while transporting a patient.

Complies As Written Does Not Comply

Switch Panels - Switches

Integrated switch panels as supplied with the FERNO ACETECH™ Vehicle Monitoring & Control System

Complies As Written Does Not Comply

Switch Panels - Coding

Integrated switch panels as supplied with the FERNO ACETECH™ Vehicle Monitoring & Control System

Complies As Written Does Not Comply

Switch Panels - Driver

Integrated switch panels as supplied with the FERNO ACETECH™ Vehicle Monitoring & Control System. Custom Drivers console is to house three (3) two-way radio's and to also have storage for notebook and maps.

Complies As Written Does Not Comply

Switch Panels – Attendant x2

Integrated switch panels as supplied with the FERNO ACETECH™ Vehicle Monitoring & Control System. One switch panel is located on street side and one on curbside, accessible from seating positions.

Complies As Written Does Not Comply

12 Volt Outlets - Outlets

The vehicle shall come supplied with four (4) 12 volt outlets. Final location to be determined at the preproduction meeting.

Complies As Written Does Not Comply

110 Volt Power Supply - Inverter

Vehicle shall come equipped with a minimum 1000 watt inverter. It shall have surge protection up to 3000 watts. It shall have a built-in internal transfer relay with a GFI circuit. It shall have over voltage, under voltage, overload, over temperature and short circuit protection. It shall comply with Federal Specification KKK-A-1822 (all revisions). It shall be UL and CUL listed to UL 458 and CSA C22.2 No. 107.1.

Complies As Written Does Not Comply

110 Volt Power Supply - Inverter Control

A remotely mounted control panel shall be supplied. It shall be located in the medical control center (MCC) panel and have system status LED's that indicate DC Volts and DC Amps LED bar graphs.

Complies As Written Does Not Comply

Shore Power - Outlet

Shall supply two (2) 110 VAC outlet 15 amp straight blade shore power receptacle capable of ejecting the plug when the vehicle starter is engaged. They shall be furnished with a spring loaded weatherproof cover. They shall be located on driver's side of the ambulance as far rearward as possible. One shall be wired to supply power to vehicle battery charger, AC and DC outlets and lighting to work in the rear of the module without the chassis running. The second shall be utilized to run the 110V AC heating/cooling device. Final location of these outlets shall be determined at the pre-build meeting.

Complies As Written Does Not Comply

Shore Power - Shore Power

The 110V electrical system shall be furnished with a 110VAC 15 amp straight blade shore power inlet incorporating a male plug and shall be located on the street side of the module to the rear of the #1 compartment. The circuit shall be ground fault and circuit breaker protected incorporating a toggle switch with a UL approved QO type single phase load center located in the ECC (Electrical Control Center). All 110VAC wiring shall be 14 AWG. All 110 volt AC wiring connections shall be made in UL approved junction boxes. A battery charger pigtail with female plug will be routed to the battery charger prewired area.

Complies As Written Does Not Comply

110 Volt Outlets - Outlets

The vehicle shall come supplied with three (3) 110VAC 2-wire plus ground, hospital grade 15 amp duplex outlets. One shall be located in the jump kit area, one at heart monitor location, and the other shall be located just below the medical control center (MCC) cabinet. Final locations will be confirmed at preproduction meeting.

Complies As Written Does Not Comply

Exterior lighting

All emergency and scene lighting to come with a Whelen Chrome Bezel and are to have clear lenses. The lighting will follow the general concepts as outlined below, but final light location and color will be determined in the pre-build meeting.

Complies As Written Does Not Comply

Light Bars - Front Facing Lights

The vehicle shall be equipped with five (5), Whelen 700 Series Linear Super-LED light heads with chrome bezels. The color of the lights shall be Red/Red/Clear/Red/Red. All emergency lights are to have clear lenses. In addition there shall be one Opticom Traffic Light Interrupter.

Complies As Written Does Not Comply

Light Bars - Front Switching

The front facing lights shall be activated by the Primary/Secondary Emergency light switch.

Complies As Written Does Not Comply

Flashing Warning Lights - Side Facing

There shall be a total of four (4) Red Whelen 900 Series Linear Super LEDs. The lights shall be located at the upper outboard corners of the curbside and street side walls of the module. All emergency lights are to have clear lenses.

Complies As Written Does Not Comply

Flashing Warning Lights - Rear Facing

There shall be a total of two (2) Red Whelen 900 Series Linear Super LEDs. The lights shall be located at the upper outboard corners of the rear of the module. All emergency lights are to have clear lenses.

Complies As Written Does Not Comply

Flashing Warning Lights - Rear Amber

There shall be a one (1) Amber Whelen 700 Series Linear Super LED. The light shall be located at the upper center of the rear of the module. All emergency lights are to have clear lenses. NEED TO EVALUATE THIS...>RED CENTER, Amber below RED???

Complies As Written Does Not Comply

Grille Lights - Forward Facing

There shall be a total of two (2) Red Whelen 500 Series Super Linear LEDs. The lights shall be located at the outboard sides of the chassis below the OEM headlights. All emergency lights are to have clear lenses.

Complies As Written Does Not Comply

Intersection Lights - Side Facing

There shall be a total of two (2) Red/White Whelen 500 Series Linear Super LEDs intersection lights. The lights shall be located at the front fenders. All emergency lights are to have clear lenses.

Complies As Written Does Not Comply

Siren Systems - Amplifier

The siren amplifier shall be a Whelen 295HFS2 or Carson SA-500. It shall be designed to be used with dual 100 watt speakers. The primary operating modes shall be Public Address, Manual, Wail, Yelp, Air horn, and Piercer tones. PTT (Push To Talk) switch on unidirectional microphone over-rides all siren functions. A Whelen Howler shall be installed on the vehicle and integrated into the siren control system.

Complies As Written Does Not Comply

Siren Systems - Speakers

The siren speakers shall be two (2) cast aluminum, Sprinter Thru-The-Bumper Siren Speakers, and be a minimum 100 watt. Or Equivalent

Complies As Written Does Not Comply

Scene Lighting - Side Facing

There shall be a total of four (4) Whelen 900 Series clear halogen scene lights mounted on the sides of the module. The forward scene lights on each side shall be the spot type.

Complies As Written Does Not Comply

Scene Lighting - Rear Facing

There shall be a total of two (2) Whelen 700 Series clear halogen scene lights mounted on the rear of the module. They shall be angled flood type.

Complies As Written Does Not Comply

Marker Lights - Lights

All marker lights shall be LED and be in full compliance with DOT regulations.

Complies As Written Does Not Comply

Brake Signal - Rear Facing

There shall be five (5) rear LED brake lights. Two shall be on the rear curbside and two on the rear street side, mounted to show through the windows when the rear doors are open. There shall be one LED mounted center above the rear doors to function as high center brake light.

Complies As Written Does Not Comply

Brake Signal - Lower Rear Facing

There shall be two (2) additional Whelen 700 Series LED Lights located in the lower kickplate just above the rear bumper

Park / Signal - Side Facing

There shall be a total of two (2) Red LED park / signal lights. One shall be on the curbside rearward center and one on the street side rearward center.

Complies As Written Does Not Comply

Compartment Lights - Lights

Exterior compartment lights shall be LED's and shall be rated for 50,000 hours. They shall be rated for a maximum draw of .16 amps at 12VDC per light.

Complies As Written Does Not Comply

Patient Compartment Lights - Lights

Interior ceiling shall have a minimum of eight (8) interior dome lights (3 Left Bank, 3 Right Bank, 2 Center Cot). Lights shall be LED's and shall be completely flush with the ceiling surface when mounted. They shall be rated for 50,000 hours and have a maximum draw of 1 amp at 12VDC per light.

Complies As Written Does Not Comply

Cabinet Lights - Lights

Interior cabinets shall have LED strip lighting mounted vertically on both sides of the cabinet just behind the window extrusion. They shall be rated for 50,000 hours and have a maximum draw of .240 amp at 12VDC per cabinet.

Complies As Written Does Not Comply

Attendant Light - Light

There shall be two (2) attendant LED light mounted to the underside of the cabinet above the streetside and curbside attendant seats. It shall be rated for 50,000 hours and have a maximum draw of .05 amp at 12VDC.

Complies As Written Does Not Comply

Hand Held Spotlight - Light

Vehicle shall be supplied with a hand held spotlight mounted in the cab. It shall be a minimum of 200,000 candle power, have a coiled cord and momentary switch. It shall be hard wired to the conversion electrical system.

Complies As Written Does Not Comply

Cab Light - Map Light

Mounted above the passenger in the cab shall be an LED map reading light with a red lens. It shall be rated for 50,000 hours and have a maximum draw of .05 amp at 12VDC. It shall be supplied with a switch on the front switch panel.

Complies As Written Does Not Comply

Antennas - Cables

The vehicle shall be equipped with up to four (4) prewired antenna locations. They shall be routed from the roof of the module to behind the driver's seat in the cab. Cable shall be RG58U coax low loss cable. This number may be less than four but will not exceed four. One location may be for a GPS antenna. At each termination point in the ceiling shall be a removable access plate. Final numbers of wires will be determined at the pre-build meeting.

Complies As Written Does Not Comply

Radios - Location

The Radio mounting location shall be available in the chassis cab console area. The drivers console will need to house three (3) two-way radios. Final design of the radio/console will be determined at the preproduction meeting. A location for a single radio head in the patient compartment will be determined at the pre-build meeting.

Complies As Written Does Not Comply

Radios - Power

Behind the driver's seat in the cab shall be space for radio installation. There shall be three (3) power wires run. One shall be a 20 amp circuit that is wired direct to battery and the other shall be a 10 amp circuit that is switched with vehicle engine running or momentary ambulance connect switch on front switch panel. There shall also be a designated radio ground located in the radio area.

Complies As Written Does Not Comply

Oxygen System - Design

The entire oxygen system shall be assembled with certified O2 hose (UL listed, electrically conductive, 200 PSI burst strength), tees cleaned for oxygen use and permanent crimps. All O2 hose running throughout the module shall also be encased in a flexible plastic loom for additional protection from chafing. The system shall be pressure tested in accordance with AMD standard 015, and a signed inspection card shall be provided.

Complies As Written Does Not Comply

Oxygen System - Outlets

The vehicle shall be equipped with three (3) Ohmeda quick disconnect style outlets. One shall be mounted at the medical control center (MCC), one shall be mounted on the curbside wall at the forward end of the squad area, and one to be mounted in the ceiling over the main cot. The system shall be flow tested in accordance with AMD standard 015.

Complies As Written Does Not Comply

Main Oxygen Cylinder - Retention

The retention system for the oxygen cylinder shall be designed and tested to AMD Standard 003. It shall accommodate an "M" size cylinder. It shall include a top retention ring in order to be secure in all three directions.

Complies As Written Does Not Comply

Portable Oxygen Cylinders - Retention

The builder shall supply bottle holders for Two (2) 'D' size portable cylinders. They shall be designed and tested per KKK-A-1822(current revision) specifications. Location is to be confirmed at time of pre-production meeting.

Complies As Written Does Not Comply

Aspirator System - Design

The manufacturer shall install two complete on board/portable aspirator systems, one on the street side and one on the curb side. The system will be a Laerdal LSU Suction unit (model 782210) or equivalent with wall mount charging base and disposable container. Final model and location will be determined at preproduction meeting.

Complies As Written Does Not Comply

General - Intent

Accommodation and storage arrangements for ambulances will be safe and ergonomically functional. The design and layout shall accommodate logical work flow patterns based upon current procedures.

Complies As Written Does Not Comply

General - Design

The cabinet layout shall be designed to concentrate work flow at the rear of the ambulance where the patient cot is loaded and unloaded. All backboards and jump kits shall be accessible from the rear of the vehicle.

Complies As Written Does Not Comply

Stretcher Mounting - Design

The vehicle shall be set up to accommodate a single center mount cot. Both the front and rear hardware shall be removable. The cot mount shall be tested in accordance with AMD Standard 004 and shall also comply with cot manufacturer's installation requirements. It is the intent of the purchaser to have flexibility in cot mounting locations both left to right as well as front to rear. There shall be a minimum of four mounting locations on the floor. Final locations of these stretcher mount locations will be determined at preproduction meeting.

Complies As Written Does Not Comply

Stretcher Mounting - Type

The stretcher retention mounts shall accommodate a Stryker model cot. Stryker Model # 6370 cot mounts.

Complies As Written Does Not Comply

Medic / Patient Ergonomic Requirement

It is required that the medic sitting in the curbside forward position be able orient themselves in relationship to patient in both the front to back and side to side horizontal plane. As such the curbside most forward seating position shall be attached to a sliding mechanism that allows it to move forward or back a minimum of 36 inches. This seat shall be furnished with a quick release mechanism so the medic can immediately make adjustments with a single hand or foot. This seat shall also be capable of rotating 90 degrees and be able to face the stretcher or face forward during transport. The seat shall not be able to lock at any rotated position beyond 50 degrees from forward facing.

Complies As Written Does Not Comply

Non-Traditional Squad Bench Seating – CUSTOM CURB-SIDE SEATING AREA

The curb-side seating area will consist of a single EVS Mobility 1 Tracking System. The EVS bucket seat must be able to fold flat and accept a backboard and the backboard shall be secured in three locations by belting. In addition, there shall be pre-formed receiving areas for the backboard (as supplied by purchaser) to prevent forward or rearward motion.

There shall also be a Curb-side Action Area Cabinet located in front of the curb-side seat. This cabinet will also be the location for a Heart Monitor mounting bracket.

Complies As Written Does Not Comply

Additional Seating – Streetside / CPR

There will be a front facing Flip Seat located in the streetside CPR seat location. The flip up seat bottom will allow the seat to be placed in a storage location with use of EVS Model SB 186-8 Seat Base. If Chevy chassis choice allows wider patient compartment, this seat may be substituted for other options that will allow more rotation of the street side seat.

Complies As Written Does Not Comply

Cushions - Design

Backrest, headrest, and seating cushions will be made of a minimum of two (2) inch minimum thick, 2.4 lb. per cubic foot density foam on an approved backing with a covering of "Naugahyde Morben Dauphine vinyl P/N2567-XEK", or an approved equivalent, color-coordinated, heavy-duty, fire retardant, washable, and non-absorbent material. All seats and back/headrests will be installed to adhere to the ergonomic requirements.

Complies As Written Does Not Comply

General - Requirements

The overall safety of our crews is of paramount importance. The following section describes features and designs that address these concerns. We consider the following items to be a minimum requirement and welcome additional features over and above the following requirements. Compliance to specifications, regulations and guidelines are also a critical factor when dealing with safety and any concerns will result in a request to produce and all compliance documentation after the bid is awarded and up to time of delivery.

Safety Net – Criteria

Not Required due to curbside seating design. See section R.6.1 for details. No nets shall be installed by the manufacturer whose purpose is restraining humans.

Safety Net - Design

N/A

Interior Radius Corners - Criteria

In order to reduce occupant injuries in cases of sudden stops and during routine movement about the interior exposed vertical corners shall have a minimum 3 inch radius. This applies to both coated cabinets or cabinetry with laminates. These types of corners shall be constructed in order that there is no visible trim or seams to ensure that the vehicle is easier to disinfect.

Complies As Written Does Not Comply

Equipment Loading – Design

With the combination of high level conspicuity and being out of the direct path of moving traffic the rear of the vehicle is the safest place to be loading/unloading both the patient and necessary equipment. Therefore a layout design must be submitted that enables the medic to load and unload all equipment from the rear of the vehicle. This shall include at a minimum jump kits, backboards and folding stretchers if possible.

Complies As Written Does Not Comply

Emergency Door Release - Design

During accidents or due to mechanism failure the door handle may fail thus trapping occupants inside the vehicle. Therefore located at the top and bottom interior of each entrance door shall be emergency latch release levers. These shall be mechanical and directly mounted to the latch itself. The use of cables or rods will not be accepted due to the fact that they are susceptible to the same type of failure.

Complies As Written Does Not Comply

Grab Handles/Rails - Criteria

There shall be various grab handles both inside and outside the vehicle to assist the medics as they enter and or move about the vehicle. These grab handles shall have various dimensions and qualities based upon function and location. The main grab rails shall be a bright yellow to enable the medic to quickly locate them in a sudden stop situation. Grab handles that are located in areas where the attendant could bump into them shall be made of a flexible type material to absorb the impact.

Complies As Written Does Not Comply

Grab Handles/Rails - Location

Mounted to each entrance door shall be bright yellow coated one (1) inch diameter 'L' shaped bars. They shall be bolted to the entrance doors utilizing nutserts. Mounted to the ceiling over the primary cot shall be a full length bright yellow coated one (1) inch diameter grab bar that is bolted utilizing nutserts and pull tested per AMD Standard 008. Mounted to the rear vertical face of the cabinet over the MCC shall be a flexible impact absorbing 12 inch grab rail. Mounted to the rearward side of the side entrance door shall be six inch molded rubber assist rail that is bolted utilizing nutserts.

Complies As Written Does Not Comply

Sharps and Waste Holders - Location

There shall be a plastic garbage container located at the front of the curbside seat area. There shall be two 5L sharps containers mounted on the wall near attendant seats, 1 – curbside, 1 – streetside. Final locations and design of these sharps containers will be determined at preproduction meeting.

Complies As Written Does Not Comply

Back-Up Alarm - Design

The vehicle shall be equipped with a back up warning device. It shall be wired direct to the park/neutral signal and be activated when the vehicle is shifted reverse. It shall operate at 97 decibels and not compromise Patient Compartment Sound Level test as noted in AMD Standard 006. In the front control panel shall be a momentary cut off switch that is set to disable the alarm for 30 seconds. Note: the backup alarm shall automatically reset itself.

Complies As Written Does Not Comply

Back-Up / Patient Compartment Camera

The vehicle shall be equipped with a back-up and patient compartment camera. The cameras shall be linked to a min. 6" monitor located in the chassis cab rear view mirror location. The monitor view shall automatically go to the reverse view when the vehicle is placed in reverse and return to the patient compartment view when vehicle placed out of reverse.

Complies As Written Does Not Comply

Patient Compartment Speakers - Location

There shall be a speaker mounted in the forward portion of the patient compartment ceiling. It shall be wired to the chassis OEM radio and have an audio adjust control on the MCC wall.

Complies As Written Does Not Comply

Clock - Location

There shall be a 12/24 hour battery operated clock mounted in the MCC area. It shall be mounted in such a way that makes it easy to change the battery.

Complies As Written Does Not Comply

Hidden Unlock Switch - Location

Hidden in the front grille shall be a momentary release switch to unlock all the entry doors. This switch shall be weather proof and be able to withstand all the elements coming into the front grille. The switch shall open the doors on both the module and chassis.

Complies As Written Does Not Comply

Maintenance Compartment - Criteria

Maintenance is a critical component in the overall design of the vehicle. All major electrical components shall be mounted in an exterior compartment exclusively designed for this purpose. Electrical components can sometimes fail and we do not want the risk of filling the patient compartment with smoke and fumes. Also access to all the major components in the exterior compartment makes it more efficient and ergonomically correct for routine maintenance.

Complies As Written Does Not Comply

Oxygen and Suction - Access

The builder shall provide direct access to the oxygen and suction components at the MCC area.

Complies As Written Does Not Comply

Vehicle Undercoating

The ambulance shall have rubberized latex undercoating applied to the underside of the vehicle as per chassis and manufacturers specifications.

Complies As Written

Does Not Comply