REQUEST FOR COMMISSION ACTION
CITY OF INDEPENDENCE
February 25, 2021

Department Fire-EMS **Director Approval** **Shawn Wallis**

AGENDA ITEM Consider bids received for a replacement ambulance.

SUMMARY RECOMMENDATION City Staff is recommending accepting the low bid from Osage Ambulance.

BACKGROUND The City of Independence is replacing a 2016 ambulance and received bids from four ambulance manufacturers.

Builder	Base Bid	Trade-In	Total
Osage Ambulance	$207,080.00	($15,000)	$192,080.00
Feld Fire	$202,615.00	($10,000)	$192,615.00
ARV	$231,455.00	($10,239)	$221,216.00
Braun NW	Only offered demo - did not meet spec		

Fire-EMS is recommending the low bid of $192,080.00 from Osage Ambulance (Emergency Services Supply) with a delivery of September 2021. The expense is covered in the 2021 Capital expense for Fire-EMS ambulance replacement.

SUGGESTED MOTION I move to authorize City staff to award the ambulance bid to Osage Ambulance (Emergency Services Supply) for $192,080.00 with trade-in.

SUPPORTING DOCUMENTS

1. Bid Document
2. Ambulance Bids

ADVERTISEMENT FOR BID

The City of Independence, Kansas, is accepting bids for a new ambulance for the City's Fire-EMS Department, meeting or exceeding the attached specifications.

Bids will be in the office of the City Clerk, 811 W. Laurel Street, Independence, Ks. 67301, on or before 2:00 p.m. Thursday, February 18th. Bids shall be enclosed in a sealed envelope plainly marked on the outside "Ambulance". If bid is mailed, original envelope shall be enclosed in a separate envelope addressed to the City Clerk, also plainly marked on the outside as stated above. E-mail or fax bids will not be accepted. The apparent low bid will then be presented to the Independence City Commission at their next regular meeting for their formal action, subject to secured funding.

The city reserves the right to accept or reject any or all bids or to waive any irregularities should any occur as may best benefit the City. The City Manager may require that no bidder may withdraw a bid for a period of up to forty-five (45) days after the date and hour set for opening bids, but that a bid may be withdrawn up to twenty-four (24) hours prior to expiration of the deadline for submitted bids.

Lacey Lies

Lacey Lies, Director of Finance

01/28/2021

Date

CITY OF INDEPENDENCE KANSAS

SPECIFICATIONS & BID SHEET

DELIVERY INCLUDED TO:

CITY HALL
811 W LAUREL ST
INDEPENDENCE, KS 67301

FOR QUESTIONS, PLEASE CONTACT:

DAVID COWAN, PUBLIC SAFETY
DAVIDC@INDEPENDENCEKS.GOV
(620) 332-2528

Shawn Wallis, Fire-EMS Chief
shawnw@independenceks.gov
620.332.2504

CITY OF INDEPENDENCE KANSAS

"Delivering Excellence"

Bid Specification Requirements

Bids will be sent on January 28, 2021, to prospective bidders

Bids must be returned to the City of Independence by:

February 18th, 2021, at 2:00 p.m.

Mail to:

City of Independence
Attn: Ambulance Bid
811 W. Laurel Street
Independence, Ks. 67301

Bid packages must be a submitted proposal, including all requested information in this bid, as outlined in the next couple of pages (Bid Requirements). The City of Independence will reject any bids received after 2:00 p.m. on February 18, 2021. For confirmation of receipt, please contact David Schwenker, City Clerk at davids@independenceks.gov or 620.332.2500 option 3.

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BID SUBMISSION REQUIREMENTS

1. This unit shall be a Type I modular ambulance on a Ford F-550 Super Duty XLT, 193' wheelbase, in accordance with specifications KKK-A-1822F.

2. This ambulance and equipment shall be delivered to this agency in Independence, Kansas with all delivery fees to be paid by the supplier by TBA by manufacturer for 2021 delivery.

3. Each bidder is required, before submitting the proposal, to be thoroughly familiar with the specifications contained herein. It will be the responsibility of the bidder to determine whether the vehicle specified meets the requirements of applicable state law, and the requirements of applicable KKK-A-1822F specifications

4. The following definitions shall apply to the specifications:
    a. The first stage manufacturer is the original equipment manufacturer that built the specified chassis, and its components.
    b. The second stage manufacturer is the company that will produce the ambulance conversion and required modifications to the O.E.M. chassis for delivery to this agency.

5. The bid process shall be valid for a minimum of 60 days from the date of the bid opening or as otherwise specified on the bid proposal form.

6. Full payment will be made when the unit is received, inspected, found to comply with the procurement specifications, found to be free of damage, and properly invoiced.

7. Bids received shall be evaluated by the purchaser. This evaluation will be based on the following criteria:
    a. Completeness of the proposal;
        i. The degree to which it responds to all requirements, and requests for information contained herein
        ii. Exceptions will be judged by the purchaser.
    b. Bid proposals that do not comply with the prescribed specifications will not be accepted.
    c. The bidder shall submit documentation that the second stage manufacturer is a current member of the Ford QVM (Qualified Vehicle Modifier) program even if an alternate chassis is bid.

8. The purchaser reserves the right to waive any irregularities, informalities, and technicalities in the procedure.

9. Warranty: Printed warranty statements for the ambulance body structure, the ambulance electrical system, the ambulance paint finish, and the general ambulance conversion must be submitted with the bid proposal.

10. All warranties shall begin at the acceptance of the vehicle by this agency.

11. Since it is the purpose of these specifications to provide a modular body that will provide many years of service, the manufacturer of the vehicle bid shall warranty the structural integrity of the modular body for the life of the vehicle ownership by this agency. This warranty shall be in writing and shall be included with the bid proposal. Bidders who fail to meet this requirement shall not be considered as responsive.

12. Each bidder must be able to provide an efficient response to ambulance service needs. Within one business day after the receipt of a verbal, or written notification that warranty service is required, the ambulance supplier shall respond with a verbal statement of the plan to accomplish the repair.

13. The bidder shall state below the location of the ambulance manufacturer's parts, and service facility nearest the purchaser location:

_____

_____

_____

_____

TELEPHONE:_____ FAX: _____

EMAIL: _____

14. The bidder shall state below any additional repair and logistical support that would be available above the requirements of these specifications. These services may be used as an additional basis for a contract award.

_____

_____

_____

15. Delivery: Delivery for this truck is by TBA by manufacturer for **2021 delivery** and will weigh heavily in the determination of the bid award, the delivery schedules that are submitted by the bidder and agreed upon by this agency shall automatically become binding upon the successful bidder.

16. By signing this bid, the bidder agrees that his bid is made without any understanding, agreement, or connection with any other person, firm, or corporation making a bid for the same purpose and that his bid is in all respects fair and without collusion or fraud.

17. Each bidder must furnish all information requested in this bid specifications. In addition, the bidders shall supply at least one complete set of drawings, descriptive literature, and complete manufacturer specifications covering the vehicle model offered. A copy of the purchaser specifications shall be returned with all sections responded to, and specifically indicating all detail deviations from this bid specification. That specification response will form the contract between the bidder and the purchaser.

18. Any area where these bid specifications are not met exactly must be identified in writing and referenced by proposal paragraph number. Details concerning the exceptions must be clearly explained. Each exception will be considered by the purchaser as the degree of impact by the proposed on the vehicle design requested and will be evaluated on their merit at the discretion of the purchaser. Bid proposals not meeting this comparison requirement will be rejected.

19. Patents, and royalties: The bidder, without exception, shall indemnify and save harmless the purchaser and its employees from liability of any kind due to any copyright, patent, or protected process infringement used in the performance of this contract. If the bidder uses any design, device, or materials covered by letters of protection, it is mutually agreed and understood without exception that the bid prices shall include all royalties or costs arising from the use of such design, device, or materials in any way involved in the work.

20. In the event clarification is requested on the content of this specification, the question shall be sent by email to:

Independence Fire-EMS
davidc@independenceks.gov & shawnw@independenceks.gov

Clarification or corrections to these specifications shall not be valid unless they are in written form and signed by the Director of EMS of this agency, or an assigned authority.

21. The bidder must be legally licensed to sell motor vehicles in the State of Kansas. The bidder must submit a copy of their dealer license provided by this State. This is a legal requirement of this State, and proposals submitted by bidders that do not comply with this requirement will be rejected.

CITY OF INDEPENDENCE KANSAS

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22. THIS BID IS GOOD FOR 60 DAYS FROM **February 18, 2021**. THE BID OPENING DATE. CITY OF INDEPENDENCE RESERVES THE RIGHT TO ADD OR DELETE OPTIONS AFTER THE BID IS AWARDED, AND EXPECTS APPROPRIATE CREDIT OR DEBIT FOR SAID OPTIONS. CITY OF INDEPENDENCE RESERVES THE RIGHT TO ACCEPT OR REJECT ANY OR ALL BIDS OR TO WAVIE ANY IRREGULARITIES SHOULD ANY OCCUR AS MAY BEST BENEFIT THE CITY OF INDEPENDENCE.

1. Base bid for requested ambulance $ _____
2. Trade-In value of 2015 Ambulance ($_____)
3. Total Price with trade: $ _____

Pictures and information available on trade-in by request or can be seen by appointment.
Exceptions to the bid:

1. _____
2. _____
3. _____
4. _____
5. _____

If further space is needed, please attach additional pages.

Delivery Date:_____ **Required: TBA by manufacturer for a 2021 delivery**

I hereby certify that the bid submitted by this company is for an ambulance that will meet all of the requirements set forth in these specifications, including all equipment specified, except where exceptions are indicated on a separate piece of paper. Enclosed with our bid is an explanation of what we propose to furnish in lieu of the specified requirements where we have indicated any exceptions. This copy of the specifications and our list of exceptions, if any, shall be considered to be the accurate contract vehicle description upon our award.

_____
Company Name

_____ _____ _____
Address City State

_____ _____ _____
Zip Phone (Alt) Phone

_____ _____
Sales Representative Signature Printed Name

_____
Date

INDEPENDENCE FIRE DEPARTMENT
2021 Ford *"F-550"* w/ 4WD
AMBULANCE SPECIFICATION

INDEX

-1-

3.9 110 VOLT AC SYSTEM
3.8 12 VOLT DC OUTLETS11

-A-

1.13 ALTERNATORS
10.3 AMD MEMBERSHIP
8.3 ANTENNA PRE-WIRE
1.3 AUXILIARY POWERTRAIN CONTROL (APC)
1.9 AXLE, REAR

-B-

3.4.5 BACKUP ALARM OVERRIDE
1.12 BATTERIES
6.0 BODY FINISH
1.7 BRAKES
4.2.2 BULKHEAD CABINETS
5.3 BUMPER, REAR STEP

-C-

4.2 CABINETS, INTERIOR
4.2.1 CABINETS, LEFT WALL
1.0 CHASSIS
4.12 CLIMATE CONTROL
3.16 CLOCK, PATIENT COMPARTMENT
3.4 CONTROL PANEL PODS BUTTONS
1.18 COOLING SYSTEM, ENGINE
4.10 COT MOUNT
4.3.1 CPR SEAT CABINET
3.4.6 CURBSIDE SCENE LIGHTS "ON" WITH CURBSIDE DOOR

-D-

8.1 DECALS, NO SMOKING & OXYGEN EQUIPPED
6.2 DECALS, STAR-OF-LIFE
2.1 DIMENSIONS, EXTERIOR
2.2 DIMENSIONS, INTERIOR
5.4 DOORSTEP, SIDE

2.8 DOORS, EXTERIOR COMPARTMENT AND ENTRY
3.12 DOOR SWITCHING

-E-

3.7 ELECTRICAL SERVICE CABINET
3.0 ELECTRICAL SYSTEM
3.1 ELECTRICAL SYSTEM COMPONENTS
3.5 ELECTRICAL WIRING
3.4.2 EMERGENCY MASTER BUTTON
1.2 ENGINE
5.0 EXTERIOR BODY
5.6 EXTERIOR COMPARTMENT CONFIGURATION
2.7 EXTERIOR COMPARTMENT CONSTRUCTION

-F-

3.4.3 FLASHER
4.1 FLOOR, PATIENT COMPARTMENT
2.6 FLOOR SUB-STRUCTURE
10.5 FORD POOL PROGRAM
10.2 FORD QVM PROGRAM
1.10 FUEL TANK

-G-

1.4 GAUGES AND METERS
2.3 GENERAL CONSTRUCTION
4.8 GRAB HANDLES, DOORS
4.7 GRAB RAIL, OVERHEAD
3.6 GROUNDING SYSTEM

-H-

4.5 HEADLINER
1.17 HEATER AND AIR CONDITIONER, CHASSIS

-I-

4.11 INSULATION
8.2 I.V. HOLDERS

-K-

10.1 KKK-A-1822-F CERTIFICATION

-L-

2.9 LICENSE PLATE HOLDER
5.7 LIGHTING, DOT
3.10 LIGHTING, EMERGENCY
3.15 LIGHTS, PATIENT COMPARTMENT
3.19 LOW VOLTAGE ALARM

-M-

1.19 MIRRORS, OUTSIDE
1.22 MISCELLANEOUS CHASSIS ITEMS
8.0 MISCELLANEOUS EOUIPMENT
2.0 MODULE CONVERSION
3.4.1 MODULE POWER BUTTON

-O-

5.6 OXYGEN COMPARTMENT
4.14 OXYGEN OUTLETS

-P-

6.1 PAINTING PROCEEDURE
4.6 PANELING, INTERIOR
3.4.4 PARK OVERRIDE
4.0 PATIENT COMPARTMENT
7.0 PAYLOAD
7.1 PAYLOAD

-R-

3.4.8 REAR SCENE LIGHTS “ON” IN REVERSE
3.4.7 REAR SCENE LIGHTS “ON” WITH REAR DOORS OPEN
5.1 REAR WHEEL WELL TRIM
10.0 REQUIREMENTS OF THE MANUFACTURER
10.4 REMOUNTING AND REFURBISHING
2.4 ROOF
5.2 RUB RAILS
1.21 RUNNING BOARDS AND MUD FLAPS
1.23 REMOTE ENTRY

-S-

3.11	SCENE LIGHTS
4.3.2	SEAT, CPR
4.3	SEAT, EMT/ATTENDANT
1.16	SEATS, DRIVER'S COMPARTMENT
4.13	SHARPS CONTAINER
2.5	SIDE WALLS
3.13	SIREN AND SPEAKERS
3.14	SPOTLIGHT
1.5	SPRINGS, AXLE RATINGS & SHOCKS
4.2.4	SQUAD BENCH
4.2.3	SQUAD BENCH CABINETS
4.9	STAINLESS STEEL SIDE WALL
1.6	STEERING
5.5	STONE SHIELDS
3.17	SUCTION - ON BOARD
3.20	SWITCH CONSOLE, DRIVER'S
3.20.1	SWITCH CONSOLE, PATIENT COMPARTMENT

-T-

1.8	TRANSMISSION
1.20	TRIM PACKAGE, CAB

-U-

4.4	UPHOLSTERY

-V-

1.1	VEHICLE AND WHEEL BASE
3.18	VENTILATION
3.3	VOLTMETER

-W-

3.2	WARNING DISPLAYS
9.0	**WARRANTY**
9.1	WARRANTY
1.11	WHEELS AND TIRES
1.14	WINDOWS, CAB
1.15	WINDSHIELD WIPERS
8.4	WIRING SCHEMATICS

INDEPENDENCE FIRE DEPARTMENT
2021 FORD *"F-550"* w/ 4WD
AMBULANCE SPECIFICATIONS

1.0 CHASSIS

1.1 VEHICLE AND WHEELBASE
2021 Ford F-550 Super Duty XLT chassis with 4-wheel drive and dual rear wheels, 193-inch wheelbase, 108-inch cab to axle, Ford Ambulance prep package 47A.

COMPLY? .....YES_____NO _____

1.2 ENGINE
Ford 6.7-liter Power Stroke Turbo Charged V-8 Diesel with OEM engine block heater.

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

1.4 GAUGES AND METERS
Speedometer, odometer, fuel gauge, temperature, oil pressure, digital voltmeter, engine hour meter.

COMPLY? .....YES_____NO _____

1.5 SPRINGS, AXLE RATINGS, & SHOCKS
Maximum GVWR – 18,000 lbs. GVWR
Front: Monobeam with coil springs, shock absorbers and stabilizer bar.
Rear: Liquid Spring Suspension with auto dump feature that lowers the rear of the unit to allow for ease of cot loading when the rear doors are open.
COMPLY? .....YES_____NO _____

1.6 STEERING
Power steering with tilt wheel and cruise control.

COMPLY? .....YES_____NO _____

1.7 BRAKES
Heavy duty, hydro-boost assisted type, 4-wheel anti-lock disc brake system.

COMPLY? .....YES_____NO _____

1.8 TRANSMISSION
Torqueshift ™ heavy duty 6-speed Select Shift transmission with external oil cooler.

COMPLY? .....YES_____NO _____

1.9 AXLE, REAR
4.10 gear ratio w/ limited slip axle.

COMPLY? .....YES_____NO _____

1.10 FUELTANK
Single tank w/ 40-gallon capacity.

COMPLY? .....YES_____NO _____

1.11 WHEELS AND TIRES
Seven (7) LT 225/70RX19.5G Steel Belted Radial tires, BSW all season tread. The spare tire will be mounted in the left rear exterior compartment. Stainless steel wheel inserts with valve stem extensions will be provided. The valve stem extensions are to be steel braided lines that are held in place with stainless steel brackets. These brackets are to be located in such a way as to provide easy access to both the inside and outside rear tires valve stems for the checking of tire pressure and for the addition of air when required.

COMPLY? .....YES_____NO _____

1.12 BATTERIES
Two 750 CCA mounted in the engine compartment and wired parallel in OEM configuration that complies with Ford QVM and KKK-A-1822-F requirements. Batteries will be wired so that both will always be used for starting and controlled by a power cut off switch. The Ford ignition key activates the cutoff switch. Power can be provided to the module without the engine running by turning the ignition key to accessory position.

COMPLY? .....YES_____NO _____

1.13 ALTERNATORS
Dual Ford OEM alternators with internal regulators. One 200-amp alternator and one 150-amp alternator for a combined for a total of 350 amps

COMPLY? .....YES_____NO _____

1.14 WINDOWS, CAB
Tinted safety glass is installed in all exterior windows. Ford OEM power operated windows.

COMPLY? .....YES_____NO _____

1.15 WINDSHIELD WIPERS
Two speed electric, with washer and adjustable intermittent cycle.

COMPLY? .....YES_____NO _____

1.16 SEATS, DRIVER'S COMPARTMENT

Deluxe clothe OEM High Back Captain's Chairs, seat belts and shoulder harnesses.

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

COMPLY? .....YES_____NO _____

1.17 HEATER AND AIR CONDITIONER

OEM heavy duty, high output.

COMPLY? .....YES_____NO _____

1.18 COOLING SYSTEM, ENGINE

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

COMPLY? .....YES_____NO _____

1.19 MIRRORS, OUTSIDE

OEM heated mirrors with power adjustment and built-in 2" x 6" convex mirrors, dual direction breakaway mounting arms with telescoping width adjustment.

COMPLY? .....YES_____NO _____

1.20 TRIM PACKAGE, CAB

XLT Trim Package; full stainless-steel wheel simulators, chrome front bumper and grill. Color keyed door trim with map pockets, rubber floor mat, padded sunvisors, courtesy and dual dome lights, AM/FM Stereo Radio w/digital screen / GPS Navigation /dual cab speakers. Power door locks, cruise control, tilt steering wheel, and power adjustable brake and accelerator pedals.

COMPLY? .....YES_____NO _____

1.21 RUNNING BOARDS AND MUD FLAPS

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

COMPLY? .....YES_____NO _____

1.22 MISC. CHASSIS ITEMS

Jewel effect daytime running headlights, dual pitch horn, reduced sound level exhaust, OEM standard undercoating, step-well pad and factory supplied jack and tire tools, dual air bags.

COMPLY?.....YES_____NO _____

1.23 REMOTE ENTRY

Remote Entry & anti-theft with two key Fobs' shall be included. The Module entry door locks will also be controlled by the factory Ford key fob. A hidden unlock switch will be installed in the chassis grill.

COMPLY? .....YES_____NO _____

2.0 MODULE CONVERSION

2.1 DIMENSIONS, EXTERIOR

Overall vehicle length	316.0 inches
Overall vehicle height	113.5 inches
Overall module body length	176.0 inches
Overall module body height	95.0 inches
Overall module body width	96.0 inches

COMPLY? .....YES_____NO _____

2.2 DIMENSIONS, INTERIOR

Length forward door to rear door	170.25 inches
Width interior wall to wall	92.0 inches
Width of aisle	49.0 inches
Height floor to ceiling	74.0 inches
Loading height	34.5 inches

NOTE: "Kneeling" rear suspension required for load height in KKK and NFPA limits.

COMPLY? .....YES_____NO _____

2.3 GENERAL CONSTRUCTION

The entire body will be a welded and **SEAMLESS** one-piece body **(No Exceptions)**. The entire perimeter and around all openings of the body shall be fully welded and ground smooth thus eliminating any joints or seams. The use of tongue and groove method of construction that requires the use of a seam sealer is not acceptable. This is to prevent the cracking of paint at these areas resulting in a buildup of road dirt and grime and the eventual development of corrosion along the tongue and groove seams.

COMPLY? .....YES_____NO _____

The aluminum skin, the roof and side panels, shall be permanently fastened to the framework using Lord 406/19 Acrylic Adhesive. Adhesive is applied to the sidewall skin to prevent warp age, oil canning and metal deflection associated with the welding of the sidewall skin to the structural framework. The use of double back adhesive tape is prohibited to eliminate the possibility of the adhesive tape failing to maintain a bond to the external skin.

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

The roof panel shall be a single sheet of aluminum. Covering the roof of the exterior body with sectional pieces of aluminum panels is prohibited. This is to eliminate the necessity for joints or seams where these panels join.

COMPLY? .....YES_____NO _____

The wall and roof support framework shall be .125" 6061-T6 extruded aluminum box beams and extrusions spaced on 12" centers or less. There shall be no frame members spaced at a distance in excess of 12”. The roof support framework shall additionally include .125” 6061-T6 extruded 1” x 2” aluminum box beams running the full length of the roof. The frame and skin shall be fully welded with no rivets.

COMPLY? .....YES_____NO _____

The exterior of the body will be finished smooth with 45-degree **SEAMLESS** beveled extruded corners presenting a modern and dynamic appearance. The outer wall thickness of the extruded corners shall be .250” to provide additional protection at all corners. The body will be designed and built to provide impact and penetration resistance, with appropriate channel reinforcing to assure rigidity.

COMPLY? .....YES_____NO _____

All parts of the body and attachments will be fastened together with rust resistant fasteners in a manner that will preclude loosening of any bolts and screws, and the cracking of welded joints. The exterior body panels will be made of not less than 0.125" thick metal and be reinforced at all points where equipment will be attached. Additional plating will be added in the Street side and curbside walls for future installation of 6-point seatbelts.

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

2.4 ROOF

The roof surface shall be **SEAMLESS** and **CROWNED** and of **ONE PIECE** of .125" aluminum (3003-H14). The use of any type of sealer or caulking material is strictly forbidden. There shall be no lip or protrusion on the roof that could result in the entrapment of any water or moisture.

COMPLY? .....YES NO _____

The perimeter of the roof shall be constructed of 45-degree **SEAMLESS** beveled extrusions that eliminate any lip or protrusion providing a smooth finish. The outer wall thickness of the roof perimeter extrusions shall be .250" to provide additional protection at all perimeter corners.

COMPLY? .....YES_____NO _____

The roof under structure will be fabricated from extruded aluminum box beams (6061-T6). The under structure will be constructed by welding 1" x 2" x .125" box beams lengthwise and by welding 2" x 2" x .125" box beams, spaced on 12" centers or less, crossways forming a cross sectional grid roof support framework. The complete roof will be treated with a sound-deadening barrier. The roof panel shall be fully perimeter welded and adhesive bonded to the roof under structure with Lord 46/19 Acrylic Adhesive. The use of skip or intermittent welding of the roof perimeter is unacceptable.

COMPLY? .....YES_____NO _____

2.5 SIDE WALLS

The body sidewall skin shall be constructed of .125" aluminum (3003 H14). The sidewall under structure will be fabricated by welding 2" x 2" x .125" extruded aluminum box beams vertically, spaced no further than on 12" centers. The vertical tubing will join and be welded to roof supports (2" x 2" x .125" extruded aluminum box beams) to form an interlocking grid between the sidewall and the ceiling. The complete sides will be treated with a sound-deadening barrier. The body sidewall skin shall be fully welded around the entire perimeter and all body openings and adhesive bonded to the sidewall framework with Lord 406/19 Acrylic Adhesive. The curbside of the module, forward of the rear wheel will have a 4" skirt drop.

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

2.6 FLOOR SUB-STRUCTURE

The floor shall be at the lowest level permitted but not more than 34 ½ inches from the ground with **NO MODIFICATION TO THE FORD OEM CHASSIS SUSPENSION.**

COMPLY? .....YES_____NO _____

The floor sub-structure shall consist of two (2) 1/4" walls 2" x 2" aluminum tubes running at the outer edge for the full length of the floor and the chassis frame rails. There shall then be sixteen (16) 1 ½" x 1 ½" x ¼" walls 1 ½" x 2" aluminum tubes running the width of the floor and fully welded to the outer tubes. This sub-structure frame is to mount on top of the Chassis frame rails via the 12 OEM Pucks. 2 Full-Length Plates measuring ¾" x 6" shall be welded to the underside of the 1 ½ x 1 ½ tubes, one left and one right. The outer edges of these plates

shall be welded to the 2 x 2 primary box beams. These plates shall be bolted, via OEM rubber mounts, to gusseted steel brackets bolted to the OEM frame. There shall be twelve (12) rubber mounts attaching the body to the frame.

COMPLY? .....YES_____NO _____

2.7 EXTERIOR COMPARTMENT CONSTRUCTION

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

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

2.8 DOORS

The corner of each door frame shall be ¼” Cast Aluminum inserted & welded to horizontal & vertical extrusions. This Cast part shall ensure superior strength as well as uniform fit & finish.

COMPLY? ..... YES_____NO_____

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

COMPLY? .....YES_____NO _____

All doors shall be constructed of. 125 aluminum and 2 ½” thick.

COMPLY? .....YES_____NO _____

The inner panel on all exterior compartment and entry doors will be fastened to the extruded doorframe and recessed into the door frame extrusion for a flush finish. Surface mounting of

any interior door panels are not allowed. All fasteners used for the mounting of the interior panels are to have a rubber grommet affixed to the underside of the screw head to prevent the fastener screws from loosening and backing out of the extrusion. The interior door panels shall be readily removable for access to the interior of the door and the latching mechanism.

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

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

The door linkage rods’ connecting the door handles and the rotary latches are to be 5/32 steel rods threaded on the turn buckle end. They shall be straight direct pull rods with no bends built into the rods allowed. Adjustments to the entry door linkage rods are to be provided by a turnbuckle located above and below and adjacent to each interior door handle.

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

All compartment doors will be equipped with a gas strut door stay that holds the door at 90 degrees to the body when open. All gas struts are to be mounted in such a way as to allow for easy access in the event that replacement or repair is required.

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

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

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

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

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

COMPLY?..... YES_____NO _____

Rear and side patient compartment doors shall have dark tinted safety glass windows encased in extruded aluminum frames. Each rear door shall have an 18.5" x 17.5" fixed window. The side door shall have an 18.5" x 17.5" slide opening window with screen and window lock.

COMPLY?..... YES_____NO _____

Right side entry door opening 77"H X 31" W **(Note: Door forward layout)**
Rear entry door opening (double door): 62.5"H X 48” W

COMPLY? .....YES_____NO _____

2.9 LICENSE PLATE HOLDER

Installed in the center of the rear kick plate above the rear step bumper there shall be a Cast Products license plate holder. There are to be two LED lights mounted in the holder.

COMPLY? .....YES_____NO _____

3.0 ELECTRICAL SYSTEM

3.1 ELECTRICAL SYSTEM COMPONENTS

A Weldon V-MUX 100% solid-state microprocessor based multiplex system will be installed to control the electrical functions. The system will provide diagnostics lap top plug-in capability. The front console shall contain fifteen (15) PODS buttons with an OLED, text display. The rear panel shall contain twelve (12) PODS buttons. PODS buttons are flexible to be used as latching, multi-level or momentary buttons. A Weldon High Content Node (S) shall be provided. There could be one or more depending upon demand requirements.
A Hanscom camera system will be included with a rear facing camera mounted to the exterior rear of the module along with a forward-facing interior camera mounted above the rear doors. A Hanscom display will be installed in the chassis cab.

A custom chassis console will be provided with dual drink holders. (Design upon bid award)

Comply .....YES____No_____

3.2 WARNING DISPLAYS

A digital OLED display and audible alarm will be integrated into the cab console and programmed through the multiplex system to provide visual and audible indications for:

Outside storage compartment "door open" warnings
Module Curbside and Rear “Door Open” Warning
Low voltage alarm
System Voltage
System Errors

Comply….....YES____No_____

3.3 VOLTMETER

The OLED display on the console will display system voltage

Comply .....YES____No_____

3.4 CONTROL PANEL PODS BUTTONS

A console panel will be mounted in the cab and a rear panel will be mounted in the access door to the electrical service cabinet in the action area. The PODS buttons will control all Emergency Warning functions as well as being able to control the Patient Compartment lighting and module heat/ac functions.

The PODS buttons will have dimmable perimeter backlighting for easy identification and a red LED will light up when turned on.

Comply….....YES____No_____

3.4.1 MODULE POWER BUTTON

A module power button for the electrical system will be provided on the front panel.

Comply….....YES____No_____

3.4.2 EMERGENCY MASTER BUTTON

A single emergency master button will be supplied for activating all the emergency warning lights and will be provided on the front console panel. The emergency master button will activate the module power automatically.

Comply….....YES____No_____

3.4.3 FLASHER

The flasher will be provided within and programmed by the multiplex electrical system.

Comply….....YES____No_____

3.4.4 PARK OVERRIDE

A park override PODS button, located on the Front Console Panel, will reactivate all lights disabled when the transmission is placed in the neutral/park position.

Comply….....YES____No_____

3.4.5 BACKUP ALARM OVERRIDE

The Front Console Panel will have a PODS button to disable the backup alarm. This override will automatically reset to “Enabled” when the vehicle is removed from Reverse.

Comply….....YES____No_____

3.4.6 CURBSIDE SCENE LIGHTS "ON" WITH CURBSIDE DOOR

The curbside scene lights will be programmed to activate when the curbside door is in the open position.

Comply….....YES____No_____

3.4.7 REAR SCENE LIGHTS "ON" WITH REAR DOORS OPEN

The rear scene lights will be programmed to activate when the rear doors are in the open position.

Comply .....YES____No_____

3.4.8 REAR SCENES “ON” IN REVERSE

The system will be programmed to provide activation for the rear scene lights, and the rear side scene lights, when the transmission selector lever is placed into the "reverse" position.

Comply….....YES____No_____

3.5 ELECTRICAL WIRING

All of the vehicle's electrical equipment will be served by circuits separate and distinct from the chassis electrical system. All circuits shall be rated to carry 125% of its maximum load. All electrical wiring will be run in grease, oil, heat and moisture resistant looming. Harnesses will be fastened with vinyl-clad clamps and grommeted at any area they contact a metal edge.

Every load carrying wire will be a minimum of 14-gauge and will be color-coded and heat embossed with its function every 6 inches. There will be at least a 6-inch service loop of wire at the point of attachment to each component. All electrical connections will be machine crimped; the use of Scotch-locks is strictly prohibited.

COMPLY? .....YES_____NO _____

3.6 GROUNDING SYSTEM

Due to the fact that most electrical problems in all 12-volt systems, but especially in emergency vehicles are due to problems with bad grounds, the body will be grounded to the chassis frame with 2 heavy duty braided grounding straps. In addition, there will be grounding straps from the engine block to the body and frame. There is to be a Major Ground Buss Bar in the electrical panel that is connected to the ground straps and frame, and then each individual circuit will have its own ground wire run to that ground buss bar. This will greatly improve the grounding of all circuits in the vehicle and insure less electrical problems.

The Weldon HC NODES shall be ground directly to the chassis batteries to eliminate any interference or possible loss of ground which would result in the shutdown of the entire NODE.

COMPLY? .....YES_____NO _____

3.7 ELECTRICAL SERVICE CABINET

The electrical service panel will be mounted in the electrical service cabinet above the action area and will be easily accessible by activating a single latch allowing the Button POD Panel section to swing down. The V-Mux Node(s) will be located in an easily accessible location in the electrical service cabinet for service technicians to perform troubleshooting and service work. This cabinet must be solely for the electrical system components with a large enough door opening to perform work on the systems completely without removing them from the cabinet.

Under no circumstances will any of the electrical systems be mounted in any exterior compartment. **NO EXCEPTIONS**

COMPLY? .....YES_____NO _____

3.8 12V DC OUTLETS

There shall be two (2) Cigar style 12V DC outlets, one located in the action area, and one above the right In/Out ALS compartment counter.

COMPLY? .....YES_____NO _____

3.9 11OV AC SYSTEM

There shall be a weatherproof 11OV- 125V male Kussmall receptacle rated at 20 amps with a spring-loaded cover assembly located on the front left corner of the module body for incoming 110-volt power. This receptacle shall be labeled. It shall be wired through one 15-amp circuit breaker. A shoreline indicator will be included above the shoreline outlet. The circuit shall include (1) 110-volt/USB interior receptacle located in the action wall area, (1) one rear of the CPR seat above the rear counter, (1) one the bench wall above the In/Out countertop, (1) six outlet power strip inside the In/Out compartment and (1) in the chassis cab behind the passenger street. All outlets shall illuminate per KKK-A-1822-F.

A Vanner Inverter/Conditioner w/remote switch, Model 20-1050-CUL will be supplied

COMPLY? .....YES_____NO _____

3.10 LIGHTING, EMERGENCY

The unit shall be equipped with the following warning lights:

14) Whelen 900 Series 9 x 7 red/blue split LED lights as follows:
- 6) Facing forward
- 4) Facing rearward
- 2) Facing right
- 2) Facing left

1) Whelen Series 9 x 7 clear LED light installed top center forward.
1) Whelen Series 9 x 7 amber LED light installed top center rearward.
2) Whelen 500 Series red LED lights mounted in the Front Fenders.
3) Whelen 500 Series red LED lights mounted in lower corners of entry doors.
4) Whelen 500 Series 500 red LED's in Chrome Housings in the Grill.
6) Whelen LED Strip lights installed in the rub rails. (3) per side.

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

COMPLY? .....YES_____NO _____

3.11 SCENE LIGHTS

There shall be four (4) LED Whelen 900 Series 9 x 7 with 13-degree tilt built into the lenses mounted two (2) lights on the left side and two (2) lights on the right side. There shall be two (2) LED Whelen Series 9 x 7 with 13-degree tilt built into the lenses mounted on the rear. A separate switch on the driver's switch panel shall control each pair. In addition, the right side and rear scene lights shall activate when the right side or rear doors, respectfully, are open.

COMPLY? .....YES_____NO _____

3.12 DOOR SWITCHING

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

COMPLY? .....YES_____NO _____

3.13 SIREN AND SPEAKERS

Two (2) - Sirens shall be installed Whelen Model 295 SL SA-1 with Wail, Yelp, Hi/Lo and Phaser sounds, the second siren may be switch controlled with wail/yelp. Dual Cast Products Siren Speakers shall be mounted outboard in the face of the Chrome Front Bumper, below the Headlights, in cast aluminum housings. One speaker per siren.
COMPLY? .....YES_____NO _____

3.14 SPOTLIGHT

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

COMPLY? .....YES_____NO _____

3.15 LIGHTS, PATIENT COMPARTMENT

The ceiling headliner shall contain eight (9) Whelen High - Low intensity LED dome lights. The left and right banks of lights shall be switched separately. In addition, the left bank high mode can be switched from the drivers switch panel and will be activated by opening of the side or rear entry doors. There shall be a timer switch installed in the right wall above the In/Out cabinet countertop. The timer switch will allow the left bank of Dome Lights to turn on even when the master switch is in the off position.

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

COMPLY? .....YES_____NO _____

3.16 CLOCK, PATIENT COMPARTMENT

A battery-powered Atomic Digital Clock w/Indoor Temp. & Date. 12/24 Hour display, Automatic updates for time (including DST), month, day, date Calendar.

COMPLY? .....YES_____NO _____

3.17 SUCTION - ON BOARD

An SSCOR/Board On Board suction system with an Impact E-12 Suction Pump shall be provided and mounted on the back wall above the action area counter top just forward of the CPR Seat.

COMPLY? .....YES_____NO _____

3.18 VENTILATION

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

COMPLY? .....YES_____NO _____

3.18 a AIR HORNS

Buell air horns with (2) mounted trumpets, air compressor, and air reserve tank. Air horn activated by rocker switch on the console. Trumpet location to be determined with award.

3.19 LOW VOLTAGE ALARM

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

COMPLY? .....YES_____NO _____

3.20 SWITCH CONSOLE, DRIVER'S

There shall be a switch console mounted in the center of the cab floor between the seats in such a way as to not interfere with access to the dash yet easily accessible to the driver. The console shall be easily removable to allow access for service. There shall be space provided for the installation of radios below the Weldon V-Mux Switch Panel. The switch panel shall be esthetically appealing and incorporate as follows:

Top Row:
“E” Master Switch / Primary/Secondary / Light Bar / Heat - AC / Patient Domes / Mod Power

Second Row:
“OLED” Display Screen / Back up Alarm Disable / Voltage Alarm Disable

Third Row:
Door Ajar Light / Compartment Ajar Light

Bottom Row:
Emitter / Siren - Horn / Left Scenes / Rear Scenes / Right Scenes

COMPLY? .....YES_____NO _____

3.20.1 SWITCH CONSOLE, PATIENT COMPARTMENT

There shall be (2) rear control panels in the patient compartment. (1) one in the action area, (1) one on the bench wall. The following switches shall be in the rear control panel, which shall be hinged for easy access to components. They shall be mounted in a double row at an angle facing the center of the cot and the squad bench.

Top Row:
Mod Power / Left Domes / Right Domes / O2 Light / Attendant Light

Bottom Row:
Inverter / Suction / Exhaust Fan / HVAC Fan Speeds / Heat - AC

COMPLY? .....YES_____NO _____

All switches in front and rear panels shall be Weldon Button Pod switches that are permanently marked by function, illuminate when activated and backlit for night visibility.

COMPLY? .....YES_____NO _____

4.0 PATIENT COMPARTMENT

4.1 FLOOR, PATIENT COMPARTMENT

The sub floor shall consist of .090" thick 3003 H14 corrosion resistant aluminum sealed watertight. Over the aluminum sub-floor there shall be a sheet of ¾”, 13 ply, exterior grade plywood that is caulked and sealed.

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

4.2. CABINET'S, INTERIOR

All interior cabinets shall be built using ¾" cabinet grade, finished both sides, 7 ply, solid core, birch plywood. The use of plywood of any lesser quality or thickness is strictly prohibited.

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

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

Interior cabinets to be lighted with On/Off switch in control panels.

COMPLY? .....YES_____NO _____

4.2.1 CABINETS, LEFT WALL

Cabinets shall be designed as per drawings with a one-piece molded Fiberglass countertop for the attendant in the action area and rear of the CPR seat. Storage cabinets shall be located in the left rear, above the CPR seat, and above the action area. The cabinet above the action area will have the same angle front to back as the cabinet with the switch panel. Cabinets fore and aft of the CPR seat to be angled. (2) Two cabinet to have tilt up speed load cabinet windows. Track type adjustable shelving in interior cabinets.

(2) Two pull out drawers for general storage installed fore and aft of the CPR seat. (1) 20" W x 7" T forward of the CPR seat and (1) 20" W x 4" T rear of CPR seat.

COMPLY? .....YES_____NO _____

The action wall shall house the technician's console, two oxygen outlets, vacuum outlet, aspirator collection bottle, climate control thermostat and fan control, one 12-volt connection and one lighted 11OV/USB duplex outlet. The upper action wall area shall be hinged for ease of access. The action area counter to be extended to 73".

A locking narcotics cabinet will be installed in the action area

COMPLY? .....YES_____NO _____

4.2.2 BULKHEAD CABINETS

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

The bulkhead shall incorporate a pass-through Plexiglas sliding window from the rear patient compartment to the front cab. This window shall be sealed and weatherproof via a flexible rubber boot connection between the cab and the modular body.

COMPLY? .....YES_____NO _____

4.2.3 SQUAD BENCH CABINETS

Cabinets shall be mounted at the ceiling level directly over the entire length of the squad bench. They shall have "flip-up" Plexiglas doors. There must be a minimum of 43" from the bottom of these cabinets to the top of the squad bench. An angled switch panel shall be installed forward of the bench. A 26" W x 14" T X 21" D cabinet with a tip up door and Southco latch will be installed above the In/Out cabinet.

A (4) slot glove storage will be installed above the side entry door.

A custom In/Out cabinet will be installed forward of the squad bench, it shall include a fiberglass counter top, adjustable shelf and a slid-out drawer that slids toward the rear.

COMPLY? .....YES_____NO _____

4.2.4 SQUAD BENCH

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

COMPLY? .....YES_____NO _____

4.3 SEAT, EMT / ATTENDANT

An attendant seat shall be located at the head of the primary cot. It shall be a high back deluxe seamless vinyl captain's chair with an integrated child safety seat mounted on a swivel base as approved by the seat manufacturer. Seat belt shall be included for attendant safety.

COMPLY? .....YES_____NO _____

4.3.1 CPR Seat Cabinet

A single cabinet shall be mounted at the ceiling level directly over the entire length of the CPR seat. It shall have a "flip-up" style Plexiglas door. There must be a minimum of 43" from the bottom of this cabinet to the top of the CPR seat cushion.

COMPLY? .....YES_____NO _____

4.3.2 SEAT, CPR

A sidewall seat will be mounted in the center of the left wall. This seat will be comprised of three molded/contoured seamless vacuum formed vinyl cushions. A seat belt shall be provided for attendant safety. Cushions shall be vacuum-formed seamless. One-inch cushions shall be installed on three sides of head area.

COMPLY? .....YES_____NO _____

4.4 UPHOLSTERY

All door panels, seat cushions, and protective pads shall be constructed of fire-retardant foam, covered with minimum 40-ounce vinyl. All seat and back cushions in the patient compartment shall be vacuum-formed seamless.

COMPLY? .....YES_____NO _____

4.5 HEADLINER

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

COMPLY? .....YES_____NO _____

4.6 PANELING, INTERIOR

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

COMPLY? .....YES_____NO _____

4.7 GRAB RAIL, OVERHEAD

A full-length yellow handicap style 1 1/2" diameter grab rail shall be installed on patient compartment ceiling. This rail shall be capable of supporting a minimum of 300 pounds. This Rail shall be treated with Agion Anti-Bacterial Coating.

COMPLY? .....YES_____NO _____

4.8 GRAB HANDLES, DOORS

All entry doors will have a matching yellow heavy-duty stainless-steel handicap style 1 1/2" "V" bar grab handle that will be securely mounted slightly below the window. These Bars shall be treated with Agion Anti-Bacterial Coating.

A yellow 12” grab bar will be installed inside of the side entry and rear doors to allow ease of entry.

COMPLY? .....YES_____NO _____

4.9 STAINLESS STEEL WALL

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

COMPLY? .....YES_____NO _____

4.10 COT MOUNT

A Stryker floor plate shall be installed. A Stryker Mass casualty kit, Antlers and cot latch will be supplied.

COMPLY? .....YES_____NO _____

4.11 INSULATION

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

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

4.12 CLIMATE CONTROL

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

COMPLY? .....YES_____NO _____

The unit shall be a Pro-Air with 32,000 BTU cooling capacity and a 35,000 BTU heating capacity. The blower motor shall have permanent magnets and be capable of delivering 630 CFM of airflow. It must be removable without removing entire heat/cool unit and without disconnection of any coolant lines. The unit must include an auxiliary HVAC underskirt condenser. **NO EXCEPTIONS**

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

4.13 SHARP'S CONTAINER

Drop-in Sharp's/Waste access will be installed at the head of the bench with access to containers through a swing out door under the bench lid for ease of replacing.

COMPLY?..... YES_____NO _____

4.13 a ADU UV-C AIR AND SURFACE DISINFECTION LAMP

SHALL BE RECESSED MOUNTED IN THE CEILING HEADLINER WITH CONTROLS MOUNTED IN THE CAB OF THE AMBULANCE.

4.14 OXYGEN OUTLETS

Oxygen system shall be plumbed with conductive hose from oxygen compartment to (2) two Puritan-Bennett Ohio style oxygen outlets in the action area, (2) two in the ceiling above the cot and a third over the In/out counter on the bench wall.

COMPLY? .....YES NO _____

5.0 EXTERIOR BODY

5.1 REAR WHEEL WELL TRIM

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

COMPLY? .....YES_____NO _____

5.2 RUB RAILS

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

COMPLY? .....YES_____NO _____

5.3 BUMPER, REAR STEP

The rear step assembly shall be constructed of 1 ¾" X 1 3/4" tubular steel frame bolted to the chassis frame. The center section shall be non-skid grip strut aluminum and shall "Flip-Up" to allow adequate clearance of the Cot Wheels while Cot is being loaded. The ends shall be constructed of diamond plate end caps with 18" X 4" X 4" heavy-duty rubber dock bumpers.

COMPLY? .....YES_____NO _____

5.4 DOORSTEP, SIDE

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

COMPLY? .....YES_____NO _____

5.5 STONE SHIELDS

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

COMPLY? .....YES_____NO _____

5.6 EXTERIOR COMPARTMENT CONFIGURATION

NOTE: See Drawings for Exact Compartment Location and Dimensions

#1 OXYGEN / BACKBOARD COMPARTMENT

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

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

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

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

COMPLY? .....YES_____NO _____

#2 GENERAL STORAGE COMPARTMENT

This compartment shall be located street side between the #1 compartment and the left side drive wheels and is to be used for general storage. There is to be a double door on this compartment.

There shall be a full width, full depth aluminum “pan” style storage shelf installed in the compartment. The shelf is to be mounted on two (2) sets of infinitely adjustable uni-strut tracks at each end of the shelf with rubber matting covering the topside of the shelf.

COMPLY? .....YES_____NO _____

#4 SPARE TIRE COMPARTMENT

The spare tire shall not be mounted in a compartment but delivered with the truck. The cabinet shall have an adjustable shelf centered in the cabinet for general storage.

COMPLY? .....YES_____NO _____

#5 CURBSIDE BACKBOARD COMPARTMENT

The right rear curb side exterior compartment shall be a single door full height vertical compartment for the purpose of storing a minimum of two (2) backboards, and miscellaneous other related equipment. The compartment is to be divided equally with an aluminum divider. There shall be a shelf located on the forward side of the divider approximately 5’ above the floor. This compartment to have In/Out Access through a 3/8” plexi door.

COMPLY? .....YES_____NO _____

#7 ALS IN/OUT ACCESS

There shall be a single 49” tall x 29” W door located just rear of the side entry door (curbside) allowing for In/Out access to the ALS interior cabinet.

COMPLY? .....YES_____NO _____

5.7 LIGHTING, DOT

The vehicle shall be equipped with jewel affect daytime running headlights and two amber park/turn lights on the front. The Module Body shall have at least 11 Innovative Brand LED clearance lights with “each light having four (2) LED’s and grounded via a ground wire”. Each top front corner shall have amber lights mounted on the front and side of each corner.

There shall be three red lights at the top rear center of the module. Each top rear corner shall have red lights mounted on the rear and side of each corner. There shall be three amber lights mounted on the center front of the cab roof.

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

All lights shall be as per I.C.C. requirements.

COMPLY? .....YES_____NO _____

6.0 BODY FINISH

6.1 PAINTING PROCEDURE

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

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

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _

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

COMPLY? .....YES_____NO _____

6.2 PAINT & GRAPHICS DESIGN

The unit is to match the paint and graphics of the current Independence Fire Department fleet.

Chevrons will be included on smooth aluminum plates to the lower portion of the module entry doors.

COMPLY? .....YES_____NO _____

7.0 PAYLOAD

7.1 PAYLOAD

There shall be a minimum of 5,000 lbs. of usable payload. Weight determination shall be made with standard unit, full complement of fuel, fluids and spare tire. Any optional equipment shall be deducted from payload.

COMPLY? .....YES_____NO _____

8.0 MISCELLANEOUS EQUIPMENT

8.1 DECALS, NO SMOKING & OXYGEN EQUIPPED

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

COMPLY? .....YES_____NO _____

8.2 I.V. HOLDERS

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

COMPLY? .....YES_____NO _____

8.3 ANTENNA, POWER & GROUND PRE-WIRE

(3) two pre-wire antenna coaxial cables delivered to the drivers switch console. There shall be a raceway provided to be able to run radio cable from the cab to the patient compartment. (3) NMO style antenna mounts will be installed in the module roof.

(3) Power and grounds will be installed for power of two-way radios.

COMPLY? .....YES_____NO _____

8.4 WIRING SCHEMATIC

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

COMPLY? .....YES_____NO _____

STEREO SPEAKERS

Stereo Speakers will be installed in the rear area of the headliner tied into the factory chassis stereo system with a volume control installed in the action area.

COMPLY? .....YES_____NO _____

9.0 WARRANTY

9.1 WARRANTY COVERAGE (See Warranty Certificate for Details)

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

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

COMPLY? .....YES_____NO _____

10.0 REQUIREMENTS OF THE MANUFACTURER

10.1 KKK-A-1822-F CERTIFICATION

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

COMPLY? .....YES_____NO _____

10.2 FORD QVM PROGRAM

This unit shall meet all Ford QVM Program requirements and the manufacturer shall be a current member in good standing of the Ford QVM Program.

COMPLY? .....YES_____NO _____

10.3 AMD / NTEA MEMBERSHIP

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

COMPLY? …….. YES _____ NO _____

10.4 REMOUNTING AND REFURBISHING

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

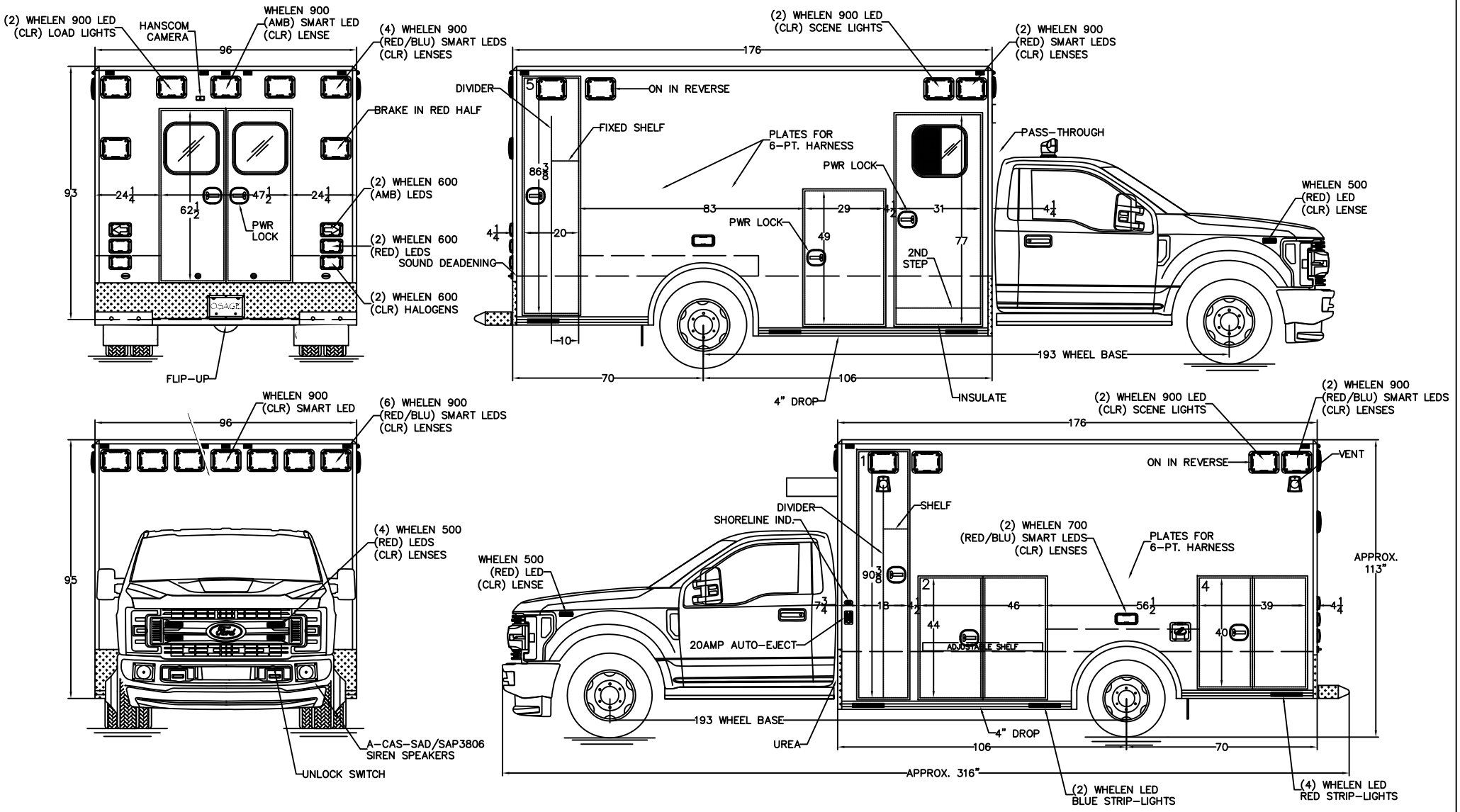
COMPLY? …….. YES _____ NO _____

10.5 FORD POOL ACCOUNT PROGRAM

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

COMPLY? …….. YES _____ NO _____

POSITIVELY NO EXCEPTIONS ALLOWED TO SECTION’S 9.1 THROUGH 10.5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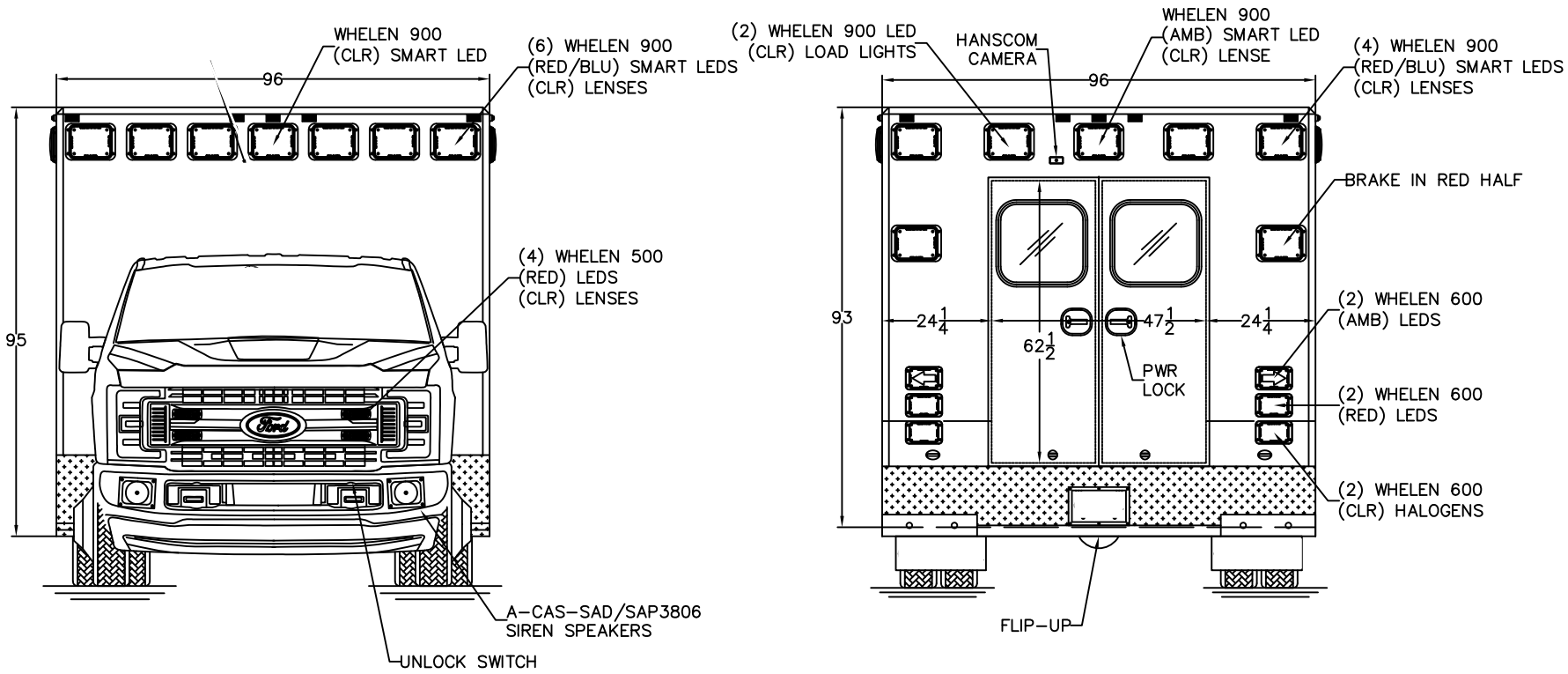
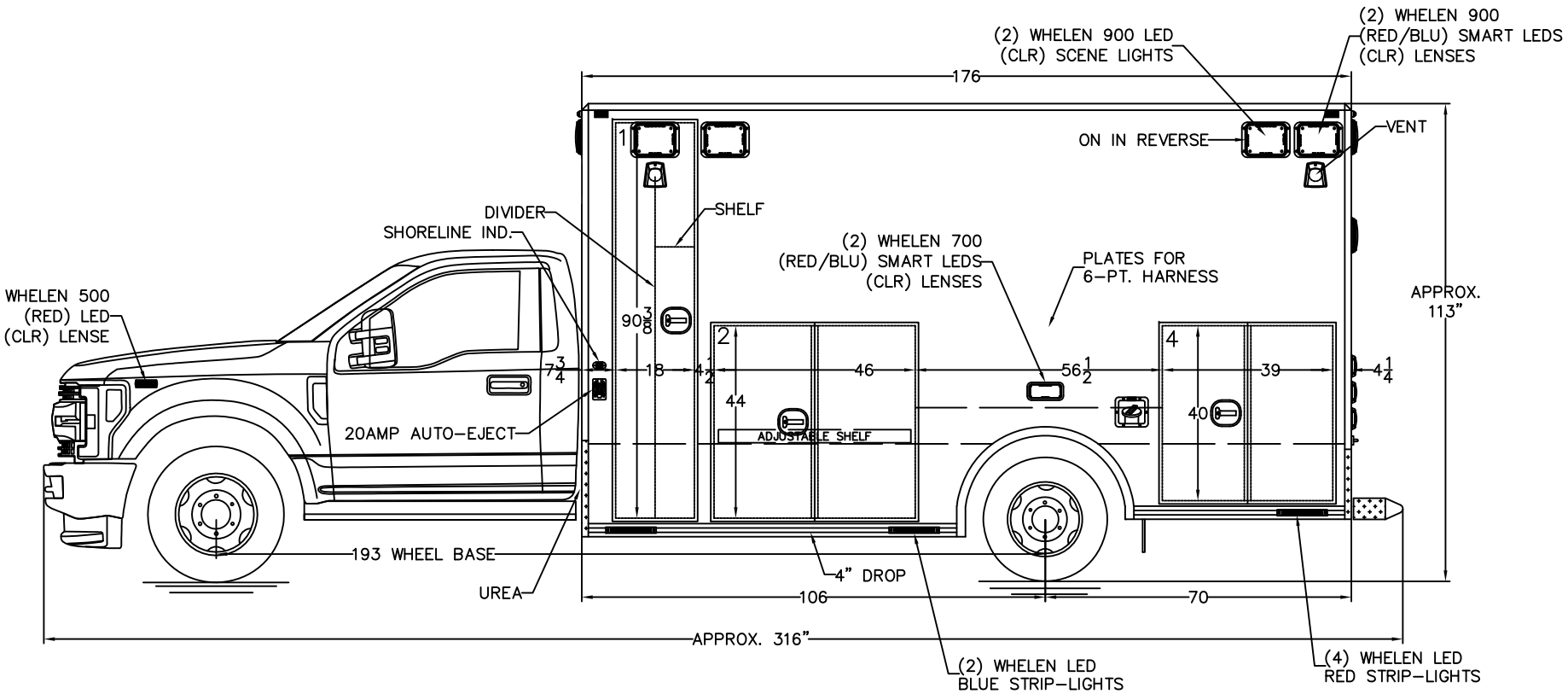
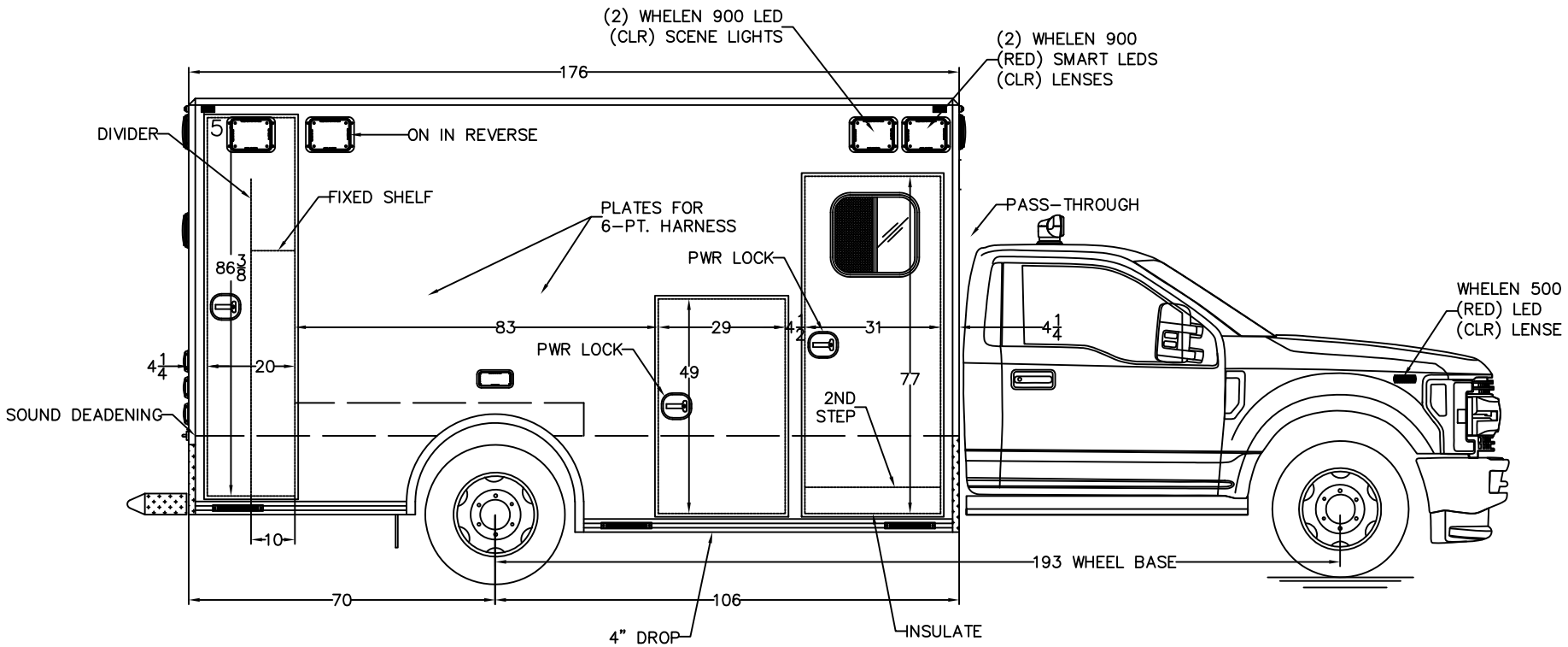
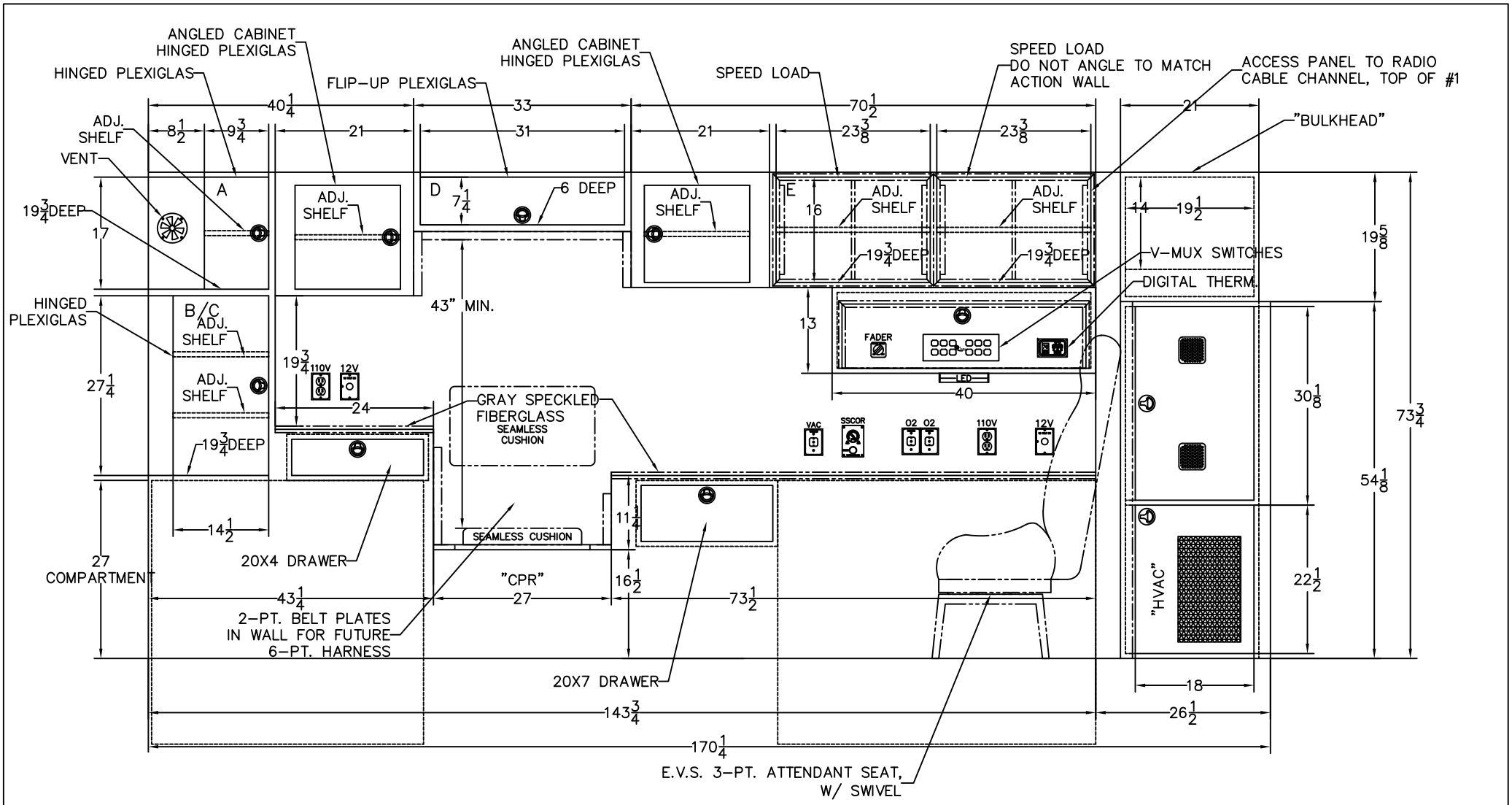
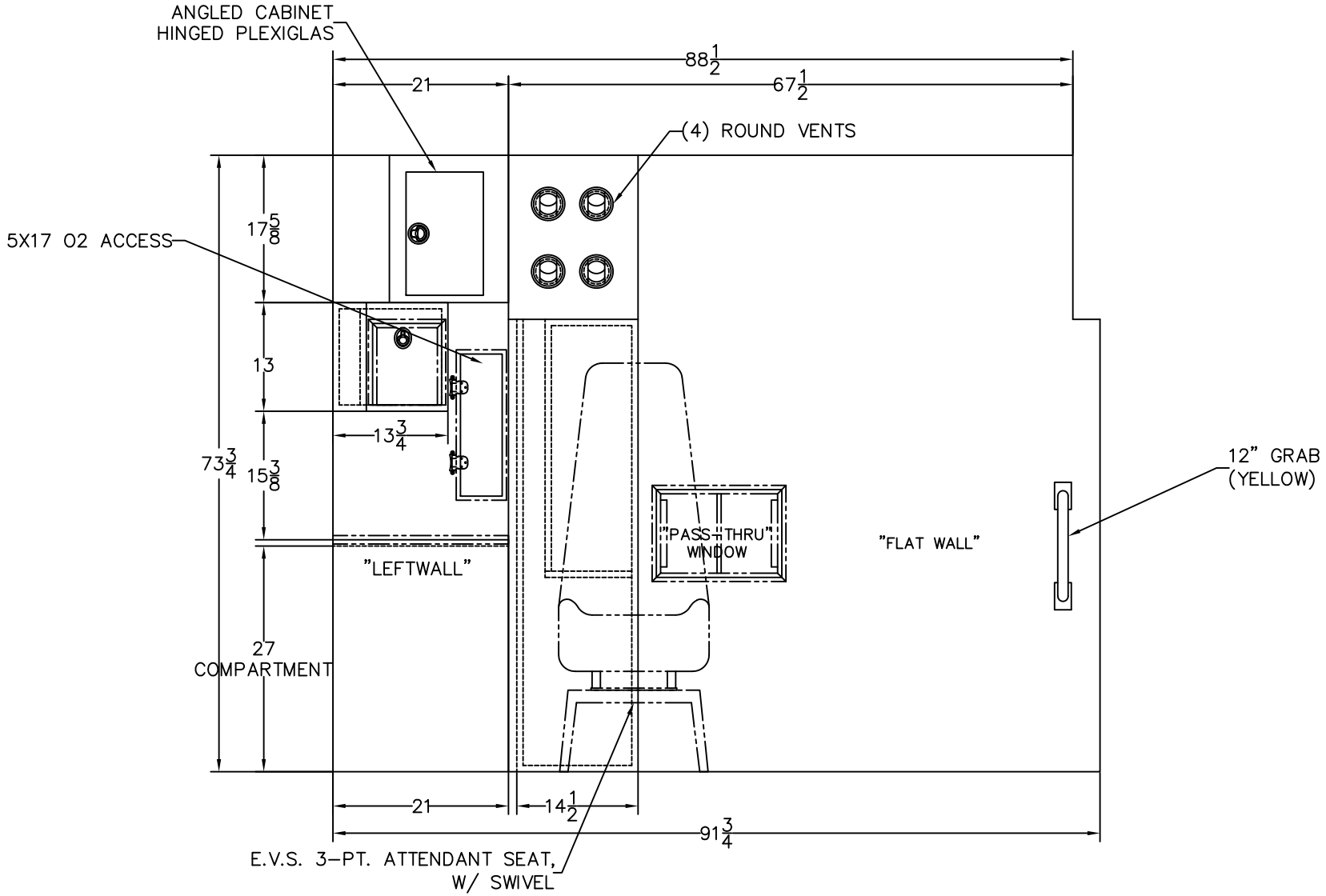
HANSCOM CAMERA
WHELEN 900 (AMB) SMART LED (CLR) LENSE
(4) WHELEN 900 (RED/BLU) SMART LEDS (CLR) LENSES
BRAKE IN RED HALF
(2) WHELEN 600 (AMB) LEDS
PWR LOCK
(2) WHELEN 600 (RED) LEDS
SOUND DEADENING
(2) WHELEN 600 (CLR) HALOGENS
FLIP-UP
96
93
24 1/4
62 1/2
47 1/2
24 1/4
(2) WHELEN 900 LED (CLR) SCENE LIGHTS
(2) WHELEN 900 (RED) SMART LEDS (CLR) LENSES
176
DIVIDER
ON IN REVERSE
FIXED SHELF
PLATES FOR 6-PT. HARNESS
PWR LOCK
PASS-THROUGH
WHELEN 500 (RED) LED (CLR) LENSE
86 3/8
4 1/4
20
83
29
31
4 1/2
49
77
2ND STEP
10
70
106
4" DROP
INSULATE
193 WHEEL BASE
WHELEN 900 (CLR) SMART LED
(6) WHELEN 900 (RED/BLU) SMART LEDS (CLR) LENSES
(4) WHELEN 500 (RED) LEDS (CLR) LENSES
A-CAS-SAD/SAP3806 SIREN SPEAKERS
UNLOCK SWITCH
95
(2) WHELEN 900 LED (CLR) SCENE LIGHTS
(2) WHELEN 900 (RED/BLU) SMART LEDS (CLR) LENSES
VENT
ON IN REVERSE
SHELF
DIVIDER
SHORELINE IND.
(2) WHELEN 700 (RED/BLU) SMART LEDS (CLR) LENSES
PLATES FOR 6-PT. HARNESS
WHELEN 500 (RED) LED (CLR) LENSE
APPROX. 113"
90 3/8
7 3/4
18
4 1/2
46
56 1/2
39
4 1/4
44
40
20AMP AUTO-EJECT
ADJUSTABLE SHELF
193 WHEEL BASE
UREA
4" DROP
106
70
APPROX. 316"
(2) WHELEN LED BLUE STRIP-LIGHTS
(4) WHELEN LED RED STRIP-LIGHTS

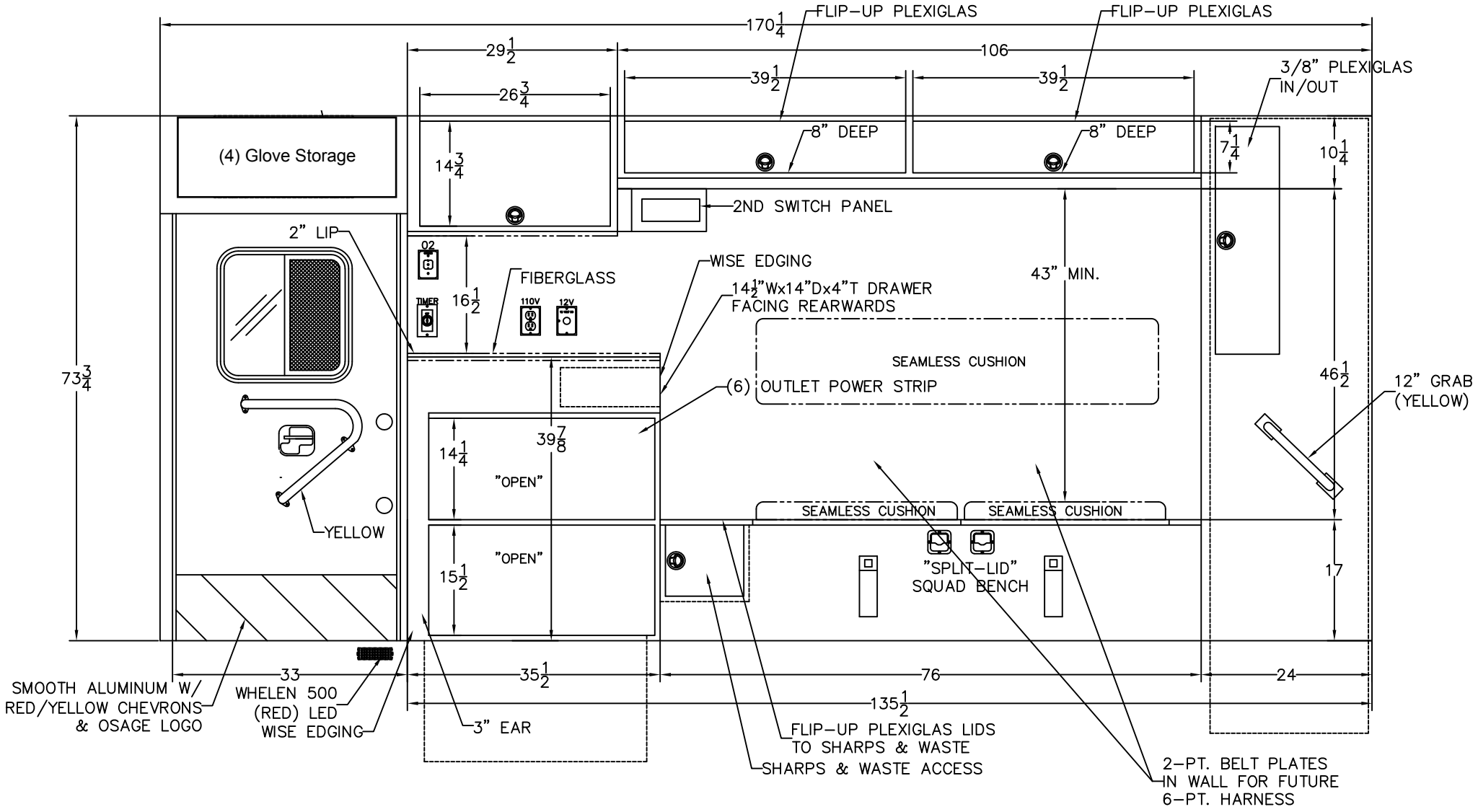

WHELEN 900
(CLR) SMART LED
96
(6) WHELEN 900
(RED/BLU) SMART LEDS
(CLR) LENSES
95
(4) WHELEN 500
(RED) LEDS
(CLR) LENSES
A-CAS-SAD/SAP3806
SIREN SPEAKERS
UNLOCK SWITCH
(2) WHELEN 900 LED
(CLR) LOAD LIGHTS
HANSCOM
CAMERA
WHELEN 900
(AMB) SMART LED
(CLR) LENSE
96
(4) WHELEN 900
(RED/BLU) SMART LEDS
(CLR) LENSES
BRAKE IN RED HALF
93
24 1/4
62 1/2
47 1/2
24 1/4
PWR
LOCK
(2) WHELEN 600
(AMB) LEDS
(2) WHELEN 600
(RED) LEDS
(2) WHELEN 600
(CLR) HALOGENS
FLIP-UP

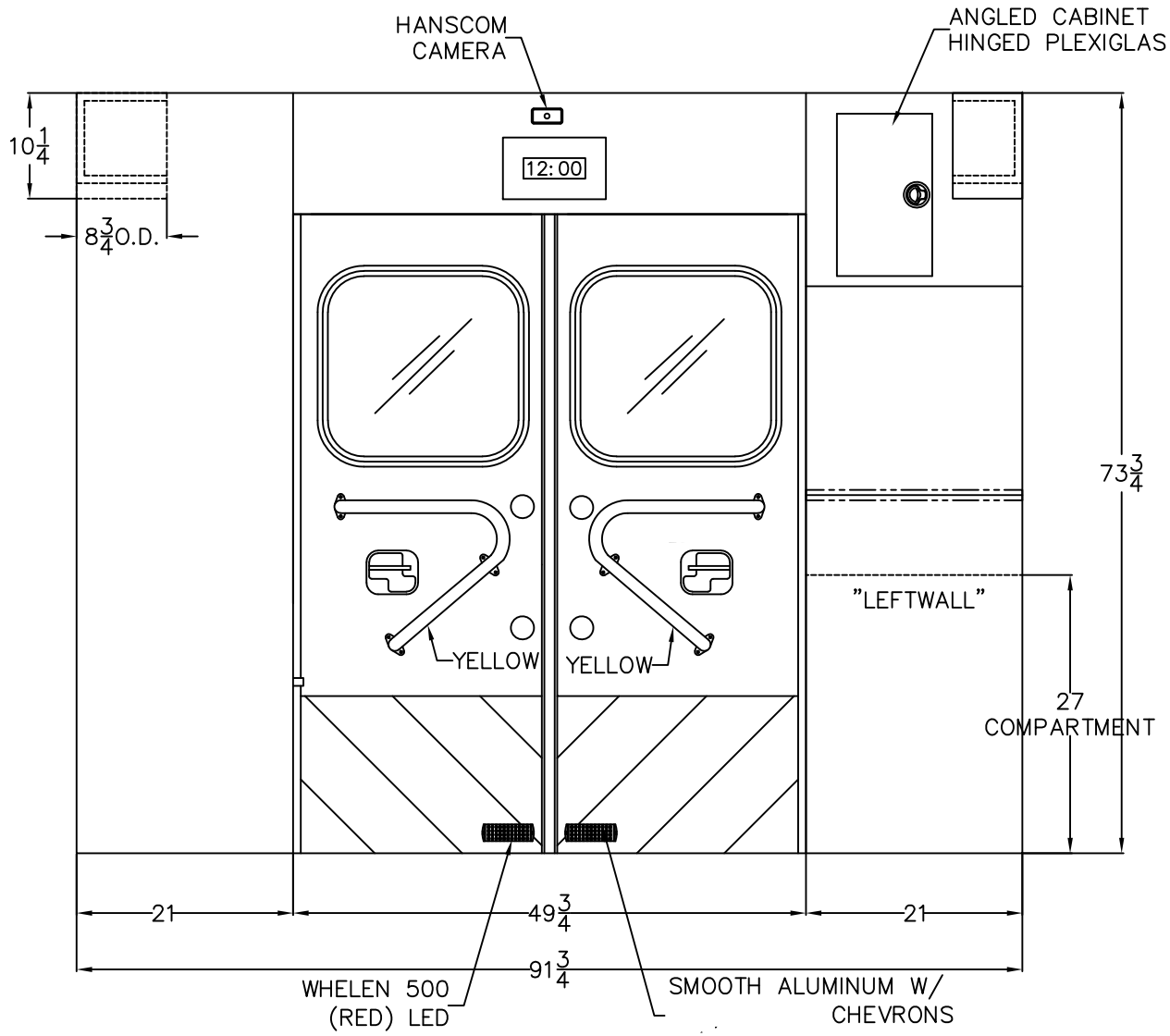

(2) WHELEN 900 LED
(CLR) SCENE LIGHTS
(2) WHELEN 900
(RED/BLU) SMART LEDS
(CLR) LENSES
176
ON IN REVERSE
VENT
DIVIDER
SHORELINE IND.
SHELF
(2) WHELEN 700
(RED/BLU) SMART LEDS
(CLR) LENSES
PLATES FOR
6-PT. HARNESS
APPROX.
113"
WHELEN 500
(RED) LED
(CLR) LENSE
90 3/8
7 3/4
18
4 1/2
46
56 1/2
39
4 1/4
44
40
ADJUSTABLE SHELF
20AMP AUTO-EJECT
193 WHEEL BASE
UREA
4" DROP
106
70
APPROX. 316"
(2) WHELEN LED
BLUE STRIP-LIGHTS
(4) WHELEN LED
RED STRIP-LIGHTS

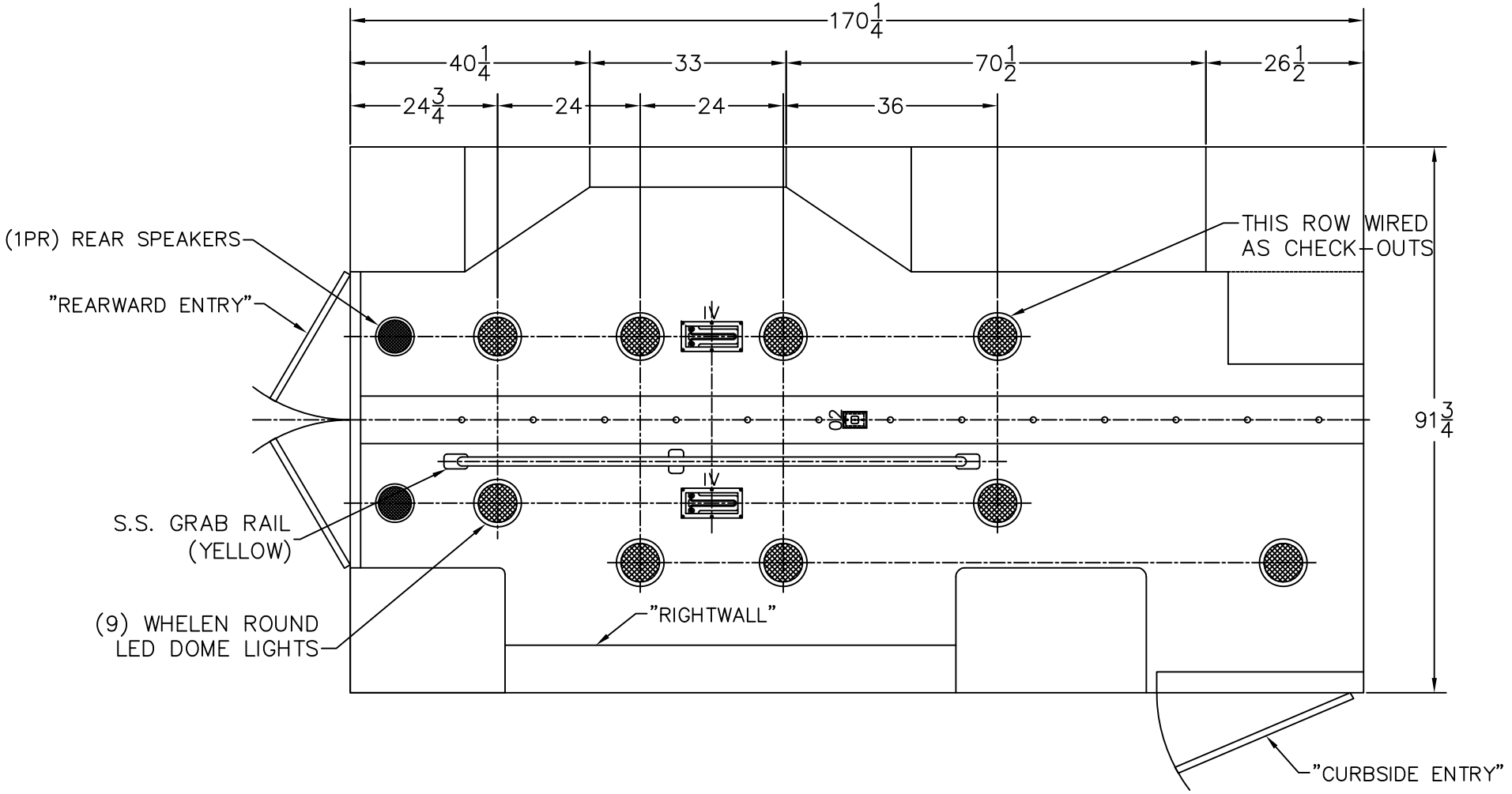

(2) WHELEN 900 LED
(CLR) SCENE LIGHTS
(2) WHELEN 900
(RED) SMART LEDS
(CLR) LENSES
176
DIVIDER
5
ON IN REVERSE
FIXED SHELF
PLATES FOR
6-PT. HARNESS
PASS-THROUGH
PWR LOCK
WHELEN 500
(RED) LED
(CLR) LENSE
86 3/8
83
29
4 1/2
31
4 1/4
4 1/4
20
PWR LOCK
49
77
2ND
STEP
SOUND DEADENING
10
193 WHEEL BASE
70
106
4" DROP
INSULATE

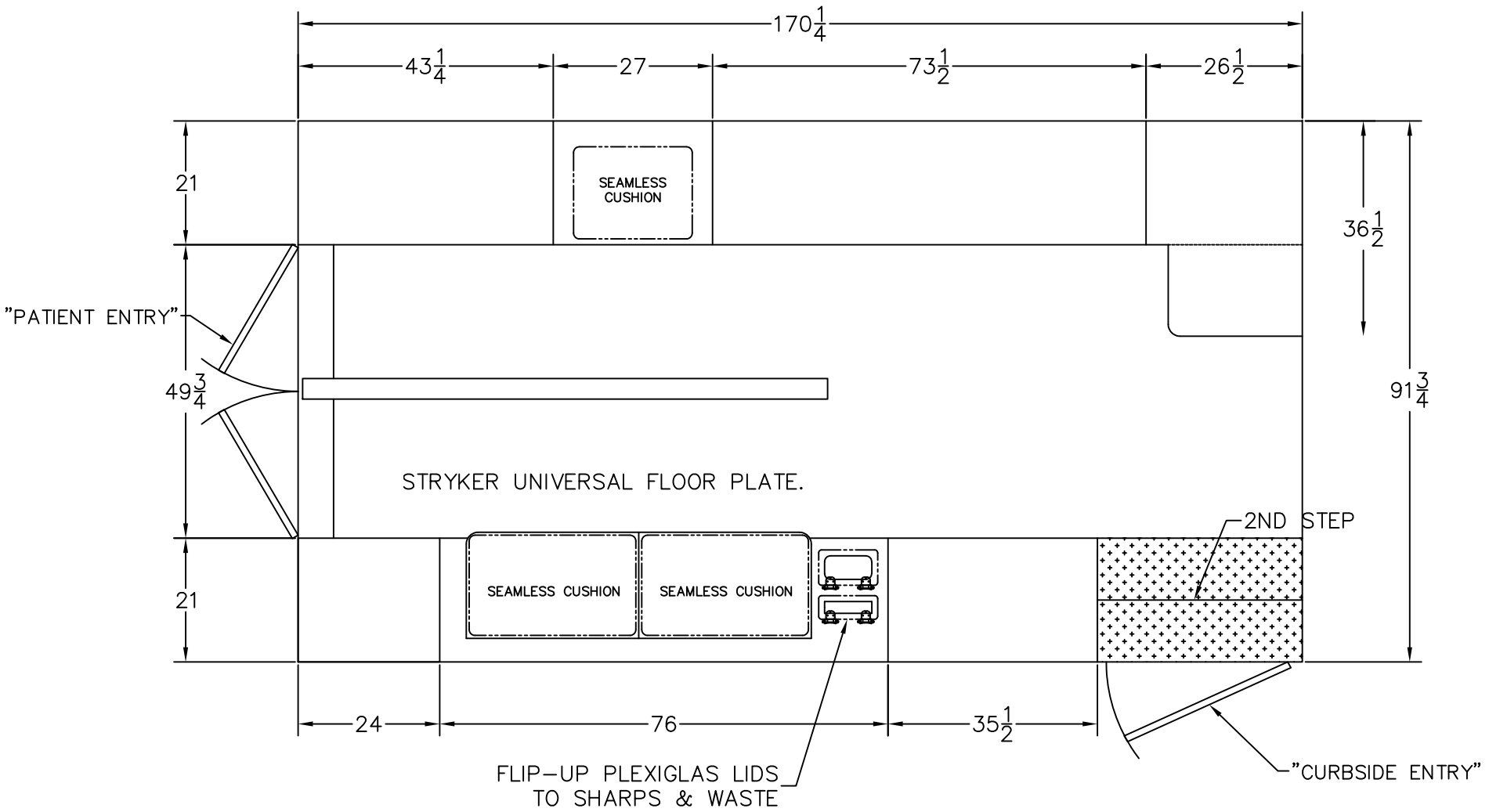

ANGLED CABINET HINGED PLEXIGLAS
HINGED PLEXIGLAS
FLIP-UP PLEXIGLAS
ANGLED CABINET HINGED PLEXIGLAS
SPEED LOAD
SPEED LOAD DO NOT ANGLE TO MATCH ACTION WALL
ACCESS PANEL TO RADIO CABLE CHANNEL, TOP OF #1
"BULKHEAD"
V-MUX SWITCHES
DIGITAL THERM.
ADJ. SHELF
VENT
A
D
6 DEEP
E
B/C
HINGED PLEXIGLAS
43" MIN.
FADER
LED
VAC
SSCOR
02 02
110V
12V
GRAY SPECKLED FIBERGLASS SEAMLESS CUSHION
SEAMLESS CUSHION
20X4 DRAWER
20X7 DRAWER
"CPR"
"HVAC"
27 COMPARTMENT
2-PT. BELT PLATES IN WALL FOR FUTURE 6-PT. HARNESS
E.V.S. 3-PT. ATTENDANT SEAT, W/ SWIVEL
40 1/4
8 1/2
9 3/4
21
33
31
70 1/2
23 3/8
23 3/8
19 1/2
19 5/8
19 3/4 DEEP
17
16
13
40
24
14 1/2
11 1/4
16 1/2
27
43 1/4
73 1/2
143 3/4
170 1/4
26 1/2
18
27 1/4
30 1/8
22 1/2
54 1/8
73 3/4


ANGLED CABINET
HINGED PLEXIGLAS
88 1/2
21
67 1/2
(4) ROUND VENTS
5X17 O2 ACCESS
17 5/8
13
13 3/4
73 3/4
15 3/8
"LEFTWALL"
"PASS-THRU"
WINDOW
"FLAT WALL"
12" GRAB
(YELLOW)
27
COMPARTMENT
21
14 1/2
91 3/4
E.V.S. 3-PT. ATTENDANT SEAT,
W/ SWIVEL


170 1/4
FLIP-UP PLEXIGLAS
FLIP-UP PLEXIGLAS
29 1/2
106
39 1/2
39 1/2
3/8" PLEXIGLAS
IN/OUT
26 3/4
(4) Glove Storage
14 3/4
8" DEEP
8" DEEP
7 1/4
10 1/4
2ND SWITCH PANEL
2" LIP
02
TIMER
110V
12V
FIBERGLASS
16 1/2
WISE EDGING
14 1/2"Wx14"Dx4"T DRAWER
FACING REARWARDS
43" MIN.
SEAMLESS CUSHION
(6) OUTLET POWER STRIP
73 3/4
46 1/2
12" GRAB
(YELLOW)
39 7/8
14 1/4
"OPEN"
YELLOW
SEAMLESS CUSHION
SEAMLESS CUSHION
"OPEN"
15 1/2
"SPLIT-LID"
SQUAD BENCH
17
SMOOTH ALUMINUM W/
RED/YELLOW CHEVRONS
& OSAGE LOGO
33
WHELEN 500
(RED) LED
WISE EDGING
35 1/2
76
24
135 1/2
3" EAR
FLIP-UP PLEXIGLAS LIDS
TO SHARPS & WASTE
SHARPS & WASTE ACCESS
2-PT. BELT PLATES
IN WALL FOR FUTURE
6-PT. HARNESS


HANSCOM
CAMERA
ANGLED CABINET
HINGED PLEXIGLAS
12:00
10 1/4
8 3/4 O.D.
73 3/4
"LEFTWALL"
YELLOW
YELLOW
27
COMPARTMENT
21
49 3/4
21
91 3/4
WHELEN 500
(RED) LED
SMOOTH ALUMINUM W/
CHEVRONS

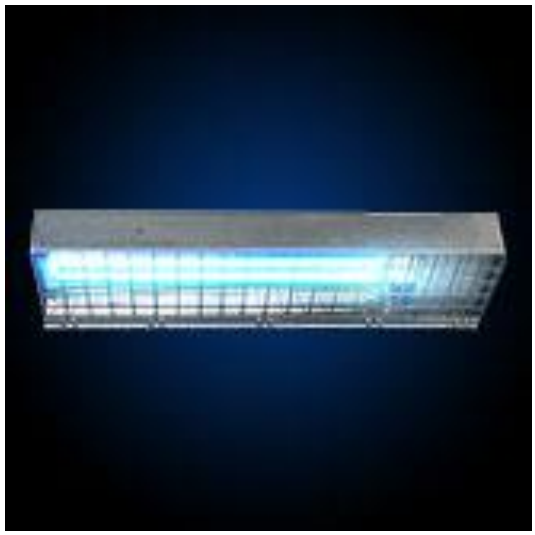

170 1/4
40 1/4
33
70 1/2
26 1/2
24 3/4
24
24
36
(1PR) REAR SPEAKERS
"REARWARD ENTRY"
THIS ROW WIRED AS CHECK-OUTS
91 3/4
S.S. GRAB RAIL (YELLOW)
(9) WHELEN ROUND LED DOME LIGHTS
"RIGHTWALL"
"CURBSIDE ENTRY"


170 1/4
43 1/4
27
73 1/2
26 1/2
21
SEAMLESS CUSHION
36 1/2
91 3/4
"PATIENT ENTRY"
49 3/4
STRYKER UNIVERSAL FLOOR PLATE.
2ND STEP
21
SEAMLESS CUSHION
SEAMLESS CUSHION
24
76
35 1/2
FLIP–UP PLEXIGLAS LIDS
TO SHARPS & WASTE
"CURBSIDE ENTRY"

EvergreenUV
Environmental Disinfection

ADU-136-PB
UV-C Air & Surface Disinfection Lamp

Advanced High Level Disinfection for EMS - Protects Crews & Patients



A NAEMT survey of 1,356 Medics published in EMS World reported that 50% have been exposed to an infectious disease and 21% have contracted an illness from a patient.

Kills CoVid-19 Coronavirus to 99.9999% in Under 2 Minutes

The ADU-136 has powerful high UV-C germicidal output and can be recess or surface mounted and kills CoVid-19 Coronavirus in just seconds.

Kills CoVid-19, C.diff, MRSA and
all known bacteria, virus, mold, protozoa and yeast.

The ADU-136 Delivers Safe Rapid Disinfection:

UV-C is a natural disinfectant and requires NO dissipation time.

No chemicals, ozone, aerosols, vapors, toxins or out-gassing.

Meets the Required EPA Code and Made in the USA.

Distributed by: EA Medical, LLC ● 800-339-9393 ● uvc@eamed.com
www.eamed.com ● 10541 State Highway 81 ● Canton, MO 63435

ADU-136-PB
UV-C Air & Surface Disinfection Lamp

Advanced High Level Disinfection for EMS - Protects Crews & Patients

ADU-136-PB Features and Specifications:

- **Can be factory installed in new ambulances and in remounts.** Recess or surface mounting options.
- Rugged Stainless Steel and Aluminum construction with Welded-Wire protective cage over bulb.
- **Mirror aluminum specular reflectors for increased UV efficiency.**
- **9000 hour lamp life.** Philips Germicidal Sterilamp® twin-tube bulb for reliable lamp availability and cost efficient replacement, TUV 36W, has no more than 4.5 mg mercury.
- ADU-136 features one (1) 36W Philips Chill-Corrected Germicidal UV Lamp providing 30 linear inches of UV-C tubing for maximum UV-C power and time efficiency.
- **All new digital front facing push button control box with built-in delayed-start timer** can be mounted in the crew cab or back of ambulance, or in a closed panel box outside the ambulance.
- **Rated UV-C energy output 145 µW/cm^2 per second; 8,700 µW/cm^2 per minute @1 meter**.
- 120V AC 60 Hz operation through on-board power inverter or land-line access. Nominal electrical output 36 watts. Draws .78 amps @ 120 volts ac.
- Dimensions: Light fixture 20-3/8" (length) x 5-1/4" (width) x 2-1/2" (depth)
  Control box 7" (width) x 5" (height) x 3" (depth)
- **Made in the USA by Evergreen UV LLC, EPA Establishment No.91347-TN-001**. (Lumalier by Evergreen UV LLC)
- Warranty - Ballast has a 5 year non-prorated warranty. Lamp has a 1 year warranty against manufacturing defects.

This UV-C disinfection lamp is designed for use in UNOCCUPIED spaces.
UV-C can cause temporary damage and discomfort to unprotected skin and eyes.

ADU-136-PB (rev.061720). Specifications subject to change without notice.

Distributed by: EA Medical, LLC ● 800-339-9393 ● uvc@eamed.com
www.eamed.com ● 10541 State Highway 81 ● Canton, MO 63435

"Helping Emergency Services Save Lives"

RESPONSE SPECIFICATIONS FOR:

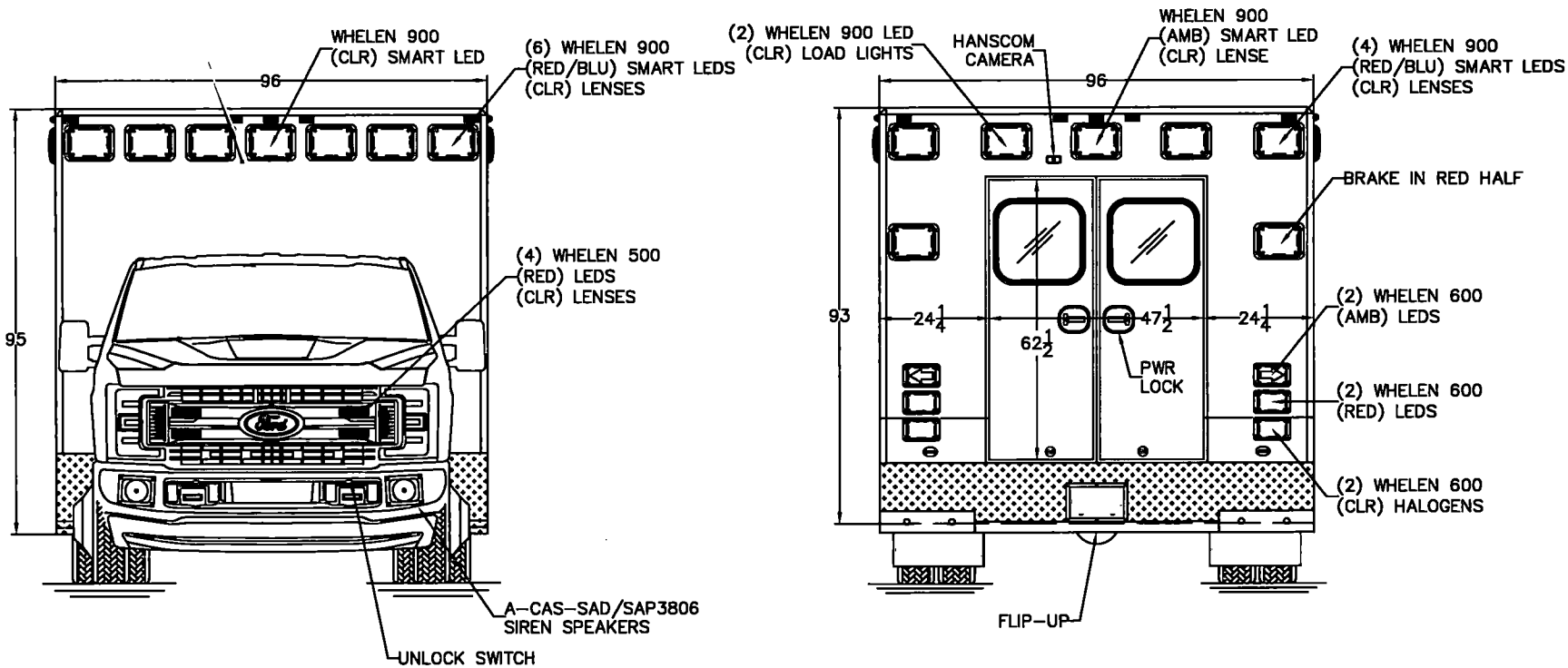
Independence Fire/ EMS

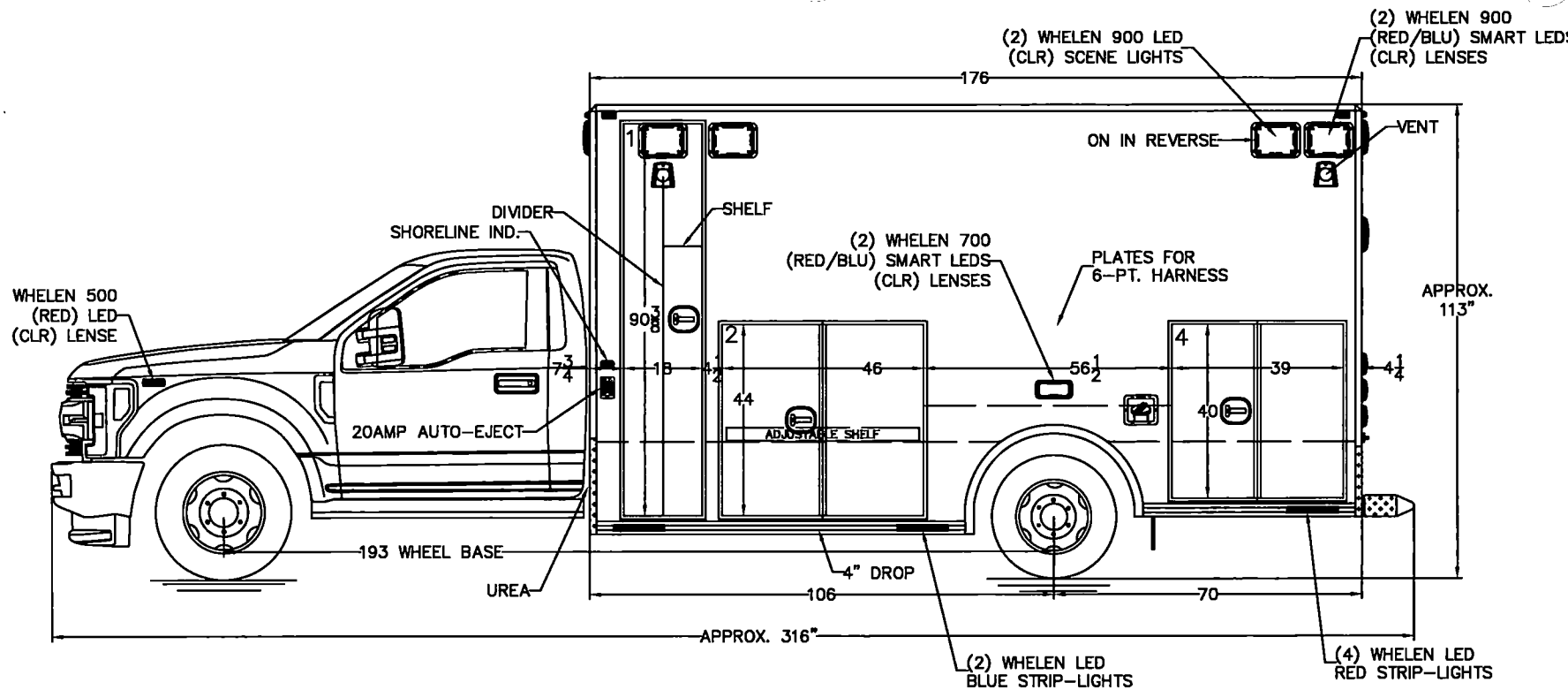
AEV *TRAUMAHAWK* CUSTOM AMBULANCE

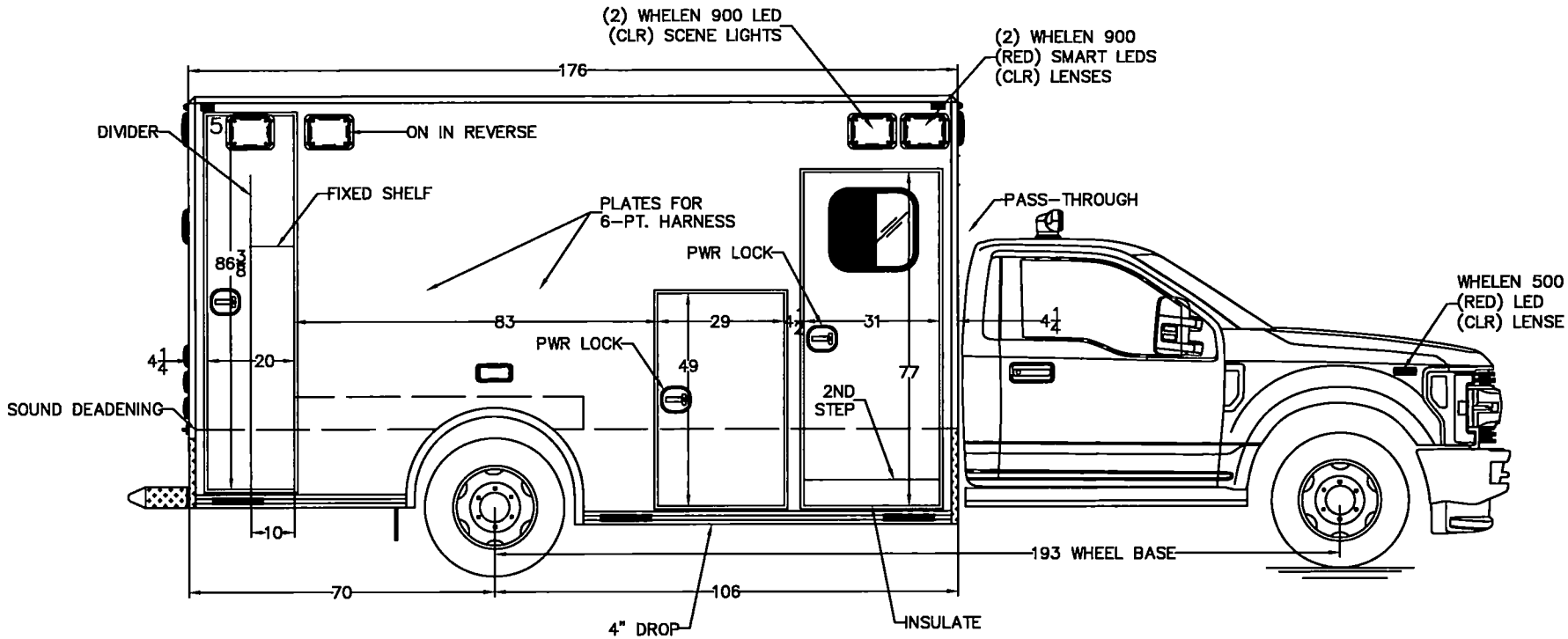
2021 Ford F550 4x4 176"x96"x74"

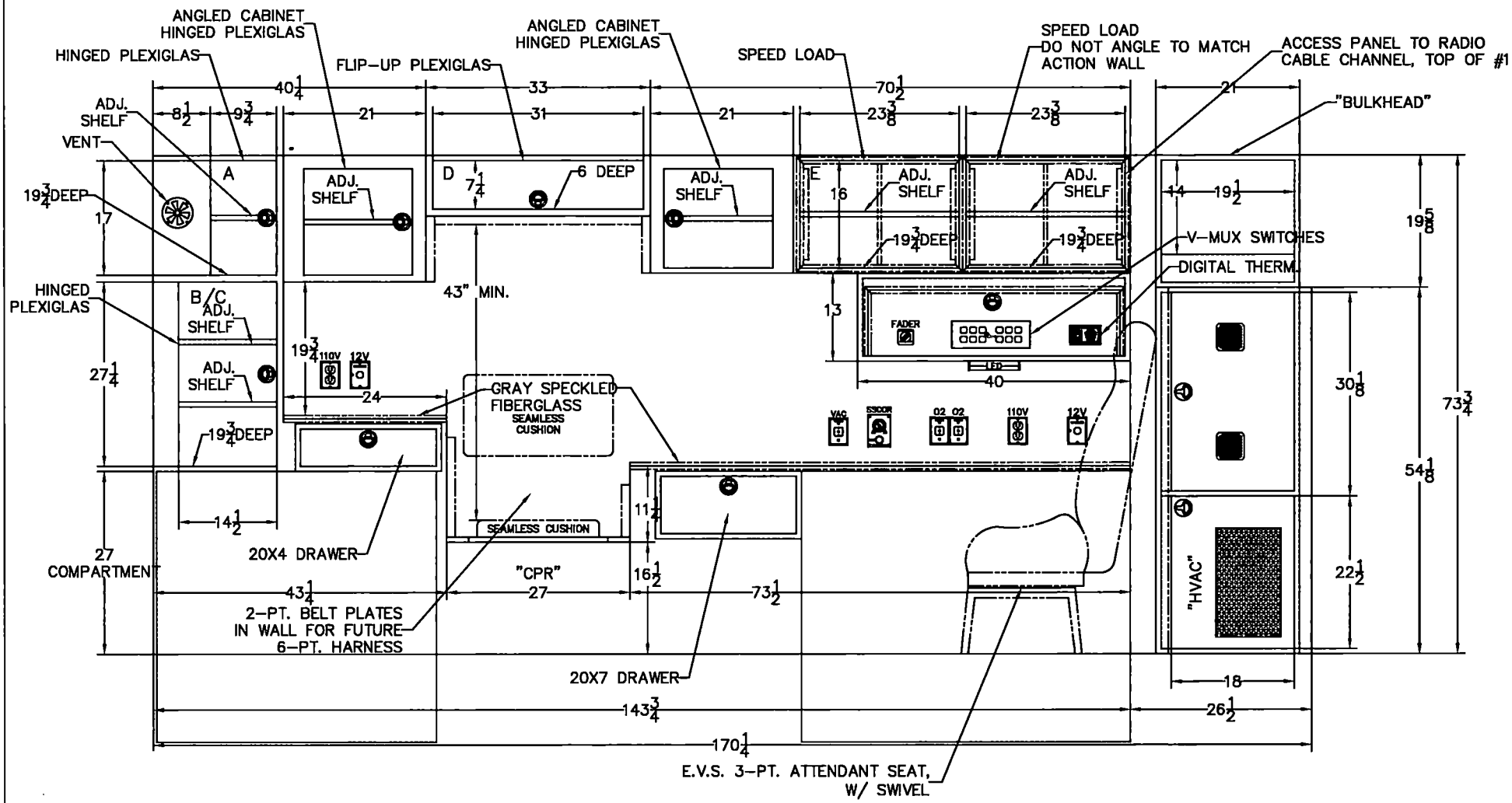
AMERICAN RESPONSE VEHICLES

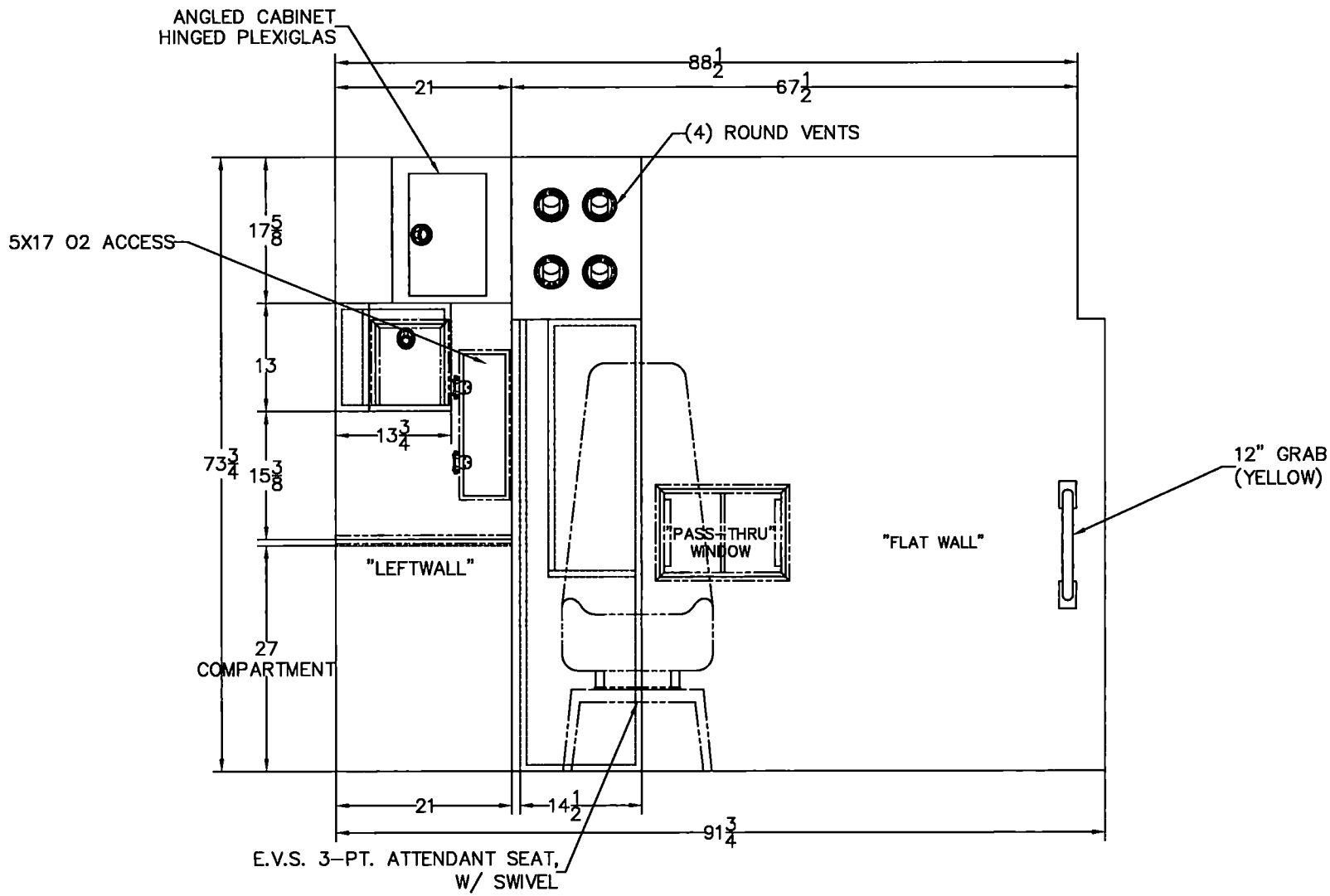
521 Hillsdale Rd, Columbia, MO 65203
Toll Free (888) 448-8881 or Fax (573) 443-8881

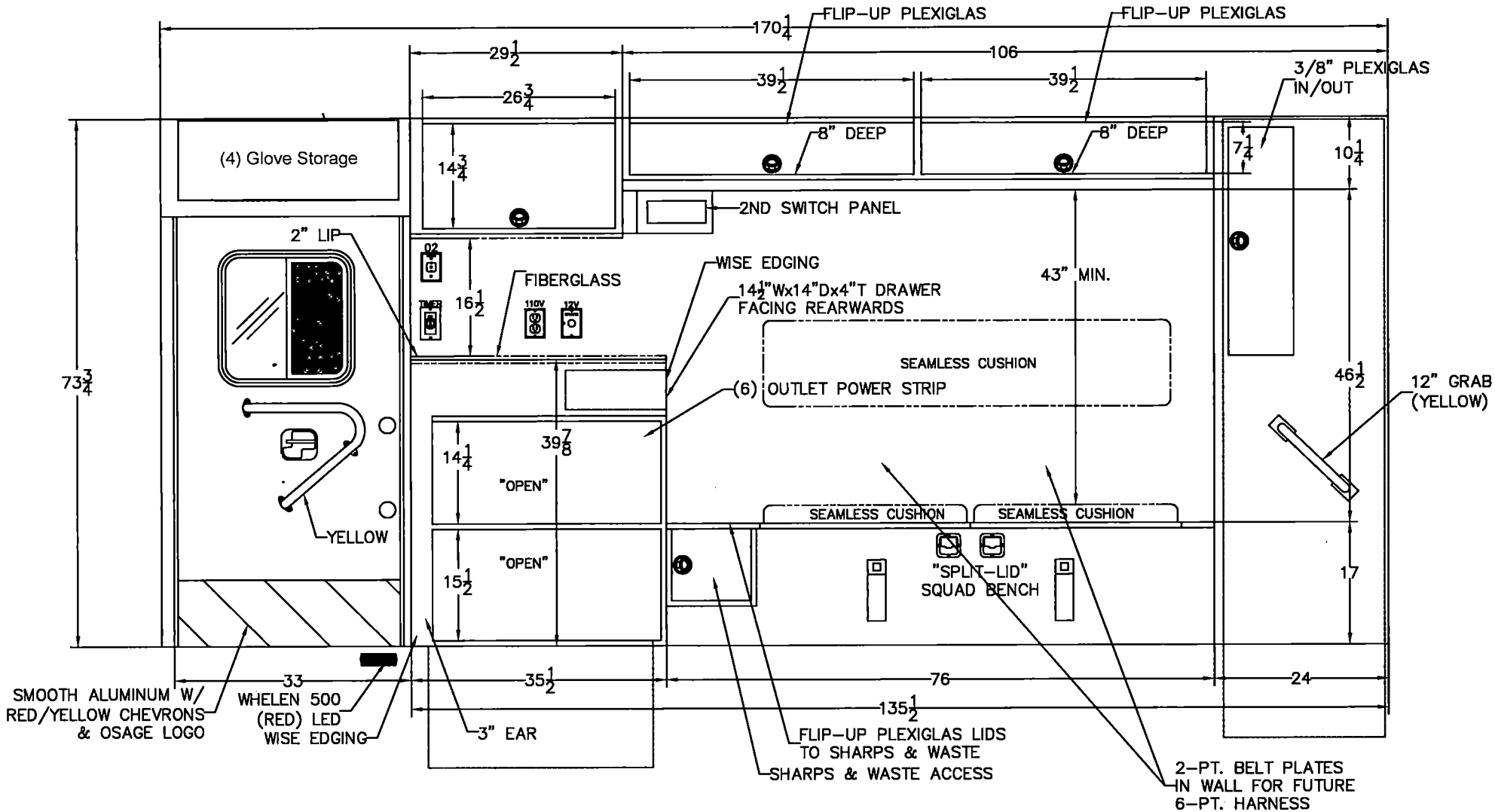

WHELEN 900
(CLR) SMART LED
(6) WHELEN 900
(RED/BLU) SMART LEDS
(CLR) LENSES
96
95
(4) WHELEN 500
(RED) LEDS
(CLR) LENSES
A-CAS-SAD/SAP3806
SIREN SPEAKERS
UNLOCK SWITCH
(2) WHELEN 900 LED
(CLR) LOAD LIGHTS
HANSCOM
CAMERA
WHELEN 900
(AMB) SMART LED
(CLR) LENSE
96
(4) WHELEN 900
(RED/BLU) SMART LEDS
(CLR) LENSES
BRAKE IN RED HALF
93
24 1/4
62 1/2
47 1/2
24 1/4
PWR
LOCK
(2) WHELEN 600
(AMB) LEDS
(2) WHELEN 600
(RED) LEDS
(2) WHELEN 600
(CLR) HALOGENS
FLIP-UP

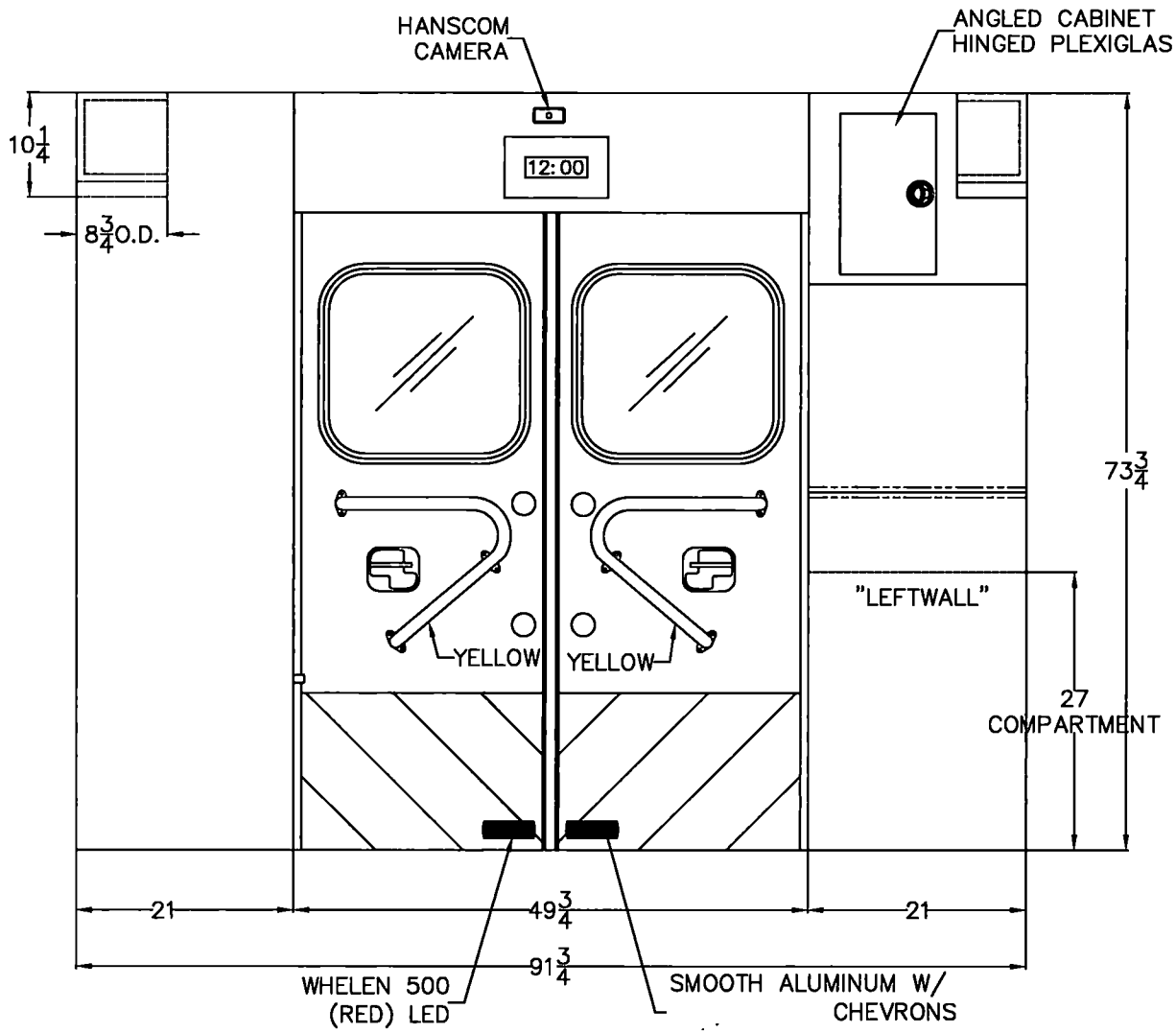

(2) WHELEN 900 LED
(CLR) SCENE LIGHTS
(2) WHELEN 900
(RED/BLU) SMART LEDS
(CLR) LENSES
176
ON IN REVERSE
VENT
1
SHELF
DIVIDER
SHORELINE IND.
(2) WHELEN 700
(RED/BLU) SMART LEDS
(CLR) LENSES
PLATES FOR
6-PT. HARNESS
APPROX.
113"
WHELEN 500
(RED) LED
(CLR) LENSE
90 3/8
2
4
7 3/4
18
4 1/2
46
56 1/2
39
4 1/4
44
40
ADJUSTABLE SHELF
20AMP AUTO-EJECT
193 WHEEL BASE
4" DROP
UREA
106
70
APPROX. 316"
(2) WHELEN LED
BLUE STRIP-LIGHTS
(4) WHELEN LED
RED STRIP-LIGHTS

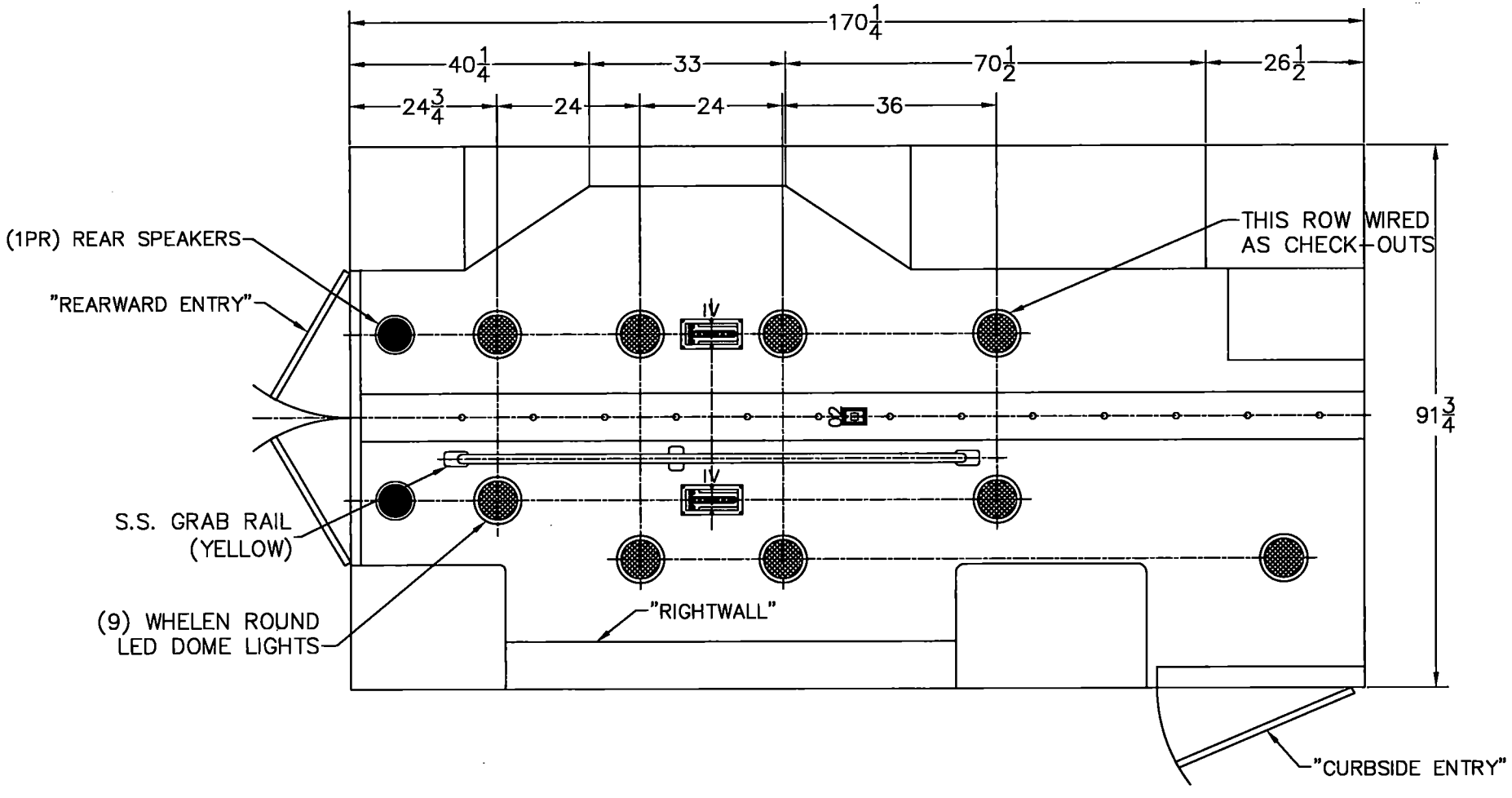

(2) WHELEN 900 LED
(CLR) SCENE LIGHTS
(2) WHELEN 900
(RED) SMART LEDS
(CLR) LENSES
176
DIVIDER
5
ON IN REVERSE
FIXED SHELF
PLATES FOR
6-PT. HARNESS
PASS-THROUGH
PWR LOCK
WHELEN 500
(RED) LED
(CLR) LENSE
86 3/8
83
29
31
4 1/4
4 1/4
20
PWR LOCK
49
77
2ND
STEP
SOUND DEADENING
10
193 WHEEL BASE
70
106
4" DROP
INSULATE

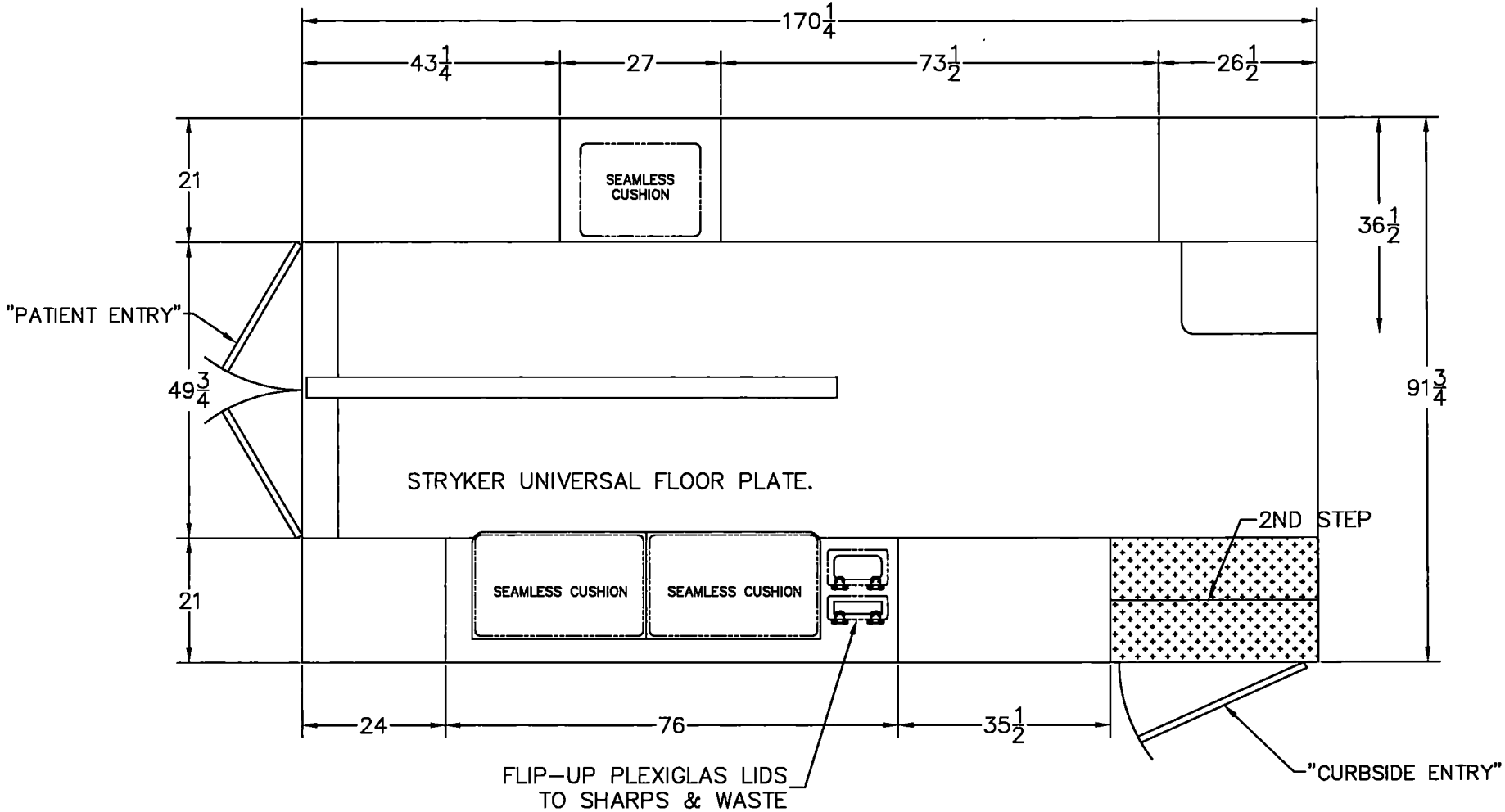

ANGLED CABINET HINGED PLEXIGLAS
HINGED PLEXIGLAS
FLIP-UP PLEXIGLAS
ANGLED CABINET HINGED PLEXIGLAS
SPEED LOAD
SPEED LOAD DO NOT ANGLE TO MATCH ACTION WALL
ACCESS PANEL TO RADIO CABLE CHANNEL, TOP OF #1
"BULKHEAD"
ADJ. SHELF
VENT
A
ADJ. SHELF
D
6 DEEP
ADJ. SHELF
E
ADJ. SHELF
ADJ. SHELF
V-MUX SWITCHES
DIGITAL THERM.
HINGED PLEXIGLAS
B/C ADJ. SHELF
ADJ. SHELF
43" MIN.
FADER
LED
GRAY SPECKLED FIBERGLASS SEAMLESS CUSHION
SEAMLESS CUSHION
20X4 DRAWER
"CPR"
2-PT. BELT PLATES IN WALL FOR FUTURE 6-PT. HARNESS
27 COMPARTMENT
20X7 DRAWER
"HVAC"
E.V.S. 3-PT. ATTENDANT SEAT, W/ SWIVEL


ANGLED CABINET
HINGED PLEXIGLAS
88 1/2
21
67 1/2
(4) ROUND VENTS
5X17 O2 ACCESS
17 5/8
13
13 3/4
73 3/4
15 3/8
"LEFTWALL"
"PASS-THRU"
WINDOW
"FLAT WALL"
12" GRAB
(YELLOW)
27
COMPARTMENT
21
14 1/2
91 3/4
E.V.S. 3-PT. ATTENDANT SEAT,
W/ SWIVEL


170 1/4
FLIP-UP PLEXIGLAS
FLIP-UP PLEXIGLAS
29 1/2
106
39 1/2
39 1/2
26 3/4
3/8" PLEXIGLAS IN/OUT
(4) Glove Storage
14 3/4
8" DEEP
8" DEEP
7 1/4
10 1/4
2ND SWITCH PANEL
2" LIP
WISE EDGING
FIBERGLASS
14 1/2"Wx14"Dx4"T DRAWER FACING REARWARDS
43" MIN.
16 1/2
SEAMLESS CUSHION
(6) OUTLET POWER STRIP
73 3/4
46 1/2
12" GRAB (YELLOW)
14 1/4
39 7/8
"OPEN"
SEAMLESS CUSHION
SEAMLESS CUSHION
YELLOW
"OPEN"
15 1/2
"SPLIT-LID" SQUAD BENCH
17
33
35 1/2
76
24
135 1/2
SMOOTH ALUMINUM W/ RED/YELLOW CHEVRONS & OSAGE LOGO
WHELEN 500 (RED) LED WISE EDGING
3" EAR
FLIP-UP PLEXIGLAS LIDS TO SHARPS & WASTE
SHARPS & WASTE ACCESS
2-PT. BELT PLATES IN WALL FOR FUTURE 6-PT. HARNESS


HANSCOM CAMERA
ANGLED CABINET HINGED PLEXIGLAS
12:00
10 1/4
8 3/4 O.D.
73 3/4
"LEFTWALL"
YELLOW
YELLOW
27 COMPARTMENT
21
49 3/4
21
91 3/4
WHELEN 500 (RED) LED
SMOOTH ALUMINUM W/ CHEVRONS

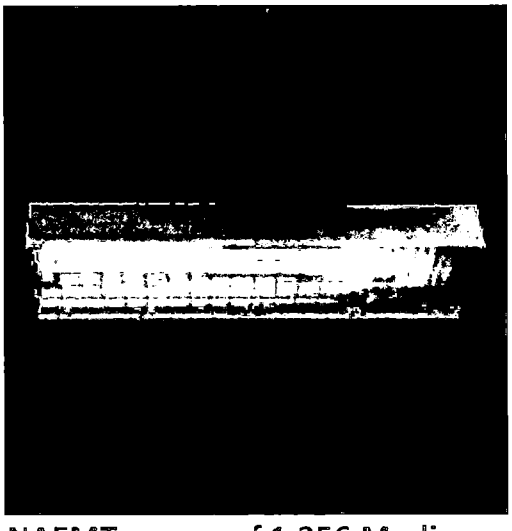

170 1/4
40 1/4
33
70 1/2
26 1/2
24 3/4
24
24
36
(1PR) REAR SPEAKERS
"REARWARD ENTRY"
THIS ROW WIRED AS CHECK-OUTS
91 3/4
S.S. GRAB RAIL (YELLOW)
(9) WHELEN ROUND LED DOME LIGHTS
"RIGHTWALL"
"CURBSIDE ENTRY"


170 1/4
43 1/4
27
73 1/2
26 1/2
21
SEAMLESS CUSHION
36 1/2
91 3/4
"PATIENT ENTRY"
49 3/4
STRYKER UNIVERSAL FLOOR PLATE.
2ND STEP
21
SEAMLESS CUSHION
SEAMLESS CUSHION
24
76
35 1/2
FLIP-UP PLEXIGLAS LIDS TO SHARPS & WASTE
"CURBSIDE ENTRY"

EvergreenUV
Environmental Disinfection

ADU-136-PB
UV-C Air & Surface Disinfection Lamp

Advanced High Level Disinfection for EMS - Protects Crews & Patients



A NAEMT survey of 1,356 Medics published in EMS World reported that 50% have been exposed to an infectious disease and 21% have contracted an illness from a patient.

Kills CoVid-19 Coronavirus to 99.9999% in Under 2 Minutes

The ADU-136 has powerful high UV-C germicidal output and can be recess or surface mounted and kills CoVid-19 Coronavirus in just seconds.

Kills CoVid-19, C.diff, MRSA and
all known bacteria, virus, mold, protozoa and yeast.

The ADU-136 Delivers Safe Rapid Disinfection:

UV-C is a natural disinfectant and requires NO dissipation time.

No chemicals, ozone, aerosols, vapors, toxins or out-gassing.

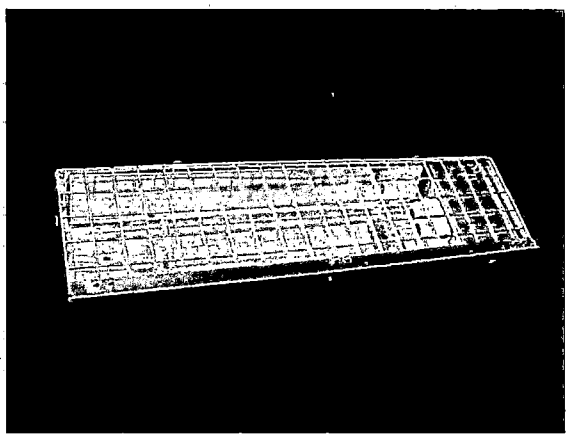
Meets the Required EPA Code and Made in the USA.

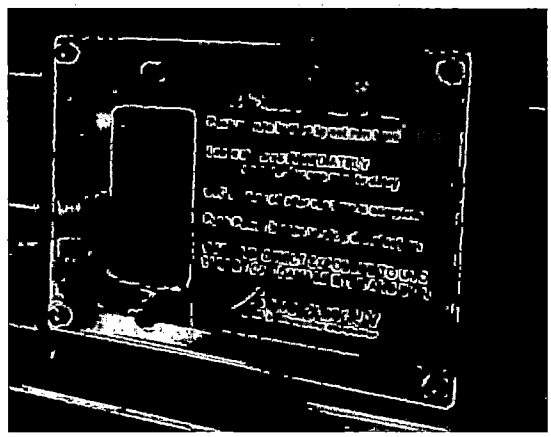
Distributed by: EA Medical, LLC • 800-339-9393 • uvc@eamed.com
www.eamed.com • 10541 State Highway 81 • Canton, MO 63435

EvergreenUV
Environmental Disinfection

ADU-136-PB
UV-C Air & Surface Disinfection Lamp

Advanced High Level Disinfection for EMS - Protects Crews & Patients





ADU-136-PB Features and Specifications:

- **Can be factory installed in new ambulances and in remounts.** Recess or surface mounting options.
- Rugged Stainless Steel and Aluminum construction with Welded-Wire protective cage over bulb.
- **Mirror aluminum specular reflectors for increased UV efficiency.**
- **9000 hour lamp life.** Philips Germicidal Sterilamp® twin-tube bulb for reliable lamp availability and cost efficient replacement, TUV 36W, has no more than 4.5 mg mercury.
- ADU-136 features one (1) 36W Philips Chill-Corrected Germicidal UV Lamp providing 30 linear inches of UV-C tubing for maximum UV-C power and time efficiency.
- **All new digital front facing push button control box with built-in delayed-start timer** can be mounted in the crew cab or back of ambulance, or in a closed panel box outside the ambulance.
- **Rated UV-C energy output 145 µW/cm² per second; 8,700 µW/cm² per minute @1 meter.**
- 120V AC 60 Hz operation through on-board power inverter or land-line access. Nominal electrical output 36 watts. Draws .78 amps @ 120 volts ac.
- Dimensions: Light fixture 20-3/8" (length) x 5-1/4" (width) x 2-1/2" (depth)
  Control box 7" (width) x 5" (height) x 3" (depth)
- **Made in the USA by Evergreen UV LLC, EPA Establishment No.91347-TN-001.** (Lumalier by Evergreen UV LLC)
- Warranty - Ballast has a 5 year non-prorated warranty. Lamp has a 1 year warranty against manufacturing defects.

This UV-C disinfection lamp is designed for use in UNOCCUPIED spaces.
UV-C can cause temporary damage and discomfort to unprotected skin and eyes.

ADU-136-PB (rev.061720). Specifications subject to change without notice.

Distributed by: EA Medical, LLC • 800-339-9393 • uvc@eamed.com
www.eamed.com • 10541 State Highway 81 • Canton, MO 63435

Independence Fire/ EMS
Exceptions
02/12/2021

2.3 General Construction, 2.4 Roof, 2.5 Side Walls, 2.7 Exterior Compartment Construction

- AEV uses several methods to adhere the body skins to the structure. In addition to the use of 1.75" wide VHB (Very High Bond) adhesive tape, AEV uses a Bostik Brand Simson ISR-70-03 Construction Adhesive and MIG welding to adhere the body skin. This allows for greater flexibility and durability of the modular body.
- AEV uses 5052-H32 Corrosion Resistant Aluminum for all body and door skins. This material is stronger and more malleable than 3003-H14, in addition to being corrosion resistant, adding longevity and durability to the modular body.
- Though AEV uses a .125" front, side, and rear skin, AEV's roof skin is .090". However, this thickness is offset by the use of AEV's superior 5052-H32 material.
- AEV uses 6105-T6 Extruded Aluminum Structural Members. 6105-T6 is stronger and more durable than 6061-T6.
- AEV uses Extruded Aluminum Corner Posts and Roof Rails with a 2" radius that feature a 45-Degree Internal Webbing Member. These Corner Posts and Roof Rails add additional safety features while being less prone to corrosion.
- AEV's standard restraint is the IMMI Per4Max restraint. These restraints are easier to enter and exit than their bulkier counterparts. Additionally, AEV's IMMI Per4Max restraints feature Deceleration Technology, designed expand and soften the impact felt by the wearer during a collision.

2.6 Floor Sub-Structure

- To comply with the various standard's requirement for loading height, all AEV Type I's come standard with rear liquid spring suspension. This allows the unit to lower to an ergonomic loading height that can reduce injury on the crew. It also allows the unit to lower or raise to clear obstacles. Additionally, the Liquid Spring System allows the driver to select a suspension stiffness that is most applicable to the terrain on which they're currently driving.

2.8 Doors.

- In order to produce the highest quality ambulances, AEV builds the door frames out of 6105-T6 aluminum, then hydraulically wraps the frames with 5052-H32 aluminum.
- AEV uses the Tri-Mark 1875 Free Floating door hardware. This hardware features a paddle shaped handle with anti-slip material on the rear side that allows even a gloved hand to find a steady grip.
- The window on the Curb Side Entry door will be AEV's standard "Tilt-out" window.

2.9 License Plate Holder

- AEV has a license plate holder with LED lights built in to their rear kick-plate area.

3.1 Electrical System, 3.6 Grounding System, 3.7 Electrical Service Cabinet, 3.20 Switch Console, Driver's, 3.20.2 Switch Console, Patient Compartment

- This unit is being bid with AEV's VX1 Multiplex System. Similar in function to the Weldon V-Mux, this system was designed with Class1 specifically for AEV.
- This unit is being bid with the OEM Back Up Camera located with the 3rd brake light, an ASA Rear-View Mirror Monitor, and a Voyager Patient Compartment Camera.
- This unit is being bid with the Electrical Service Cabinet in AEV's standard location, behind the main attendant's seat.

3.4.4 Park Override

- This unit is being bid with AEV's standard Primary/ Secondary Flash Pattern Switch.

3.10 Emergency Lighting

- This unit is being bid with Kinequip POB lights in the lower corner of the entry doors.
- This unit is being bid with Whelen Tirlin3 lights in the grille.

3.13 Siren and Speakers

- This unit is being bid with a Whelen WS295HFSC9 siren. This siren provides the best function for use with dual speakers, including dual tones.

3.14 Spotlight

- This unit is being bid with an Eagle Eye Spotlight with 140,000 candlepower.

3.15 Lights, Patient Compartment, 4.13a ADU UV-C Air and Surface Disinfection Lamp.

- This unit is being bid with Code 3 Vital Vio Dome Lights. These lights provide the benefit of UV lighting in an ambulance setting without the hazard to occupants.
- The UV-C Disinfection Lamp will be optionally priced.

3.17 Suction, On-Board

- This unit is being bid with AEV's standard SSCOR suction.

4.1 Floor, Patient Compartment

- AEV uses a ¾", 7 ply marine grade plywood.

4.2 Cabinets, Interior

- AEV uses a ¾", 7 ply Luan plywood in their cabinet construction.

4.2.1 Cabinets, Left Wall, 4.2.3 Squad Bench Cabinets

- This unit is being bid with AEV's Solid Surface Countertop. This Gibraltar material is antimicrobial, very durable, and has a rounded radius on the lip to make cleaning easier and more effective.

4.2.4 Squad Bench

- In order to provide the most structurally sound ambulance, this unit is being bid with a Stainless-Steel Overlay on top of AEV's standard Squad Bench Construction.

4.3.1 CPR Seat Cabinet

- AEV uses Lexan in lieu of Plexiglass. Lexan is more durable and shatter resistant than Plexiglass.

4.5 Headliner

- AEV's Ceiling (headliner) is a Power Coated Aluminum Composite. This material is more durable and easier to clean than vinyl.

4.13 Sharps Container

- This unit is being bid with a tilt-out sharps and trash door. This provides more usable space to the squad bench and countertop.

5.1 Rear Wheel Well Trim

- This unit is being bid with AEV's polished aluminum fenderettes. These being aluminum will eliminate the possibility of corrosion due to dissimilar metal contact that would occur with steel fenders.

5.3 Bumper, Rear Step

- AEV's rear bumper is created entirely of aluminum. This eliminates the possibility of corrosion due to dissimilar metal contact that would occur with steel tubing.

5.7 Lighting, DOT

- This unit is being bid with AEV's standard ICC Clearance Lights.

7.1 Payload

- The payload of this unit will be determined using the approved formula once an engineering review has taken place. Additions or subtractions may be made at this time if necessary.

9.1 Warranty Coverage

7 year/ 70,000-mile Conversion Warranty

7 year/ 70,000-mile Electrical System Warranty

7 year/ 70,000-mile non pro-rated paint warranty

20 year Guarantee Modular Body Warranty

American Response Vehicles

VEHICLE QUANTITY: THIS AGENCY is currently seeking to purchase one vehicle per the specifications set forth in this solicitation for bid. This agency and/or other government or private agencies that qualify to purchase under this contract will reserve the right to increase the number of vehicles purchased without incurring an obligation to obtain bids from other vendors for a period of two years. A contract extension may be provided.

CHASSIS

TYPE I AMBULANCE: The apparatus will be a configuration A, 2-door, conventional cab, and chassis with a transferable, modular, ambulance body.

CHASSIS MAKE: The apparatus will be mounted on a commercially available cab and chassis manufactured by Ford Motor Company. The chassis manufacturer will be the vehicle's point of origin. The chassis will be supplied by Ford as an incomplete vehicle to the successful ambulance manufacturer. The chassis supplied will conform to all applicable Federal Motor Vehicle Safety Standards in force at the time of manufacture. A statement of conformity will be supplied with the chassis in an "Incomplete Vehicle Manual".

CHASSIS MODEL: The apparatus will be mounted on a 2021 or newer F-550, Regular cab, dual rear wheel, four-wheel drive chassis equipped as follows below.

WHEELBASE: The wheelbase will be 193.3 inches with a cab to axle dimension of 108 inches. **The wheelbase will be factory supplied by the OEM.**

OEM: The acronym OEM is Original Equipment Manufacturer. The OEM is the chassis manufacturer and the vehicles Maker and Origin.

TRIM LEVEL: The cab will be equipped with an "XLT" Trim level with tilt steering wheel, cruise control, power windows and door locks. The front bumper and grill will be accented with chrome. The OEM grille work will remain OEM. Aftermarket vacuum formed, proprietary grille work made by the ambulance manufacturer is not acceptable and will not be used due to replacement part cost and lack of immediate availability.

STANDARD SAFETY EQUIPMENT: The chassis will be equipped with the following standard safety equipment.

- safety belt minder for front chassis cab seat belt passengers
- Advance Trac with RSC Roll Stability Control
- Driver and Passenger frontal and side airbag/curtain
- passenger side airbag deactivation switch
- SecuriLock Passive Anti-Theft System, Includes MyKey owner controls feature.
- SOS Post-Crash Alert system

76Z Secure lock immobilizer. The correct and corresponding transponder coded key must be used to allow the engine to run. Absence of the correct key will prevent the engine from running.

ENGINE: A V-8, turbo-charged diesel engine will be provided with a minimum displacement of 6.7 liters (402 cu in). The engine output will be 390 horsepower at 2,800 revolutions per minute and deliver 735-foot pounds of torque at 1,600 revolutions per minute. The compression ratio of the engine is 16.2:1 with a high-pressure common rail fuel injection system. Engine performance will comply with or exceed the most current revision of KKK-A-1822.

CHASSIS UNDERHOOD INSULATION: The XLT chassis model does not include under-hood insulation contoured to the chassis hood.

TRANSMISSION: There will be a ford, heavy duty torque shift, 10-speed, automatic transmission with overdrive provided. The transmission will have selectable drive modes normal, tow/haul, eco and deep sand/snow.

EXHAUST FILTER REGENERATION INHIBIT: The chassis will be ordered with ford option 98r for operator commanded exhaust filter regeneration with active regeneration inhibit on the diesel engine power train. The purchasing agency should familiarize themselves with the owner's manual of the chassis prior to using this manual feature.

CAB INTERIOR COLOR: The color of the cab interior will be medium earth gray.

WHEELBASE: The F-Series chassis will have 193-inch wheelbase.

CAB SEATS: OEM high back, velour covered bucket type seats will be provided in the cab. The seats will manually adjust forward and aft. Seat base must be OEM. After market seats and/or bases are not acceptable and will not be used due to violations regarding SRS (air bag) deployment geometry and ford QVM guidelines.

OCCUPANT RESTRAINT SYSTEM: The front, forward facing cab seats will be equipped with OEM installed three-point seat belts. The seat belt assemblies will meet or exceed FMVSS. 208 and 209. The inside conversion panels will not interfere with the swivel arc of the shoulder rings.

SUPPLEMENTAL RESTRAINT SYSTEM: An OEM air bag will be installed on the driver and passenger side. Permanent or quick release ambulance conversion components will not interfere with air bag deployment. The air bags must be completely operational. Modifications by the secondary manufacturer are not acceptable.

GROSS VEHICLE WEIGHT RATING (GVWR): The GVWR of the chassis supplied will be at least 18,000 pounds.

FRONT AXLE WEIGHT RATING (FAWR): The FAWR will be rated no less than 7,000 pounds.

REAR AXLE WEIGHT RATING (RAWR): The RAWR will be rated no less than 13,660 pounds.

ALTERNATOR: There will be dual OEM installed engine driven alternators with a gross output of 397-amp rating.

BATTERIES: The chassis will be fitted with Dual batteries OEM installed 750 cold cranking amp, 78-amp hour battery under the chassis hood.

TRANSFER CASE: There will be an aluminum closed coupled, part-time, 2-speed transfer case provided by the OEM. The case will feature 3 modes of operation: 2-wheel drive high, 4-wheel drive high, 4-wheel drive low. The high range two wheel and four-wheel drive ratio will be 1.00:1 and the low range will be 2.72:1. The drive mode will be manually selected by a rotary type electronic switch on the OEM dash. A 4 x 4 shift indicator will illuminate on the dash when the transfer case is engaged in 4 x 4. After market or a divorced style transfer case is not acceptable and will not be used.

SPARE TIRE: One (1) spare tire and wheel assembly will be supplied. When the tire is to be carried on the unit, the tire hold down will meet current KKK-A-1822.

SPARE TIRE STORAGE: A full size, fully inflated spare tire will be stored in the left rear compartment. The tire and wheel assembly will be fastened to the compartment wall utilizing a winged fastener or a nut that can be removed with the tire iron. If supplied by the OEM, jack and tire tools will also be provided and clamped into place.

JACK AND SPARE TIRE TOOLS: The vehicle jack and tools associated with the spare tire and jack will be installed behind the passenger's seat.

WHEEL/RIM APPEARANCE: All four outside chassis wheels will be covered in polished stainless-steel wheel simulators. The wheel simulator design will not affect tire and wheel balance when the vehicle is driven between zero and eighty miles per hour. The lugs will be capped off with bright stainless steel, snap-on caps designed to cover wrench marks, normally remaining on the lug nuts.

BRAKES: 4-wheel anti-lock, power assisted hydraulic brakes will be supplied by the OEM. The brakes will be 4-wheel Disc type with Dual piston, Pin slider calipers. The front disc diameter will be 14.53 inches in diameter and the rear disc will be 15.55 inches in diameter. The parking brake will be a foot operated, hand release independent mechanical brake, provided by the OEM.

BRAKE BOOSTER / ANTI LOCK SYSTEM: The brake pedal effort will be reduced by a hydro-boost power assist unit. The booster will be installed on the fire wall and linked directly to the foot pedal. Hydraulic brake pressure will route through a 3-channel, 4-Wheel anti-lock brake system that prevents wheel lock-up.

INTERIOR UPGRADE PACKAGE: Ford interior upgrade package will be ordered and supplied on the chassis. This package will include:

- Cloth Headliner
- High trim door panels
- Ford option code 21A high back bucket seats
- Cloth sun visors
- Power Door locks
- Power Windows
- Insulation package

FLOOR PEDALS: The chassis will have OEM adjustable floor pedals, option 62M.

DAYTIME RUNNING LIGHTS: Daytime running light option No 942 will be supplied and installed by the OEM. Both headlights will come on with the ignition switch.

CHASSIS CAB BRAKE LIGHT: There will be a back of chassis cab high mount brake and courtesy light installed.

SHOCK ABSORBERS: The chassis supplied will be equipped with one shock absorber for each side of each axle. An OEM selected one and three eighth (1-3/8") inch gas type shock will control vehicle spring oscillation and dampen road related jounce and harshness. Ambulance related shields, floor members or other devices will not interfere with shock replacement.

FRONT STABILIZER BAR: A computer selected, one-inch diameter anti-sway bar will be supplied. The bar will regulate body shift and enhance drivability, handling, and control. The solid torsion spring steel bar will be attached to the vehicle frame utilizing natural rubber bushings and removable steel bushing housings. The ends of the bar will be inserted into natural rubber bushings, located near the front wheels. Both axle attachment points will be cast into the forged steel, I-beam front axle.

FUEL TANK: The fuel capacity will be at least 40 US gallons. The fuel range will be at least 250 miles per KKK-A-1822.

REAR AXLE TYPE AND RATIO: The axle will be Limited Slip Differential with a 4.10:1 gear ratio Ford Code XG8.

TIRES: All mounted, active tires will be identical make, tread type, size, and load range. For GVWR, the tires will be LT225/70R19.5 load range F. A label with the recommended tire pressure will be located above each wheel opening, unless specified otherwise by the purchaser. All tires will be balanced per KKK-A-1822 3.6.12.

AMBULANCE PREPARATON PACKAGE: The chassis provided will be equipped with an ambulance preparation package designed and installed by the OEM. The 47L allows operator commanded regeneration down to 30% DPF capacity. The 47A had to have at least 70% DPF capacity to do a manual regeneration. The low-DEF fluid will not cause the vehicles speed limiting or forced idle. It will still give you the warning lights, chimes, and message. The 47L is a Federal Emissions compliant package. ***It is not certified in California or the Green States***. California has declared to NTEA/AMD that they do not regulate emergency vehicles. The package will be designed to hold up to the demands and duty cycles inherent with Emergency Medical Vehicles.

ALTERNATOR - CHARGING SYSTEM: Two alternators will be supplied and installed by the OEM. The alternators will be as supplied by Ford under the 47L/A Ford Ambulance Prep option. Both alternators will be controlled by the vehicle's on-board computer. The combined output of the alternators will be 397 amps at ideal conditions. The ambulance manufacturer will not modify the OEM computer's functional control of the alternators. The alternators' output cable, originally connected directly to the positive post of the under-hood battery, will be rerouted to a 3/8" diameter, solid brass junction post. A 2/O positive battery cable will reconnect the alternators to the batteries from the junction post. The ambulance load cable will connect under the hood to the junction post.

THROTTLE CONTROL: There will be a set of diodes and resistors connected to OEM provided wiring to activate the High Idle function when conditions are met. When the vehicle is in Park, parking brake engaged, and the coolant has reached 140 degrees Fahrenheit the high idle system will activate during a low power indication.

CAB STEREO: An OEM Ford AM/FM/MP3 in dash radio and four cab mounted speakers will be included with the chassis. The radio will feature an eight-inch digital capacitive display with swipe capable technology. The radio and entertainment system will feature a built-in modem per FORD OEM design with up to 10 user connectivity per compatible devices. The radio will provide for a clock time display, Bluetooth connectivity smart device mirror integration and retained accessory power. The steering wheel will have radio controls integrated and easily usable.

CHASSIS VOICE CONTROL SYNCH3 (FORD ONLY): The chassis manufacturer will include a FORD SYNCH3 option which will allow for greater safety of the vehicle driver. The driver will be able to voice control connect to multiple wireless systems. The driver of the vehicle will refer to the owner's manual for details of operation. The chassis radio and information system will feature an eight-inch center stack touch screen with audio control and compass, and eight-inch productivity screen in the instrument cluster. Two USB charging ports will be OEM included. Bluetooth connectivity to the available applications is available for a connected compatible device. An information cluster screen is located in the chassis to assist the driver.

MIRRORS: The chassis will be outfitted with dual OEM, power adjusted mirror glass, manually telescoping trailer tow black mirrors. The mirrors will connect to the chassis cab doors at the forward, lower corner of the cab door window. Both mirrors will feature a bi-directional break-away function to permit folding the mirror heads against body in close quarters. The mirrors will be seven inches wide by eight inches high and flat on both right and left sides. The mirror will feature heated surfaces for the main mirror and the convex spotter mirror. The mirror heads will incorporate forward facing integrated clearance lamps on the outer edge with minimal halo turn signal functions.

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MECHANICAL SUSPENSION COMPONENTS: The control arms will be connected to a replacement front hanger that features upper and lower control arm pivot points and a connection point for a heavy-duty sway bar. Both Liquid Spring struts will be positioned directly aft of the axle and outboard of frame rails. The designed ride height will maintain original suspension's drive-line geometry.

TRACKING BAR: The suspension will utilize a lateral control rod (tracking bar) to maintain side to side axle position related to the chassis frame. Wear shoes mounted to the sides of the frame rails are not acceptable and will not be used.

HYDRAULLIC SYSTEM: All hydraulic lines, fittings, reservoirs, and valves will be protected against "stone pecking". Abrasion covers, such as nylon convolute loom over the lines are required. The entire assembled system will be tested for leaks at every fitting connection point.

MECHANICAL QUALITY ASSURANCE: All fasteners related to the suspension assembly are considered critical. All fasteners will be tightened to the manufacturer's recommended torque by the primary installation mechanic. A secondary mechanic will "put a wrench" and re-torque ALL of the fasteners and then spray a contrasting color of paint onto the heads and nuts of each fastener.

SUSPENSION JOUNCE STUDY: A suspension jounce clearance study will be performed throughout the full range of suspension travel to ensure adequate clearance of suspension, frame, and brake components. Test results will be documented and supplied in the owner's manual.

KNEELING FEATURE ENABLE: The rear suspension will kneel when the triggering device is activated AND an enable switch, located in the cab console is activated.

KNEELING FEATURE ACTIVATION: The kneeling feature will activate in PARK position only. The kneeling feature will NOT activate in any forward or reverse gear. The above rear suspension will kneel when the trailing rear access door is opened.

VEHICLE EXHAUST TERMINATION POINT: The exhaust system routing will remain unmodified and the termination point will remain after the rear axle on the right side. Liquid spring controller installed on driver side of console, recessed forward.

REAR STABILIZER BAR: The rear sway bar will remain OEM.

TIRE VALVE EXTENDERS: One pair of tire valve extenders will be supplied and installed for each inside rear wheel. The tire valve extenders will permit the user to check tire pressure and fill the inside rear tires without removing the outer tire. The extenders will have a braided stainless-steel outer jacket to resist abrasions and cuts. The filler end will be supported by a valve bracket.

MODULE CONSTRUCTION - GENERAL

SERVICE INTENT: The ambulance body will be all aluminum. The body sheet will be reinforced with structural members designed to resist deflection and hold up to extreme ambulance service per the latest revision of federal specification KKK-A-1822F.

BODY MEMBER ALLOY: The side, front and rear sheet will be derived from .125", 5052-H32 aluminum sheet. The roof sheet will be one (1) piece, .090", from roof rail to roof rail. The side structure and structural shapes will be extruded of 6105-T6 aluminum.

STRUCTURAL INTEGRITY: The body will be capable of providing impact, deformation, and penetration resistance in the event of a collision. The body structure will be capable of passing a standalone static load test on a type-tested body. The test will be conducted in accordance with AMD-001 **except the test weight will be a minimum of 75,000 pounds**. The same unit will be subjected to the same test with the body turned on its side. A complete copy of the testing documents with photos must be supplied upon bid review if requested by this agency. Non-compliant bids will be rejected.

WELD QUALITY: All welds within the modular body will meet American Welding Society codes for structural and sheet welding.

CREVICE PREPARATION: All skin and extrusion surfaces destine to be mated together, will be primed with epoxy, etching primer prior to assembly. All over lapping extrusion to skin surfaces will be bedded with a two-part acrylic high strength bonding adhesive.

SIDE STRUCTURAL MEMBERS: The sheet edges will be fit into slots designed within a proprietary, double hollow, corner post extrusion in addition to the two-part acrylic bonding agent. The sheet will be MIG welded and structurally bonded to the extrusion. Double-hollow designed corner post extrusions will be used to weld side and end assemblies together. Horizontally oriented, adjoining structural box tubes will be welded to the corner post with a minimum 50% surface weld. The intermediate structural members of the side grid will be two by two inch 6105-T6 aluminum, architectural box tubing. All entry and compartment door adjacent members will be one quarter inch, two by two-inch proprietary extruded shape. The main structure will surround the compartment openings and provide intermediate skin support. The intermediate structure spacing will have a nominal dimension of twelve inches. All grid structure will be welded together with a minimum of 75% of available mating surface. The side skin will be bonded to the structural grid using 1.75 inch wide, VHB (Very High Bond) adhesive tape. The edges of the tube that touch the skin will be sealed with Bostik Brand, Simson ISR 70-03 Construction Adhesive.

SIDE IMPACT RAILS: There will be four side impact rails, located in the upper and lower sections of the side walls. They will consist of 6105-T6 aluminum, that is a solid one-half inch thick by four-inch plate on the curbside and one-half by four-inch plates on the streetside that are continuously MIG welded or Huck structurally fastened to the structural grid. Since this is a safety item, no exceptions will be accepted.

SEAT BELT ANCHORAGE: Occupant seat belts will be drilled and tapped through one-half by four-inch plate on the curbside and one-half by four-inch plates on the streetside that are continuously MIG welded to the structural grid. Since this is a safety item, no exceptions will be accepted.

SIDE SHEET: The side sheet will be .125 thick, 5052-H32 aluminum. The side sheet compartment opening cut outs will be cut with CNC controlled, gantry mounted plasma or high-speed routing equipment. The door opening will be cut to allow for the skin to be molded into the jamb opening to create a crevice free jamb with a smooth paint finish. The machine formed skin will return into the body at least 3/4" to meet the jamb extrusion. This method will encourage square openings to receive the door assemblies and maintain critical structural locations. The door jamb will have a full structure frame behind the jamb skin return. It will not rely strictly on the skin for the compartment jamb. Pre-determined ventilation louvers will be ***formed*** into the body sheet, where specified. Bodies that do not incorporate formed louvers have the potential for additional corrosion points and are not preferred by this agency.

SEAMLESS DOOR JAMBS: The door jambs of the module will be seamless. A seamless door jamb exterior is required to minimize corrosion. Extruded type exposed door jambs do not meet this specification. The skin will completely conceal the doorjamb from view. The only visible seams on the body sheet will be at the corner posts. The skin will extend .688 inch below the skirt rail extrusion to a drip edge to keep moisture from collecting underneath where the skin meets the skirt rail extrusion.

CORNER POST EXTRUSION: The corners of the modular body will be made from an extruded aluminum structure that has an alloy of 6105-T6. The corner post extrusion will be 3.25 x 3.25-inch with a 2-inch- radius on the outer corner. The corner post extrusion will have an internal web member that runs on a 45-degree angle to the front and side of the modular body. Where the internal web meets the exterior extrusion wall the internal web will flair into a .125-inch radius giving a .25-inch wall thickness at the exterior wall of the extrusion. There will be a .75-inch flange on each side of the corner post extrusion that is a side skin receiver. The side skin receiver will be funnel shaped to allow the exterior side skin to fully seat into the corner post extrusion. The interior walls of the corner post extrusion will be .125-inch thick, and they will incorporate a 45-degree weld bevel on the interior corners.

REAR SILL EXTRUSIONS: The rear body and floor substructure will be constructed of a dual proprietary aluminum extrusion with mating joints. The lower floor extrusion is a combination continuous extrusion with an incorporated L mating surface. The lower door extrusion is a multi-chamber construction with matching radius corner and surfaces to the floor sill. This combination of extrusion and joint structure provides for strong joint strengths, and continuous contact surface between the floor sill and the outer-body door extrusion.

FRONT AND SIDE WALL GUSSET PLATES: The front wall and side wall structural members will have additional support with a fully welded gusset system that will be made of 5052-H32 aluminum plate, .25-inch-thick by four by four-inch.

REAR AND SIDE WALL GUSSET PLATES: The rear wall and side wall structural members will have additional support with a fully welded gusset system that will be made of 5052-H32 aluminum plate, one quarter inch thick by four-by-four inch.

ROOF RAIL EXTRUSIONS: The roof corners of the modular body will be made from an extruded aluminum structure that has an alloy of 6105-T6. The roof rail extrusion will be 4.55 x 3.5 inch with a 2-inch radius on the outer corner. A full-length drip rail will be incorporated into the roof rail corner post extrusion, drip rails at the top of the modular body that are not inclusive of the roof rail extrusion do not meet the intent of the specification and are deemed non-compliant to this specification. The roof rail extrusion will have an internal web member that runs on a 45-degree angle to the front and side of the modular body. Where the internal web meets the exterior extrusion wall the internal web will flair into a .125-inch radius giving a .25-inch wall thickness at the exterior wall of the extrusion. There will be a .75-inch-flange on the lower side of the roof rail extrusion that is a side skin receiver. The side skin receiver will be funnel shaped to allow the exterior side skin to fully seat into the roof rail extrusion. There will be a .75 x .125-inch recess into the roof side of the extrusion for locating the roof sheeting. This recess will have a 45-degree weld bevel. The interior wall of the roof rail extrusion that is in-board of the side skin funnel will be 2-inch-wide so that they line up with the exterior side wall. The interior wall of the roof rail extrusion that is in-board of the roof sheeting recess will be 2.25-inch-wide so that they line up with the 2.25-inch roof bows. The interior walls of the roof rail extrusion will be .125-inch-thick, and they will incorporate a 45-degree weld bevel on the interior corners.

ROOF SHEET: The four (4) edges of the sheet will be continuously welded to the roof rail extrusion to prevent leaks. All perimeter welds will be ground smooth and worked smooth prior to the overall body paint and finish. Non-fully welded roof sheets to the roof rail extrusions do not meet the intent of this specification and are deems non-compliance to this specification.

ROOF BOWS: The roof sheet will be supported by full width .125-inch-thick x 2 x 2.25-inch architectural box tubing. The roof bows will be located on twelve-inch centers. The roof bows will be MIG welded to the roof rail extrusions with no less than four and one-half inches of continuous weld per end. The roof sheet will be bonded to the roof bows with VHB (Very High Bond) adhesive tape.

LATERAL ROOF SUPPORTS: If this agency requires ducted ceiling HVAC, additional structural support will be added as a result of the 2-inch ducted heat and A/C delivery system .2 x 2-inch three-sided extruded channel with two sides being .125-inch-thick and the bottom surface for fastener acceptance to be .160-inch will be full length of the body.

ROOF CORNERS: The roof rail extrusions will be welded together along the roof bow mating walls at the corners. In addition, the outer surfaces of the roof rail extrusions will be 100% continuously TIG welded to cast aluminum corner castings. The castings will have internal mating flanges that extend horizontally inside the upper roof rail extrusion and vertically down the corner post extrusions. The corner roof castings will have accommodations for number six nylon inserts to retain corner cap marker combination warning lights when they are specified. The nylon inserts will provide isolation of the retaining screw of the light from the casting materials.

FLOOR MEMBERS: Floor structures will be 6105-T6 aluminum, 2.000 by 2.500-inch proprietary hollow section architectural box tubing aluminum. This proprietary shape tubing allows for half-inch plate to be recess to which floor

mounted items can be securely connected. Each member will have a defined bevel built into the extrusion die to allow for full weld penetration on the edge of the extrusions.

FLOOR HORIZONTAL GUSSET PLATES: The floor member to side wall fully welded horizontal gusset system will be made of 5052-H32 aluminum plate, four (4) by four (4) inch triangles. A minimum of 12 gussets will be located horizontally connecting cross members to longitudinal main center members at each main cross member site.

FULL WIDTH CROSS MEMBERS: The module floor will provide core support for the side assemblies and will incorporate a minimum of four (4) full body width floor members. The full width floor members will connect to and support the side wall assemblies. Each member will be made of 6105-T6 aluminum. The front floor tube is to be a minimum of 3.000 x 2.000 x .250 inch-thick 6105-T6 aluminum tube which is fully MIG welded into the front corner post at each side of the vehicle. On top of the tube is to be a minimum .188 thick 5052 aluminum front sill running full width of the body. One of the members located just forward and/or rear of the rear wheel housing will be 2.000 by 2.500-inch proprietary hollow section architectural box tubing. The last floor cross-member will be a 2.375 x 3.188 6105-T6 aluminum proprietary shape proof tube on the rear wall which is fully MIG welded into the rear corner posts at each side of the vehicle. This tube is butted up and welded to a 2.000 x 1.000 x .125 inch-thick 6105-T6 tube which is also fully MIG welded to the rear corner post. A minimum of eight (8) total 6-inch vertical gussets, (1/4) inch thick will be installed to reinforce two (2) at each cross member and sidewall tubes directly fore and aft of the axle.

FLOOR SYSTEM CANTILEVER BEAMS: There will be cantilever floor beams used at intermittent body points running from the opposite main interior wall beam to the opposite exterior wall at the location between exterior compartments. The use of cantilever beams increases the strength of the overall floor system and support to the compartments.

WHEELWELLS: There will be formed wheel well housings installed into the module body to provide sufficient clearance for the rear axle movement based on the chassis jounce study and suspension choice selected. The wheel well will be formed of smooth aluminum and secured to the floor tube structure system. The wheel well shape will be multi-angular with vertical riser and flat top to provide the most efficient use of space inside of the module, while providing the required jounce clearance underneath for the chassis tire movement. Wheel wells that are radius shaped are not acceptable to this agency, as they are unnecessarily tall and inefficient in space usage.

WATERTIGHT PATIENT CABIN: The sub floor will be shielded from moisture. An aluminum sub sheet will be sealed to the floor structure with silicone sealant. Additional aluminum plates will be intermittent welded between compartments, wheel well liners, step wells and fuel filler housings. All the areas will be thoroughly sealed from one to the other, creating a sealed patient cabin from the outside. Extrusion hollows will be filled with expandable foam sealant to prevent fumes and moisture from entering.

DOOR CONSTRUCTION

DOOR SKIN: No welded seams are allowed, only one piece formed corners. The door skin will be .090 inch-thick, 5052-H32 aluminum sheet formed on all four sides utilizing an ACF Multi-flex Corner Former Model MF 25 to create a crevice free surface for best paint adhesion and corrosion resistance. The formed edges will not have elongation cracks due to forming and will maintain material thickness uniformly over the entire sheet. The formed edges uniformly round off seamless for better paint adhesion and aesthetic appeal that does not require cutting and welding in the corners.

DOOR FRAMING: The door frame will reinforce the perimeter of the skin pan. The extrusion will incorporate a T-slot to receive an extruded, hollow, dual durometer closed cell UV protected TPV gaskets with relief holes for even compression for a proper and complete seal from the door to the door jamb. The gasket corners will be welded without using adhesives for bonding. The door frame extrusion will also add torsion resistance to the door assembly. The door jamb extrusion and frame extrusion will be cut 45 degree on each corner. Each of the four corners will incorporate a keyway and spline that is designed to drive into each corner and maintain a perfect 90-degree angle prior to welding. The door castings will include gusset plates for additional support for the door construction. The door frame will also

incorporate a clearance way for UNF threaded blind fasteners for the door panels. The door panel will not rest on the body of the blind fasteners.

FINAL DOOR ASSEMBLY: The door skin will be bonded to the frame assembly with an adhesive sealant in addition to intermittent welding. For entry doors additional horizontal structure will be added to maintain door skin flatness as well as penetration resistance in the event of a collision. The horizontal members are extruded J-channel, 0.150 inch-thick. A minimum of two horizontal members will be welded in. A vertically oriented 0.150-inch-thick formed hat-channel will be welded to the webs of both horizontal channels for additional buckling resistance. Compartment doors will have a reinforcement system of horizontal or horizontal/vertical structure added to maintain skin flatness and impact resistance.

ENTRY DOOR WINDOW(S) OPENINGS: The entry door(s) will incorporate recessed areas that are stamped into the outer door skin to allow for a flush window appearance and will not protrude with a lip on the outer door skin of the modular body.

DOOR PANELS: The inside entry door panels will be made of .080-inch-thick aluminum plate and will be finished per these specifications later in this document. The center panel will be removable for easy lock service/lubrication. The inside of the compartment door panels will be made of .080-inch-thick polished aluminum diamond plate. The edges of the door panel will be recessed into the door frame extrusion. The panels will be fastened to the door frame with stainless steel, #10-32 UNF machine screws threaded into aircraft quality blind fasteners. Each fastener will have an internal tooth lock washer to preclude loosening.

DOOR JAMB: The door jamb will accommodate rigid fastening of compartment door hinges. The jamb will include a hollow cell that will conceal wiring for the non-mechanical door switch. The door jamb frame will be cut 45 degree on each corner from the door edge corner, each of the four corners will consist of a keyway and spline that is designed to drive into each corner and maintain a perfect 90-degree angle prior to welding. Additionally, the jamb will be continuously MIG welded on the inside and the outside corners. *A seamless door jamb exterior is required to minimize corrosion. The skin will completely conceal the doorjamb from view.*

HINGE: All doors will have stainless steel, continuous, piano hinge. The pin diameter will be .250 and staked into place to prevent drifting out of the hinge leaf. The knuckle lengths will be one inch.

DOOR HINGE BOLTS: The hinge attachment bolts will be one quarter inch diameter by one-inch-long stainless-steel type TT (Thread Rolling Screws) hex head bolts with SermaGard protective coatings. Each bolt will be treated with the aluminum filled basecoat/resin-bonded fluoropolymer topcoat system. The SermaGard 1105/1280 protective coated bolt system is designed to provide outstanding salt and dissimilar metal corrosion protection versus bolts treated with pastes and liquids. The SermaGard coating provides UV weathering resistance while protecting the aluminum tube structures and stainless-steel hinges from dissimilar metal contacts. The SermaGard provides a sacrificial corrosion protection. Body manufacturers that do not use bolts treated with SermaGard 1105/1280 are providing substandard protection from corrosion and are not acceptable. Thread cutting screws to attach exterior compartment doors or hinges to the body will not be used.

LATCHES: The latches will meet FMVSS 206. All latches will be two-stage, rotary- type. The latches will be through bolted to the door frame extrusion. All entry doors will have two rotary latches per door. To assure uniform latch timing and functional door reliability, only straight, one-quarter (1/4) inch diameter rods will connect the latches to the handle. All double hung compartment doors will have two rotary latches per door.

NADER PINS: All Nader pins will be headed to prevent the door(s) from opening under impact. They will be hex headed Grade-8 fully adjustable with a 5/16" thick knurled stainless-steel retainer plate to keep the Nader pin from moving out of setting after adjusted. The opening in the door jamb extrusion will be large enough to allow full adjustment with the

Nader pin washer covering the hole. Manufacturers that use Nader pins without knurled retainers are not acceptable to this agency as they will require more frequent readjustment.

MOUNTING

MOUNTING SYSTEM: The outside dimension, across the frame rails on this chassis is thirty-four (34) inches. Twelve (12), one quarter (1/4) inch thick steel out riggers, designed specifically to through bolt to the frame rail web, will be supplied and installed. Each out rigger will be through bolted to the frame utilizing three (3), five eights (5/8) inch diameter, UNC, grade eight, Flanged Hex head bolts and corresponding grade eight, flanged, locking hex nut.

Each out rigger will incorporate a dual silicone vibration isolator system and support for the body's mounting sill. The system will consist of a top locking nut, the one-inch aluminum flat bar, an upper stainless steel bushing, a pre-loaded silicone upper vibration isolator, the steel outrigger, then a lower pre-loaded silicone isolator, a stainless lower washer and finally the bolt head that passes through the assembly. The flanged outer edge outriggers will not protrude more than four (4) and three-eights (3/8) inches measuring from the frame's web to the outer tip of the out-rigger deck. All mounting sills will be made of one inch thick by three-inch-wide solid aluminum flat bar. A grade eight half-inch diameter by four-inch-long hex-head bolt will be used to bolt the sill down at each isolator site. The lower silicone isolator will be 22% less in firmness than the upper isolator to provide a dynamic separation of road vibration from the chassis frame into the modular body. Body mounting systems using only a single mounting isolator will not be acceptable as they provide inferior mounting vibration isolation.

MODULE CONFIGURATION

OVERALL LENGTH: The overall length of the vehicle will not exceed twenty-three (23) feet, nine (9) inches. The departure angle and length will meet or exceed the current revision of Federal Specification KKK-A-1822.

MODULE LENGTH: The module length will be at least one hundred seventy-six (176) inches.

MODULE WIDTH: The module width will comply with the current revision of Federal Specification KKK-A-1822. The module will be ninety-six (96) inches wide, excluding lights and accessories.

MODULE HEAD ROOM: The module will not be less than seventy-four (74) inches actual measured headroom. The measurement will be taken from the patient compartment floor to the ceiling panels.

INTERIOR HEADROOM: The interior finished working headroom in the patient area of the ambulance will be seventy-four (74) inches from floor to ceiling.

MODULE EXTERIOR HINGES: There will be installed stainless steel hinges with standard mill finish for all exterior compartments and entry doors on the module. These hinges will feature slots for mounting and adjustment of the doors. The finished module paint and special mounting bolts with Serpa coatings will assist in deterring the stainless-steel hinges from dissimilar metal corrosion.

PARTIAL WIDE AISLE UNIT: The body specified herein will feature a compartment configuration that will accommodate an aisle space measuring 49" from the face of the squad bench to the face of the left wall cabinet. The aisle will be centered within the body.

COMPARTMENT CONSTRUCTION

MATERIALS: Unless specified otherwise, all exterior compartment walls and backs will be constructed of .100 polished aluminum diamond plate. All compartment floors will be formed of .125 aluminum sheet. Compartments for generators, oxygen, and backboards will have .250 compartment floors. All compartment ceilings will be formed of .090

aluminum sheet. The ceilings and floors will form around the sides and back to provide an overlapping joint. The floor and ceiling surfaces will be double action (DA) sanded to 180 grit. The floors and ceilings are bonded to the walls and back and intermittent welded on six (6) inch centers.

DRAIN HOLES: Drain holes will be provided on the bottom of the compartments. Each hole will be baffled to prevent splash water from entering the compartment.

COMPARTMENT DOOR PANEL: Unless specified otherwise, the inside door panel of each exterior compartment will be diamond plate.

DOOR SWING: The compartment door checks will be installed to allow the door to open ninety to 100 degrees (90 up to 100) from the fully closed position.

COMPARTMENT FINISH: Unless specified otherwise, all exterior compartment walls and backs will be constructed of .100 polished aluminum diamond plate.

COMPARTMENT FLOOR CONFIGURATION: This compartment floor will be a sweep out type floor. The compartment floor will be flush with the lower door jamb to facilitate compartment floor cleaning. The edge of the compartment floor will be continuously welded to the lower door jamb. Heat generated from welding will not distort the straightness or flatness of the jamb or compartment floor. The weld quality must be aesthetically uniform.

COMPARTMENT FLOOR THICKNESS: The compartment floor will be .125-inch-thick aluminum of single layer.

VENTILATION: There will be a hole in the compartment below floor line approximately 5-3/8"wide x 2-9/32"tall that will accept a specially designed baffled vent. The baffles will have a stainless-steel spring that allow for only one-way operation. They allow air to escape out of the compartment when the door is closed, but not for air to come back into the compartment to keep dirt and dust out of the compartment interior. Engineering will determine the amount of these vents required by the volume of space in the compartment.

TALK THROUGH CAB TO MODULE WINDOW: A 14" inch high by 19"-inch-wide access from the module to the cab will be provided. Sliding polycarbonate doors will close off the access window. The cab will NOT be rigidly fastened to the modular body. A flexible, Accordion shaped, closed cell rubber bellows, custom made for the opening will be provided to tie the cab to the module. One joint in the bellows is acceptable and will be located on the bottom of the opening. The joint will be completely vulcanized. The window provided will meet or exceed current Federal specification KKK-A-1822.

CAB ROOF SUPPORT: There will be a 3/16" thick by 3" wide extending from driver's side to passenger side on the underside of the cab roof above the headliner to prevent any oil canning noise that might be caused by wind against the front body wall and the cab roof.

BODY DROP: The skirt line of the modular body ahead of the rear wheels will be 6" lower than behind the rear wheels. This will allow the curbside entry step to be lower to ground level making it easier to enter the curbside entry door and meet the requirement of KKK-A-1822 latest revision.

CURBSIDE ACCESS DOOR: The curbside side access door will be at least 82.812" high by 31" wide measured at the door jamb opening.

JAMB PROTECTION: At the curbside side, module entry door, a full width, formed, stainless steel jamb protection plate will be provided to prevent heavy traffic from chipping the paint.

DOOR CHECK: The compartment door(s) in excess of 13" pass through width will be equipped with a door check (hold open) device. All vertically hinged doors in excess of 13" pass through width will have a gas operated bi-directional

spring shock door check. Door check brackets will be drilled and tapped through a minimum of 3/8" material to preclude coming loose.

DOOR SWING: The compartment door checks will be installed to allow the door to open ninety to 100 degrees (90 up to 100) from the fully closed position.

CURB SIDE ACCESS DOOR LOCATION: The curbside entry door will be placed at the most forward position on the curbside of the module.

STEP WELL: A two-step diamond plate step well will be provided at the curb side access door. Each step tread dimension will not be less than 10 inches. Both steps in the step well will be illuminated, per current Federal Specification KKK-A-1822.

STEP WELL ILLUMINATION: A 3" LED clear interior light will illuminate the curbside step well per the current revision of Federal specification KKK-A-1822.

LEFT FRONT COMPARTMENT (M-1): This compartment will be located in the left front corner of the modular body. The minimum compartment dimensions will be 88.5" High x 22.125" Wide x 19.5" deep.

SPLASH GUARD: A deflector plate will be welded between the left front and left front middle compartments. The shield will be specifically designed to shield water splash from the compartment vents.

VENTILATION: There will be three sets of six louver punches on the outside and inside door panel to properly ventilate the electrical components located in the above-mentioned compartment.

RAIN DIVERTER: There will be installed an aluminum hat with open lower end inside of the compartment door, directly behind the exterior outer punched louvers.

COMPARTMENT DOOR: A single, forward hinged, compartment door will be set for this compartment. The door will have a single handle and two rotary latches.

ADJUSTABLE SHELF: A standard duty aluminum adjustable shelf will be provided. The shelf will be formed of .125 (1/8") thick aluminum, with 2 inches upward turned lips on all four sides. The shelf will be mounted on Unistrut tracking, infinitely adjustable, aluminum extruded, heavy duty shelf track. Incrementally adjustable, non-aluminum shelf track is not acceptable. The shelf will be located between the divider and the rear wall, above the oxygen tank.

SHELF BRACKET: Each above exterior adjustable shelf will include four (4) self-gusseted .157" thick shelf brackets that will allow for easy adjustment up and down for each shelf. Each bracket will be secured to the shelf by carriage head bolts on the top of the shelf and hex head bolts to secure them to the shelf tracking material in the compartments. This will guard against shelf deformation in the compartments when the shelves are secured in place.

VERTICAL DIVIDER: Located in the "M1" compartment will be semi-rigid fixed divider will be formed of 5052-H32 aluminum sheet. The divider will be full height of the compartment by fourteen inches (14") deep: measured from the back of the compartment. The exposed edge will be covered with automotive edge trim.

SPECIAL NOTE: The stowage enclosure device you have selected for this order does not meet the performance requirements of the Recommended Practice for Ambulance Storage Compartments and Cabinets Design.

Section 3.11.3 of KKK-A-1822F as revised July 1, 2017 (Change Notice 10), requires oxygen cylinder compartment to not be utilized for storage of any other equipment. Individual requirements for your state may also be applicable and

should be reviewed. Based on your stowage compartment and cabinet design selection, this ambulance will not be compliant with KKK-A-1822F in that specific respect.

RETAINER STRAP: There will be one, two-inch-wide webbed strap will be supplied in the aforementioned compartment. The strap will be designed and positioned to prevent backboards and other related items, that may have shifted against the door during transit, from falling out of the compartment when the door is opened. The strap will employ a metal buckle system with a push button release. The strap be fastened to the compartment walls with a two-inch footman's loop. Plastic "Luggage" type buckles and smaller webbing size is not acceptable. Attachment screws will not pierce the strap webbing.

IMPACT LOCATION TRIM: There will be installed a soft gel trim of complimentary color installed to protect backboards from being damaged during transportation. There will be two (2) strips located on the forward wall, two (2) strips located forward of the divider on the back wall, and two (2) strips located on the forward side of the divider. A black plastic color ventilated tile will be installed on the compartment floor.

SPECIAL NOTE: The Stowage enclosure device you have selected for this order does not meet the performance requirements of the Recommended Practice for Ambulance Storage Compartments and Cabinets Design.

Section 3.11.3 of KKK-A-1822F as revised July 1, 2017 (Change Notice 10), requires oxygen cylinder compartment to not be utilized for storage of any other equipment. Individual requirements for your state may also be applicable and should be reviewed. Based on your stowage compartment and cabinet design selection, this ambulance will not be compliant with KKK-A-1822F in that specific respect. CAAS Exception C.11.3.9 Storage in an Oxygen Compartment

COMPARTMENT LIGHT: (1) One light will be mounted in the ceiling of the "M-1" compartment. The light will be surface mount and will be LED.

LEFT FRONT MIDDLE COMPARTMENT (M-2): This compartment is located adjacent and rearward to the left front compartment. The minimum compartment dimensions will be 40.5" High x 49.75" Wide x 19" Deep.

COMPARTMENT FLOOR THICKNESS: The compartment floor will be .25-inch-thick aluminum of single layer.

COMPARTMENT DOORS: A set of double hinged compartment doors will be set for this compartment. Each door will have a single handle and two rotary latches.

ADJUSTABLE SHELF: A standard duty aluminum adjustable shelf will be provided. The shelf will be formed of .125 (1/8") thick aluminum, with 2 inch upward turned lips on all four sides. The shelf will be mounted on Unistrut infinitely adjustable, aluminum extruded, heavy duty shelf track. Incrementally adjustable, non-aluminum shelf track is not acceptable.

SHELF BRACKET: Each above exterior adjustable shelf will include four (4) self-gusseted .157" thick shelf brackets that will allow for easy adjustment up and down for each shelf. Each bracket will be secured to the shelf by carriage head bolts on the top of the shelf and hex head bolts to secure them to the shelf tracking material in the compartments. This will guard against shelf deformation in the compartments when the shelves are secured in place.

COMPARTMENT LIGHT: (1) One light will be mounted in the ceiling of the "M-2" compartment. The light will be surface mount and will be LED.

AUXILIARY CONDENSER: The module A/C system will employ a separate condenser for the rear HVAC system. The condenser will be through bolted to a reinforced compartment floor and mounted under the module. This condenser will provide 70,000 BTU cooling with 1,680 cubic feet per minute of clear air movement through the fans. Two electric cooling fans will be mounted to the core assembly and blow toward the road or open air. The condenser fans will come

on when either the cab or the patient cabin A/C unit is turned on. Fan blades will be protected by a high impact resistant grille work that is molded into the fan body. All fan wiring will be routed, secured, and protected from road hazards. The auxiliary condenser will be painted White YZ Std.

CONDUIT No 1: An empty one- and one-half inch diameter conduit expressly designed to add wires after vehicle delivery by the end user or his/her authorized agent will be supplied and installed. The conduit will have semi-rigid, non-conductive liner that is free of inside ridges that can bind on the wire harness being pulled through the conduit. The outer jacket will be a non-conductive, spiraled rigid coil designed to maintain the original shape of the liner, throughout the length of the conduit run.

ORIGINATION POINT: The aforementioned conduit will originate in the left front middle (M-2), exterior compartment.

TERMINATION POINT: The aforementioned conduit will terminate in the patient cabin behind the main action area control panel.

CONDUIT No 2: An empty one- and one-half inch diameter conduit expressly designed to add wires after vehicle delivery by the end user or his/her authorized agent will be supplied and installed. The conduit will have semi-rigid, non-conductive liner that is free of inside ridges that can bind on the wire harness being pulled through the conduit. The outer jacket will be a non-conductive, spiraled rigid coil designed to maintain the original shape of the liner, throughout the length of the conduit run. A pull wire will be installed into the conduit to aid the purchasing agency in future installation of equipment.

ORIGINATION POINT: The aforementioned conduit will originate inside the main electrical cabinet.

TERMINATION POINT: The aforementioned coaxial cable will terminate in the cab behind the driver's seat.

LEFT REAR COMPARTMENT (M-3): This compartment will be located in the left rear corner of the body. The minimum compartment dimensions will be 34.5" High x 35.6" Wide x 11.5" deep.

COMPARTMENT DOOR: A single, forward hinged, compartment door will be set for this compartment. The door will have a single handle and one rotary latch.

COMPARTMENT LIGHT: (1) One light will be mounted in the ceiling of the "M-3" compartment. The light will be surface mount and will be LED.

RIGHT REAR COMPARTMENT (M-5): This compartment will be located in the right rear corner of the body. The minimum compartment dimensions will be 82.8" High x 25" Wide x 21" Deep.

CEILING VENTILATION: Specified compartments will have a hat channel at the ceiling level. The hat channel will run to no closer than 1" from the compartment side walls to allow for air exchange. Hidden from view, will be two to three, (4") holes above the hat channel to exhaust the compartment air when the door is closed to allow it to close with minimal effort.

VENTILATION: There will be three sets of six louver punches on the outside and inside door panel to properly ventilate the electrical components located in the above-mentioned compartment.

RAIN DIVERTER: There will be installed an aluminum hat with open lower end inside of the compartment door, directly behind the exterior outer punched louvers.

COMPARTMENT DOOR: A single, forward hinged, compartment door will be set for this compartment. The door will have a single handle and two rotary latches.

ADJUSTABLE SHELF: A standard duty aluminum adjustable shelf will be provided. The shelf will be formed of .125 (1/8") thick aluminum, with 2 inch upward turned lips on all four sides. The shelf will be mounted on Unistrut infinitely adjustable, aluminum extruded heavy-duty shelf track. Incrementally adjustable, non-aluminum shelf track is not acceptable. The shelf will be located between the divider and the forward wall, approximately five (5) feet above the floor.

SHELF BRACKET: Each above exterior adjustable shelf will include four (4) self-gusseted .157" thick shelf brackets that will allow for easy adjustment up and down for each shelf. Each bracket will be secured to the shelf by carriage head bolts on the top of the shelf and hex head bolts to secure them to the shelf tracking material in the compartments. This will guard against shelf deformation in the compartments when the shelves are secured in place.

VERTICAL DIVIDER: Located in the "M-5" compartment will be semi-rigid fixed divider will be formed of 5052-H32 aluminum sheet. The divider will be full height of the compartment by fourteen inches (14") deep: measured from the back of the compartment. The exposed edge will be covered with automotive edge trim. The divider will be centered front to back in the compartment.

COMPARTMENT LIGHT: (1) One light will be mounted in the ceiling of the "M-5" compartment. The light will be surface mount and will be LED.

RIGHT FRONT COMPARTMENT (M-7): This compartment will be located in the right front corner of the module body. The minimum compartment dimensions will be 49" High by 25.25" Wide. The compartment door will provide direct outside access into the right front advanced life support equipment storage area.

COMPARTMENT DOOR: A single, forward hinged, compartment door will be set for this compartment. The door will have a single handle and one rotary latch.

REAR ACCESS DOORS: The rear of the module will be equipped with double, hinged patient compartment access doors. The doors will be centered on the body and align with the patient compartment aisle space. The doors will measure 48-3/4 inches wide by 60-5/8" high, jamb to jamb.

REAR ACCESS DOOR JAMB: At the rear access doors, a full width, formed, stainless steel jamb protection plate will be provided to prevent the cot frames from chipping the paint. The stainless-steel protection package will start from under the kick plate and follow the contour of the jamb extrusion, cover the end of the sub-floor, and cover the last four inches of the vinyl floor covering.

BODY PROTECTION AND BRIGHT WORK

INTERIOR WHEELWELL COVER: There will be a smooth aluminum cover secured to the interior wall cabinet and squad bench to cover the exposed wheel well area due to the wide aisle requirement. The aluminum will be clear coat finished for protection and to guard against oxidation. The fasteners will be minimized as much as possible to allow for a clean appearance.

DOOR JAMB SILL PROTECTION: On the compartments specified below, the paint on the bottom horizontal portion of the door jamb will be protected by a twenty (20) gauge minimum stainless-steel protection plate. This plate will originate at the toe of the door jamb lip (where it mates against the skin), then forms around the lower flat surface, then forms up across the gasket mating surface and finally forms across the inner jamb surface and terminates where the compartment meets the jamb. Left Front Compartment Bottom Door Jamb. Left Front Middle Compartment Bottom Door Jamb. Left Rear Compartment Bottom Door Jamb. Right Rear Compartment Bottom Door Jamb. Right Front "ALS" Compartment Bottom Door Jamb.

FUEL FILLER AND HOUSING: The filler neck supplied by the OEM will be used. The filler neck will be vented and be diameter indexed to accommodate a FUEL pump nozzle. The fuel filler neck will be bolted to a cast aluminum fill housing. The filler housing will be an open design with a bright polished mounting flange. The housing configuration and filler installation will comply with the OEM Body Builders Layout Book. The fuel filler neck will be grounded directly to the frame rail to prevent static electric charges from igniting the fuel vapors during refueling. The fuel filler cap will be supplied by the OEM. The cap will be attached to the filler housing with a lanyard. The filler cap will incorporate an over-tighten protection device that ratchets when the preset cap torque is reached.

UREA FILLER AND HOUSING: The filler neck will be a Cast Products Inc. model FG5301-1. The filler neck will be vented and be diameter indexed to accommodate the DEF nozzle. The fuel filler neck will be bolted to the cast aluminum fill housing. The housing bezel will be bright and polished. The housing configuration and filler installation will comply with the OEM's Body Builders Layout Book. The filler cap will be supplied by the OEM.

WIRE/HOSE COVER: The area between the back of the cab and the front of the module will have a .100 aluminum diamond plate cover, attached to the frame rails, to protect any hoses and/ or wires routed in that location. The cover will be mounted to close-off the area with a finished appearance.

WIND DEFELCTOR: A short aluminum diamond plate wind deflector will be installed directly above the pass thru cab connection. There will be a small up turned lip on the backside of the part to assist in re-routing water runoff. The part will have a gap between the outer edge and the module body.

FRAMING: The rear step bumper will exceed the current revision of KKK-A-1822. The bumper will be framed in with ¼ x 2 x 4 aluminum 6063-T6 rectangular tubing. The bumper will be bolted directly to the chassis frame. In addition, the top of the bumper will be mounted below the body skirt-line, so that minor collisions do not damage the body. The bumper will collapse under the body. For the stated reasons, there will be no exceptions to this feature.

OUTER PONTOONS: The outer bumper ends (pontoons) will be covered in .100 polished aluminum diamond plate. The outer corners will be angled 50 degrees. Each pontoon cover will be through bolted to the bumper frame with stainless steel, pan-head, Phillips head, ¼-20 bolts and Nylock nuts.

DEPTH OF BUMPER: The rear bumper will protrude from the rear surface of the module body to the rearward most metal surface by at least nine- and one-half inches (9-1/2") and not more than ten inches (10").

CENTER STEP: A flip up step will be provided to allow closer access to the patient cabin floor. The step will be as wide as the rear access door jamb. The step will have aggressive traction. The step will have a red/white reflexite reflective strip across the flip up step. A stainless-steel piano hinge will have a staked in, ¼" diameter pin, one-inch knuckles and one Type-F ¼" through bolt every four inches.

DOCKING BUMPERS: The rear bumper will be equipped with natural, black rubber dock bumpers. The bumpers will measure 2 ¼ inches high by 16 inches long by 2 inches thick. The bumpers will be through bolted to each pontoon with three (3) 3/8 diameter, grade 8 bolts. The bolts will be counter bored into each dock bumper. Each mounting hole will be reinforced with a counter bore diameter, thick flat washer. Each bolt will be threaded into a spiral lock flanged nut or approved equal.

FENDERS: The rear fender will be bright aluminum. The fender will be isolated and mounted to the wheel opening with thin membrane, double side tape. In addition to the tape, 100% nylon bolt and nuts will hold the fender to the body.

SKIRT RAILS: The entire skirt-line of the body, forward and aft on the rear wheels will have formed .188" diamond plate skirt rails to protect the body. Each skirt rail will meet current Federal Specification KKK-A-1822. Each rail will be chamfered 45 degrees at both ends. There will also be a series of twelve (12) rectangular holes, six (6) each side. Six (6) of the holes will face outward and six (6) will angle downward. The side facing will be for red/white warning lights and

the downward will be for white ground lighting. The rails will be fastened through the bottom of the rail into the bottom of the modular body. The rails will not cut into the paint. They will be mounted through nylon isolators in such a manner that they are spaced off the body.

LED GROUND SWITCHING: The above-mentioned LED Ground lights will be wired to activate by separate switch in cab console and with any entry or compartment door. The LED ground lights will activate when marker lights on and in the transmission is placed in park.

REAR KICK PLATE: The rear kick plate will be made of 0.100-inch-thick Polished aluminum diamond plate and run from corner post to corner post. The height will be from the skirt-line of the body to the bottom door jamb under the rear access doors.

RECESSED TAG AREA: The kick plate will feature a centered and illuminated recessed area to mount a standard U.S. six inch high by twelve-inch-wide license plate. The recessed area must be located as specified below and aesthetically TIG Welded around the perimeter of the opening. Threaded inserts and bolts to install the tag will be installed and provided.

RECESSED TAG AREA LOCATION: The tag area will be centered in the kick plate.

TAG LIGHT: The tag area will be LED illuminated with the park light circuit.

BODY CORNER POST PROTECTION: The lowest twenty-four inches (24") of the corner post extrusions will be protected against stones and road debris. The corner post guards will be formed of .080 thick polished aluminum diamond plate, contour fit to the corner post extrusions and riveted into place. A bead of silver colored, silicone sealant will be applied across the top edge of the guards. The bottom of edge of the guard will be left unsealed to promote moisture drainage.

FRONT OF BODY: The front of the body will have skirt-line protection plates made of .080 aluminum diamond plate. The corner posts will have form fit diamond plate protection height matched to the frontal plates. The height of the protection is twenty-four inches up from the body skirt line.

RUNNING BOARDS: Running boards (An auxiliary step) will be constructed of .100 diamond plate and be provided on each side of the cab. The running boards will not deflect when stepped on. Built in diamond plate mud flaps will keep front tire induced road grime off the step.

REAR MUD FLAPS: Mud flaps behind both sets of rear tires will be supplied and installed. The mud flaps will be 1/4" thick natural rubber material. Each mud flap will be sandwiched between the wheel well liner and a torque distribution plate. The torque distribution plate will be at least .100 thick aluminum plate. Each mud flap will be through bolted to the wheel well liner with at least three (3) one-quarter inch (1/4") diameter stainless steel bolt.

COURTESY STEP LIGHTS: There will be a pair of courtesy step lights consisting of a Whelen style TOCACCCR 2" light, mounted to the front of the modular body on the lower body diamond plate stone guards. The lights will be illuminated with the door ajar circuit for the cab doors.

REAR ACCESS DOOR CHECKS: Rear access doors will open at least 150 degrees. The door checks will be 2-piece, heavy duty, cast aluminum, grabber type with gaskets. The door will have a ½ round stock loop that plunges into a positive rubber/cast socket.

CORROSION: The anti-electrolysis procedure for any holes that are drilled for application of materials is to be as follows, After the hole is drilled, the opening(s) are to be treated with Tactile 517 prior to installation of any fasteners to guard against any future corrosion.

EXTERIOR FASTENERS: All screw sites require a replaceable nylon insert for the fastener to thread into to isolate the dissimilar metals. Each hole will be treated with an Electrolysis Corrosion Control compound (Tactile 517) prior to installation of the nylon inserts. All exterior screws will be stainless steel.

BODY CORNER CAPS: The front and rear upper body corners will include a cavity built into the aluminum body that will not sacrifice the body integrity.

FRONT CORNER ICC LIGHTS: The front body corner caps will include DOT approved compliant light fixtures with clear lenses. The lenses will house ICC fixtures that include amber LED's to be mounted to the front and front corners. There will also be additional LED lights that alternate red and clear within the light to act as additional warning lights.

FRONT ICC LIGHTS: Clearance lights will be provided per FMVSS 108. The lights will illuminate the height of the vehicle, define the vehicle center line. Three (amber) lights will be provided on the front of the module and be populated with at least two LED's.

REAR CORNER ICC LIGHTS: The rear body corner caps will include DOT approved compliant light fixtures with clear lenses. The lenses will house ICC fixtures that include red LED's to the rear and rear corners. There will also be additional LED lights that alternate red and amber within the light to act as additional warning lights.

REAR ICC LIGHTS: Clearance lights will be provided per FMVSS 108. The lights will illuminate the height of the vehicle and define the vehicle centerline. Three red lights will be provided on the rear of the module and be populated with at least two LED's.

CORNER CAP WARNING LIGHT SWITCHING: The above-mentioned corner cap LED lights will be wired to activate in Primary Only.

SIDE MARKER LIGHTS: Side marker lights will be Kinequip Model 112401RD (Red) and will flash alternately with the rear turn lights. All lights will be LED. Whelen 600 Series, Taillights

BRIGHT CHROME-LIKE FLANGES: The 600 series tail light group will be embellished by bright trim flanges.

STOP/TAILLIGHT: The stop/tail light fixtures on the rear of the body will be Whelen Brand series 600 Fully Populated Light Emitting Diode. The lights will operate as both tail and stop modes and will be red when illuminated.

TURN SIGNAL LIGHT: The turn signal light fixtures on the rear of the body will be Whelen Brand series 600, Light Emitting Diode. The lights will operate as left and right turn signal lights and will be amber arrow when illuminated.

BACK UP SIGNAL LIGHT: The back up signal light fixtures on the rear of the body will be Whelen Brand series 600, partially populated Light Emitting Diode to operate as left and right back up signal lights and will be clear when illuminated.

DOOR OPEN WARNING LED LIGHTS: There will be a Kinequip LED (light emitting diodes) light installed on each entry door interior panel, in the lower outer corner. The fixture will measure 1" tall x 1.75" wide and will be installed to the ambulance with nylon isolators to separate the stainless fasteners from the surface to eliminate electrolysis. The light will be a combination of red and white with four individual LED's. There will be two red and two white diodes which will alternate flash red and white with an internal flasher within the light. The flange of the light will be chrome in color. The lights will activate when the respective entry door is opened to flash rearward to warn approaching traffic that the entry door is open.

THIRD BRAKE LIGHT: A third brake light will be located centered above the rear access doors. The light/lens will measure at least 15 square inches. The light is to be a Kinequip, model KFL-3BLO1 fixture.

THIRD BRAKE LIGHT: When the brake is applied the light will steady burn.

EXTERIOR FLOOD and LOAD LIGHTING:

LEFT SCENE LIGHTS: Two scene lights will be provided on the left side of the module. The lights will be Whelen LED-24, 900 series. The scene light group will meet or exceed the present revision of the Federal specification KKK-A-1822.

SCENE LIGHT SWITCHING: The scene lights will come on with two separate rocker switches labeled Right Flood and Left Flood, located in the center cab console controlled by the master switch. The right (curb side) scene lights will also come on when the side entry door is opened.

RIGHT SCENE LIGHTS: Two scene lights will be provided on the right side of the module. The lights will be Whelen LED-24, 900 series. The scene light group will meet or exceed current revision of the Federal specification KKK-A-1822.

REAR LOAD LIGHTS: Two rear load lights will be provided on the rear of the module, above the rear access doors. The lights will be Whelen LED-24, 900 series. The scene light group will meet or exceed current Federal specification KKK-A-1822.

REAR LOAD LIGHT SWITCHING: The rear load lights will come on with a separate rocker switch located in the cab console controlled by a master switch. The switch will be labeled "Rear Flood" and will control both rear load lights on the rear of the body and above the rear access doors. The rear load lights will come on when rear doors are opened.

ADDITIONAL FLOOD LIGHT ACTIVATION: The rearward scene lights will come on with when the vehicle is placed in reverse in addition to the rear flood/load lights.

A/C UNIT LOCATION: On the floor behind the attendant seat. A/C Unit will have a ducted delivery system in the ceiling with eight (8) adjustable vents and Two additional adjustable vents above and behind the attendant seat

WATER PUMP: There will be an inline water pump to assist the water from the OEM chassis to the patient area heating system. This pump is to allow the vehicle to meet the KKK requirements for heating from a Cold Soak situation.

COMPRESSOR CONTROL MODULE: There will be an engine driven AC compressor clutch control module installed and linked to the needs of the patient compartment climate system.

REAR AIR CONDITIONING EVAPORATOR: The module will have an additional, self-contained A/C unit complete with an evaporator coil, heater core and a 12-volt blower. The blower will consist of two concentrically located cylinder fans mounted on one common 12-volt motor. The fan will be three speed and will deliver 580 cubic feet of air per minute on high.

The unit will be rated at least 32,000 British Thermal Units (BTU) in A/C Mode and 43,300 BTU in Heater Mode. The Vehicle A/C and Heat system must meet or exceed current Federal specification KKK-A-1822.

CONDENSATION DRAIN PAN: A condensation pan will be provided to collect water condensation from the evaporator coil. The drain pan will be formed from 1/8 ABS plastic sheet and will be listed (tilted) toward the drain fitting. The Evaporator unit will be mounted so that the weight of the coil, case and blower assembly does not rest on the pan. Additionally, the entire evaporator will list toward the condensation drain fitting to enhance water flow to the drain hose. The drain hose will be ½ I. D., collapse resistant and fiber reinforced poly-tubing. The hose will be routed from the condensation pan to the street.

HEATER HOSES: Heater hoses for the cab will remain OEM. 5/8 inside diameter, EPDM Nomex rubber hoses will route from the OEM tie in point to the rear heater core.

AIR CONDITIONING HOSES: All A/C Hoses will meet Society of Automotive Engineers (SAE) J-2064. The discharge (High side) hoses will not be less than 5/16 inside diameter (Size 6). The suction (Low side) hoses will not be less than ½ inside diameter (Size 10). All hoses will be A.S.T.M. Type D, with a thermoplastic inner liner (Nylon) that is protected by two textile reinforced braided electrometric outer jacket. The hose will be qualified for use with R-134A, R-404 and R-407. The hose specified herein will be subjected to a battery of tests per A.S.T.M. D-380. The results will be supplied by the hose manufacturer.

RETURN AIR GRILLE: Installed around the Heat/AC unit will be a perforated 13-gauge steel grille. The grille will allow 156 inches of return air flow to the Heat/AC unit. The grille will provide complete access to the Heat/AC unit. The grille to have a black powder coat finish. There will be two quarter turn locks supplied and installed on the grille. The locks will have a black powder coated finish. Lock pawl activation will be enabled with a round bitted key.

CARBON FILTER: The return air grille will be supplied with a pre carbon filter that is designed to fit the slot within the grille. It will be installed and will not rattle. The filter will be replaceable and/or cleanable by this department's fleet maintenance in the field.

CEILING DUCTED INSULATED AIR CONDITIONING DELIVERY: One duct will route over the primary patient and attendant, and one will run over the lap area of squad bench. Each duct will contain four spherically adjustable registers, evenly spaced, total of 8. There will also be two registers located directly behind the attendant's seat.

DUAL AC CONTROL / THERMOSTAT: The air conditioning and heat for the patient cabin will be controlled by a set of controls in the action area with a multiplexed temperature probe for the patient area. Controls in the front chassis cab through the multiplexed system will also be installed. A digital display will indicate the patient cabin temperature on both displays.

UV-C AIR & SURFACE DISINFECTION ADU-136: An advanced high level disinfection lamp will be provided and installed in the ceiling panel of the patient compartment. This UV-C lamp is designed for use in unoccupied spaces and requires door interlocks and deep window tinting in order to prevent injury to EMT personnel upon approaching and entering the vehicle while the lamp is in use. All necessary parts and equipment will be provided and installed by the ambulance manufacturer.

LINER PANELS: The patient cabin head liner substrate material will be one quarter inch thick, composite metal with powder coated finish laminated to center plastic material. An upholstered center panels will provide access to ceiling wiring and be covered in the same upholstery type as the seat and back rest pads found on the squad bench and/or CPR seat.

PATIENT CABIN DOME LIGHTS: The patient cabin will have nine dual intensity, Edge series LED dome lights in the ceiling. The dome lights feature new inner-edge LED placement to provide for full illumination with no hotspots while providing industry leading low-profile three-quarter inch recessed mounting depth. The lights are compatible with all previous industry eight inch in diameter lights with four mounting points. The lights centers will be aligned along two, light banks. The left bank will provide light directly over the patient: the right bank will provide light directly over the aisle/squad bench. The lights will feature an automatic function through the electrical system to automatically illuminate to a specified setting with the trailing rear or side entry door is opened and the conversion power is active. The dome lights and configuration will meet current Federal Specifications KKK-A-1822.

TIMER CIRCUIT: There will be a solid-state timer circuit activated by a momentary switch by the curbside door over the area of the squad bench cushion. The switch will activate the solid-state device located on, or near the circuit board.

LIGHTS POWERED BY TIMER: The timer will power the street side (Left side) bank of dome lights on the high intensity setting. The duration of the light will vary with the setting of the timer.

AUXILIARY STEREO SPEAKERS: Two 5-inch diameter stereo speakers will be wired to the OEM Dash mounted radio. The speakers will be rated at least 30 watts, 16W RMS with 4 ohms of impedance. The magnet will be at least 6 ounces. One speaker will be located in the center pad toward the front of the patient cabin and one toward the rear.

VOLUME CONTROL: A variable volume control for the patient compartment stereo speakers will be provided in the action area panel, adjacent to the switch panel.

I. V. BAG HANGING HARDWARE, No 1: One self-contained recessed I. V. Hook assembly will be installed in the ceiling. The I. V. Hook assembly will fold and stow recessed in a cast aluminum housing. The hooks are to be spiral shaped to preclude I. V. Bag from falling off with push button release for each fluid bag. The I. V. Hook assembly will hold (2) two bags of fluid. A rubber with Velcro anti-sway device will be included for IV retention, without depending on adjacent cabinetry.

LOCATION: Located of the Primary patient, in close proximity to the Head/Chest area of the patient.

I. V. BAG HANGING HARDWARE, No 2: One self-contained recessed I. V. Hook assembly will be installed in the ceiling. The I. V. Hook assembly will fold and stow recessed in a cast aluminum housing. The hooks are to be spiral shaped to preclude I. V. Bag from falling off with push button release for each fluid bag. The I. V. Hook assembly will hold (2) two bags of fluid. A rubber with Velcro anti-sway device will be included for I. V. retention, without depending on adjacent cabinetry.

LOCATION: Located of the Secondary patient, in close proximity to the Head/Chest area of the patient.

CURB SIDE OVER HEAD ASSIST RAIL: This rail will be naturally accessible to assist working attendants in maintaining their balance. The rail will exceed federal specification KKK-A-1822 3.15.2C. The rail will be 1 ¼ diameter, 100% stainless steel and 72 inches long. All rail fittings will be TIG welded to the main rail. The rail will be located over the squad bench. Grab rails that utilize separate, setscrew rail fittings are not reliable and will not be used.

STREET SIDE OVER HEAD ASSIST RAIL: This rail will be naturally accessible to assist working attendants in maintaining their balance. The rail will exceed federal specification KKK-A-1822 3.15.2C. The rail will be 1 ¼ diameter, 100% stainless steel and 72 inches long. All rail fittings will be TIG welded to the main rail. The rail will be located over the primary patient. Grab rails that utilize separate, set screw rail fittings are not reliable and will not be used.

INSULATION

MODULE INSULATION: The module insulation, except the under the floor will consist of material having the following characteristics, 8mm thick nonabsorbent, reflective and will have an air cell core. The air cell core will consist of one layer of polyethylene bubble film that is sandwiched between one (1) layer of 99 percent pure aluminum foil and white colored polyethylene film. The insulation will be installed with at least ½ air space from exterior skins, exposed to direct sun light. The insulation thermal rate testing will be conducted in accordance with A.S.T.M. E84-89A, ANSI 2.5, NFPA 255, UBC 42-1, and U. L. 723. The insulation will have a NFPA Class A and a UBC Class 1 fire rating with a flame spread index of 20 and a smoke developed index of 30. The application will include a single layer of the insulation on all four walls, doors, compartments, and ceiling.

MODULE ENTRY DOOR INSULATION: In addition to the aforementioned foil-air cell - foil insulation, all areas within the lower door half structure grid in the doors and floor will be insulated with two inch (2") block polystyrene foam. The insulation will be fit together tightly against the structural members to maximize R-value effectively. Gap spacing round each cell within the structure grid and the block foam will not exceed one half inch plus or minus one quarter inch

tolerance. Door insulation will fit tightly to the door frame. Insulation allowance for actuation rods and hardware will be minimal, hence the insulation will approach the door hardware within one inch (1"). Insulation will not interfere with door latch hardware.

The ceiling will be insulated in 1 1/4" Thick polystyrene block foam polystyrene foam. The insulation will be fitted tightly against the structural members to maximize R-value effectively. The block foam will have a minimum R-value of 8.0. The foam will be installed prior to the foil - air cell - foil insulation.

SOUND BLOCK: There is to be Sound Block, sound deadening installed prior to the 1/2" subfloor. It will be adhered directly to the vapor barrier and will also include the interior of the body over the wheel well housings for a complete floor sound block. The material will be less than 1/4" thick so as not to impede on the interior headroom. This sound deadening material has an additional insulation value of R-3 measured vertically. This DBMAX material in combination with other mounted substrates can produce a decibel reduction on average of 47 decibels for frequencies 250 - 5000 HZ.

MODULE INSULATION: The ceiling and walls will be insulated in 1" Thick polystyrene block foam polystyrene foam. The insulation will be fitted tightly against the structural members to maximize R-value effectively. Gap spacing round each cell within the structure grid and the block foam will not exceed 1/16". The block foam will have a minimum R-value of 8.0. The foam will be installed prior to the foil - air cell - foil insulation.

STEPWELL INSULATION PACKAGE: The underside of the curbside step well will be insulated between the structure with urethane froth insulation and then the underside will be undercoated to protect the insulation from weather elements.

PUBLIC ADDRESS (Visual) WARNING LIGHTS

WARNING LIGHTS: The primary warning lights will be Whelen Super LED Series with chrome flange. All warning lights will have clear lens. The warning lights that are mounted to the modular body will be connected to the ambulance via Wago Cage Clamps. The warning light that are located on the cab will be connected with Deutsch weatherproof 3-pin connector kits. The warning lights that are mounted on the doors will have a male and female spade connector. The use of butt connectors or any other type will not be acceptable. The exact location, color, and flash pattern will be determined at the pre-construction conference.

WARNING LIGHT SIZE AND LOCATION: The size and location of the warning lights will be as follows:

4-TIRLIN3 Red Grille Lights
2-5TIR6 Red Front Intersection Lights
1-900 White (Clear) Center Front Conversion Light
6-900 Red/Blue Split Front of the Conversion Lights
2-900 Red/Blue Split Upper Outer Light on Each Side
2-900 Red/Blue Split Upper Outer Light on the rear of the body
2-900 Red/Blue Split Mid-Height Lights on the rear of the body

The Red portion of these lights will operate with the brake lights in addition to warning lights.

1-900 Amber Rear Upper Center Light

All Warning Lights will have Clear Lenses.

WARNING LIGHT ACTIVATION: The warning light system will have a sequencer with load manager built into the multiplex electrical system. The warning light system will be controlled with a Primary and Secondary switch as described by Federal Specifications KKK-A-1822F. In addition, there will be separate switching for the skirtrail and door open warning lights. Primary will flash all lights, Secondary will flash Red and Amber lights only.

SPOTLIGHT: A handheld 140,000 candle power, 100 watt halogen spotlight will be provided in the cab. The housing will be an impact resistant, one-piece Unibody UV treated black colored neoprene. The light will feature a momentary

rocker switch to prevent the light from burning while not in the user's hand. This light will feature a coil type cord that is at least three feet long retracted and fifteen feet extended. The weight of this light will not exceed three pounds.

HANDHELD SPOTLIGHT LOCATION: The aforementioned spotlight will be hard wired to the center console. The light will be enabled through the battery switch.

TWO BATTERY SYSTEM: The ambulance conversion and chassis will run with two maintenance free twelve-volt batteries as specified below.

BATTERY LOCATION: Both batteries will be located under the OEM hood in the engine compartment.

BATTERY BRAND: Both batteries will be the OEM brand, same model and type. Each battery will be rated at a minimum OEM rating. The batteries will be warranted by the OEM manufacturer for at least three years (thirty six months) from the date of delivery to the agency.

BATTERY SWITCH: A conversion disconnect switch will be supplied to remove positive polarity from the ambulance conversion circuits. Constant battery power will be supplied for device memories. None of the chassis functions will be affected by this switch per Fords Qualified Vehicle Modifiers program, bulletin No 63. The switch will be a Cole Hersee Model M2484-16 with a legend bezel that defines the ON and OFF position. An indicator light will illuminate on the cab console panel.

BATTERY WIRING: The above mentioned battery layout will be wired so that the total number of batteries will be wired in parallel to increase the total amperage output of the total number of batteries.

"DAY BRIGHT" LIGHTING: The interior of the cabinets with clear doors will be illuminated with LED lighting and will be recessed into the backside of the cabinet perimeter aluminum tracking. The lights must be in the front of the cabinet shining towards the backside of the cabinet in order to see what is in the cabinet without the light being blocked by the components stored in the cabinet. The idea is to illuminate the interior of the cabinet and not to shine outward toward the personnel looking inside the cabinet. There will be a switch in each patient compartment switch panel to turn the light(s) on and off as desired by the crew. The interior cabinet lights will also activate with the check out timer switch. The cabinet lights in the right front ALS compartment will additionally act as the right front compartment lights and will activate with the right front compartment door switch.

INTERIOR CABINET LIGHT SWITCHING: The cabinet interior light will be activated via a robust rocker switch with LED lighted legend located in each patient area switch console. The switch will be rated IP68 for water and dust intrusion.

"DAY BRIGHT" LIGHTING TRACK: Track for Day Bright LED rope lighting and will be recessed into the backside of the cabinet or compartment perimeter.

POWER MODULE DOOR LOCKS: Each compartment and/or entry door will Lock or Unlock with a single depression of a momentary switch. Each door will be fitted with a bidirectional, momentary electric solenoid designed to operate a mechanical rod in a linear fashion. The rod will mechanically interface with the door lock mechanism inside the door. All rod connections will be designed for high cycle operation without mechanical disconnection.

DOOR LOCK SWITCH: The door lock(s), will be wired to activate with the OEM cab door locks and their switches in the cab.

OEM KEY FOB OPTION: The door lock(s), will be wired to activate with the OEM cab door locks and their switches in the cab as well as the OEM remote key fob activator.

DOOR LOCK SWITCHES: The module entry doors will have internal integrated electric door lock activation switches. All entry doors and compartment doors will have power door locks.

HIDDEN DOOR LOCK SWITCH: A weatherproof momentary switch will be installed, concealed from view. Installation of Remote Door Lock Switch feature may increase likelihood of unauthorized entry into vehicle. By checking this option, purchaser further agrees to hold AEV or chassis manufacturer harmless for any loss of vehicle or contents caused by unlawful access.

LOCATION: The switch will be located in the OEM grille area.

BACK UP CAMERA: Ford OEM backup Camera will be installed, all necessary cables will be installed. OEM back up camera will display into OEM Radio.

PATIENT COMPARTMENT CAMERA #1: There will be a camera mounted on the module interior to allow the driver to monitor the condition of the activity in the module. The camera will be mounted towards the rear of the patient area to show the forward section of the patient area. The system will include all the necessary cables and adapters to connect the system together with power as needed. This camera will display through the LX-1 switch panel screens.

MAIN ELECTRICAL DISTRIBUTION:

Electrical System:

The electrical system will be a custom made LX1 system utilizing Class 1 Inc. ES-Key™ technology and UltraView™ displays. The minimum system components include an UltraView™ 700 display, an UltraView 450 display, a Super node II™ with integrated climate control capability, and other ES-Key™ components as necessary.

UltraView™ 700 display:

The UltraView™ 700 display (UV700) is a custom programmed, 7 inch, full color LCD ES-Key display. It is a 14 button, touch screen capable display. The LCD is bonded for direct sunlight view ability. The UV700 is sealed to IP67 and allows for flexible mounting options (flush, pedestal or rear). The UV700 has 3 J1939 CAN Bus connections and 3 NTSC/PAL Video inputs.

The UV700 is switches are configured to allow for the control of emergency master and non-emergency master functions and are completely configurable VIA the ES-Key™ Professional software. Switches may be set to act as momentary, maintained or 3 way switches without any physical hardware change. All switches and or indicators may be configured as touch screen inputs into the ES-Key™ system. The 14 buttons are LED backlit.

The UV700 display contains ES-Key™ diagnostics, allows viewing of vehicle voltage, current draw, oxygen remaining, date and time, climate control status, temperature and control, elapsed time counter, and warning messages.

UltraView™ 450:

The UltraView™ 450 display (UV450) is a custom programmed, 4.3 inch, full color LCD ES-Key display. It is a 8 button, touch screen capable display. The LCD is bonded for direct sunlight view ability. The UV450 is sealed to IP67 and allows for flexible mounting options (flush, pedestal or rear). The UV450 has 2 J1939 CAN Bus connections and 2 NTSC/PAL Video inputs.

The UV450 switches are configured to allow for the control of emergency master and non-emergency master functions and are completely configurable VIA the ES-Key™ Professional software. Switches may be set to act as momentary,

maintained or 3 way switches without any physical hardware change. All switches and or indicators may be configured as touch screen inputs into the ES-Key™ system. The 8 buttons are LED backlit.

The UV450 display contains ES-Key™ diagnostics, allows viewing of vehicle voltage, current draw, oxygen remaining, date and time, climate control status, temperature and control, elapsed time counter, and warning messages.

Super node II™:

The Super node II™ is a high density input output node that is part of the Class 1 Inc. ES-Key™ system. The Super node II™ has 24 inputs (8 positive/8 negative), 24 outputs, a Universal System Manager, a Data logger, programmable special utilities, and select J1939 engine and drive train message reception with ES-Key™ I/O association.

There are 18 positive and 6 negative outputs in the Super node™. Each positive output is capable of 13 amps continuous duty. The negative outputs are capable of 2 amps continuous duty. There is an LED associated with each input and output to indicate the inputs and outputs are physically on. Super node II™ outputs contain features such as digital circuit breaker, flash capability, PWM capability and open load detection.

Each positive output has a digital circuit breaker feature. The "digital circuit breaker" feature will automatically turn OFF an output within 0.5 seconds when the source current exceeds 14 Amps. The Super node II™ will attempt to reconnect the output to the load twice more at 5 second intervals, if the output is still overloaded the Super Node will maintain the output OFF. Outputs 0 7 have a "digital circuit breaker - slow blow" which dynamically adjusts the time frame the output stays active when the load exceeds 13 Amps. This feature synthesizes the opening of a standard fuse when reacting to overload conditions. A load of 13.5 Amps will automatically turn off after approximately 12 seconds, and a load of 26 Amps will automatically turn off after approximately 3 seconds. The "digital circuit breaker" feature can be reset (or reinitialized) by de-activating the output through the ES-Key TM network. When the output is turned back ON, the over current tests will be initiated. When an output switch is in an over current situation, a fault is logged to the USM and data logger functions of the Super Node.

Outputs 0 through 17 are flash capable at 2 different rates and pulses (allowing for alternating synchronized flash patterns). Additionally any output in the ES-Key™ network may be flashed at intervals of .25 seconds utilizing Super node™ special utility functions.

Outputs 10 through 17 may be pulse width modulated (PWM) to control loads at a reduced power. PWM may be used as a light dimming feature. An output set to its PWM state will drive its load at 60% duty cycle at 400HZ.

Outputs 0 through 9 have open load detection circuitry. When an open load is detected a network message is generated. This message may be utilized as a diagnostic feature or to display a message in the information center in the front switch panel.

The Super node II™ special utility functions that include timers (delay on/off and one shot), counters, bi-stable switches, and select J1939 broadcast messages.

The Super node II™ has an integrated USB port. The USB port allows for direct connection to the ES-Key system without additional interface devices.

The Super node II™ has an integrated Load Manager: An integrated sequential switching of lamp loads is extremely important on this vehicle. An "Emergency Master" switch that simultaneously energizes a large number of lights can momentarily reduce the vehicle's voltage. Similarly the simultaneous removal of these loads can cause high alternator output voltage transients which may damage sensitive electronic equipment. The LOAD MANAGER sequencer assures that loads are applied and removed gradually, thus eliminating the possibility of inducing failures in the vehicle's equipment.

The load manager will be a precision, solid state controller which sequentially switches "ON" multiple circuits at 1/2 second intervals. Individual switches will enable the user (Driver) to select output "ON or "OFF" status, at any time. The sequencer will be initiated by the "Emergency Master" switch. The sequencer priority will be set at the pre-build conference.

The aforementioned LOAD MANAGER will monitor the vehicles battery voltage. When the electrical loads have exceeded the charging system output, the voltage falls. When the voltage falls to 11.5 volts, the LOAD MANAGER will begin to shed up to five loads. The load shed priority will be set by the circuit significance, followed closely by circuit draw. The LOAD MANAGER will shed loads until the voltage level begins to rise. CAB CONSOLE: A ergonomically designed console with a A-A plywood substrate will be contour matched to the cab floor. The console will be a parallel wall design with a twelve and one half inch over all width. End panels and center console bulkhead panels will add rigidity and square to the console. The substrate will be laminated per the following finish specification.

The Super node II™ has an integrated Climate Control Module that controls the vehicles air conditioning clutch, heating valve, and fan motor speed with high current digital outputs based upon received J1939 CAN commands from the UV700 or UV450 displays. The Climate Control Module has two modes of operation: automatic and manual.

VOLTAGE MONITOR: A voltage monitor will be built into the LX1 electrical system. It will activate a warning light in the cab console, UV700 or UV450 display when the alternator output voltage falls below 11.5 volts. The warning light will be a red back lighted, engraved legend stating Low Voltage.

FIELD EFFECT TRANSISTORS: All conversion related circuits will be protected with field effect transistors. The value of the threshold for each circuit will not exceed 75% of the rated capacity of the weakest component in the circuit. The system will try to reset three times before shutting down until the system is reset.

FRONT LX1 CONTROL PANEL: The manufacturer will install the forward control panel for the multiplex key1 LX1 electrical system in the chassis cab. The control panel will be connected to the main electrical system. The control panel will feature touch screen controls along with tactile buttons on the perimeter. The front control panel will be located in the chassis cab console.

PATIENT AREA CONTROL PANEL LOCATION: Streetside Action Area panel.

SWITCH PANEL MOUNTING: The Patient area monitor will be mounted flat to the action wall.

ADDITIONAL PATIENT AREA SWITCH PANEL: There will be a second patient area switch panel to mimic the action area switch panel located on the curbside of the patient area at the squad bench area as required. Exact layout will be determined at final confirmation process with the successful bidder.

SWITCH PANEL LOCATION: The second patient area switch panel will be located on the Curbside wall, at the head of the squad bench.

SWITCH PANEL MOUNTING: The second patient area monitor will be mounted on an angled cabinet.

LOAD MANAGER: An integrated sequential switching of lamp loads is extremely important on this vehicle. An "Emergency Master" switch that simultaneously energizes a large number of lights can momentarily reduce the vehicle's voltage. Similarly the simultaneous removal of these loads can cause high alternator output voltage transients which may damage sensitive electronic equipment. The LOAD MANAGER sequencer assures that loads are applied and removed gradually, thus eliminating the possibility of inducing failures in the vehicle's equipment.

The load manager will be a precision, solid state controller which sequentially switches "ON" multiple circuits at 1/2 second intervals. Individual switches will enable the user (Driver) to select output "ON or "OFF" status, at any time.

The sequencer will be initiated by the "Emergency Master" switch. The sequencer priority will be set at the pre-build conference.

The aforementioned LOAD MANAGER will monitor the vehicles battery voltage. When the electrical loads have exceeded the charging system output, the voltage falls. When the voltage falls to 11.5 volts, the LOAD MANAGER will begin to shed up to five loads. The load shed priority will be set by the circuit significance, followed closely by circuit draw. The LOAD MANAGER will shed loads until the voltage level begins to rise.

CAB CONSOLE: An ergonomically designed console with a A-A plywood substrate will be contour matched to the cab floor. The console will be a parallel wall design with a twelve and one half inch over all width. End panels and center console bulkhead panels will add rigidity and square to the console. The substrate will be laminated per the following finish specification.

CAB CONSOLE FINISH: The console body will be finished with a 20 mil Easy Grip film. The Easy Grip will be a self-adhesive as well as bonded to the substrate with high bond contact adhesive. All joints will be inconspicuous and bonded along the edges.

AUXILIARY CAB CONSOLE: A ergonomically designed extension console will be contour matched to the Main ambulance conversion console. The console will be a tapered design with a fourteen and one half inch width at the front of the console and a twelve-inch width at the rear of the console. The height will not exceed the height of the engine cover console measured at the rear. The length of the console, measured at the center, will be at least twenty-one inches.

DRINK HOLDERS: The extension console will feature two drink holders, large enough to accommodate 44-ounce paper cups. The drink holders will be recessed into the console with one-piece, self-rimming trim rings. The console finish and the drink holder recessed areas will be waterproof, due to cup condensation. The drink holders will be located towards the front of the extension console.

NOTE BOOK SLOT: The extension console will feature an eight inch by full width slot specifically designed to hold note books and/or clipboards. The inside finish of the slot will be of the same material as the outside laminate. The slot will be located in the rearward most end of the extension console.

The aforementioned "note book slot" will feature two removable dividers that are evenly spaced in the slot. Extruded C-channels fastened to the sides will be employed to secure the dividers into place.

CUSTOMER RADIO: Space will be left in the extension console for future installation of radio heads.

GLOVE STORAGE: There will be glove storage at the rear of the extension console. It will be designed to hold (4) four boxes of gloves standing on end for easy access.

CAB CONSOLE FINISH: The console body will be finished with a 20 mil Easy Grip film. The Easy Grip will be a self-adhesive as well as bonded to the substrate with high bond contact adhesive. All joints will be inconspicuous and bonded along the edges.

BACK UP ALARM: The apparatus will include a 97 to 107 decibel back up alarm, activated by shifting into reverse. There will be a manual momentary cancel switch/Icon in the main electrical system for the temporary cancelation by the driver of this alarm.

CUT-OFF SWITCH, BACK UP ALARM: The back up alarm will include a momentary type cut off switch to silence the alarm. The alarm enable circuit will automatically reset when the transmission is shifted out of REVERSE, hence the back up alarm will sound when the vehicle is placed in REVERSE again.

GROUND STRAPS: Four (4) 7/8" wide by 1/8" thick, fine strand, woven straps will provide a ground path from the module body to the chassis frame. Woven straps filter out RFI noise originating from alternators, strobe power supplies and other devices, that may find their way into intercom, stereo and two-way communication radios. Each end of the ground straps will be through bolted with 3/8" diameter, grade 5 or 8, hex head bolts and lock nuts. Each connection site will be cleaned to the bare metal prior to fastening the strap. The connections will have a di-electric anti corrosion spray applied.

12 VOLT POWER INVERTER: A highly reliable Vanner LIFESINE 1100 electronic power conversion unit that utilizes advanced technology will be supplied, installed, and wired to the outlets specified herein. A built in automatic transfer switch will transfer all loads from the inverter to the shore line, when the shore line cord is plugged into 125 vac shoreline power. The device will convert 12 volt DC battery power into 1100 watts of precisely regulated pure sine wave 120 volt AC power. The device will hold output power between 115 volts and 125 volts while also providing a 3-stage up to 55 amp DC battery charger capacity. The battery charger is compatible with sealed AGM, flooded lead-acid and deep -cycle gel-cell batteries. Portable charging equipment power is available through a direct supplied 20-amp DC maximum source port. The 55 amp total charging capacity is then reduced by the demand through the direct power sourcing port.

The device will not consume more than 57 amperes at 12 volts direct current (DC). The device IS certified by Underwriters Laboratories to the present revision of the Federal Specification KKK-A-1822. This LIFESINE 1100-LSC12-1100 unit is designed with safety first by Vanner to exceed GSA, NFPA, AMD and CAAS GVS specifications and testing requirements. The power inverter will reside in the left front middle (M-2) compartment.

POWER SOURCE FOR PORTABLE EQUIPMENT No 1: Power sources are located and included with a purchased inverter.

LOCATIONS: The power sources will be located with one in the chassis cab console and one behind the patient action area panel.

POWER SOURCE: The aforementioned power provision will be fed off of the output of the ignition switch or when the battery charger/conditioner is connected to the shoreline.

BATTERY CHARGER/CONDITIONER: When the system is connected to shore/utility power, the battery charger (built into the inverter) will automatically charge the batteries, then keep them fully charged. The system's microprocessor controls the charging sequence, starting with the high charger (55 Amp) mode. When the batteries are fully charged, it switches to the ready/maintenance mode to keep the battery "topped up". The battery charger will be designed to charge either lead acid flooded (wet) or gel type batteries.

BUILT-IN BATTERY CHARGER: The built in battery charger will be wired to the vehicle batteries to allow charging/conditioning when the shoreline is energized.

COVER: There will be a Lexan Cover over the inverter for protection.

LOW VOLTAGE INDICATOR: There will be an amber indicator light located in the cab console to illuminate if the vehicle voltage drops below 11.8 volts DC. If the voltage remains under 11.8 volts DC in excess of 120 seconds, there will be a warning buzzer in addition to the light.

COMMUNICATIONS RADIO(S) RELATED:

RADIO POWER

POWER SOURCE FOR COMMUNICATION RADIO(S) No 1: Positive and Negative polarity ten gauge wires will be supplied and installed for subsequent installation of communications radio(s). The wires will be barreled off and protected by a thirty (30) ampere automatic reset circuit breaker.

POWER SOURCE: The power provision will be fed off of the output of the conversion main power (Battery) switch. The power source will be located in the center console, in the cab.

POWER SOURCE FOR COMMUNICATION RADIO(S) No 2: Positive and Negative polarity ten gauge wires will be supplied and installed for subsequent installation of communications radio(s). The wires will be barreled off and protected by a thirty (30) ampere automatic reset circuit breaker.

POWER SOURCE: The power provision will be fed off of the output of the conversion main power (Battery) switch. The power source will be located in the center console, in the cab.

POWER SOURCE FOR COMMUNICATION RADIO(S) No 3: Positive and Negative polarity ten gauge wires will be supplied and installed for subsequent installation of communications radio(s). The wires will be barreled off and protected by a thirty (30) ampere automatic reset circuit breaker.

POWER SOURCE: The power provision will be fed off of the output of the conversion main power (Battery) switch. The power source will be located in the center console, in the cab.

ANTENNA LEADS

ANTENNA BASES: Each antenna base will be a series KE-794 with an integrated coaxial cable.

ANTENNA BASE No 1: The antenna base will be located on the module roof, lined up with the edge of the curbside entry door, centered side to side as near as possible. The coaxial cable will terminate inside the cab center console.

ANTENNA BASE No 2: The antenna base will be located on the module roof, approximately 24 inches rearward of Antenna Base No 1. The coaxial cable will terminate inside the cab center console.

ANTENNA BASE No 3: The antenna base will be located on the module roof, approximately 24 inches rearward of Antenna Base No 2. The coaxial cable will terminate inside the cab center console.

125V SHORE LINE AND OUTLETS

PRIMARY SHORE LINE INLET: A 125 volt, twenty amp (20A) Straight blade (NEMA 5-20R), shore line inlet will be provided. This inlet will supply power to all 125 volt outlets. The inlet will be grounded to keep continuity with the buildings GFI Breaker. The inlet will have a spring loaded, weather proof cover over the inlet. The inlet must be male. An engraved placard or permanent vinyl label, stating voltage and amperage will be located over the inlet.

SHORE LINE INLET LOCATION: The aforementioned shoreline inlet will be located at the front of the module box near the driver's door. There will be an additional modular box set at an angle from the front of the modular body to cause the shoreline to protrude away from the chassis cab. This box will have a front access plate for mounting the shorelines. This box assembly will be welded to the body skin of the front of the modular body.

SHORELINE INDICATOR LIGHT: There will be a green indicator light to power to the shoreline system within the ambulance body. The light will be an LED 130v light fixture that is shock and vibration proof. The light fixture will have a 100,000 hour life for long lasting service in the field. Being LED technology, the fixture will have a very low heat generation. The LED indicator light fixture will be located above the shoreline inlet.

SHORE LINE COVER: The shoreline inlet will be protected with a Yellow weatherproof cover.

125 VAC OUTLETS

125 VAC OUTLETS: The following outlets will be UL listed, 125 Volt, Hospital grade, T-blade NEMA 5-20R outlets. Each outlet will be installed in a UL listed, recessed, ABS plastic back box with a minimum of one and three quarter inch of box depth. The outlet cover will be stainless steel. The outlet and Back Box must be grounded and protected by a G.F.I. (Ground Fault Interrupted) Breaker. Each outlet will have an LED power indicator that will illuminate when power is applied to the outlet. Each Outlet will be clearly labeled with a permanent laser etched decal defining the outlet voltage. If an outlet is specified to be a Dual USB outlet, the outlet will have two five-amp, five-volt USB type power supplies in the middle of the body to provide an alternative power source. Each outlet will be heavy duty construction and tamper proof with retracting closures out the main blade points of the outlet.

125 VAC W/ DUAL USB OUTLET No. 1: This 125 Volt outlet will be located in the Action Area, on the back wall.

125 VAC W/ DUAL USB OUTLET No. 2: This 125 Volt outlet will be located in the patient cabin's, telemetry area that is located just aft of the street side CPR side seat.

125 VAC OUTLET No. 3: This 125 Volt outlet will be located on the curbside above the RF ALS countertop at the head of the squad bench.

125 VAC POWER STRIPS: The following power strips will be UL listed, 125 Volt, Straight blade NEMA 5-15R outlets. The outlets must be grounded and protected by a GFI (Ground Fault Interrupted) Breaker. The power strips must illuminate when power is applied. The power strips will be clearly labeled with a permanent RED colored decal defining the outlet voltage.

125 VAC POWER STRIP No. 1: This power strip will be located in the chassis cab, behind the passenger's seat.

125 VAC POWER STRIP No. 2: This power strip will be located in the RF ALS cabinet, with exact location to be determined prior to construction of the ambulance.

INTERIOR 12 Volt Direct Current (DC) OUTLETS:

12 VOLT OUTLETS: The following outlets will be a 12 volt, direct current, 20 Ampere, automotive "cigar" lighter size commercial outlet. The outlets will be located and wired as specified below. The outlets will be separately protected and will be electrically isolated from other electrical functions on the vehicle. This outlet will be wired per current Federal specification KKK-A-1822.

12 VDC Outlet No. 1: This outlet will be located in the Action Area.

12 VDC Outlet No. 2: This outlet will be located on the curbside above the RF ALS countertop at the head of the squad bench.

ELECTRONIC SIREN: The Whelen 295HFSC9 siren hardware will consist of a combination control head with integrated amplifier. The mono or dual sound output will include 8-programmable operating profiles and include a removable microphone. The siren control head will feature a rocker type power switch, rotary function/Mode switch, a Manual momentary button switch and a microphone volume control potentiometer.

SIREN SPEAKERS: Each speaker will have a 100 watt driver and will emit through the cast aluminum horn, specifically designed to custom fit against the contours of the OEM Front bumper. The cast horn to bumper fit will be tight and aesthetically pleasing. The edges of each hole, in the bumper, will be clean and will have rust preventative treatment, prior to final installation of the speakers. The siren and speakers will meet or exceed current Federal KKK-A-1822 F, CAAS and NFPA spec

SIREN OR HORN SELECTOR SWITCH: The OEM horn ring will control the OEM electric horn and the siren's manual momentary input controls. A switch will connect the horn ring to either the OEM HORN or to the SIREN. The switch will be located in the cab console's switch panel. The switch legend, that clearly defines the switch function will be engraved in the switch panel. The legend will be illuminated when the head light switch is on.

AIR HORN SYSTEM: The apparatus will be supplied with an authoritative sounding air horn system that is loud enough to overwhelm almost every usual audible distraction. The air horns will, when enabled, emit a loud (138 decibel) signal with tremendous power for the duration of the users' depression of the Activation switch. The system will contain two horns of UNEQUAL length to cover a wider frequency range.

AIR HORN ACTIVATION: The air horns will be activated through a twelve volt solenoid valve. The solenoid valve will feature an orifice size large enough to allow 20 CFM of air volume to pass through at fifty pounds per square inch of pressure. The solenoid valve will be activated by a momentary switch in the cab console. The solenoid valve will automatically shut off when the switch is released.

AIR HORN SUPPLY TANK: There will be an air horn supply tank to store the air that is generated by the compressor to supply the specified horns. This tank that will be determined by engineering and the air horn manufacturer will be secured to the chassis frame rails.

AIR HORN ACTIVATION REQUIREMENTS: The Emergency Master switch will be activated for the air horns to be active.

COMPRESSOR FOR AIR HORNS: A Buell Model No 6540 maintenance free, Oil-less Air compressor will be supplied and installed. This intermittent duty (6 minutes ON, 25 minutes OFF) compressor will be dedicated for the air horn use only. The compressor will generate 1.15 cubic feet per minute (CFM) of air volume at zero pounds per square inch and will have a compression capacity of at least 125 pounds per square inch. The compressor will run and stop automatically with a pressure switch that is set to come on at ninety five (95) pounds per square inch and SHUT OFF at One hundred twenty five (125) pounds per square inch. The compressor inlet port will be filtered. The compressor will supply compressed air to a pressure vessel listed below. The pressure vessel will not exceed 3.0 gallons (693 cubic inches) of volume. Amperage draw will never exceed 18 amperes at 12.0 volts, even at start up.

The specified air horn compressor will be located in the M2 compartment.

AIR HORN LOCATION: The air horn trumpets will be located under the front OEM bumper. NOTE: The exact location of the air horn trumpets is to be determined prior to construction of the ambulance.

LEFT AIR HORN: The left air horn will be a Buell-Strombos model No 1061. The horn will feature all brass construction, hand spun brass bell, a stainless steel diaphragm and heavily chrome plated exterior finish. The horn will emit 140 decibels at one meter with a frequency of four hundred ninety three (493) Hertz.

RIGHT AIR HORN: The left air horn will be a Buell-Strombos model No 1062. The horn will feature all brass construction, hand spun brass bell, a stainless steel diaphragm and heavily chrome plated exterior finish. The horn will emit 140 decibels at one meter with a frequency of three hundred ninety six (396) Hertz.

GENERAL CABINET CONSTRUCTION

SUBSTRATES: The interior cabinets and components will be constructed of exterior water boil proof resin (WBP). The glue line between layers will be of similar chemical makeup as the phenolic resin used in marine Grade plywood, as designated by the APA (American Plywood Association). Phenolic resins are designed to eliminate formaldehyde off gassing often associated with most hardwood plywood. The exposed layers of the substrate will be hard wood on both sides of the sheet, these layers will be 99% void free. Cabinet cases are to be made from at least 12mm thick, minimum 5 ply. Bench Lids and Doors will be made from at least 18 mm thick, minimum 7 ply.

CABINET INTERIOR FINISH: Cabinet interior will be laminated with white colored, high impact, abrasion resistant laminate. The contact adhesive will be a high bond contact adhesive, specifically designed to bond plywood to laminate. The laminate will be at least 28 mills thick.

LAMINATE: A high impact, phenolic backed, high impact, and abrasion resistant laminate will be used. The laminate will be at least 45 mills thick. This material as well as all interior components will meet or exceed F.M.V.S.S. #302 (Burn rate of interior components). Color selection will be specified at the pre-build conference.

CABINET ASSEMBLY: To maximize fastener bite, cabinet substrate parts will be stapled with pneumatic fired equipment. The length of the fastener will be at least 2.25 times the thickness of the material being pierced through. In addition to staples, the entire cabinet assembly must be screwed together with a minimum #8 screw size and a length not less than 2.25 times the thickness of the pierced substrate. Screw heads will be countersink type and driven flush. Reinforcement cleats will be bonded to the inside corners where the backside of the face of the cabinet meets the case of the cabinet. The glue used will be, yellow colored waterproof resin type.

CABINET TRIM: All trim throughout the interior conversion will be anodized aluminum or formed stainless steel. All exposed corners within the patient compartment will have padded or rounded corners. Rounded corners will be at least .250 inch radius. Rounded corners will not compromise maximum cabinet assembly strength. The trim will be bonded with a high strength adhesive.

FIT AND FINISH: Mitered joints throughout the interior conversion will have a gap-less, hairline fit. Sliding Lexan door assemblies will be scratch free, and all edges will be smooth and free of saw marks and sharp edges. Cabinet to cabinet joints will not require more than 7/32 diameter welting to create a finished/well-fit look. Cabinets will fit tightly against the ceiling as well.

FUNCTION: Doors and drawers will fit the opening. When specified, flush fitting doors will have even door to opening gaps. All doors will open and close bind free. Drawers will slide in and out freely, without drag. All drawers will be mounted on side mounted, full extension drawer slides, rated no less than 75 pounds per pair. All hinged wood core doors will have positive latches.

CABINET DOORS

SLIDING SECURE LATCH RESTOCKING WINDOW: When a sliding secure latch restocking window is specified, there will be a restocking sliding SECURE LATCH window installed at the location indicated. This window features several advanced safety features allowing it to meet the new SAE J3058 safety standard. This slider window features a full length spring loaded low-profile bar latch at both ends of the slider window that lock into an aluminum extrusion when the window is closed. The center of the window has aluminum inter-locking stiffeners of panel to distribute outward impact loads across both panels. The window will be able to be opened with one motion and with one hand. To close the user can push the window and slam -latch to closing. This window also features a lower release bar that allows the window to be opened to a restocking position for a majority clear access to the contents of the cabinets without accessing through the sliding window. The restocking feature is to be used when the vehicle is not in motion. This window has been tested to SAEJ3058 testing methods in a third party testing facility and found to safely restrain 30 (thirty) pounds of contents. Windows that do not meet the SAEJ3058 safety requirements are not acceptable to this agency.

STOWAGE LABEL: A label will be applied for any Secure Latch Restocking Sliding Window system indicating its ability to restrain 30 pounds of contents within the stowage area. This secure latch sliding window system has been tested and is compliant within the requirements of SAE J3058 as required under Federal specification KKK-A-1822F section 3.11.3.

SLIDING SECURE LATCH WINDOW: When a sliding secure latch window is specified, a sliding lexan window with secure latches will be used. The window features several advanced safety features allowing it to meet the new SAE J3058 safety standard. This slider window features a full length spring loaded low-profile bar latch at both ends of the slider window that lock into an aluminum extrusion when the window is closed. The center of the window has aluminum inter-locking stiffeners of panel to distribute outward impact loads across both panels. The window will be able to be opened with one motion and with one hand. To close the user can push the window and slam -latch to closing. This window has been tested to SAEJ3058 testing methods in a third party testing facility and found to contain 40 pounds of contents. Windows that do not meet the SAEJ3058 safety requirements are not acceptable to this agency.

STOWAGE LABEL: A label will be applied for any Secure Latch Sliding Window system indicating its ability to restrain 40 pounds of contents within the stowage area. This secure latch sliding window system has been tested and is compliant within the requirements of SAE J3058 as required under Federal specification KKK-A-1822F section 3.11.3.

HINGED LEXAN DOORS: The Lexan will be at least 3/16 inch thick. The desired thickness will be noted within this specification at each door location. The door orientation, hinge style and latch will also be noted at each door location as well. The door edges will be rounded and smooth since it will be the finished edge that will be visible.

SINGLE FLIP UP LEXAN DOOR: When a single flip up lexan door is specified, a Single 3/8" (0.375 in) thick, overlay flip up door will be supplied on the cabinet.

SOLID HINGED DOOR: When a solid door is specified, a 3/4" (19mm) thick door will be supplied on the cabinet. The substrate will be 7-ply, A-A (Cabinet grade), hardwood plywood. The door will be flush fitted to the opening and have uniform gap spacing around the perimeter of the door. The door will be hung on a continuous, stainless steel piano hinge with mounting screws, spaced every two inches along the full length of the pre-punched hinge. The door will be finished on both sides with white cabinet liner laminate on the inside and the same colored mica as the cabinet fascia on the outside.

DOOR EDGE FINISH: The edges of the aforementioned door(s) will be covered with anodized aluminum, U-shaped trim. The trim will be miter cut and wrapped around the perimeter of the door (On ALL four sides), including the hinged side. The trim will be bonded to the door edge and clamped. No screws or other mechanical fastener will be used to fasten the trim work to the door(s). The corners of the doors will be broken (rounded) after application. Vinyl "Iron on" or mica edge banding is not acceptable.

GENERAL CABINET CONSTRUCTION DEFINITIONS

REEL TORQUE STYLE HINGES: When reel torque style hinges are specified, the hinges to hold up the access door will be powder coated zinc Reel Torque style with a 30 pound torque setting each. Each hinge has a built in friction action to provide a holding force of present amount to cause the hinge to resist movement in either direction. This hinge is intended to act as a hold open for a cabinet light door while the vehicle is not in motion.

NON-LOCKING LATCH: When a non-locking latch is specified, a round pull style chrome positive latch will be supplied and installed on the cabinet door. A small "pre-load" on the latch will be imposed to prevent the door from rattling. When a locking latch is specified, there will be a key included for locking purposes.

STOWAGE LABEL: A label will be applied for any door, drawer, or other stowage area secured by a Round Southco latch, indicating its ability to restrain 10 pounds of contents within the stowage area. This latch has been tested and is compliant within the requirements of SAE J3058 as required under Federal specification KKK-A-1822F section 3.11.3.

ADJUSTABLE SHELVES: When adjustable shelf or shelves are specified, each shelf will be made of 1/2" thick substrate and finished in white colored laminate. The sides of each shelf will be laminated. Each shelf will be secured to four shelf

clips with Phillips head wood screws, from the bottom of the shelf. An anodized aluminum angle will be securely fastened to the front edge of each shelf. The vertical leg of the angle will provide a lip along the front edge.

SHELF STANDARDS: Each cabinet containing a shelf will be equipped with non-incremental, aluminum, C-shaped shelf standards.

CABINET – DRAWER: When a drawer is specified, the following specifications will apply. The drawer will be finished in high impact, white colored mica that is impervious to disinfectants and cleaners. The cabinet will add at least 1.0 cubic feet of interior stowage accommodations described in Federal specification KKK-A-1822E 3.11.1. The drawer body will be constructed of 12mm (1/2") thick A-A cabinet grade plywood. This includes both sides back and bottom. The drawer body will be laminated on ALL surfaces inside, outside and on all edges. (Including the bottom). The laminate will be 28 mil white colored mica. The laminate will be bonded to the drawer body with high bond contact adhesive specifically formulated for this application. The drawer body will maximize the interior cabinet volume. The drawer body height will be the height of the cabinet opening less one and one-half (1 1/2"). Vinyl or pressed particle board drawer bodies are unacceptable due to weight and durability constraints and will not be used.

DRAWER FRONT: A 3/4" (19mm) thick drawer front will be fitted on the aforementioned drawer. The drawer front will be flush fitted to the opening and have uniform gap spacing around the perimeter. The drawer front will be finished with white cabinet liner laminate on the inside and the same colored mica as the cabinet face on the outside.

DOOR EDGE FINISH: The edges of the aforementioned door(s) will be covered with anodized aluminum, U-shaped trim. The trim will be miter cut and wrapped around the perimeter of the door (On ALL four sides), including the hinged side. The trim will be bonded to the door edge and clamped. No screws or other mechanical fastener will be used to fasten the trim work to the door(s). The corners of the doors will be broken (rounded) after application. Vinyl "Iron on" or mica edge banding is not acceptable.

DRAWER SLIDES: The aforementioned drawer will be equipped with ball bearing, full extension drawer slides rated at one hundred and thirty pounds at an eighteen inch length, per pair. The length of the slide will be at least the length of the drawer body and will travel at least the length of the slide plus one inch over travel. The slides will be mounted to the side of the drawer body and cabinet case. The slide sectional envelope will not exceed one half inch wide by two and three eighth inches high. In order to thoroughly clean the drawer and the case, the drawer slides will feature a quick detach lever in each slide, to allow the drawer to be removed from the case without tools.

INTERIOR PATIENT COMPARTMENT DESIGN AND LAYOUT

MICA COLORS: The mica color selection will be two tone. The upper two thirds of the cabinetry will be Fashion Gray with a Glossy finish. The lower third of the cabinetry will be genuine stainless steel with a brushed finish. The parting line between colors will be straight, tight, and clean. Mica edge will be router clean, back filed, and dry fitted prior to final lamination to the cabinet face. A sample of the subject mica color and stainless steel finish will be supplied at the post award conference.

STAINLESS STEEL APPLICATION: The lower section of the squad bench face under the lid will be applied with the stainless steel laminate as well as the same height on the rear filler panel between the squad bench and the rear doors.

STAINLESS STEEL APPLICATION: The lower section of the wall cabinet face at approximately the same height as the attendant seat cushion.

LEXAN COLOR: The lexan throughout the vehicle will be transparent and without tint. All doors will be at 3/16" thick, shatter proof, and scratch resistant. The edges of the doors will be worked and burned smooth. The material will be flexible enough to be cold formed (Bent) at ninety degrees, without fracturing the material. Brittle material is not acceptable.

ATTENDANT SEAT: There will be a high back captain's seat mounted in the patient area with an IMMI single point slick 4-point black seat restraint. The seat will have an integrated child safety seat with a pull down backrest and concealed 4-point child restraint. The seat will be mounted per the requirements in the latest revision of KKK-A-1822. The seatbelt on the main part of the seat will be an integrated, 4-point that is supplied and tested by the seat manufacturer as a complete package. The seat color will be Blue Ridge. Exact upholstery color will be determined prior to construction.

SEAT BASE: There will be a powder coated metal seat that is tested to be utilized with the Emergency Vehicle Seating Child integrated seat. The metal base will be mounted to the ambulance floor and secured to modular body sub-structure according to the manufacturer's guidelines.

AIR CONDITIONING EVAPORATOR CABINET: The patient cabin will be equipped with a rear air conditioning and heat unit. The unit will be wired, connected, and installed per the environmental section of this specification. A cabinet, specifically designed to fit, form, and function to the constrains set forth in the surrounding cabinet design and air exchange for cooling/heating performance requirements. The AC/Heat cabinet will be located behind the attendant seat on the floor. The AC/Heat delivery system will be ducted to the modular ceiling. It will have eight (8) spherical adjustable vents. In addition, there will be two vents above and facing the attendant seat on cabinet H. The design will provide adequate air return to meet or exceed current revision of the Federal specification KKK-A-1822.

LEFT FRONT CABINET, "H": This cabinet will be located behind the attendant seat and on top of the Air Conditioning unit. Access to the main circuit board will be provided through the face of the cabinet facing the curbside. The access door will be hinged along the right side with a non-locking lever type latch at the top. The door will open without interference with other cabinet doors or hardware. The cabinet will have two adjustable Air Conditioning vents behind and above the attendant seat. The cabinet will have a solid, right hinged door with a non-locking latch.

PLASTIC VENT: A fifteen square inch free air flow ventilation hole will be cut into the above door. The edges of the cut out will be banded. The hole will be covered with an aesthetically appealing, molded plastic louver cover. The louver cover will be black in color and secured with at least one No 8 screw in each corner.

BULKHEAD GLOVE BOX STORAGE: There will be glove box storage for four (4) boxes of gloves located on the bulkhead wall, near the curbside entry door. The gloves will dispense through oblong slots cut into the 3/8-inch thick Lexan door. The lexan door will be hinged at the top with stainless steel spring loaded style hinges and will have a non-locking latch.

CURBSIDE UPPER CABINET: The curbside upper cabinet is located on the curbside (right side) of the patient cabin, over the squad bench. The cabinet length will be maximized and start within two inches of the curbside entry door opening and mate to the right rear wall of the patient cabin.

CABINETS "K1 & K2": An interior cabinet will be provided above the squad bench, on the curb side of the vehicle. This multipurpose cabinet interior will be finished in high impact, white colored mica that is impervious to disinfectants and cleaners. The cabinet will have two openings, each with a fixed divider set back from the face. Each "K" cabinet will have a single flip up lexan door with Reel Torque style hinges and a non-locking latch.

CURBSIDE UPPER FORWARD CABINET "P": This cabinet will be located forward of the curbside upper "K" cabinets. The cabinet will have a solid hinged door with a non-locking latch. The curbside switch panel will be on an angled cabinet located forward of the curbside upper forward cabinet "P" and under the curbside upper cabinets "K1 & K2".

RIGHT FRONT CABINET (I-2): The right front cabinet is hereinafter known as ALS cabinet. All fixed and adjustable shelf surfaces will be covered in Easy Grip material. All fixed and adjustable shelf lips will be covered with anodized aluminum trim. All shelves will have a ¾" lip. The ALS cabinet will provide at least 21.0 cubic feet of storage and Configured as follows. The cabinet will be located rearward of the curb side entry door and forward of the squad

bench. The cabinet will have a solid surface countertop to be used as a curbside "action area". The color will complement the color scheme of the mica, floor, and upholstery in the remaining areas of the vehicle interior. The material will be tested to the same material as the "Action Area". Under the countertop will be a drawer facing rearwards towards the squad bench. The drawer will have a non-locking latch. Underneath the drawer there will be an open cabinet that extends below floor level, with two adjustable shelves. The right front cabinet of the module will have outside access through the right front (M-7) compartment door.

ALS CABINET WEBBING: There will be a removable cover over the right front ALS cabinet opening. The cover will consist of 2" seat belt webbing material. The 2" webbing will be constructed so that the openings are no larger than about 7" squares. The ends will be sewn in loops to allow installation through a metal footman style loop that will be fastened to the edge of the ALS cabinet. The netting will be quick released for access to the secured equipment through automotive style metal buckles. The design will be so that the stored medical equipment is not able to come through the holes in the net and is secured when the net is in place.

STOWAGE LABEL: A label will be applied for the entire area covered by a single cargo net indicating its ability to restrain 80 pounds of contents within the stowage area. This net as built by the manufacturer has been tested to SAE J3058 and found to have a safe working capacity of 80 pounds of stowage capacity restraint. This item is compliant to section 3.11.3 of KKK-A-128F dated July 1, 2017.

UPHOLSTERY PAD: An upholstered pad covering the entire forward facing wall, over the squad bench will be provided. The pad will include at least 1/2" thick foam padding covered in the same heavy duty vinyl covering specified for the squad bench cushions and the remaining upholstery package.

RIGHT REAR CABINET: The right rear exterior compartment specified herein will be completely concealed from interior view by a right rear cabinet. All exposed surfaces of this cabinet will be fully laminated over substrate matching main cabinet structures. The vertical outer corner will feature a radius anodized aluminum trim. The trim will originate from the top of the mated squad bench and terminate into the ceiling.

INSIDE ACCESS INTO RIGHT REAR COMPARTMENT: Inside access to the right rear cabinet will be positioned above the squad bench seat cushion level, on the wall facing the aisle. The access opening will accommodate clear access to splints, collars or other medical appliances that are stored in the right rear exterior compartment. The access opening from the interior is 10 inches wide and thirty six inches tall. If the agency determines that specific size openings are required, they will declare these during post-award, pre-construction meetings. The inside access to the right rear cabinet will have a solid right hinged door with a non-locking latch.

SQUAD BENCH: A squad bench will be installed on the curbside of the patient compartment. The number of seating locations will be installed as described in the options following this general heading specification. All seat belts and anchorage will comply with FMVSS. 209 and 210. The Squad Bench will comply with current KKK-A-1822. A back and head rest will be supplied for all seated personnel along the squad bench.

TILT OUT BIO-WASTE RECEPTACLE: A biological waste receptacle will be supplied and installed in the squad bench. The receptacle will accommodate a sharps container and a solid waste container per the following paragraphs. Both the sharps and the solid waste containers will be enclosed and secured in a molded enclosure, free of crevices. The receptacle will be in a cabinet with a tilt-out door. The door will have a non-locking round latch. The cabinet will open at an angle so that the biological waste containers will be accessible.

SHARPS CONTAINER: A puncture proof, disposable sharps container located at the head of the squad bench with a 3 quart capacity will be supplied for safe disposal of used/contaminated syringes. The unit will include a spring loaded clip in the mounting to allow for secure mounting in the case of an accident.

WASTE CONTAINER: One six quart (346 cubic inch), rimmed plastic waste container will be supplied and fitted into the "Bio-waste" enclosure.

UNDER LID STOWAGE: The squad bench will provide storage under the access lids. This multipurpose storage area will be finished in high impact, white colored laminate. Must meet current Federal specification current KKK-A-1822.

SQUAD BENCH LIDS: Two (Split) squad bench lids will be supplied over the squad bench storage area.

HINGE, SQUAD BENCH LID(S): All squad bench lids will be installed with butt style, hinges. The hinges will be through bolted for longevity of the vehicle. There will be a minimum of two hinges per lid.

LID CHECKS: Each squad bench lid will have a bi-directional gas spring lid check (Hold open). The force value selected and ball stud locations will provide lift assistance after twenty degrees of bench lid lift angle. The ball stud mounts will be at least 10 millimeters.

LID LATCH: One latch to hold each lid down will be supplied. The lid latch will be stamped stainless steel construction and latches automatically by simply closing the bench lid. There will be a slot milled into the underside of the bench lid to accept a manufactured keeper that will prevent the lid from pulling away from the latch. The paddle latch will be through bolted to the keeper with the retaining nuts on the backside of the keeper as a complete assembly. This assembly has been tested to SAE J3058 standards and passed with the ability to contain 80 pounds in the entire area of the squad bench. A label will be affixed to the squad bench area.

STOWAGE LABEL: A label will be applied near the squad bench exterior indicating the lids to the squad bench are restrained with a compliant latch. The latch assembly of the squad bench were tested to SAE J3058 standards to 80 pounds and found passing. The operator should not exceed the 80 pound weight rating for the entire squad bench storage area. This item is compliant to section 3.11.3 of KKK-A-128F dated July 1, 2017.

EDGE TRIM: The edge of the squad bench lid will be finished with aluminum anodized "J" trim. The trim is to be supplied with countersunk holes to allow for screws to be installed flush, so the screw head does not catch anything.

STREETSIDE TOP CABINETS:

CABINET "B": An upper, interior cabinet will be provided directly over the "Action Area". This multipurpose cabinet interior will be finished in high impact, white colored laminate. The cabinet will be ergonomically angled toward the CPR seat. Must meet current Federal specification KKK-A-1822. The cabinet will have a sliding secure latch restocking window and one adjustable shelf. Cabinet "B" will also have a single flip up lexan side access door with a non-locking latch facing the CPR seat.

CABINET "CPR": An upper, interior cabinet will be provided directly over the CPR side seat in the Base wall cabinet. This multipurpose cabinet interior will be finished in high impact, white colored mica that is impervious to disinfectants and cleaners. This cabinet will have a single flip up lexan door with Reel Torque style hinges and a non-locking latch.

BASE WALL CABINET: The base wall cabinet is located on the Street side (Left side) of the patient cabin. The overall height of the Base Wall Cabinet will be approximately 75% of the overall head room. This cabinet will be built in ONE piece. The laminate along the fascia will be ONE piece on single color laminate selections. A CPR Side Seat will be provided on the street side aligned with the primary patient abdomen.

ACTION AREA: The action area is a work surface located on the forward end of the Base Wall Cabinet and adjacent to the attendant seat. The work surface will be at least 5.5 square feet. The work area height will be 24 inches to 29 inches. The work surface will have a three quarter inch (3/4") high lip.

ACTION AREA COUNTER SURFACE: The action area counter surface will be made from one half inch thick solid surfacing material. The color will complement the color scheme of the mica, floor, and upholstery in the remaining areas of the vehicle interior. This material will be installed by certified personnel trained on the specific brand of solid surfacing material being installed. The successful bidder will disclose the make of the solid surfacing material they are providing to the agency on their "Shop Order".

The proposed solid surfacing material will meet the following minimum technical specifications:

TEST	TEST VALUE	TEST METHOD
Stain Resistance:	24	ANSI 5.2.1
Barcol Hardness	60-62	Barcol Impressor
Flexural Strength, PSI	8250	ASTM D-790
Flexural Modulus, PSI x 10	1.41	ASTM D-790
Dart Impact, 2lb dart	No Fracture	30" Drop
Fire Rating	Class A / Class 1	ASTM E-84
Sample Thickness	0.785 inches	
Color Fastness	Pass	ANSI Z124.3-1986

The samples will show no significant change in color after 200 hours of exposure.

Wear ability	Pass	ANSI Z124.3-1986

After completion of 10,000 scrub cycles, no wear through will be observed.

Ability to Clean	Pass	ANSI Z124.3-1986

The average absolute loss of white light reflectance after application and removal of standard dirt with liquid detergent will be 0.0%. No additional cleaning will be necessary.

Chemical Resistance	Pass	ANSI Z124.3-1986

Solid Surface material is defined as a composite of high tech resins and natural minerals giving the bold and elegant perception of stone. The material will be 100% solid meaning the surface color goes all the way through. This material will be chemically engineered to resist stains, nicks, and scratches. The material will be nonporous and will not support the grown of mold mildew and bacteria.

SOLID SURFACE COLOR: The color of the solid surface material specified above will be Steel Gray Tempest-9194TM

SOLID SURFACE EXTENSION: There will be an extension of the solid surface countertop to in front of the O1 cabinet. The material will be matching in color to the main countertop with a one inch lip.

ACTION AREA BOARD: There will be a single board containing the basic electrical and oxygen control systems of the patient area. This board will be covered in black secure grip material. Proper spacing will be maintained between

electrical and oxygen connections. The board will be hinged by dual action concealed hinges and secured by quarter turn captive head bolts. The use of hinges and bolts allows for inspection of the connections during routine maintenance procedures.

DRAWER UNDER ACTION AREA: There is to be a drawer integral to the wall cabinet structure. Final layout and location will be approved by this agency on the interior drawing layout prior to production. The drawer will have a non-locking latch.

CABINET "C": An interior cabinet will be provided at the rear end of the base cabinet on the street side. This cabinet interior will be finished in high impact, white colored laminate. Must meet current Federal specification KKK-A-1822. This cabinet will have a single left hinged lexan door with a non-locking latch. This cabinet will have two adjustable shelves.

COMPARTMENT INTERIOR ACCESS: The right rear compartment will not be accessible through the inside of the module.

CABINET "D": An interior cabinet will be provided directly over the rearward "Telemetry Area just aft of the CPR side seat within the base cabinet on the street side. This cabinet will be ergonomically angled towards the CPR seat. This multipurpose cabinet interior will be finished in high impact, white colored laminate. The cabinet will be ergonomically angled toward the CPR seat. Must meet current Federal specification KKK-A-1822. The cabinet will have a sliding secure latch restocking window and one adjustable shelf. Cabinet "D" will also have a single flip up lexan side access door with a non-locking latch facing the CPR seat.

DRAWER "F-1": An interior drawer will be provided directly below the rearward "Telemetry" Area just aft of the CPR side seat within the base cabinet on the street side. This multipurpose drawer interior will be finished in high impact, white colored mica that is impervious to disinfectants and cleaners. The cabinet will add at least 1.0 cubic feet of interior stowage accommodations described in Federal specification KKK-A-1822E 3.11.1. The drawer will have a non-locking latch.

CPR SEAT: A left side "CPR" side seat will be provided on the street side and aligned with the primary patient's abdomen. The seat will be at least twenty four (24") inches wide and normal squad bench seat height. Upholstered seat pads will be located within the seat area for the seat, back, both arms and hips. The CPR seat area will have rounded corners.

BACK REST: The CPR side seat will feature a padded, fixed back rest with chamfered upper corners.

TELEMETRY AREA: A four inch wide upholstery covered and padded arm rest will be installed. The arm rest will create a 3/4" to 1" lip on the leading edge of the telemetry area.

TELEMETRY AREA COUNTER SURFACE: The telemetry area counter surface will be made from one half inch thick solid surfacing material. The color will complement the color scheme of the mica, floor, and upholstery in the remaining areas of the vehicle interior. The material will be tested to the same material as the "Action Area".

SOLID SURFACE COLOR: The color of the solid surface material specified above will be Steel Gray Tempest-9194TM

CABINET O1: This cabinet will be located in the forward action area for storage of medical tubing, air ways, ventilation face masks, and/or miscellaneous items. Must meet current Federal specification KKK-A-1822. This cabinet will have a solid right hinged door with a **locking** latch.

RESTRAINT SYSTEM(S): There will be installed a REV Per4Max restraint system harness at each seating location declared. This seating harness system will incorporate a four point harness of two shoulder belts with retractors and two stationary lap belts that intersect to a single high function ergonomic latch. The harness shoulder belts will

incorporate innovative technology through patent pending controlled deceleration technology which softens the impact of a crash on the EMSP user. The seat belt harness also incorporates an indicator that alerts the operator when it requires replacement. The color of the seat belt system will be black. This seat belt system will meet current FMVSS safety standards.

The REV Per4MaxOY Seat Belt System(s) will be in the following locations:

RESTRAINT SYSTEM(S): The rear seating locations will consist of the Per4Max 4-Point restraint system. The Per4Max Advanced Restraint System is a "Vehicle mounted" 4-Point restraint system dispersing loads to 4 points of reinforced structure within the vehicle as opposed to concentrating loads on the seat frame. It promotes a seated position with a wide range of mobility. The seated position in conjunction with the seat system, has been proven to be safer than isolated standing positions in a moving vehicle. As well it is easy to use encouraging greater use in the field than more cumbersome systems involving additional latches, levers, and cables. The seatbelt harness will incorporate an indicator of contrasting color when the seatbelt has been involved in a high impact condition to indicate need for replacement. These seatbelts are FMVSS applicable tested and approved to AEV configurations.

There will be two Per4Max restraints on the Squad Bench and one Per4Max restraints on the CPR Side Seat.

SECONDARY PATIENT RESTRAINT SYSTEM: There will be a location for a secondary patient on top of the squad bench located on the curbside interior of the patient area of the ambulance. To secure the patient there will be three inertia style retractable straps that match up to three 9" sleeved buckles on the face of the squad bench and 5" sleeved retractors by the squad bench lid hinge. The straps and buckles will be mounted to comply with the pull test requirements in the present revision of KKK-A-1822.

FLOOR AND SUBSTRATE: The floor of the module will be (3/4) thick 7-Ply, Formaldehyde free, exterior grade, A-C plywood. The glue line between the layers will be phenolic based. The glue will be of similar chemical make up to the phenolic glue used in Marine grade plywood, as designated by the A.P.A. (American Plywood Association).

FLOOR COVERING: The floor substrate will be free of dents, voids, and moisture prior to application of the floor covering. The plywood substrate will be 3/4" (19mm) 7-ply exterior grade plywood. The substrate sheet will be cut from a 60 inch wide by 144 inch long oversized sheet. No substrate seams are allowed in high foot traffic areas. This means NO SEAMS are permitted within 132" of the rear access doors or near the side access door. On longer bodies, the only ONE seam is permitted as long as the full length of the seam is located directly over the center of a 0.250 x 2 x 3 box tube floor member AND the seam does not fall in the aforementioned "High Traffic" areas. The floor covering will be one piece throughout the patient cabin regardless of the body length. The flooring material will be commercial grade sheet vinyl floor with coin shaped protrusions on the surface. The floor covering will be Lonseal Loncoin II Flecks No 152 "Sapphire " (Blue). The main field of the flooring around the "coins", will be textured to minimize the appearance of minor scratches and imperfections brought on by wear.

FLOORING MAIN EDGE: The one-piece patient cabin floor covering material will run the full with of the aisle space plus roll up (3") three inches along the Base wall cabinet, squad bench and the right rear cabinet (when applicable). Both roll-up areas will be recessed approximately 1/2" into the face of the cabinets.

REAR THRESHOLD: The rear threshold will be made of 16 gauge brushed stainless steel sheet. The threshold will conceal the end of the vapor sheet, sub floor, and flooring. The threshold will mate to the top of the rear access door jamb and cover at least six inches of flooring. Installed over the stainless steel threshold will be two 2.5" wide "nonskid" tape, strips applied. The color of the tape will be safety yellow with black diagonal stripes.

C/S THRESHOLD: The C/S threshold will have a brushed stainless steel floor protection sheet. The threshold will conceal the end of the vapor sheet, sub floor, and flooring. The threshold will mate to the top of the curb side entry step well

and will cover at least three inches of flooring. Installed over the stainless steel threshold will be two 2.5" wide "nonskid" tape strips applied. The color of the tape will be safety yellow with black diagonal stripes.

COT MOUNT HARDWARE

PRIMARY COT MOUNT: Prep for main cot mount, Cot mount base rail only will be Stryker model No 6390 Power Load System.

COT FASTENER MOUNTING METHOD: All mounting bolts will be 3/8" diameter, socket head cap screws with at least 16 threads per inch. All mounting blocks will be supplied and manufactured by the cot mount manufacturer. The mounting blocks may protrude above the flooring surface by up to 3/16", as long as all of the edges are chamfered. The aforementioned cap screws will not protrude above the upper surface of the mounting block.

All cap screws will be through bolted through 1/2 (.500) inch thick, 6061-T-6 Aluminum plate structure. One and one half (1-1/2) inch x six (6) inch thick plates will either be MIG welded or Chuck structurally fastened to the floor grid for both cot mount and attendant seat fastening locations. All fastening hardware will be either through bolted or tapped depending on under floor clearances due to chassis installed components. Mounting bolts will not point toward fuel filler or fuel vent hoses, in accordance with good engineering practices set forth by the Society of Automotive Engineers and Ford's Qualified Vehicle Modifiers' program.

COT MOUNT COMPLIANCE: SPECIAL NOTE: The Litter Fastener/Anchorage you have selected for this order does not meet the performance requirements of the SAE J3027 Recommended Practice for Ambulance Litter Integrity, Retention and Patient Restraint.

Section 3.11.6 of KKK-A-1822F as revised July 1, 2017 (Change Notice 10), requires A complete litter fastener assembly will be furnished. The installed litter fastener device for wheeled cots will meet the performance requirements of SAE J3027. The litter fastener device will be installed according to the litter fastener manufacturer's instructions. The ambulance floor and substructure will be tested in accordance with the dynamic requirements of SAE J3102. Individual requirements for your State may also be applicable and should be reviewed.

Based on your litter fastener selection, this ambulance will not be compliant with KKK-A-1822F in that specific respect.

COT MOUNT COMPLIANCE: SPECIAL NOTE: The Litter Fastener/Anchorage you have selected for this order does not meet the performance requirements of the SAE J3027 Recommended Practice for Ambulance Litter Integrity, Retention and Patient Restraint.

Section C.11.6 of the CAAS GVS (Ground Vehicle Standards) V 1.0 as revised July 1, 2016, requires a complete litter fastener assembly will be furnished. The installed litter fastener device for wheeled cots will meet the performance requirements of SAE J3027. The litter fastener device will be installed according to the litter fastener manufacturer's instructions. The ambulance floor and substructure will be tested in accordance with the dynamic requirements of SAE J3102. Individual requirements for your State may also be applicable and should be reviewed.

Based on your litter fastener selection, this ambulance will not be compliant with CAAS GVS 1.0 C .11.6 in that specific respect.

COT MOUNT: The additional cot mount will be a single position, Floor Mounted, Stryker Mass Casualty model No 6391. The mounts will be set as specified below.

COT FASTENER MOUNTING METHOD: All mounting bolts will be 3/8" diameter, socket head cap screws with at least 16 threads per inch. All mounting blocks will be supplied and manufactured by the cot mount manufacturer. The mounting

blocks may protrude above the flooring surface by up to 3/16", as long as all of the edges are chamfered. The cap screws will not protrude above the upper surface of the mounting block.

All cap screws will be through bolted through 1/2 (.500) inch thick, 6061-T-6 Aluminum plate structure. All cot plate structure will be continuously welded, or Huck fastened to the floor structure members. Bolt tapping is acceptable ONLY over blind areas, where through bolting would require removal of the rear fuel tank AND access has been blocked off by permanent, critical structure or components. Plate tapping will not be done unless the plate is at least one (1") inch thick. Mounting bolts will not point toward fuel filler or fuel vent hoses, in accordance with good engineering practices set forth by the Society of Automotive Engineers and Ford's Qualified Vehicle Modifiers' program.

COT MOUNT ANTLERS: There will be a set of antlers purchased and shipped with the completed unit to mount into Stryker approved hardware. 12v power for cot mount will be provided up through floor.

COT POSITION No 1: This cot position will be set up for a primary wheeled cot set centered laterally (side to side) in the aisle. The longitudinal location will be set 30 inches measured from the backrest of the attendant's seat (set all the way toward the front of the patient cabin) to the head of the primary cot frame, per current KKK-A-1822.

PRIMARY COT POSITION REINFORCEMENT: There will be a singular piece of aluminum reinforcement installed running the length of the primary cot position in the modular ambulance. It will be secured to the modular tubes by welding or Huck fasteners.

PRIMARY COT: The aforementioned cot fastener will be set up to use a Stryker Model No. Power-Pro Cot.

OXYGEN, AIR and VACUUM SYSTEMS

OXYGEN HOSES: All oxygen system service hoses, fittings and devices will be made of nonferrous materials. Hoses used to pipe Medical Oxygen will be electrically non-conductive, ¼ inside diameter with an abrasion resistant, green colored outer jacket. The hose manufacturers name, part number, inside dimension and working pressure rating will be permanently marked along the entire length of the hose. All hoses will have a working pressure rating of at least 250 pounds per square inch, withstand a system test pressure of 150 PSI / 1033 kPa test prescribed in current Federal specification KKK-A-1822. Each ambulance will be tested.

OXYGEN OUTLETS - GENERAL: Each outlet will be comprised of an "*Inlet Box*" and a "*Latch Plate*" as defined herein. The "*inlet box*" will be a universal inlet service box with a 165 mm type "K" 9.5 mm (3/8") OD Copper inlet pipe stub which is silver brazed to a brass, one piece, 33 mm (1 5/16") inlet body. The "*inlet box*" will be designed specifically for positive pressure gas service and feature a primary and secondary check valve. Each check valve will be rated at 1,379 kPa (200psi).

The "*Latch Plate*" will insert into the universal "*Inlet Box*". The "*Latch Plate*" is comprised of the outer cover plate and latching mechanism that will define the adapter type/Brand that will ultimately connect the patient to the oxygen system. The outlet cover will be color coded GREEN in addition to having a clear permanent legend that identifies the gas type. A unique, Gas specific "Hexagon shaped" outlet terminal will be integrated in the face of the outlet "*Latch Plate*" for safety.

Outlet adapter types will be easily changed by simply removing the "*Latch plate*" specifically designed for brand "A" to brand "B" without any further plumbing changes.

As with all medical gas outlets specified herein, all outlets will be hydrostatically tested and cleaned for oxygen service. All medical gas outlets specified herein will be UL (Underwriters Laboratory) listed and CSA approved. All outlets will be subject to a line pressure of 50 PSI And will be leak tested at 150 PSI Per federal specification KKK-A-1822E 4.4.6. Pressure drop across the outlet will be less than 2.0 PSI At normal working pressure.

OXYGEN OUTLET No 1: This outlet latch will be designed to accept Puritan-Bennett style, depress-IN to release adapters. This Oxygen outlet will be located in the primary action area switch and outlet console.

OXYGEN OUTLET No 2: This outlet latch will be designed to accept Puritan-Bennett style, depress-IN to release adapters. This Oxygen outlet will be located in the primary action area switch and outlet console.

OXYGEN OUTLET No 3: This outlet latch will be designed to accept Puritan-Bennett style, depress-IN to release adapters. This Oxygen outlet will be located in ceiling panel over the primary patients' head/chest area. Access to the outlet will be free of obstructions created by surrounding appliances.

OXYGEN OUTLET No 4: This outlet latch will be designed to accept Puritan-Bennett style, depress-IN to release adapters. This Oxygen outlet will be located in ceiling panel over the primary patients' head/chest area. Access to the outlet will be free of obstructions created by surrounding appliances.

OXYGEN OUTLET No 5: This outlet latch will be designed to accept Puritan-Bennett style, depress-IN to release adapters. This Oxygen outlet will be located in curb side wall, over the squad bench and near the curbside entry door.

MAIN CYLINDER RESTRAINT No 1: One agency supplied compressed, medical gas cylinder will be carried and secured, vertically inside the left front exterior compartment. A bracket will be firmly bolted to the back wall of the compartment that allows for an Aluminum laser cut and multi-bend engineering bracket to be installed in either an M or H tank height setting. The bracket features pass thru holes for four (4) heavy duty ratchet style, web straps. The Entire system has been tested to the latest revision of SAE relevant testing and passed. The cylinder valve will also be visible and accessible from the inside through a clear polycarbonate door.

CYLINDER TYPE: This rack will be for a MEDICAL OXYGEN cylinder. The oxygen system input hose will be suspended over this rack. This input hose will feature a nonferrous 9/16-18 RH bottle nut and regulator barb. This connection will comply with the diameter index safety system (DISS) set forth by the Compressed Gas Association (CGA) for safety.

CYLINDER RACK LOCATION: The main oxygen cylinder will be stored in the left front compartment. The cylinder rack will be through bolted on the back wall, near the right-hand wall of the compartment. The cylinder neck will be visible and accessible through the viewing window.

M SETUP: The oxygen retention bracket will be set for an "M" size steel or aluminum cylinder.

OXYGEN REGULATOR: A fixed output medical regulator will be supplied with the apparatus and installed at the time of the oxygen system pressure test. With the regulator set at 50 +/- 5PSI, a 100 LPM minimum flow rate will be available at all oxygen outlets. The regulating valve with inlet filter will have a line relief valve set at 200 PSI maximum. A manual gauge will be affixed to the regulator with scale graduated in not more than 100 PSI increments. The output of the regulator may vary as the tank pressure lowers or flow rate is changed. The regulator will have a CGA 540 thread for the bottle and a 9/16- 18 tpi threaded male connector for the input hose to the system. This regulator will perform as required at an inlet pressure range from 150 PSI to 2600 PSI tank pressure. The oxygen piping system prior to the regulator will have a pressure sensor installed to read the tank pressure of the main oxygen cylinder and return results back to the main electrical system for display. This sensor reading capability will not replace the manual dial readout at the tank.

REGULATOR WRENCH: There will be a cast aluminum main oxygen cylinder wrench installed in the compartment with the main oxygen cylinder rack. The wrench will include a cable lanyard that secures the wrench to the compartment wall allowing enough length of cable to loosen and tighten the regulator fitting on the customer installed main oxygen cylinder. The wrench will be stored in place with either a hat channel bracket or Velcro to keep it secured while the vehicle is in motion.

VACUUM (SUCTION) PANEL: A variable vacuum regulator and gauge panel will be installed in the action area control panel. The vacuum regulator will vary vacuum delivered to a 1200 cubic-centimeter collection jar specified below. The Vacuum gauge will not be mounted on the collection jar itself.

COLLECTION JAR: The suction system will be equipped with a shatter proof, graduated, 1200cc, transparent collection container. The container will be regulated through the SSCOR panel and installed per manufacturers recommendations. The collection jar will be retained by a SSCOR retention clip. The retention bracket when installed per directions is SAE J3043 retention testing compliant.

VACUUM OUTLET No 1: One Vacuum outlet will be designed to accept Ohio Diamond Vacuum quick disconnect adapters.

LOCATION: The Vacuum outlet will be located in the primary action area switch and outlet console.

VACUUM OUTLET ADAPTER: An adapter will be used to connect the vacuum line from the SSCOR 22000 system, when the container is plumbed through a Vacuum outlet. This vacuum outlet will be designed to accept the Ohio Diamond Vacuum quick disconnect adapter.

SUCTION PUMP: The suction pump will be installed in the left middle compartment, adjacent to the action area panel. The exhaust tube will be routed to the outside of the vehicle. The pump will be mounted on rubber vibration isolators to minimize any vibration noise emitted into the patient cabin. The pump will provide a free air flow of at least 20 liters per minute and achieve a minimum of (11.81 in) Hg vacuum within four seconds after the suction tube is closed. This 49-state pump will meet or exceed current Federal specification KKK-A-1822.

SUCTION PUMP LOCATION: The suction pump will be installed in the left front middle compartment. The pump will be mounted to the ceiling of this compartment on rubber vibration isolators.

IMPACT LOCATION TRIM: There will be installed a soft gel trim of complimentary color installed at impact locations, replacing previous metal trim as needed. The trim color in impact locations chosen will be black. (6) Strips of soft gel trim will be installed in the left front (M-1) compartment as described in the compartment specification.

EXTERIOR ENTRY AND COMPARTMENT DOOR HANDLES: Large chrome plated, die cast paddle handles will be provided to open all module doors. Blind fasteners will be used to fasten the handles to the door from the backside. Blind Stabilizer pins will be incorporated on the backside of the handle for alignment purposes. Every paddle handle will have an isolation gasket between the paddle body and the door skin. All door skin surfaces will be painted prior to installation of the handle hardware. All paddles, on single hung and leading double doors will be locking type and keyed the same (unless specified otherwise). Trailing doors will: have non-locking paddle handles, mounted on the outside of the door. The Handle will have a bright chrome like finish mounted into the bright chrome dish. When the door is in the locked position, the handle will extend when pulled like an automotive handle (free floating) to show the operator that the door is locked and needs to be unlocked to be opened. Systems that utilize a handle that does not free float will not be accepted as it could bind up the inner hardware and shorten the life of the door operation and timing.

INTERIOR ENTRY AND COMPARTMENT DOOR HANDLES: The interior handle will be lever type. A Lock/Unlock lever will be installed below the inside lever handle and be clearly marked Lock/Unlock. The inner chrome plated handle will have a black powder coated cast aluminum bezel for strength.

COMPARTMENT DOOR GROMMETS: There will be two plastic grommets on each compartment and entry door, one on the top and one on the bottom. These plastic access grommets will allow for access at every rotary latch location on all entry and compartment doors. The size of the plastic access grommet will be approximately 1 ¼" in size.

EMERGENCY INTERIOR LATCH RELEASE: There will be a red tipped lever to activate a rotary latch at both the top and bottom interior of each patient access door. These will be used should the door rods become unattached from either the handle or latch assembly. The mechanisms will be at the point of latching to the nader pin. An inserted rubber bezel will be installed into the door panel around the release lever to provide an aesthetic trim to the opening.

ASSIST RAIL: This rail will be naturally accessible to assist persons entering the rear of the module in maintaining their balance. The rail will be 1 ¼ diameter, 100% stainless steel with Yellow anti-microbial coating and 18" long. All rail fittings will be TIG welded to the main rail. The rail will be located prior to order confirmation. Grab rails that utilize separate, setscrew rail fittings are not reliable and not acceptable.

ENTRY DOOR PANELS / WINDOWS / HARDWARE

INTERIOR GRAB HANDLE COLOR: The interior grab handles listed below will be powder coated with anti-microbial, yellow in color.

CURB SIDE ENTRY DOOR GRAB HANDLES: The curbside side entry door will be equipped with a three point, "L" Shaped 1 ¼ diameter, stainless steel with Yellow anti-microbial coating, handicap style grab handles to aid in door closure and entry assistance.

The grab handle will run horizontally, directly above the inside door latch and bend Ninety-five degrees downward to create a banister (handrail) to aid in vehicle egress. The door handle will be fastened directly to the horizontal door structure that is welded to the door assembly.

REAR ENTRY DOOR GRAB HANDLES: The rear entry doors will be equipped with a three point, "L" Shaped 1 ¼ diameter, stainless steel with gray anti-microbial coating, handicap style grab handles to aid in door closure and entry assistance.

The grab handle will run horizontally, directly above the inside door latch and bend Ninety degrees downward to create a banister (handrail) to aid in vehicle egress. The door handle will be fastened directly to the horizontal door structure that is welded to the door assembly.

ADDITIONAL ASSIST RAIL: An additional assist rail will be installed on the bulkhead wall, just inside the curbside entry door, angled to match the curbside step well. This rail will be naturally accessible to assist working attendants in maintaining their balance. The rail will be 1 ¼ diameter, 100% stainless steel with yellow anti-microbial coating and 24" long. All rail fittings will be TIG welded to the main rail.

DOOR PANELS: The inside door panels will be made of .090 aluminum sheet and covered in color keyed mica. The center panel will be removable for easy lock service/lubrication. The edges of the door panel will be recessed into the door frame extrusion. Exposed, raw, sheared, unfinished sheet-metal edges are not acceptable and will not be used. The panels will be fastened to the door frame with stainless steel, #10-32 UNF machine screws threaded into aircraft quality blind fasteners. Fasteners tapped into the aluminum framework is not acceptable and will not be used. Each screw will have an internal tooth lock washer to preclude loosening.

CURBSIDE LOWER DOOR PANEL: The inside door panels will be made of .090 aluminum sheet and covered in red/yellow chevrons. The edges of the plate will be recessed into the door frame extrusion. The panels will be fastened to the door frame with stainless steel, #10-32 UNF machine screws threaded into aircraft quality blind fasteners. Each screw will have a neoprene lock washer.

REAR ENTRY DOOR WINDOWS: The rear entry doors will have an automotive style window. The window will be recessed in a factory stamped opening. The windows will be near flush. They will be in a fixed position. Each window will have a nominal area of 320 square inches.

SIDE ENTRY DOOR WINDOW: The curb side (Right) entry door will be equipped with an automotive style window. The window will be recessed in a factory stamped opening. The window will be near flush. Window will fold out at bottom for ventilation. All glass will be tinted safety glass.

TALK THROUGH WINDOW: The Cab to Module communications window will be provided.

LOCKING PIN: The sliding cab to patient area window will have a locking pin consisting of metal 1/4" pin with a lanyard retainer to keep from losing the pin when not latched. The pin will be from the driver's side of the window. The pin will meet or exceed current Federal specification KKK-A-1822.Compartment Shelf or Floor Liner options

PLASTIC VENTILATED COMPARTMENT TILE: A plastic, black color, ventilated tile will be installed on all compartment floors and shelves. The tile is to be designed to keep equipment off the floor or shelf to promote drying of wet equipment.

COMPARTMENT TILE EDGING: The yellow plastic tile edge material will mate to the outer edge of the compartment tile and will taper to the front edge for a smooth transition.

ACTION AREA LIGHTING: A 12-volt LED light will be provided directly over the forward, street side work surface. A 12-inch swivel fixture will be provided. The light will have an on/off rocker switch on the body of the light housing.

LOCATION: The light will be mounted above the action area.

UPHOLSTERY MATERIALS: All padding and upholstered seating will be covered in 36-ounce vacuum form ready vinyl. Sewn seams in the seat covers and cushions will be minimized. Upon request, the manufacturer will be capable of supplying vacuum formed, seamless vinyl covered upholstery. The color will be color keyed to the laminate color selections made.

SEAT / BACKREST CORE MATERIAL: The vinyl covered foam will meet current Federal Specification KKK-A-1822. Seat cushions will be ergonomically contoured. All core material will be open cell, high resilience foam.

UPHOLSTERY COLOR: All padding and upholstered seating will be covered in 56-ounce vacuum form ready vinyl per the aforementioned specification. The color of the vinyl will be Blue.

TROUGH COVER: All upholstered pad that is built to cover the trough running down the center line of the vehicle separating the curbside and streetside of the patient compartment will be manufactured of 1/4" luan non voided plywood with padding and covered with 36 ounce vinyl. The color of the vinyl will be the same as the remainder of the upholstery in the patient area. The cover will be fastened to the headliner using stainless steel screws with washers that will accept button covers that are color matched to the trough cover.

UPHOLSTERY JOINERY TYPE: All padding and upholstered seating will feature upholstery covered foam that eliminates sewn, visible seams. All cushion corners will be vinyl wrapped. NO sewn seams are permitted, even at the corners. Seat cushion vinyl will be pre-formed to the cushion shape to eliminate ALL visible seams. Seat cushions with welting/piping and sewn corner seams are not acceptable since blood and other liquid form biological discharge can penetrate the seam holes and reside in the foam. All vinyl surfaces will be pulled tight against the foam, utilizing a hardwood plywood backing board. Loose fitting vinyl coverings are not acceptable.

FULL CUSHIONS: The post and wheel cups normally placed on the squad bench for secondary stretchers will be DELETED in favor of full seat cushions without cutouts. The seat cushions will be the same size as the squad bench lid and WITHOUT cutouts. The user chooses to use a backboard in lieu of a stretcher for a secondary patient.

HEAD PROTECTION - CURB SIDE ACCESS DOOR: A seamless pad specifically designed to protect the head during egress is required. The pad will consist of a two-inch thick foam sheet over a hardwood plywood backing board and covered in seamless vinyl upholstery.

HEAD PROTECTION - REAR ACCESS DOORS: A seamless pad specifically designed to protect the head during egress is required and will comply with current Federal Specification KKK-A-1822. The pad will consist of a two-inch thick foam sheet over a hardwood plywood backing board and covered in seamless vinyl upholstery.

CLOCK: There will be a clock installed inside the module over the rear patient entry doors. The clock will be an Atomic style that will include but not be limited to time and outside temperature. The clock mount will be screwed directly into the upholstery pad.

PAINT

100% PAINT FILM COVERAGE: All stages of primer and paint will cover all surfaces. Hinge mating surfaces on the doors and jambs will be painted. Bare aluminum and primer only preparation is not acceptable under door hinges. Doors will be painted without actuation handles installed and doors removed from body. Paint film thickness to be no less than 4.1 mil thickness.

PAINT SYSTEM TYPE: The paint will be Poly-Urethane type electrostatic application process without exception.

An electrostatic paint spray system is a highly efficient technology for the application of paint to specific work pieces. Negatively charged atomized paint particles and a grounded work piece create an electrostatic field that draws the paint particle to the work piece, minimizing over spray.

For this technology, an ionizing electrode, typically located at the paint gun atomizer tip, causes paint particles to pick up additional electrons and become negatively charged. As the coating is deposited on the work piece, the charge dissipates through the ground and returns to the power supply, completing the circuit. The electrostatic field influences the path of the paint particles. Because the charged particles are attracted to the grounded work piece, over spray is significantly reduced. Paint particles that pass a work piece can be attracted to and deposited on the back of the piece. This phenomenon is known as "wrap."

MECHANICAL ADHESION PROMOTER: The entire module will be degreased. Degreaser will be applied to manufacturers recommendations. The module body is to be inspected for flaws and imperfections, and to assure built to order specifications. All surfaces will be initial sanded with 180 grit paper and all imperfections repaired.

CHEMICAL ADHESION PROMOTER: The module will be hot-water washed at (140 degrees or greater). Then the aluminum Body will be treated with Alumiprep 33 acid etching followed by a complete De-ionized body rinse. To ensure all surfaces are cleaned, this step will be repeated a second time. The entire unit will be wet coated with Alodine 5700 conversion coating and de ionized water mixed. The module body is baked at 160 degrees to dry.

PRIMER: The module will then have 2 coats of epoxy primer. The unit is then baked at 140-degree metal temperature for one hour. The module body will then undergo any bodywork or filler that is required at transition(s). A third coat of epoxy primer is applied and cured. The module body will then be final sanded prior to Paint color application. Primer will be sanded with 320 grit paper to assure flat, orange peel free surface.

TOP COAT (PAINT): Entire module will be degreased. Degreaser will be applied to manufactures recommendations. Two coats of BTLV High Solids color will be applied.

CLEAR COAT: The clear coat will be manufactured by the same company as the primer and base coat. Two coats of "clear coat" polyurethane will be applied per the manufacturer's instructions.

3M POLISHING SYSTEM: Prior to 100% paint cure, the paint on the ambulance body will be sanded to 1200 grit and polished flat per 3Ms Perfect-It product program for smooth finish.

CORROSION: Anti-electrolysis procedures include but are not limited to the following.

1) Ensure all bare substrate is dry and free from contamination.
2) If bare substrate is showing signs of corrosion/oxidation, sand and remove. Use 180 grit until area is removed.
3) Thoroughly blow off areas to remove sand dust and metal shavings.
4) Thoroughly degrease to be pre-primed using the wipe-on, wipe-off method with clean white rags. (Use good quality automotive Degreaser)
5) Apply Wash primer CR using a brush to all mated surfaces. Allow to flash for 15 minutes at 70 deg Fah. Mix wash primer CR 1:1 with wash-hardener.
6) Apply Urethane caulk to all mated surfaces before assembly to reduce the possibility of corrosion.

EXTERIOR FASTENERS: All screw sites require a replaceable nylon insert for the fastener to thread into. This will isolate the dissimilar metals. Each hole will be treated with an Electrolysis Corrosion Control compound prior to installation of the nylon inserts. All exterior screws will be stainless steel.

PAINT WARRANTY: The conversion paint will be warranted to the original owner for a period of 7 years, 70,000 miles. The color shift will be no greater than Delta E of 4.0 with minimum gloss retention of 60 gloss units at twenty-degree angle. Warranty to include a 36-month Corrosion coverage with no exclusions.

UNDERCOATING: The bottoms side of the module will be undercoated, with an exception to any area affected by exhaust system direct heat. Application standards for the undercoating will be achieved or exceeded as directed by QVM or governing standards.

REFLECTIVE TAPE: The module door frames will have a three-quarter inch (3/4") wide white reflective tape applied to the door frame interior. The tape will reflect direct light at night to illuminate the outline shape of the door when the door is opened.

COMPARTMENT FINISH: Unless specified otherwise, all exterior compartment walls and backs will be constructed of .100 polished aluminum diamond plate.

MAIN BODY COLOR: The main body color will be oxford white (Ford YZ). The paint finish will be laid onto the body in a flat, orange peel free, mirror like shine on all four sides.

REFLECTIVE / PRISMATIC TAPE: The aforementioned center step will have a bright, conspicuous prismatic, reflective tape strip applied the rearward facing edge of the step. The tape will have alternating colors (Red and White). The tape color will begin and end in Red, and each segment will measure between seven and nine inches.

SPECIAL NOTE: The chassis you have selected for this order does not meet the performance requirements of the Recommended Practice for an orange main exterior stripe or outside main color of white.

Section 3.16.2 of KKK-A-1822F as revised July 1, 2017 (Change Notice 11), requires

"The exterior color of the ambulance will be gloss white in combination with a solid uninterrupted orange stripe and blue lettering and emblems. The stripe is to be a minimum of 6 inches wide. By selecting to have no orange stripe or a color other than white on the vehicle, the final configuration is non-compliant to section 3.16.2 of the Federal Specification for the Star-of Life Ambulance. Individual requirements for your State may also be applicable and should

be reviewed. Based on your chassis selection this ambulance will not be compliant with KKK-A-1822F in that specific respect.

ROOF PAINT: Color match to sides, top finish to exceed industry standard of 5 plus mill thickness.

GRAPHICS: All striping, lettering, emblems, and chevrons will be highly reflective 3M vinyl with protective luster laminate installed to match the Independence Fire & EMS Fleet.

DRIP RAILS: A bright drip rail will be provided over each compartment. Full height compartments are exempt because the perimeter roof rail drip rails will cover these compartments.

OWNER'S MANUAL: There will be shipped loose with each completed unit a card with USB flash data file with pertinent information from the build of the vehicle.

AMBULANCE MARKING PACKAGE: The vehicle will be supplied with a lettering and "star of life" symbol decal package as described in current Federal specification KKK-A-1822. The "ambulance marking package" is to be shipped loose with the vehicle. The "star of life" symbols will meet Figure 4 required by KKK-A-1822.

ROOF STAR OF LIFE: There will be installed on the module roof a reflective star of life symbol large sized.

SAFETY PLACARDS: There will be installed in the chassis cab and patient area descriptive placards in durable materials to remind occupants to fasten seatbelts and to refrain from smoking.

MANUFACTURER LOGOS: There will be self-adhesive logos provided and installed for the unit.

FIRE EXTINGUISHER: One (5) five-pound A-B-C type fire extinguisher will be supplied loose with the vehicle on delivery. Exception to C.16.1 1 Required Two fire extinguishers installed by FSAM.

REFLECTOR PACKAGE: Six reflectors will be supplied on the outside of the module body. The reflectors will be located at skirt line level and the area size will be at least 3.75 square inches. Each side will have one AMBER forward reflector and one RED rearward reflector. The rear of the body will have one RED reflector per side, located just above the diamond plate kick plate.

CONVERSION WARRANTY

7 Year, 70,000 miles Mechanical & Electrical including Workmanship.

7 Year, 70,000-mile Standard Paint Warranty.

36 Month Paint Coatings Corrosion Warranty.

20 Year Body Structure Warranty.

Shop Order

Independence Fire & EMS
120 North Sixth Street
Independence, KS 67301

Exp. Date: 03/05/2021
Quote No: 10115-0027

GENERAL:	Gen_Info	**********BID STANDARDS**********
CHASSIS:	F-4/550LB	*******F-Series 108ca CHASSIS**********
CONVERSION:	172T1LWBF	172 x 95 T-1 LWB Ford Mod Body, Conversion
BASE:	172T1LWBFP	172 x 95 T-1 LWB Ford Base Price

02/15/2021

PART NO	S	DESCRIPTION	QTY
		== **********BID STANDARDS******* - 15.015 01/12/21 ==***	***1***
00-00-0107		|-- Order Date: Post July 1, 2019	1
00-00-0113	<	|-- Ambulance Built to Star Of Life KKK-A-1882-F Certification, Latest Revision Exceptions to be noted on final sticker.	1
00-10-0015		Vehicle Quantity (Vehicles)	1
00-91-0002		BODY NUMBER:	1
00-91-0005		|-- MICKEY BODY DUE DATE :	1
00-91-0003		CHASSIS VIN NUMBER:	1
00-91-0024		***ACCOUNT MANAGER: Mikael Blevins***	***1***
00-91-0027		REFERENCE UNIT #:	1
00-91-0028	***S***	***RE-WRITE DATE : 2-3-21***	***1***
00-91-0040		SEAT BELT POSITIONS MODS	1
00-91-0042		|-- CAB SEAT BELT MOD:	1
00-91-0044		|-- Total: 2 Positions	1
00-91-0050		|-- REAR SEAT BELT MOD:	1
00-91-0054		***|-- Total: 4 Positions***	***1***
00-99-9000		Revision Level: 0 - Zero - ORIGINAL VERSION	1
00-99-9030		Change Order Level: 0 - Zero - ORIGINAL VERSION	1
		== *******F-Series 108ca CHASSIS******* - 15.015 01/12/21 ==***	***1***
01-1F-0000		Type I Modular Ambulance	1
01-AQ-1F49		***2021 Ford, F-550 4 x 4 DRW Reg Cab, 193.3" WB, XLT Turbo Diesel***	***1***
01-1F-0086		***|-- Engine: 6.7L Scorpion, Pwr Stroke V-8 Turbo Diesel - F-series 2020+***	***1***
01-1F-0092		***|-- Chassis Front engine hood Insulation Not included by OEM Ford on all XLT***	***1***
01-1F-0101		***|-- 98R- Operator Command Regeneration***	***1***
01-1F-02CM		***|-- Cab Interior Color: Medium Earth Gray F-series***	***1***
01-1F-02T5		***|-- F-Series 193" wheelbase reg cab LWB***	***1***
01-1F-04PU		***|-- GVWR: 18,000 pounds, FAWR: 7,000, RAWR: 13,660 (4x4)***	***1***
01-1F-0502		***|-- Alternator: Dual Extra heavy duty Alternator OEM Total 397Amp***	***1***
01-1F-0507		***|-- Battery; OEM Dual 750 CCA, 78 Amp Hours***	***1***
01-FL-TI06		***|-- Tire, SPARE: Matching, Random Make***	***1***
01-FM-TI02		***|-- Location: M-3 (LR) Compartment***	***1***
01-TU-0112		***|-- Jack and Tire Tools: Install behind Passenger's seat***	***1***

PART NO	S		DESCRIPTION	QTY
01-FM-4WH3			*|-- Wheel Finish: Polished SS Wheel Simulators (F-550)*	*1*
01-FM-DL01			*|-- Cab Door Locks: Power*	*1*
01-FM-DTRL			*|-- Daytime Running Lights: Ford OEM*	*1*
01-FM-DTRQ			*|-- Ford F series High center mount brake light ordered with chassis*	*1*
01-FM-TIR3			*|-- Tires: F-4/550, All season, Random Mk 225/70 R19.5, LR F*	*1*
01-OE-47LF			*|-- 47L - Ambulance Prep Package - F-Series*	*1*
01-OE-47A5			*|-- Alternators Dual (OEM) Motorcraft Ford 67B 2017+ Ford F super duty*	*1*
01-OE-47C0			*|-- Throttle Control System*	*1*
01-RR-05B6			*|-- Radio, F-series: OEM AM/FM/Satellite w/ 5 cab speakers 8" Display 2020 +*	*1*
01-SY-0005			*|-- Ford SYNC 3 Voice Activated, in vehicle connectivity 913 2020 XLT std- all*	*1*
03-EA-47PR			*|-- Side Mirrors, OEM (F-Series), Pwr Glass, Heated, manual Telescopic*	*1*
04-SU-1101			*|-- Ford OEM Front Suspension Coil Spring Std F-450/550*	*1*
04-SU-1729		<	*|-- Rear Suspension: F-550 Liquid Spring, 2017+* *NOTE: If Oxygen Lift is installed, then if the O2 Cmpt Door is open, the kneeling suspension will not dump until door is closed* Part; SUSP-DS147FS3 Rated for 13,660 GAWR	*1*
01-TT-0208		<	*|-- ""DETAIL"" Liquid Rear Suspension Decal Install* Prior to delivery, detail department is to install a Black Decal on the dash:	*1*
04-SU-0601			*|-- Kneeling Feature: Enable Switch Located in CAB console*	*1*
04-SU-0610			*|-- Kneeling Feature: Activated by TRAILING rear access door*	*1*
04-SU-0651			*|-- Exhaust system termination point: OEM Location, Rt Rear*	*1*
04-SU-2024		<	*|-- Liquid spring controller installed on driver side of console, recessed forward* see console print	*1*
04-SU-03F6			*|-- Rear Stabilize (Anti-Sway) Bar: OEM, Ford F-450/550*	*1*
12-PT-1500			*|-- OEM Certified Idle System Stickers: On Front Cab Fenders*	*1*
12-ZZ-ZZZZ			*|--*	*1*
			== 172 x 95 T-1 LWB Ford Mod Body, Conversion - 15.015 01/12/21 ==	*1*
06-EA-01FD			*Tire Valve Extensions, S/S Braided, PR, Dual Rear Wheel*	*1*
			BODY Generation 9	1
01-X0-0001		<	|-- Body Certification Provided to Specification The Body Manufacturing group certifies that this Ambulance Modular body has been constructed of materials and methods that meet or exceed the standards as required by the AEV Generation 9 Body Specification of December 11th, 2018 as published. The body shall be built and constructed to the submitted work order and the AEV Generation 9 build standards without exception. Any Deviations to the work order or Generation 9 build standards must have written authorization prior to body delivery to AEV by the AEV Body Engineer on file.	1
02-00-0002	*XS*	<	*|-- Body Build Information* **Body Number;** **Account Manager; Mikael Blevins** **Chassis Type : 2021 Ford, F-550 4 x 4 DRW Reg Cab, 193.3" WB, XLT Turbo Diesel** **Mickey Body Due Date;** **Rear Suspension: F-550 Liquid Spring, 2017+**	*1*
02-00-0003		<	|-- ALL DIMENSIONS ON ORDER WILL HAVE A VARIABLE OF + OR - 1/4" Unless specified as a minimum dimension.	1
02-B2-1O96	*S*		*Body, Mod: Type 1 LWB, 176" x 96" x 74" Interior HR - 6" Body Drop F*	*1*
02-00-0006	*S*		*|-- Headroom: 76/74" Finished Interior - Ducted A/C*	*1*
02-00-0060			*|-- Compartment and Entry door Full length Stainless Steel Hinges std*	*1*
02-00-0010	*S*	<	*|-- PARTIAL WIDE AISLE ILOS* **AISLE WIDTH TO BE 49", WITH EXTRA WIDTH SPLIT EVENLY ON EITHER SIDE OF THE AISLE**	*1*
02-B0-CC01		<	*|-- Compartment Construction: STANDARD, Unless Specified Otherwise* Sides and Back: .100 Polished Aluminum Diamond Plate Compartment Ceiling: .090 Aluminum Sheet	*1*

PART NO	S		DESCRIPTION	QTY
02-B0-SFL0		<	*|-- Compt Floors: Sweep-out, even with bottom door jamb*	*1*
			Unless Specified Otherwise.	
02-B0-CC41			*|-- Compartment floor thickness .125" standard*	*1*
02-B0-CC18			*|-- Compartment Ventilation - Flap style #VT-2495-A01, STD*	*1*
02-BC-0604			*|-- Talk through, Cab to Mod Window (T1) With Sliding Window 2017+ F*	*1*
02-BD-0120			*|-- Body Drop: 6" Both Sides, Ahead of Rear Wheels*	*1*
02-M1-CE05			*|-- Curb side Entry Door (CSE): 82.812 High x 31 Wide T1 LWB*	*1*
02-B0-09B0			*|-- Compt Door Check: Double Action Gas Shock*	*1*
04-EA-09B1			*|-- Door Swing Angle: Set to 90-100 degrees*	*1*
02-B0-CERL			*|-- Curbside Entry Door (CSE) Location : Forward of M-7 Compartment*	*1*
02-B3-MD64			*|-- Step Well, CURBSIDE Entry Door, 2-Step Diamond Plate*	*1*
05-IL-09SZ		<	*|-- ILOS Lt, Step Well: 3" Kin#4302S LED stainless steel surface mount housing*	*1*
			Light shall come on with CS door only.	
02-M1-M167	*S*	<	*|-- M-1 Compt (LF): 72 HR, 88.5" H x 22.125" W x 19.5" D*	*1*
			Splash Shield: Add a deflector plate between M-1 and M-2 to shield water splash from the compartment louvers.	
			NOTE: COMPARTMENT TO HAVE SOFT TOUCH STRIPS TO PROTECT BACKBOARDS	
			(2) STRIPS ON EACH WALL #1, WALL #2, AND FORWARD SIDE OF DIVIDER	
02-B0-CC02		<	*|-- Compartment Construction: STANDARD Diamond Plate*	*1*
			Sides and Back: .100 Polished Aluminum Diamond Plate	
			Compartment Ceiling: .090 Aluminum Sheet	
02-B0-CC08			*|-- Compartment Door Panel: Diamond Plate*	*1*
12-DC-GA10			*|-- Compartment Finish: Diamond Plate Standard*	*1*
02-B0-CC13		<	*|-- Compt Venti - Compartment Ceiling O O O O and Square Holes Horiz ARV STYLE*	*1*
			MTB NOTE: hat channel with three (4") holes above the hat at the ceiling level.	
			>> Additional Horizontal square holes in out facing vertical hat channel.	
02-B0-CC16			*|-- Compartment Door Ventilation - small punched half-moon Louvered Door*	*1*
02-B0-CC23		<	*|-- Aluminum Rain Diverter -Double Louver Column Installed in Compt Door*	*1*
			AEV to build and install	
02-B0-SWFL			*|-- Compt Floor: Sweep-out, even with bottom door jamb.*	*1*
02-B0-CC41			*|-- Compartment floor thickness .125" standard*	*1*
02-BC-10A5			*|-- Compartment Door: SINGLE DOOR, Forward hinged 2-point Latch*	*1*
02-B0-09B0			*|-- Compt Door Check: Double Action Gas Shock*	*1*
04-EA-09B1			*|-- Door Swing Angle: Set to 90-100 degrees*	*1*
04-TS-0037			*|-- Storage in Oxygen compartment Requested Exception to KKK-F Specifications*	*1*
04-TS-11B0	*S*	<	*|-- Shelf, Adjustable, Ext: .125 Aluminum, 2" Upward Lips*	*1*
			LOCATED BETWEEN DIVIDER AND WALL #3 ABOVE O2	
04-TS-4010			*|-- Shelf Bracket: CPI 90 Deg with Slotted Holes*	*1*
04-TS-14M1	*S*	<	*|-- M1 Divider, Vertical, Full compartment height, alum, Fixed*	*1*
			LOCATED FORWARD OF O2 FOR STORAGE OF BACKBOARDS	
11-YZ-0903			*|-- Non-Compliant to 3.11.3 KKK-F Storage in Oxygen Compartments Notice*	*1*
04-TS-STR5	*S*	<	*|-- Strap: 2" Webb, w/ Chrome Metal Seatbelt buckle w footman loops*	*1*
			This strap is to secure things from moving while the vehicle is in motion, and is not designed to be a crash stable securing device.	
			LOCATED BETWEEN WALL #1 AND DIVIDER FOR PURPOSES OF RETAINING BACK BOARDS	

PART NO	S		DESCRIPTION	QTY
04-TS-STR2			|-- 2" Footman Loops: Locate back from jamb	1
11-YZ-0903			|-- Non-Compliant to 3.11.3 KKK-F Storage in Oxygen Compartments Notice	1
11-ZZ-0904		<	|-- CAAS Exception C.11.3.9 Storage in an Oxygen Compartment an exception to CAAS GVS 1.0 is taken for the following condition. Subpart 9. The oxygen storage area shall be configured and used only for the main oxygen cylinder and associated plumbing.	1
05-EL-40N1		<	|-- Light, Compt, LED, M-1 (LF): Intertek Model No ZY-156-LEDC, ILOS MTB 1" Hole, Centered	1
09-ZZ-ZZZZ			|--	1
02-M1-M275	S		|-- M-2 Compt (LFM): 40.5" H x 49.75"W X 19" D	1
02-B0-CC02		<	|-- Compartment Construction: STANDARD Diamond Plate Sides and Back: .100 Polished Aluminum Diamond Plate Compartment Ceiling: .090 Aluminum Sheet	1
02-B0-CC08			|-- Compartment Door Panel: Diamond Plate	1
12-DC-GA10			|-- Compartment Finish: Diamond Plate Standard	1
02-B0-SWFL			|-- Compt Floor: Sweep-out, even with bottom door jamb.	1
02-B0-CC42		<	|-- Compartment floor thickness .25" ILOS (Heavy Duty) MTB to increase compartment floor thickness to .25 inch smooth aluminum.	1
02-B1-BIOX	S	<	|-- Diamond Plate Closeout for Drawer in A/A **Dogleg for interior drawer.**	1
02-BC-10D0			|-- Doors, Compartment, DOUBLE DOORS (std)	1
02-B0-09B0			|-- Compt Door Check: Double Action Gas Shock	1
04-EA-09B1			|-- Door Swing Angle: Set to 90-100 degrees	1
04-TS-11D3			|-- M-2 Shelf, Adjustable, Ext: .125 Alum, 2" Upward lip	1
04-TS-4010			|-- Shelf Bracket: CPI 90 Deg with Slotted Holes	1
05-EL-40N2		<	|-- Light, Compt, LED, M-2 (LFM): Intertek Model No ZY-156-LEDC, ILOS MTB Note: 1" Hole, Centered in Compartment ceiling	1
05-HB-1325		<	|-- Condenser, 12V: Pro -Air Dual Fan, FRKG 126 under the module body 70,000 BTU	1
04-HA-1300			|-- Condenser Brackets: Under M-2, angled down	1
06-RR-13Z0			|-- Standard Conduit: 1-1/2"", with pull wire	1
06-RR-13O4			|-- CONDUIT ORIGINATION POINT: M-2 compartment	1
06-RR-13T3			|-- CONDUIT TERMINATION POINT: Behind A/A Board (Panel)	1
06-RR-13Z1			|-- Conduit #2 1-1/2"" diameter, with pull wire, Type 1 units Std	1
06-RR-13O1			|-- CONDUIT ORIGINATION POINT: Electrical Circuit board cabinet	1
06-RR-13T2			|-- CONDUIT TERMINATION POINT: Behind Driver's seat	1
09-ZZ-ZZZZ			|--	1
02-M1-M375	S	<	|-- M-3 Compt (LR): 34.5" H x 35.6" W x 11.5" D **M-3 TO BE LARGE ENOUGH TO STORE SPARE TIRE** **SPARE TIRE TO BE INSTALLED IN M-3 COMPARTMENT**	1
02-B0-CC02		<	|-- Compartment Construction: STANDARD Diamond Plate Sides and Back: .100 Polished Aluminum Diamond Plate Compartment Ceiling: .090 Aluminum Sheet	1
02-B0-CC08			|-- Compartment Door Panel: Diamond Plate	1
12-DC-GA10			|-- Compartment Finish: Diamond Plate Standard	1
02-B0-SWFL			|-- Compt Floor: Sweep-out, even with bottom door jamb.	1
02-B0-CC41			|-- Compartment floor thickness .125" standard	1
02-BC-10A0			|-- Compartment Door: SINGLE DOOR, 1-point Latch	1
02-B0-09B0			|-- Compt Door Check: Double Action Gas Shock	1
04-EA-09B1			|-- Door Swing Angle: Set to 90-100 degrees	1
05-EL-40N3		<	|-- Light, Compt, LED, M-3 (LR): Intertek Model No ZY-156-LEDC, ILOS MTB Note: 1" Hole, Centered in Compartment ceiling	1

PART NO	S		DESCRIPTION	QTY
09-ZZ-ZZZZ			|--	***1***
02-M1-M575	***S***	<	***|-- M-5 Compt (RR): 72 HR, 82.8" H x 25" W x 21.0"D***	***1***
			M-5 COMPARTMENT TO BE NARROW ENOUGH TO ALLOW FOR SECONDARY PATIENT TRANSPORT ON SQUAD BENCH	
02-B0-CC02		<	***|-- Compartment Construction: STANDARD Diamond Plate***	***1***
			Sides and Back: .100 Polished Aluminum Diamond Plate Compartment Ceiling: .090 Aluminum Sheet	
02-B0-CC08			***|-- Compartment Door Panel: Diamond Plate***	***1***
12-DC-GA10			***|-- Compartment Finish: Diamond Plate Standard***	***1***
02-B0-CC13		<	***|-- Compt Venti - Compartment Ceiling O O O O and Square Holes Horiz ARV STYLE***	***1***
			MTB NOTE: hat channel with three (4") holes above the hat at the ceiling level. >> Additional Horizontal square holes in out facing vertical hat channel.	
02-B0-CC16			***|-- Compartment Door Ventilation - small punched half-moon Louvered Door***	***1***
02-B0-CC23		<	***|-- Aluminum Rain Diverter -Double Louver Column Installed in Compt Door***	***1***
			AEV to build and install	
02-B0-SWFL			***|-- Compt Floor: Sweep-out, even with bottom door jamb.***	***1***
02-B0-CC41			***|-- Compartment floor thickness .125" standard***	***1***
02-BC-10A5			***|-- Compartment Door: SINGLE DOOR, Forward hinged 2-point Latch***	***1***
02-B0-09B0			***|-- Compt Door Check: Double Action Gas Shock***	***1***
04-EA-09B1			***|-- Door Swing Angle: Set to 90-100 degrees***	***1***
04-TS-1200	***S***	<	***|-- M-5 Shelf, Adjustable, Ext: .125 Aluminum, Partial Width 2" lips upward***	***1***
			LOCATED BETWEEN DIVIDER AND WALL #3, APPROXIMATELY 5' ABOVE THE FLOOR	
04-TS-4010			***|-- Shelf Bracket: CPI 90 Deg with Slotted Holes***	***1***
04-TS-1400	***S***	<	***|-- Divider, Vertical, Full compartment height, alum, Fixed***	***1***
			DIVIDER CENTERED IN COMPARTMENT	
05-EL-40N5		<	***|-- Light, Compt, LED, M-5 (RR): Intertek Model No ZY-156-LEDC, ILOS***	***1***
			MTB Note: 1" Hole, Centered in Compartment ceiling	
09-ZZ-ZZZZ			***|--***	***1***
02-M1-M600			***|-- M-6 Compt (RRFwd): Delete***	***1***
02-M1-M782	***S***		***|-- M-7 Compt (RF): 49" H x 25.25" W x 21.0 " (BELOW FL) I/O***	***1***
02-BC-10A0			***|-- Compartment Door: SINGLE DOOR, 1-point Latch***	***1***
02-B0-09B0			***|-- Compt Door Check: Double Action Gas Shock***	***1***
04-EA-09B1			***|-- Door Swing Angle: Set to 90-100 degrees***	***1***
05-EL-40M7			***|-- Light, Compt, M-7 (RF): NONE***	***1***
02-M1-M888			***|-- M-8 Drawer (RF): None - Batteries Under Hood***	***1***
02-M1-RA03	***S***		***|-- Rear Access Doors: 48 3/4" Wide x 60 5/8" High***	***1***
02-W1-WW03		<	***|-- Wheel well Closeout: Interior Smooth DA Finish Alum, Rounded Clear coated***	***1***
			Covers must be clear coated prior to installation.	
			WELDING - CELL 1	1
04-AS-1800			***|-- Stainless Steel - Sill protection: For the following compartments***	***1***
04-AS-18NC			***|-- M-1: Left Front Compartment - Multiple Bend***	***1***
04-AS-18NE			***|-- M-2: Left Front Middle Compartment - Multiple Bend***	***1***
04-AS-18NG			***|-- M-3: Left Rear Compartment - Multiple Bend***	***1***
04-AS-18NK			***|-- M-5: Right Rear Compartment - Multiple Bend***	***1***
04-AS-18NO			***|-- M-7: Right Front Compartment - Multiple Bend***	***1***
04-AS-06A0			Fuel Fill: CPI C1045, Open Housing, Polished Bezel - (Std)	1
04-AS-0801			Urea Fill: CPI FG5301-1 Inlet Housing	1
04-AS-0370			|-- Wire/Hose Cover : Diamond Plate, Between Cab & Module	1
04-AS-0382		<	|-- Pass-Thru cab mounted wind deflector - Aluminum Diamond Plate	1
			AEV Weld shop builds and installs, Attaches to Cab side of bellows mount. Same width as bellows mount with short down turned sides. Secured on sides to bracket. Small up-turned lip at back of wind deflector. non-Painted	

PART NO	S		DESCRIPTION	QTY
04-BW-7A95		<	|-- Bumper, Rear: HD Alum Framed w/DP pontoon covers Type 1	1
			PURCHASED WITH BODY	
04-BW-FLIM		<	|-- Step, Center: 2" x 7" Grip strut, flip-up	1
			PURCHASED WITH BODY	
04-EA-1300			***|-- Dock Bumpers: Rubber 2 1/4" H x 16" W x 2" Thick***	***1***
04-BW-AF21			|-- Fenders, Rear: Polished Aluminum (T-1)	1
04-BW-DPY5		<	***|-- Skirt Rails: Polished D/P, w/ 12-inch Lights, X-series type (non-X ILOS)***	***1***
			Delete FROM MTB, AEV to build	
05-EL-SKXB		<	***|-- Skirt rail Lights, Front Pair 12" LED***	***1***
			(1) Each side, forward position, in front skirt rail	
05-EL-SKV0		<	***|-- (2) Skirt rail LED Strip Lights, Red/White 12" X-series***	***1***
			NOTE: Mount Red On TOP and Clear on Bottom	
05-EL-SKXC		<	***|-- Skirt rail Lights, Middle Pair 12" LED***	***1***
			(1) Each side, rear position, in front skirt rail	
05-EL-SKV0		<	***|-- (2) Skirt rail LED Strip Lights, Red/White 12" X-series***	***1***
			NOTE: Mount Red On TOP and Clear on Bottom	
05-EL-SKXD		<	***|-- Skirt rail Lights, Rear Pair 12"-LED***	***1***
			(1) Each side, in rear skirt rail	
05-EL-SKV0		<	***|-- (2) Skirt rail LED Strip Lights, Red/White 12" X-series***	***1***
			NOTE: Mount Red On TOP and Clear on Bottom	
05-EL-SKZ1			***|-- Skirt rail Lights Switched: Separate Switch in the Cab console***	***1***
05-EL-SLHX			***|-- LED Ground Lights: (6) Kinequip White 12" -LED lights, In Skirt rails x***	***1***
05-EL-SLGY	***S***	<	***|-- LED Ground Lights Switched:***	***1***
			MARKER LIGHTS ON AND IN PARK	
04-BW-DP04			|-- Rear Kick Plate: Polished Aluminum Diamond Plate	1
04-BW-TA03			|-- Recessed Tag Area: Polished Aluminum Diamond Plate	1
04-BW-TA04			|-- Location: Centered in the kick plate	1
05-EL-44TN			|-- Tag Light: Kinequip LED #132703C	1
04-BW-DP92		<	|-- Corner Caps: 24.0" High, Alum Diamond Plate	1
			If there is a body drop, add the appropriate height to Corner Caps.	
04-BW-DP93		<	|-- Front Stone Guards: 24.0" High, Alum Diamond Plate	1
			If there is a body drop, add the appropriate height to Stone Guards.	
04-EA-1460			***|-- Running Boards: DP F-Series Modular - 2 Door 2017+***	***1***
04-EA-1120			***|-- Mud Flaps Front: NONE***	***1***
04-EA-1132			***|-- Mud Flaps Rear: Modular, Rubber AEV LOGO***	***1***
05-EL-3904		<	***|-- Lights, Cab Step: 2" White LED, chrome flange mounted in box front, Whelen***	***1***
			Activate by Cab Doors. Constant Hot.	
04-EA-09A0			(2) Rear Door Hold Opens: Grabber Style, 1 on each door	1
			EXTERIOR LIGHTING / HEAT/AC / INSULATION - CELL 2	1
05-EL-1800			CORNER CAP LED ICC/WARNING LIGHTS	1
05-EL-18F0			|-- Front Corner Cap LED ICC/Warning Lights: Warnings RED/WHITE	1
05-EL-18F1		<	|-- Front Center ICC Lts: (3) AMBER Kinequip LED No 112401A,	1
			Switch w/ Headlights.	
05-EL-18R5			|-- Rear Corner Cap LED ICC/Warning Lights: Warnings RED/AMBER	1
05-EL-18R1		<	|-- Rear Center ICC Lts: (3) RED Kinequip LED No 112401R	1
			Switch w/ Headlights	

PART NO	S	DESCRIPTION	QTY
06-SW-CC01		|-- ICC Warning Lights Switched: Primary Only	1
05-EL-2310		***Tail Lights, Whelen LED Combinations , ILOS,***	***1***
05-EL-19MO	<	***|-- Side Marker Lights: (2) RED Kinequip LED No 112401RD***	***1***
		Switch w/ Headlights.	
05-EL-2314		***|-- Whelen 600 Series, Tail Lights***	***1***
05-EL-0201		***|-- Flanges: (6) Chrome for above 600 Series Tail lights - INCL***	***1***
05-EL-2320		***|-- Stop/Tail, Whelen 600 Series, LED, Pair, Maximum Populated***	***1***
05-EL-2326		***|-- Turn, Whelen 600 Series, LED, Pair Horizontal - with turn arrow***	***1***
05-EL-2333		***|-- Back up, Whelen 600 Series, LED, Pair, Minimum Intensity***	***1***
05-EL-2504		***LED Lights, Door Panel Warning, Interior***	***1***
05-EL-252B	<	***|-- Red/White LED POB Light, Each***	***3***
		Must state locations for light.	
		Interior or Exterior and Location	
		ALL POB LIGHTS TO BE LOCATED ON THE LOWER OUTER CORNER OF EACH SPECIFIED DOOR	
		(1) CSE DOOR **(1) EACH REAR ENTRY DOOR**	
		(3) TOTAL	
05-EL-2564		***|-- Lights Switched with Entry Door Switch***	***1***
05-EL-4300		Patient Area Turn and Stop Light Indicator: None	1
05-EL-43SR	<	Third (3rd) Brake Light: Kinequip KFL-3BLO1 LED	1
		LOCATION: Over Rear Access Doors. Do not cut traditional hole. Just screw and wire holes required.	
05-EL-43T2		|-- Light is to steady burn, no flash	1
05-EL-4580		***SCENE/FLOOD LIGHTS (Whelen 900 LED-24 Series)***	***1***
05-EL-45L6	<	***|-- Left Scene Lights: (2) LED-24, Whelen 900***	***1***
		Chrome flanges for this light included	
06-EL-18LF		***|-- Left Flood Activate: Left Flood Switch***	***1***
05-EL-45T6	<	***|-- Right Scene Lights: (2) LED-24, Whelen 900***	***1***
		Chrome flanges for this light included	
06-EL-18RT		***|-- Right Flood Activate: Right Flood Switch and open CSE Door***	***1***
05-EL-46R6		***|-- Rear Load Lights: (2) LED-24, Whelen 900***	***1***
06-EL-18RE		***|-- Activate: Rear Flood Switch, Reverse and Lead RA Door***	***1***
06-EL-1800		***|-- Add Activation: Rearward Left and Right scene lights. come on w/ Reverse***	***1***
05-HB-00F6	<	AC (HVAC): Pro-AIR Ducted in Ceiling - Vert.on floor behind attend seat -T1 Ford	1
		With Electric heater valve Mounted Behind the Attendant Seat Base	
05-HA-0406		|-- Water Pump: Installed required	1
05-HA-0815	<	***|-- UV-C Air & Surface Disinfection ADU-136 mounted in ceiling***	***1***
		designed for use in UNOCCUPIED spaces. >>>>>requires door interlocks, requires deep window tint to prevent EMT entry injury.	
05-HA-1306		|-- A/C Condenser: See M2 Cmpt for Condenser Information	1
05-HA-13X6		|-- Intermotive Module BCVC502A :Installed 2020 +	1
05-HA-14C0		|-- AC COMPRESSOR: Tee into OEM	1
05-HB-14PA		|-- AC Evaporator: Pro-Air (AC/Heat unit) w/ dual fans -	1
05-HA-1404		|-- Heater Hoses: EPDM - Nomex Rubber (per Ford QVM)	1
05-HA-14A0		|-- Side Plenum Grille, Return Air: Stamped Powder Coated Steel	1
05-HA-14B1		|-- Filter, Washable Carbon Pre-Filter	1
05-HA-15A0		|-- Ducted AC Delivery: insulated & foil wrapped, 10 registers	1
10-HA-0304	<	***|-- Thermostat, Rear A/C, Digital, Class 1 LX-1, Includes Front Also***	***1***
		Thermostat located in A/A	

PART NO	S		DESCRIPTION	QTY
05-IL-0051			CEILING PANELS: ACM Gloss White	1
05-IL-0265	***S***	***<***	***|-- Dome Lights, LED K-EDGE (5) CURBSIDE (4) STREETSIDE ILOS***	***1***
			NOTE: LEFT AND RIGHT DOME LIGHT BANKS TO BE SEPARATELY SWITCHED	
			(9) TOTAL LIGHTS - (5) CURBSIDE AND (4) STREETSIDE - SEE DRAWING	
06-EC-2500		***<***	***|-- Timer: Electronic, 15 Min with momentary switch***	***1***
			Located on curbside wall at head of squad bench.	
06-EC-09P1			***|-- Timer to Power: Street side DOMES, High intensity***	***1***
06-RR-0700			***|-- (2) Speakers: Stereo, patient compartment, in center pad***	***1***
10-RR-0600			***|-- Volume Control, Stereo: in A/A, For Rear speakers***	***1***
09-MH-0801			***|-- IV Hook No 1: CPI Rubber IV 2008-1(Recessed Mount), ILOS***	***1***
29-MH-1000			***|-- LOCATION: Over head/chest area, primary patient on COT***	***1***
09-MH-0802			***|-- IV Hook No 2: CPI Rubber IV 2008-1(Recessed Mount), ILOS***	***1***
09-MH-08P2			***|-- LOCATION: Over head/chest area, secondary patient on S/B***	***1***
09-MH-2AC6		***<***	***|-- Recessed C/S Grab Rail, ceiling: 1.25 Dia..... 3 pt, 72in, Yellow Antimicrobial***	***1***
			Grab Rail will be recessed in a ABS pan.	
09-MH-2AS2		***<***	***|-- Streetside Non-Recess Grab Rail, 1.25 Dia..... x 72", 3 point, Yellow***	***1***
			Mount in standard location on the street side of the center pad in ceiling.	
	S	***<***	***Insulation PKG: Generation 9 Body Std.***	***1***
			2" BLUE BLOCK FOAM TO INCLUDE COMPARTMENT DOORS AS WELL	
05-IN-1STD			|-- Insulation: Circumferential PKG, Single Layer Reflective w/ Air cell core	1
05-IN-3STD		***<***	***|-- Blue Block foam ENTRY DOOR Insulated: 2" Thick IATS***	***1***
			For all entry doors, the blue block foam insulation shall be fitted tightly against the structural members to maximize R-value effectively. Gap spacing round each cell within the structure grid and the block foam shall not exceed 1/2" with tolerance of quarter inch..	
05-IN-4ST9			|-- Insulation Sound Deadening: Generation 9 Floor	1
05-IN-5STD		***<***	***|-- Blue Block foam WALLS/CEILING Insulated PKG: 1" Thick, IATS Reflective***	***1***
			The block foam insulation shall be fitted tightly against the structural members to maximize R-value. Gap spacing round each cell within the structure grid	
05-IN-6STF		***<***	***|-- Stepwell Insulation: Urethane Froth Insulation, IATS***	***1***
			MTB to spray urethane froth insulation, underside of step well area.	
			MTB option #7208738	
05-LB-6100		***<***	***|-- Light Bar Alternative, (4) Across Front, 92" or wider***	***1***
			In Addition to Standard Front Three (3) Body Warning Lights. Seven (7) Total Lights Across Front of Body.	
05-LB-6222			***|-- Front of Module SLED System - 92" and wider (4)***	***1***
05-LB-6652			***|-- Whelen, 900 Super LED, (4) RED/BLUE Split Over/Under, Red on Top***	***1***
05-LB-6897			***|-- Flasher for LED front of module: None***	***1***
05-PH-LS0F			***|-- Flanges: (4) 900-Chrome Flanges for lights above***	***1***
05-PL-LV27			***|-- Light: Whelen 900, Super RED/BLUE LED/CLEAR LENS, Programmable IATS***	***4***
05-FS-1212			***|-- Opt A Programmable Lights Split Color - Color 1 Flashes Opposite Color 2***	***4***
05-PL-LX00			***|-- Lens color for Above LED Light to be: Clear***	***4***
05-PL-LXZ6			***|-- LED Color for Above 900 Super LED: RED/BLUE***	***4***
05-LB-6900			***|-- Alternative Lightbar Switching, Prim/Sec***	***1***
05-PA-LB0B			|-- Rear Light Bar: NONE	1
05-SY-LTLF			***WHELEN LED WARNING LIGHT SYSTEM - F-series LTD***	***1***
05-FS-0710		***<***	***|-- Flasher: None, All Super LED's Are Programmable-***	***1***
			Fast, Alternate within each fixture, Random Flash unless otherwise specified. >> Customer to verify chosen flash pattern.	
05-FS-10P4			***|-- Flash Pattern: None, Internal Light Head Flasher***	***1***
06-SW-PS01			***|-- Warning Light SWITCH: center console, Primary / Secondary***	***1***
05-PH-LT06			***|-- (2) Grille Lights: Whelen TIRLIN3, LED, Chrome Hsg***	***1***

PART NO	S	DESCRIPTION	QTY
05-FS-1100	S	|-- Program #1	1
05-PH-LT0A		|-- Lights: (2) Whelen TIRLIN3, RED LED, Chrome Hsg	1
05-PL-LX00		|-- Lens color for Above LED Light to be: Clear	1
05-PH-LT0E		|-- Additional Lights: (2) Whelen TIRLIN3, RED LED, Chrome Hsg	1
05-PH-LA11		|-- Red LED	1
05-PL-LX00		|-- Lens color for Above LED Light to be: Clear	1
05-PH-LT29		|-- (2) Intersection Lights: Whelen 5TIR6, LED, 15° Cast Housings F-Series	1
05-PH-LR00	<	|-- Intersection Housings: (2) Cast, 5TIR6 Lights, 15°, F-Series 2017+	1
		HOUS-52717 HOUS-52718 for LED TIR6	
05-PH-LT0J	<	|-- Lights: (2) Whelen 5TIR6, RED LED/CLEAR LENS ILOS	1
		Default Program #25 Steady Burn	
05-PL-LX00		|-- Lens color for Above LED Light to be: Clear	1
05-PH-LT4H		|-- Add 'l Side Warning Lights, : NONE	1
05-PL-LU30		|-- (1) Center Front Warning Light : Whelen 900 (Super LED)	1
05-PH-LS0H		|-- Flange: (1) 900-Chrome Flanges for light above	1
05-PL-LXF1		|-- Light: Whelen 900, Super WHITE LED/CLEAR LENS, Programmable ILOS	1
05-PL-LX00		|-- Lens color for Above LED Light to be: Clear	1
05-PL-LXZ1		|-- LED Color for Above 900 Super LED: WHITE	1
25-PH-LT84		|-- LED Lights: Programmable, Single Light	1
05-PL-LU40		|-- (2) Front Warning Lts: Whelen 900, (Super LED)	1
05-PH-LS0A		|-- Flanges: (2) 900-Chrome Flanges for lights above	1
05-PL-LXG7		|-- Light: Whelen 900, Super RED/BLUE LED/CLEAR LENS, Programmable ILOS	2
05-FS-1212		|-- Opt A Programmable Lights Split Color - Color 1 Flashes Opposite Color 2	2
05-PL-LX00		|-- Lens color for Above LED Light to be: Clear	2
05-PL-LXZ6		|-- LED Color for Above 900 Super LED: RED/BLUE	2
05-PL-LU50		|-- (4) Side Warning Lts: Whelen 900, (Super LED)	1
05-PH-LS0F		|-- Flanges: (4) 900-Chrome Flanges for lights above	1
05-PL-LXG7		|-- Light: Whelen 900, Super RED/BLUE LED/CLEAR LENS, Programmable ILOS	4
05-FS-1212		|-- Opt A Programmable Lights Split Color - Color 1 Flashes Opposite Color 2	4
05-PL-LX00		|-- Lens color for Above LED Light to be: Clear	4
05-PL-LXZ6		|-- LED Color for Above 900 Super LED: RED/BLUE	4
05-PL-LU54		|-- Rear Intersection Lights, : NONE	1
05-PL-LU60		|-- (2) Rear Warning Lts: Whelen 900, (Super LED) ilos	1
05-PH-LS0A		|-- Flanges: (2) 900-Chrome Flanges for lights above	1
05-PH-LT6A		|-- Location: REAR, (1) in EACH Upper outer corner.	1
05-PL-LXG7		|-- Light: Whelen 900, Super RED/BLUE LED/CLEAR LENS, Programmable ILOS	2
05-FS-1212		|-- Opt A Programmable Lights Split Color - Color 1 Flashes Opposite Color 2	2
05-PL-LX00		|-- Lens color for Above LED Light to be: Clear	2
05-PL-LXZ6		|-- LED Color for Above 900 Super LED: RED/BLUE	2
05-PL-LU61		|-- (2) Rear Warning Lts: Whelen 900, (Super LED), IATS	1
05-PH-LS0A		|-- Flanges: (2) 900-Chrome Flanges for lights above	1
05-PH-LT6B		|-- Location: REAR, (1) aligned w/ EACH upper window in RA doors.	1
05-PL-LV26		|-- Light: Whelen 900, Super RED/BLUE LED/CLEAR LENS, Non-Programmable IATS	2
05-FS-1202	<	|-- Opt A Non- Program Lights Split Color - Color 1 Flashes Opposite Color 2	2
		Color 1 Flashes opposite to Color 2 Any part of this light is not synched with any other light.	
05-PL-LX00		|-- Lens color for Above LED Light to be: Clear	2
05-PL-LXZ6		|-- LED Color for Above 900 Super LED: RED/BLUE	2
06-EL-2497	<	|-- Brake Light Override: Wire into rear warning lights above LX-1 elec syst.	1
		Program light as required, LX-1 system programmed to Brake-Override for this light.	

PART NO	S	DESCRIPTION	QTY
06-EL-2501		***|-- Override Function: During ALL modes of operation***	***1***
05-PL-LU72		***|-- (1) Rear Center AMBER Warning Lt: Whelen 900, (Super LED)***	***1***
05-PH-LS0H		***|-- Flange: (1) 900-Chrome Flanges for light above***	***1***
05-PL-LXF7		***|-- Light: Whelen 900, Super AMBER LED/CLEAR LENS, Programmable ILOS***	***1***
05-PL-LX00		***|-- Lens color for Above LED Light to be: Clear***	***1***
05-PL-LXZ3		***|-- LED Color for Above 900 Super LED: AMBER***	***1***
25-PH-LT84		***|-- LED Lights: Programmable, Single Light***	***1***
05-ZZ-ZZZZ			1
		ELECTRICAL - CELL 3	1
06-00-0004		|-- Customer Supplied Part(s) : NONE	1
07-00-0182		***|-- Custom design wood console included in Order***	***1***
06-AL-4802	<	***Hand Held Spot Light: Eagle Eye, Rubber Housing, Hard Wired to console***	***1***
		Hook-07: Clip-onto spot light ring	
05-EL-4801		***|-- Hardwire the light to the center console***	***1***
06-AL-4900	<	|-- Cab Spot Light: None	1
		Not Require by KKK-F	
06-AM-SAHN		***|-- AEV Traumahawk Telematics Declined, Not required***	***1***
06-BA-3F41		Batteries: 2 - Battery System - Type I Diesel only	1
06-BA-3F53		|-- Batteries: (2) Underhood (Type I)	1
06-BA-3FJ1	<	|-- Battery Make: (2) OEM	1
		Battery Brand must match.	
06-BA-Q631	<	|-- Battery Switch: Cole Hersee 2484-16 Paddle, T1 center console	1
		Cole Hersee Paddle style battery switch powers up and shuts down the CONVERSION only! Chassis related circuits shall remain wired in the OEM configuration per Ford QVM Bulletin No 63.	
		SWITCH LOCATION: Drivers' side of center cab console.	
06-BA-3FW4		|-- Batteries Wired: Parallel for higher amperage	1
06-EB-13M2	<	***Cabinet Light(s): "DAY BRIGHT" LED White Light, Each***	***6***
		Must state locations for light(s) :	
		CABINETS: A/D, B, CABINET OVER CPR SEAT, K-1, K-2, I-2	
		(6) TOTAL	
		NOTEI I-2 CABINET LIGHTS TO FUNCTION AS M-7 COMPARTMENT LIGHTS IATS	
		NOTE: DAYBRIGHTS TO WORK WITH CHECK OUT TIMER AND DOOR OPEN CHECK OUT TIMER IATS	
05-IL-13S0	<	***|-- Cab Interior Lights Switching: in Patient Area Console***	***2***
		(1) SWITCH LOCATED IN EACH PATIENT COMPARTMENT SWITCH PANEL LOCATION	
06-EB-13N2	<	***|-- Light Track: "DAY BRIGHT" LED Light Track: Installed***	***6***
		Must state cabinet choice locations	
06-EC-056B		***PWR Door Locks: Module Doors - Full Mod T1 Ford***	***1***
06-EC-050A	<	***|-- Door Locks, Tied into OEM System Type 1 Ford***	***1***
		Module power locks are tied to the Chassis power lock system	
06-EC-0512	<	***|-- OEM Key Fob: Included w/Chassis Unlock Mod Doors***	***1***
		Must also operate the Module Power Door Locks Optioned.	
06-EC-05C9		***|-- Door Lock Switches : Integrated in Interior Entry door Handles***	***1***
06-EC-05K0		***|-- ONLY the following doors shall have power door locks:***	***1***
06-EC-05M1		***|-- Electric Door Lock: (M-1) Left Front Compartment***	***1***
06-EC-05M2		***|-- Electric Door Lock: (M-2) Left Middle Compartment***	***1***

PART NO	S		DESCRIPTION	QTY
06-EC-05M4			***|-- Electric Door Lock: (M-3) Left Rear Compartment***	***1***
06-EC-05M6			***|-- Electric Door Lock: Rear Access Doors***	***1***
06-EC-05M7			***|-- Electric Door Lock: (M-5) Right Rear Compartment***	***1***
06-EC-05N0			***|-- Electric Door Lock: Curbside Access Door***	***1***
06-EC-05N1			***|-- Electric Door Lock: (M-7) Right Front Compt***	***1***
06-EC-2800		<	***Door Unlock Switch, Momentary, Exterior, hidden***	***1***
			NOTE: Installation of Remote Door Lock Switch feature may increase likelihood of unauthorized entry into vehicle. By checking this option, purchaser further agrees to hold REV or chassis manufacturer harmless for any loss of vehicle or contents caused by unlawful access.	
06-EC-0802			***|-- Location: Front Grille/Bumper Area***	***1***
06-EC-3015		<	Ford OEM backup Camera installed, Cable, Displays into OEM Radio	1
			Ordered with Chassis. This product has no BRAKE light capability.	
06-EC-CBZ2	***XS***	<	***Circuit Board, 12V: Multiplex LX1 F3/4/550 ILOS***	***1***
			Includes the Following Items, please add to order:	
			All the following need to be added as usual:	
			Rear Digital Thermostat/Control for A/C, includes front also	
			Door Open 15, minute check out timer for STREETSIDE DOMES ON HIGH	
			Oxygen Contents Gauge front and back	
			SWITCH PANEL APPROVAL DRAWINGS NEEDED	
			NOTE: DAYBRIGHTS TO WORK WITH DOOR OPEN TIMER IATS	
			NOTE: PATIENT AREA CAMERA VIEWED THROUGH LX-1	
06-EC-1304			***|-- Voltage Monitor, LX-1, w/ Warning Light***	***1***
06-EC-2215			***|-- LX-1 Standard Module door Open Alarm and Icon on Front Display***	***1***
06-EC-31F0	***S***		***|-- Back Up Camera: OEM***	***1***
06-EC-31FW		<	***|-- Patient Area Bullet Camera: Voyager VCCYL37***	***1***
			Fixed position camera	
06-EC-31I2			***|-- Camera Mounted Toward: Rear (Faces Forward)***	***1***
06-EC-CB07			***|-- Circuit Protection, 12V: FET - Auto-reset***	***1***
06-EC-SPA7			***|-- LX1 Main Switch Panel Location :***	***1***
06-EC-SPA8			***|-- In Cab Console***	***1***
06-EC-SPAA			***|-- On Cab Console with ramp wedge F series***	***1***
06-EC-SPZ0	***S***	<	***|-- Patient Area LX1 Panel:***	***1***
			APPROVAL DRAWINGS NEEDED FOR ALL THREE SWITCH PANEL LAYOUTS	
06-EC-SPZ1			***|-- Pt Area LX1 Switch Panel: One Standard In Patient Compartment***	***1***
06-EC-SPA1			***|-- Switch Panel Located: Streetside A/A***	***1***
06-EC-SP70			***|-- Patient area switch panel mounted :flat to action wall std***	***1***
06-EC-SPZA		<	***|-- 2nd Pt Area LX1 Switch Panel: To be Located***	***1***
			PANL-LX1	
06-EC-SPA3			***|-- Switch Panel Located: Curbside***	***1***
06-EC-SP71			***|-- Patient area switch panel mounted on angled cabinet***	***1***
06-FS-1106			***|-- Sequencer, LX1, with load manager,***	***1***
06-RR-240X			***|-- Type I - CAB Wood Console: Pass Thru - 14" OAW ILOS***	***1***
07-RR-24A0			***|-- Console Finish: Black, Textured "Easy Grip"***	***1***
07-RR-020F			***|-- Add-on Console: Type 1***	***1***
07-RR-02A0			***|-- Drink Holder: (2) In Add-on Console, Big Gulp Size***	***2***
07-RR-02A5			***|-- Drink Holder Location: Front***	***2***
07-RR-02F1			***|-- Note Book Slot: Single - Full width by 8" wide***	***1***
07-RR-02F3			***|-- Double removable Lexan Divider(s)***	***1***
07-RR-2301			***|-- Customer Radio: Space for Customer installed Radio Heads***	***1***
07-RR-2355			***|-- Glove Storage: (4) Glove Box Storage Across Rear of add on console***	***1***
07-RR-24A0			***|-- Console Finish: Black, Textured "Easy Grip"***	***1***
07-ZZ-ZZZZ			***|--***	***1***
07-ZZ-ZZZZ			***|--***	***1***
06-EC-4300			Back-up Alarm: Standard 102DB	1
06-EC-43B0			|-- Cut Off Switch: Auto reset ,momentary style	1

PART NO	S		DESCRIPTION	QTY
11-ZZ-0933		<	|-- CAAS GVS V2.0 Exception C.16.1 Reset of Back-up Alarm Installation of a reset of a back-up alarm shall cause an exception to the GVS 2.0 Standard for C.16.1 for this instance when a vehicle is shifted into reverse.	1
06-EC-GR01			Ground Straps, Module to Frame: (Qty 4) Braided	1
06-IA-0001			Converter , 125V to 12V: NONE	1
06-IG-0250		<	***Inverter : Vanner LIFESINE 1100 Pure Sine Wave, w 55watt 3 stage charger*** >.Limited availability, April/ May 2021	***1***
06-EC-03AS			***|-- Portable Equip Charging Circuits: Included in Inverter***	***1***
06-EC-03AA			***|-- PREWIRE LOCATION: (1)Cab Console, (1) Behind A/A***	***1***
06-EC-03C9		<	***|-- Portable Equip Pwr Source: Ignition and/or Shoreline*** Reference 3.7.7.2 and Figure 7 in KKK-A-1822E	***1***
06-IG-03A0			***|-- Battery Charger/Conditioner: 55A - Built into Inverter***	***1***
06-IG-0003			***|-- Built-in Battery Charger: Enable - Wire to Batteries***	***1***
06-IG-04L0			***|-- Inverter Location: M-2 (LFM) Compartment***	***1***
06-IG-04M0			***|-- On Floor near wall #1***	***1***
06-IG-04C0			***|-- Lexan Cover: Over Inverter***	***1***
ZZ-ZZ-ZZZZ			***|--***	***1***
06-MC-0900	***S***	***<***	***Low Voltage Indicator: Amber with Buzzer*** **NOTE: BUZZER TO SOUND WHEN VOLTAGE DROPS BELOW 11.8 VOLTS FOR MORE THAN 120 SECONDS**	***1***
			COMMUNICATION RADIO(S) RELATED	**1**
			RADIO POWER	**1**
06-EC-03A0			|-- Radio Power No 1: 30A, Pos and Neg, 10 awg Wires	1
06-EC-03B0			|-- Radio Power Source: Battery Switch Hot	1
06-EC-03J0			***|-- LOCATION: Inside Cab Center Console***	***1***
06-EC-03A2			|-- Radio Power No 2: 30A, Pos and Neg, 10 awg Wires	1
06-EC-03B0			|-- Radio Power Source: Battery Switch Hot	1
06-EC-03J0			***|-- LOCATION: Inside Cab Center Console***	***1***
06-EC-03A3			***|-- Radio Power No 3: 30A, Pos and Neg, 10 awg Wires***	***1***
06-EC-03B0			***|-- Radio Power Source: Battery Switch Hot***	***1***
06-EC-03J0			***|-- LOCATION: Inside Cab Center Console***	***1***
			ANTENNA LEADS	**1**
06-RR-1710		<	***|-- Antenna Base w/ Coaxial Cable: KE794 #1*** MOUN-KE794	***1***
06-RR-01P0			***|-- Port Plate: None - Access thru center upholstery panel***	***1***
06-RR-1760		<	***|-- Roof Location: Roof Port #1*** MOUN-K794 Line up with edge of curbside entry door, centered side to side as near as possible.	***1***
06-RR-1772		<	***|-- Termination Point: Inside Center Console*** MOUN-K794	***1***
06-RR-1712		<	***|-- Antenna Base w/ Coaxial Cable: KE794 #2*** MOUN-KE794	***1***
06-RR-01O2		<	***|-- ORIGINATION POINT: Roof Port No 2*** Roof Port No 2 is located approximately 24 inches back rearward of roof port #1.	***1***
06-RR-01P0			***|-- Port Plate: None - Access thru center upholstery panel***	***1***
06-RR-1772		<	***|-- Termination Point: Inside Center Console*** MOUN-K794	***1***
06-RR-1714		<	***|-- Antenna Base w/ Coaxial Cable: KE794 #3*** MOUN-KE794	***1***

PART NO	S		DESCRIPTION	QTY
06-RR-01O3		<	***|-- ORIGINATION POINT: Roof Port No 3***	***1***
			Roof Port No 3 is located approximately 24 inches back rearward of roof port #2.	
06-RR-01P0			***|-- Port Plate: None - Access thru center upholstery panel***	***1***
06-RR-1772		<	***|-- Termination Point: Inside Center Console***	***1***
			MOUN-K794	
06-RR-1809			|-- Patient Area Radio : None	1
06-SO-0000			125V SHORE LINE AND OUTLETS	1
06-SO-0105		<	***|-- Shore Line Inlet: 20A T blade w/ Ground - ILOS***	***1***
			plug-5374BK ship loose	
06-SO-00L6		<	***|-- Inlet location: Front of Modular Box, Angled ADD-On box***	***1***
			See "Drawing"	
			Front of module body, Angled box for shorelines	
06-SO-0801		<	***|-- Indicator Light, Shore line: Weather proof, power by SL, Green***	***1***
			Indicator light located above shore line inlet.	
06-SO-1400			|-- **125 Volt OUTLETS**	1
06-SO-13M1		<	***|-- 125 VAC W Dual USB & Power Light Outlet, No 1: 20A, Hospital Grade, White ILOS***	***1***
			All 125 VAC outlets shall be back lighted when power is applied to the outlet.	
			Dual 5A/5V USB port power	
			Green LED power light Heavy duty	
06-SO-14L1			***|-- LOCATION: Action Area, standard location***	***1***
06-SO-14O2			***|-- Outlet mounting ORIENTATION: Vertical***	***1***
06-SO-13M2		<	***|-- 125 VAC W Dual USB & Power Light Outlet, No 2: 20A, Hospital Grade, White ILOS***	***1***
			All 125 VAC outlets shall be back lighted when power is applied to the outlet.	
			Dual 5A/5V USB port power	
			Green LED power light Heavy duty	
06-SO-14L4			***|-- LOCATION: Telemetry Area, (See Drawing)***	***1***
06-SO-14O2			***|-- Outlet mounting ORIENTATION: Vertical***	***1***
06-SO-1403			***|-- 125 VAC Outlet, No 3: 15A, Hospital Grade, IVORY***	***1***
06-SO-14L2	***S***	<	***|-- LOCATION: Curbside, see Drawing***	***1***
			LOCATED ABOVE RF ALS COUNTER TOP	
06-SO-14O2			***|-- Outlet mounting ORIENTATION: Vertical***	***1***
06-SO-1603	***S***	<	***|-- Outlet, Power Strip, 125 VAC, 6-plex 3 FOOT cord Hospital Grade IATS***	***2***
			Surface mount the power strip.	
			Please declare if outlet for plug in can be exposed or hidden.	
			Location of power strip ??????????????????????	
06-SO-1491			***|-- 125 VAC Outlet, No : 15A, Hospital Grade, IVORY, For Power Strip***	***2***
06-SO-14L7	***S***	<	***|-- LOCATION: Special Location - (See Drawing)***	***2***
			(1) POWER STRIP INSIDE THE RF ALS CABINET	
			(1) POWER STRIP IN THE CHASSIS CAB, BEHIND THE PASSENGER SEAT	
06-SO-14O2			***|-- Outlet mounting ORIENTATION: Vertical***	***2***
06-SO-1100			**INTERIOR 12 Volt OUTLETS**	1
06-SO-10XZ			***|-- 12 Volt outlets two separate single outlets***	***1***
06-SO-10Y0			***|-- 12V Outlet, No 1: Power Point Single - Wire thru Med Isolator***	***1***
06-SO-11L1			***|-- LOCATION: Action Area, standard location***	***1***
06-SO-14O2			***|-- Outlet mounting ORIENTATION: Vertical***	***1***
06-SO-1910			***|-- Power Source: Medical Isolator , Batt Sw Hot***	***1***
06-SO-1102			***|-- 12V Outlet, No 2: Power Point - Wire thru Med Isolator***	***1***
06-SO-11L2	***S***	<	***|-- LOCATION: CS Wall panel, see print***	***1***
			NOTE: WILL BE ABOVE THE RF ALS COUNTER TOP	
06-SO-14O2			***|-- Outlet mounting ORIENTATION: Vertical***	***1***

PART NO	S		DESCRIPTION	QTY
06-SO-1913			***|-- Power Source: The SAME as outlet No 1***	***1***
06-SS-070A			***Siren: Whelen, WS295HFSC9, F-Series***	***1***
06-SS-DF00		<	***|-- Siren Speakers: Federal # ES100-ESMFT-EF, Ford F-350/450/550 2017 ILOS***	***1***
			These speakers require a recessed mount requiring a hole in the outer end of the front bumper. SPEA-ES100ESMFT	
06-SS-SW01		<	***|-- Siren / Horn Switch: In Cab Console***	***1***
			Siren Functions OR OEM Horn	
06-SS-SW04			***|-- microphone clip not installed Tie to Siren Microphone cord.***	***1***
06-SS-1313			***Air Horn System: BUELL - F1***	***1***
06-SS-1304	***S***	<	***|-- Air Horns ACTIVATION: Switch in Console***	***1***
			WHITE ROCKER SWITCH IN CONSOLE	
06-SS-1305			***|-- Air Tank Mounted to Frame Rail***	***1***
06-SS-1310			***|-- Emergency Master Hot***	***1***
06-SS-1340			***|-- Compressor: Buell #6540, 20% Oil less Intermittent Duty***	***1***
06-SS-1346			***|-- Compressor Location: M2 Compartment***	***1***
06-SS-13F2	***S***	<	***|-- Air Horn Location: Under Front Bumper, F-450 and F-550 2017 +***	***1***
			For F-550 may require recess cut into ABS valance - Air Dam.	
			NOTE: EXACT TRUMPET LOCATION TBD	
06-SS-1321			***|-- Left Air Horn: 10" Buel Strombos Horn, Chrome, No 1061 (493 Hz)***	***1***
06-SS-1332			***|-- Right Air Horn: 12" Strombos Horn, Chrome, No 1062 (396 Hz)***	***1***
06-SS-13M0			***|-- Air horn mounted system Standard chrome finish***	***2***
			CABINET SHOP - Modular	**1**
07-00-0182			***|-- Custom design wood console included in Order***	***1***
07-00-0001		<	ALL DIMENSIONS ON ORDER WILL HAVE A VARIABLE OF + OR - 1/4" Unless specified as a minimum dimension.	1
			Cabinet Configuration	**1**
07-00-MC9B		<	***Mica Colors: Gloss Fashion Gray over Stainless Steel*** Parting Line: C/S: Top of squad bench including rear filler. S/S: To CPR side seat. Stainless Steel on above areas only. No other cabinet gets stainless, unless specified otherwise below.	***1***
07-AS-1200		<	***|-- Stainless Steel - FACE of Squad Bench including rear filler*** End of squad bench shall be MICA.	***1***
07-AS-1400			***|-- Stainless Steel - Lower Face of Wall Cabinet - Included***	***1***
07-00-PC0N			***Polycarbonate Type/Color: Lexan - CLEAR Secure Latch***	***1***
07-01-SEK3		<	***|-- Att. Seat: EVS 1880P4VBR 10 deg Child Safety Seat Blue Ridge ,Per4Max Black*** ARMRESTS are permitted on this seat VAC formed Blue Ridge Seat back angle fixed, no recline function. Child safety seat	***1***
07-SE-0901		<	***|-- BASE: Swivel base for EVS Child Seat Option Handle on RIGHT std*** (2) Position Swivel, Forward or Rearward, Only	***1***
11-SE-04A0			***|-- Attendant Seat, Armrest: None***	***1***
07-AC-4401			AC CABINET: Evaporator, Std Location Behind Att Seat	1
07-ZZ-ZZZZ			|--	1
07-BH-4801			LF Cabinet, Behind Att Seat: Cabinet "H"/(Elec Cab)	1
07-CA-VEN7			|-- Plastic Vent: (2) Total, 1 column x 8 row, Vent 01	1
07-DR-WD0E			|-- Door, Single Solid Flush Fitted Electrical Area	1
07-CA-2100			|-- TRIM: U-shaped Door, J-trim opening	1
07-DR-OR04			|-- Hinge Orientation: RIGHT	1

PART NO	S		DESCRIPTION	QTY
07-HW-HIN1			|-- Hinge: 1 1/2" Stainless Steel Piano Hinge	1
07-HW-SO11			***|-- Round Pull Latch: Non-locking - Chrome Finish***	***1***
11-X0-0010			***|-- Stowage rating label - Southco round latch 10 pounds applied each***	***1***
07-ZZ-ZZZZ			|--	1
07-ZZ-ZZZZ			|--	***1***
07-CA-0300			***CURBSIDE UPPER: Over S/B, Mods***	***1***
07-CU-K107			***|-- Cabinet K1 & K2: (2) Openings with flush center divider***	***1***
07-DR-LX24			***|-- Door: Single Flip Up 3/8" Lexan***	***2***
07-DR-LZ20			***|-- Hinges: Reel Torque***	***2***
07-HW-SO11			***|-- Round Pull Latch: Non-locking - Chrome Finish***	***2***
11-X0-0010			***|-- Stowage rating label - Southco round latch 10 pounds applied each***	***2***
07-D0-0002	***S***	***<***	***|-- Curbside Upper, Optional Cabinet P Forward of K Cabinet, Angled*** **see interior drawing, Generally angled on special drawings for Drug cabinet type instllation.** **NOTE: C/S LX-1 PANEL WILL BE LOCATED IN THE BOTTOM SECTION OF CABINET P, ANGLED TOWARD C/S SEATING POSITIONS**	***1***
07-DR-LXXE	***S***	***<***	***|-- Door, Single Solid, Flush - Drug Locker*** **NOTE: INSTALL GAS SHOCK ON DOOR**	***1***
07-CA-2100			***|-- TRIM: U-shaped Door, J-trim opening***	***1***
07-DR-OR02			***|-- Hinge Orientation: BOTTOM***	***1***
07-HW-HIN1			***|-- Hinge: 1 1/2" Stainless Steel Piano Hinge***	***1***
07-HW-SX11			***|-- Round Pull Latch: Non-locking - Chrome Finish***	***1***
11-X0-0010			***|-- Stowage rating label - Southco round latch 10 pounds applied each***	***1***
07-DR-M905			***|-- No cable stop requested for doors***	***1***
07-ZZ-ZZZZ			|--	***1***
07-CA-04AF	***S***	***<***	***Cabinet, (4) Glove Storage, Bulkhead Wall*** **Four glove dispenser**	***1***
07-DR-LX06			***|-- Door: Overlay hinge, 3/8" Lexan - 4-glove dispense thru***	***1***
07-DR-LZ10			***|-- Hinges: Stainless Spring Loaded***	***3***
07-HW-SX11			***|-- Round Pull Latch: Non-locking - Chrome Finish***	***1***
11-X0-0010			***|-- Stowage rating label - Southco round latch 10 pounds applied each***	***1***
07-ZZ-ZZZZ			|--	***1***
07-CA-04B0			CURBSIDE REAR STORAGE CABINET: NONE	1
07-ZZ-ZZZZ			|--	1
07-RF-4404	***S***	***<***	***RF ALS Cabinet: CRASH CONFIGURATION*** **LOCATED REARWARD OF CSE DOOR** **CUSTOM LAYOUT** **TO HAVE SOLID SURFACE COUNTERTOP, COLOR TO MATCH OTHER COUNTER TOPS**	***1***
07-CA-490S		***<***	***|-- 1/2" Solid Surface Squad Head Storage Top Tray:*** The tray shall have a lip. The tray lip shall come up to the front and overlay the face.	***1***
07-CA-4T20			***|-- Gibraltar (Solid Surface) Material COLOR: Steel Gray Tempest***	***1***
ZZ-ZZ-ZZZZ			|--	***1***
07-RF-CADR			|-- Check the specified Walk through Door type (Station 5)	1
07-RF-I148	***S***		***|-- Cabinet I-1: NONE/DELETE***	***1***
07-DW-0001	***S***	***<***	***|-- I-2A: Drawer: Mica-wood body, Mica inside and out*** **IN REARWARD UPPER PORTION OF RF ALS, FACING REARWARDS TOWARDS SQUAD BENCH, TO HAVE NON-LOCKING ROUND SOUTHCO PULL LATCH**	***1***
07-DR-WD14			***|-- Drawer Front: Flush Fitted***	***1***
07-CA-2100			***|-- TRIM: U-shaped Door, J-trim opening***	***1***
07-HW-SO11			***|-- Round Pull Latch: Non-locking - Chrome Finish***	***1***
11-X0-0010			***|-- Stowage rating label - Southco round latch 10 pounds applied each***	***1***
07-HW-SL01			***|-- Drawer Slides: Full Extension, Detachable 130 LB capacity STD***	***1***
07-ZZ-ZZZZ			|--	1
07-RF-I248			|-- Cabinet I-2: Standard	1
07-CA-4400			***|-- Cargo Net, 2" Webbing, On Cabinet***	***1***

PART NO	S		DESCRIPTION	QTY
11-X0-0018			***|-- Stowage rating label - removable cargo net 80 pounds entire area***	***1***
07-RA-IOA1			|-- Outside Access: Thru M-7 (RF) Compartment door.	1
07-RF-0001			|-- Interior MICA Color: White cabinet liner	1
07-TS-1200			|-- Shelf Track: Small alum Unistrut type	1
07-CA-0608			***|-- (2) Shelves: Adjustable mica over substrate with Alum Trim***	***1***
07-RF-I30D			***|-- Cabinet I-3: DELETE, Combine with I2 Cabinet***	***1***
07-ZZ-ZZZZ			***|--***	***1***
07-ZZ-ZZZZ			|--	1
07-RR-0048			Right Rear Cabinet: Cover over M-5compartment	1
07-RR-0364	***XS***	***<***	***|-- Inside access into M-5: Face Aisle***	***1***
			The inside access opening shall positioned on the forward half of M-5 compartment. The clear opening shall be 10" wide by 36" tall.	
07-DR-WD00			***|-- Door, Single Solid, Flush Fitted***	***1***
07-CA-2100			***|-- TRIM: U-shaped Door, J-trim opening***	***1***
07-DR-OR04			***|-- Hinge Orientation: RIGHT***	***1***
07-HW-HIN1			***|-- Hinge: 1 1/2" Stainless Steel Piano Hinge***	***1***
07-HW-SO11			***|-- Round Pull Latch: Non-locking - Chrome Finish***	***1***
11-X0-0010			***|-- Stowage rating label - Southco round latch 10 pounds applied each***	***1***
07-ZZ-ZZZZ			***|--***	***1***
07-ZZ-ZZZZ			|--	1
07-SA-0000				1
07-SB-4401			SQUAD BENCH: Standard	1
07-SB-0001			|-- See Upholstery Section for Post and Wheel Cup info	1
07-SB-1001			|-- Storage Under Lid - Configure to M-6 Compartment Size	1
07-SB-1021			***|-- Bio-waste/Sharps No 1: (1) Tilt-out Door (Squad Bench)***	***1***
07-HW-SO11			***|-- Round Pull Latch: Non-locking - Chrome Finish***	***1***
11-X0-0010			***|-- Stowage rating label - Southco round latch 10 pounds applied each***	***1***
07-SB-1003			***|-- LOCATION: At head of Squad Bench***	***1***
07-SB-1004			***|-- SHARPS CONTAINER: 3-Quart Bemis Container***	***1***
07-SB-1005			***|-- WASTE CONTAINER: 6 Quart***	***1***
07-SB-LID2			|-- Squad Bench Lids: Split - 2-section	1
07-SB-LH00			|-- Hinge, Squad Bench Lid(s): Butt Style Hinges	1
07-SB-LH03			|-- Lid Checks: Gas shock, Dual Action	2
07-SB-LH07			|-- Latch, Squad Bench Lid: Slam Action Paddle, W keeper	2
11-X0-0030			|-- Stowage rating label - Squad bench interior, entire area 80 lbs	2
07-TR-SB01			|-- Edge Trim, Lids: Band w/ Laminate and J-Trim Protection	1
08-MH-1404			***|-- Restraint Net, at head of S/B, NONE***	***1***
08-ZZ-ZZZZ			|--	1
07-TC-0000				1
07-TC-6403	***S***		***TOP CABINETS, - Standard, 74" HEADROOM***	***1***
07-TC-A646		***<***	***|-- Cabinet A Deleted, Combine space with Cabinet D***	***1***
			Cabinet D extends over next to Exhaust fan	
07-TC-B643			***|-- Cabinet B: Ergonomically angled toward the CPR seat (72"HR)***	***1***
07-CB-DR31			***|-- Doors; Cabinet B Secure Latch Restocking Sliding Window Top hinged***	***1***
11-X0-0016			***|-- Stowage rating label Secure Latch Restocking Sliding Window 30 pounds applied***	***1***
07-DR-LX03	***S***		***|-- Cabinet B Side Access Door: Single Flip Up 3/8" Lexan***	***1***
07-DR-LZ20			***|-- Hinges: Reel Torque***	***1***
07-HW-SO11			***|-- Round Pull Latch: Non-locking - Chrome Finish***	***1***
11-X0-0010			***|-- Stowage rating label - Southco round latch 10 pounds applied each***	***1***
07-TS-1200			***|-- Shelf Track: Small alum Unistrut type***	***1***
07-CA-0608		***<***	***|-- (2) Shelves: Adjustable mica over substrate with Alum Trim***	***1***
			(1) Each side of Divider	
07-ZZ-ZZZZ			***|--***	***1***
07-TC-C641			***|-- Cabinet Over CPR: Over 24" wide Side seat***	***1***
07-DR-LX24			***|-- Door: Single Flip Up 3/8" Lexan***	***1***
07-DR-LZ20			***|-- Hinges: Reel Torque***	***1***
07-HW-SO11			***|-- Round Pull Latch: Non-locking - Chrome Finish***	***1***
11-X0-0010			***|-- Stowage rating label - Southco round latch 10 pounds applied each***	***1***
07-ZZ-ZZZZ			***|--***	***1***
07-WC-0000				1

PART NO	S		DESCRIPTION	QTY
07-WC-640L			WALL CABINET: CPR Seat w/Telemetry LWBT1	1
07-WC-AA01			|-- Action Area: Standard	1
07-CA-4800		<	***|-- 1/2" Solid Surface A/A Tray***	***1***
			The tray shall have a lip. The tray lip shall come up to the front and overlay the face.	
07-CA-4820			***|-- Gibraltar (Solid Surface) Material COLOR: Steel Gray Tempest 9194TM***	***1***
07-CA-4U05			***|-- Solid Surface extension in front of O1***	***1***
07-WC-AABD			|-- Action Area Board: Black Grip See Station No 6 for content	1
07-ZZ-ZZZZ			|--	1
07-WC-CN01	***S***	<	***|-- Drawer: Under Action Area***	***1***
			Approximate interior dimensions 15" w x 3" h x 15" d	
07-HW-SO11			***|-- Round Pull Latch: Non-locking - Chrome Finish***	***1***
11-X0-0010			***|-- Stowage rating label - Southco round latch 10 pounds applied each***	***1***
07-WC-C641			|-- Cabinet C: Standard	1
07-TS-1200			***|-- Shelf Track: Small alum Unistrut type***	***1***
07-CA-0608			***|-- (2) Shelves: Adjustable mica over substrate with Alum Trim***	***1***
07-DR-LX22	***S***		***|-- Door SINGLE, Overlay Hinged, 3/8" Lexan - LG***	***1***
07-DR-LZ10	***S***		***|-- Hinges: Stainless Spring Loaded***	***2***
07-DR-OR05	***S***		***|-- Hinge Orientation: LEFT***	***1***
07-HW-FH04			***|-- Full Height Extruded Handles for Tall Lexan Doors***	***1***
07-HW-SO11			***|-- Round Pull Latch: Non-locking - Chrome Finish***	***1***
11-X0-0010			***|-- Stowage rating label - Southco round latch 10 pounds applied each***	***1***
07-RF-0007			|-- No Inside Access to Exterior Compartment	1
07-ZZ-ZZZZ			|--	1
07-WC-D641			|-- Cabinet D: Ergonomically Angled Cabinet Over Tele. Area	1
07-TS-1200			***|-- Shelf Track: Small alum Unistrut type***	***1***
07-CA-0608		<	***|-- (2) Shelves: Adjustable mica over substrate with Alum Trim***	***1***
			(1) Each side of Divider	
07-CB-DR37			***|-- Doors; Cabinet D Secure Latch Restocking Sliding Window Top hinged***	***1***
11-X0-0016			***|-- Stowage rating label Secure Latch Restocking Sliding Window 30 pounds applied***	***1***
07-DR-LX03	***S***		***|-- Cabinet D Side Access Door: Single Flip Up 3/8" Lexan***	***1***
07-DR-LZ20			***|-- Hinges: Reel Torque***	***1***
07-HW-SO11			***|-- Round Pull Latch: Non-locking - Chrome Finish***	***1***
11-X0-0010			***|-- Stowage rating label - Southco round latch 10 pounds applied each***	***1***
07-ZZ-ZZZZ			|--	1
07-WC-E003			***|-- Cabinet E: DELETE***	***1***
07-ZZ-ZZZZ			***|--***	***1***
07-WC-F642			***|-- Drawer F:***	***1***
07-DW-0001			***|-- Drawer: Mica-wood body, Mica inside and out***	***1***
07-DR-WD14			***|-- Drawer Front: Flush Fitted***	***1***
07-CA-2100			***|-- TRIM: U-shaped Door, J-trim opening***	***1***
07-HW-SO11			***|-- Round Pull Latch: Non-locking - Chrome Finish***	***1***
11-X0-0010			***|-- Stowage rating label - Southco round latch 10 pounds applied each***	***1***
07-HW-SL01			***|-- Drawer Slides: Full Extension, Detachable 130 LB capacity STD***	***1***
07-ZZ-ZZZZ			***|--***	***1***
07-WC-SS01			|-- CPR Side Seat: 24" inch - Single Position - Standard	1
07-WC-BR01			|-- Back Rest: Fixed to Back Wall of CPR Seat w/clips	1
07-WC-TA01			|-- Telemetry Area: with armrest pad	1
07-CA-4900		<	***|-- 1/2" Solid Surface Telemetry Area Tray:***	***1***
			The tray shall have a lip. The tray lip shall come up to the front and overlay the face.	
07-CA-4T20			***|-- Gibraltar (Solid Surface) Material COLOR: Steel Gray Tempest***	***1***
07-WC-O101			|-- Cabinet O1: Standard	1
07-DR-WD01			***|-- Door, Single Solid Flush Fitted***	***1***
07-CA-2100			***|-- TRIM: U-shaped Door, J-trim opening***	***1***
07-DR-OR04			***|-- Hinge Orientation: RIGHT***	***1***
07-HW-HIN1			***|-- Hinge: 1 1/2" Stainless Steel Piano Hinge***	***1***
07-HW-SO12			***|-- Round Pull Latch: Locking - Chrome Finish***	***1***
11-X0-0010			***|-- Stowage rating label - Southco round latch 10 pounds applied each***	***1***
08-SE-1702			|-- P4 - 4-Point PER4MAX Restraint System - with replacement indicator W/CPR	1

PART NO	S		DESCRIPTION	QTY
08-SE-1820		<	|-- (2) on Squad Bench, (1) CPR Side Seat Per4Max Black Belts Belt retractors must mount below the top of the seat. BELT-F151390	1
08-SE-SB70			|-- S/B: (3) Sec patient restraints - 9" Sleeves Face of Bench	1
08-SE-SB76			|-- S/B: (3) Sec patient restraints - 5" Sleeves By Hinge	1
00-20-0072			|-- Per4Max Four-Point Seatbelts: Accept and Install Full Feature	1
07-ZZ-ZZZZ				1
			CABINET SET - CELL 4 - MOD	1
08-00-00PW			Sub Floor, 3/4" Plywood, Standard	1
08-00-FL3E			***Flooring: Loncoin II Flecks- #152, Sapphire (Blue)***	***1***
08-00-FL01			***|-- Flooring Main Edge: 3" Recessed (1/2" deep) roll-up***	***1***
08-AS-0001		<	***|-- Rear Threshold, Stainless, 6" Wide x Full Width at rear doors*** Install safety yellow with diagonal stripes nonskid tape over threshold.	***1***
08-AS-0006	***S***	<	***|-- C/S Stepwell Threshold, Polished Diamond Plate*** **INSTALL STAINLESS STEEL FLOOR PROTECTION STRIP WITH SAFETY YELLOW WITH DIAGONAL STRIPES NONSKID TAPE OVER THRESHOLD JUST INSIDE THE ENTRY DOOR** **SEE IMAGE**	***1***
08-ZZ-ZZZZ			|--	***1***
08-CS-0001			COT MOUNT HARDWARE: (Full Size Mod)	1
08-CR-09PP		<	***|-- Cot Mount: Stryker, No 6390, Power Load, Prep ONLY >>NON COMPLIANT <<*** This will have everything need for Customer/Dealer to install the Stryker Power Load system at a later date. Constant hot and ground service power provided, Prep will include, installation of Floor Plate Kit THIS DOES NOT INCLUDE ANY COT MOUNT >>>>>> EXCEPTION TO 3.11.6 >> THIS is an incomplete installation, an exception is required, NON COMPLIANT installation.	***1***
08-CR-0420			***|-- Non-Compliant to SAE J3027, J3102 3.11.6 Patient Cot Mount Notice***	***1***
08-CR-0421			***|-- Non-Compliant to SAE J3027, AMD 004 CAAS GV 1.0 C.11.6***	***1***
08-CR-09PT		<	***|-- Add' Mass Casualty Cot Mount: Stryker, Floor Mount Position for Power load*** Provides for Antler attachment to center rail in manual function Locking rail and floor plates.	***1***
08-CR-09S0		<	***|-- Stryker Antler 6370-230-038*** Stryker antlers to complete the Mass Casualty kit and Stryker Floor prep kit.	***1***
08-CR-09SY			***|-- Stryker - in rail mounting cam MOUN-CLEAT***	***1***
08-CR-1001		<	***|-- 12v power for cot mount provided up through floor*** 12volt power for power load to be brought through floor, with Heat shrink connectors installed	***1***
08-CS-00PL		<	***|-- Cot Position No 1: PRIMARY CENTER POSITION,*** Maintain 12" between Cot and S/B.	***1***
08-CS-2000		<	***|-- Primary Cot position under floor reinforcement*** Install 8 inch wide by 5 long 1/2" aluminum reinforcement at primary cot position. (Primary cot position only - REV Std) **If custom location is desired, must be specified below.	***1***
08-CS-3009			***|-- Cot mount set up for: Stryker Power-Pro 6506***	***1***
08-CS-19U1			|-- Q Straint System: NONE	1
08-OS-04ST			OXYGEN / AIR / VACUUM System:	1
08-OS-0431			***|-- Oxygen Outlet No 1: Amico Console - Puritan - Bennett***	***1***
08-OS-040A			***|-- LOCATION: Action Area***	***1***
08-OS-0432			***|-- Oxygen Outlet No 2: Amico Console - Puritan - Bennett***	***1***
08-OS-040A			***|-- LOCATION: Action Area***	***1***
08-OS-0433			***|-- Oxygen Outlet No 3: Amico Console - Puritan - Bennett***	***1***

PART NO	S		DESCRIPTION	QTY
08-OS-040F	***S***	**<**	***|-- Location; ABS recess housing installed Center Pad Over Head/Chest***	***1***
			Recessed pocket for Oxygen outlet to protect vertical flow meter	
			Gray vacuum formed ABS installed	
08-OS-0434			***|-- Oxygen Outlet No 4: Amico Console - Puritan - Bennett***	***1***
08-OS-040F	***S***	**<**	***|-- Location; ABS recess housing installed Center Pad Over Head/Chest***	***1***
			Recessed pocket for Oxygen outlet to protect vertical flow meter	
			Gray vacuum formed ABS installed	
08-OS-0405	***S***		***|-- Oxygen Outlet No 5: Amico Console - PURITAN - BENNETT***	***1***
08-OS-040D	***S***	**<**	***|-- LOCATION: Curbside Wall, over the head of the S/B***	***1***
			LOCATED ABOVE THE RF ALS COUNTER TOP IN THE C/S ACTION AREA	
08-OS-1331		<	|-- Rack No 1: Adjustable AEV O2 Rack Green with 4 Ratchet Straps M/H	1
			Fits cylinders 7" diameter or more.	
08-OS-11G1		<	|-- Cylinder Type: OXYGEN - Green Colored Hose	1
			Regulator connection Nut: 9/16" RH thread.	
08-OS-1301			|-- Rack Location: Left Front, wall #2 near wall #3	1
08-OS-132M			|-- Set up For M cylinder	1
08-OS-1712		**<**	***|-- Regulator, Oxygen: Has LX1 Transducer, Inspected and Installed***	***1***
			Installed on O2 line for pressure test,	
			Regulator and Transducer connected and left installed on Oxygen hose.	
			Tagged with Inspector signature/Date	
			Protected for shipment and left on the hose, Plastic restraint tie to the oxygen bracket for shipment	
			> Required under Change notice 11, July 1, 2018 .	
08-OS-1902			|-- Regulator Wrench: Cast aluminum, OXYGEN w/ cable lanyard	1
08-OS-35ST			|-- Vacuum System: SSCOR regulator/gauge panel in A/A	1
08-OS-3501		<	|-- Collection Canister w Clip: Bemis, 1200 CC Capacity -J3043 retention compliant	1
			LOCATION: In Action Area, to the left of A/A console box.	
			with SSCOR canister retention clip	
08-OS-3100			***|-- Vacuum Outlet No 1: Amico - Ohio Style***	***1***
08-OS-040A			***|-- LOCATION: Action Area***	***1***
08-OS-3115		**<**	***|-- Adapter, Vacuum Outlet : w/ Suction system***	***1***
			SHIP LOOSE ADAP-03 suction plug adapter with barbed fitting	
			>> requires an updated note in the SHIP LOOSE SECTION <<	
08-OS-3503			|-- Vacuum Pump: 49 State	1
08-OS-35L4			|-- Location: M-2 Compartment	1
08-ZZ-ZZZZ				1
			TRIM / DOOR ASSEMBLY - CELL 5	1
04-EA-09G1	***S***	**<**	***|-- Compt Door Grommets: (2) Installed on Each Door, (1) Top and (1) Bottom***	***8***
			Grommets are from Mouser Electronics - Part # 2753	
			Grommets are from Mouser Electronics - Part # 2753	
			PLASTIC GROMMET (FOR ACCESS) AT EVERY ROTARY LATCH LOCATION ON ENTRY AND COMPT DOORS	
			APPROX 1 1/4" IN SIZE	
			REF 19OF24740-41XA	
09-00-001D			***|-- Soft Touch Trim Kit: Installed (Per Cabinet) - ILOS***	***2***
09-00-001K	***S***	**<**	***|-- Soft Touch Trim Color: Black***	***2***
			LOCATED IN M-1 COMPARTMENT TO PROTECT BACK BOARDS (2) STRIPS EACH ON WALL #1, WALL #2, AND FORWARD SIDE OF DIVIDER	
09-00-002S			|-- Interior window and aluminum trim with standard satin finish- std	1

PART NO	S		DESCRIPTION	QTY
09-00-0001				1
09-00-0002			**********DOOR DEPARTMENT - Full Mod**********	1
02-BT-C853			|-- Handles, Ext: Tri-mark 030-1875, Free Float, Polished CNNC finish	1
02-BT-C85A			|-- Interior Release: All Entry Doors, with bezel Emergency Access	1
09-MH-2531		<	***|-- Grab Rail, (1), 18" Yellow Antimicrobial Rear Entry Assist std.***	***1***
			Located : Module interior at the rear entry, mounted to the M5 compartment filler. Rail is to be through bolted into M5.	
09-MH-2702			|-- Grab Rail, C/S wall, curve out over C/S Entry, NONE	1
09-B1-ED00			Entry Door Panels, Windows and Hardware	1
08-MH-0020			***|-- Interior Grab Handle Color: Yellow Antimicrobial***	***1***
08-MH-0318		<	***|-- Grab Handle, CS Entry: (1) 3-pt "L" Shaped 90, Yellow Antimicrobial***	***1***
			Install CS door handle after cabinet installation. Close the doors and check for pinch points or cabinet interference.	
08-MH-03E8			***|-- Grab Handles, Rear Access: (2) 3-pt "L" Shaped 90, Yellow Antimicrobial***	***1***
09-MH-2606	***S***	<	***|-- Grab Rail, (1), 24" IATS, Yellow Antimicrobial***	***1***
			Located : INSIDE CSE, MOUNTED AT 45 DEGREE ANGLE ON BULKHEAD WALL	
09-CA-2500	***S***		***|-- Door Panels: Mica over smooth alum(upper)/Uph Center/Smooth Alum. (Lower)***	***1***
09-AS-2530	***S***		***|-- Curbside Lower Door Panel: Smooth Alum***	***1***
09-WI-02A0		<	|-- UPPER Windows: RA Doors, Fixed Tinted Glass 17.3"W x 19.3"H	1
			WIND-H0161	
09-WI-0601			***|-- UPPER Window: CS Access, Fold Out Glass, std tint ILOS***	***1***
09-DR-WT00			Talk Through Window: Sliding Lexan Window - CLEAR	1
09-DR-WT20			|-- Sliding Window Locking Pin: 1/4" with Lanyard	1
			Compartment Shelf or Floor Liner options	1
09-FM-1093			***|-- Dri-Dek Compt Floors and shelves, Black***	***1***
09-FM-11F7			***|-- Dri-Dek EDGES: Yellow, Beveled frontal edges***	***1***
07-ZZ-ZZZZ			|--	1
09-ZZ-ZZZZ				1
			ELECTRICAL Point to Point - CELL 6	1
10-IL-02ST			Action Area Light: 12V, LED, Surface Mount	1
10-IL-02L7			|-- Light Location: Action Area	1
			UPHOLSTERY - CELL 7	1
11-00-UC02			***Upholstery Color: Blue (Blue Ridge)***	***1***
11-00-UC11			***|-- Center Trough Upholstery Color: Color Key to Rest of Truck***	***1***
11-00-UT05			Uph Joint Type: Vacuum Formed - Seamless	1
11-SB-0005			Squad Bench seat cushion cut-outs: None	1
11-SB-0003			|-- Post And Wheel Cups: NONE	1
11-SE-CSPD			Head Protection: Pad over CS Entry Door	1
11-SE-REPD			Head Protection: 2" Pad over Rear Access Doors, Full Width	1
11-MC-1720		<	***|-- Clock: Atomic w/ Outside Temperature, Wall Mount***	***1***
			CLOC-ATOMIX	
11-MC-170B			***|-- Clock mount: Screw Directly into pad***	***1***
11-MC-1800			***|-- Location: Over Rear Doors***	***1***
			PAINT - STRIPES - DECALS	1
12-PT-UNCT			|-- Undercoating : Per QVM Guidelines, STD	1
12-DC-0001			Reflective Tape: On painted edges of Exterior Door Frame	1
12-DC-GA10			Compartment Finish: Diamond Plate Standard	1
12-PT-0100			Primary (Over All) Color: White (YZ)	1
12-DC-0002		<	|-- Flip Step Reflective/Prismatic Tape: Red/White/R/W/R/W/R	1
			Install on rearward facing edge of flip up step at rear module entry.	
12-PT-0112			|-- Tape Stripe: NONE (KKK-F Deviation)	1
11-YZ-0962			|-- Non-Compliant toKKK-F 3.16.2 ;Exterior Safety stripe to be Orange	1
12-PT-0600			|-- Paint Belt: NONE	1
12-PT-1000			|-- Pin Stripe: NONE	1

PART NO	S	DESCRIPTION	QTY
12-ZZ-ZZZZ		|--	1
12-PT-RF01		|-- Roof Paint: Color and finish quality to be GLOSSY	1
12-PT-1301		Special Striping: Chevron Items: NONE	1
12-PT-2000		Lettering: NONE	1
12-ZZ-ZZZZ		|--	1
12-PT-DRIS	**<**	***Drip Rails: Bright Alum, De-burred & rounded corners (SHIPPED LOOSE)***	***1***
		Include a drip rail over the C/S Entry Door shipped loose.	
		Add Shop Note to Shipped Loose Section of W/O	
12-ZZ-ZZZZ			1
		DETAIL - SHIP LOOSE ITEMS	**1**
12-PT-DRIZ	<	|-- Drip Rails: Detail-Refer to Paint Section for Drip Rail Information	1
		Include a drip rail over the C/S Entry Door.	
13-00-0200		|-- *Check front of W/O under chassis section for Add' items*	1
13-10-XM00		|-- Owner's Manual USB Flash Drive ship loose	1
13-10-XMA0		|-- Printed Owner's Manual Not Required	1
13-00-0001			1
13-GL-0000		Glove Holder, Ship Loose: NONE	1
13-KK-KDEC		Decals: KKK / DOT Pkg, Blue/White reflective - Ship Loose	1
13-RF-STAR		***|-- Decals: Install 32" Star of Life on Mod Roof***	***1***
13-KK-NSSB		Decals: NO SMOKING & SEATBELT, installed, cab & pt. area.	1
13-KL-0013		***AEV Logos: SHIP LOOSE, Not Installed***	***1***
13-MH-05ST		Fire Extinguisher, 5 pound, shipped loose, Std	1
11-YZ-0932	<	|-- Exception to 3.15.2 Required Two fire extinguishers installed by FSAM	1
		Fire extinguishers were not installed with one in the driver's cab, one in the patient compartment at the time of departure from the final stage Ambulance Manufacturer. The customer/FSAM has shipped them loose for the dealer to complete the final install.	
11-ZZ-0932	<	|-- Exception to C.16.1 1 Required Two fire extinguishers installed by FSAM	1
		Fire extinguishers were not installed iwth one in the driver's cab, one in the patient compartment at the time of departure from the final stage Ambulance Manufacturer.	
13-MH-10A3	**<**	***Reflector Pkg: SHIP LOOSE, For Body - 2ea, Side Fr Amb, Side Rr Rd, Rr***	***1***
		Stick-on reflectors: Peterson "Spitfire" B484R and B484A LOCATIONS: In lower corners of module (2) - (1) each side and Front - AMBER (2) - (1) each side and Rear - RED (2) - On Rear of body - RED	
13-SB-0003		Post And Wheel Cups: NONE	1
13-SP-TIRE		Spare Tire: Refer To Chassis Section to See if it gets one.	1
34-XX-0001		Primary Cot: NONE included	1
34-XX-0002		Secondary Stretcher: NONE included	1
34-XX-5000	<	Indemnification Statement	1
		The purchaser agrees to defend, indemnify and hold REV harmless from any claims, costs (including actual attorneys' fees), damages and liabilities caused in whole or in part by any alteration or modification of, or changes or additions to the Purchased Products OR use of product for purposes it was not designed or intended for.	
		== 172 x 95 T-1 LWB Ford Base Price - 15.015 01/12/21 ==	***1***
		GENERAL CONVERSION	**1**
36-AA-0001		WORK ORDER STATUS:	1
00-90-0301		|-- For Confirmation	1
36-CO-0001		|-- CHANGE ORDER POLICY	1
36-CO-0010	<	|-- After Confirmation, Prior to Engineering	1
		Change Fee is $50 Per Item, Plus Option Cost	
36-CO-0020	<	|-- After Confirmation, After Engineering Start	1
		Change Fee is $100 Per Item, Plus 150% Option Cost >	
		Special order or non-stocking parts that are purchased for any ordered option that is subsequently deleted will be charged for and shipped loose.	

PART NO	S	DESCRIPTION	QTY
36-CO-0030	<	|-- After Confirmation, After Production Start Change Fee is $100 Per Item, Plus 200% Option Cost Additional labor charges above option costs may apply depending upon level of installation of affected part. Special order or non-stocking parts that are purchased for any ordered option that is subsequently deleted will be charged for and shipped loose. >> Changes after production starts are the most disruptive.	1
36-EO-0001		|-- ***END OF ORDER***	1

1	Proposal
2	Bid Specifications
3	Response Specifications
4	Shop Order
5	Drawings and Images
6	Crash Test Certification
7	Restraint Test Certification
8	Static Load Test
9	Supporting Documents
10	References

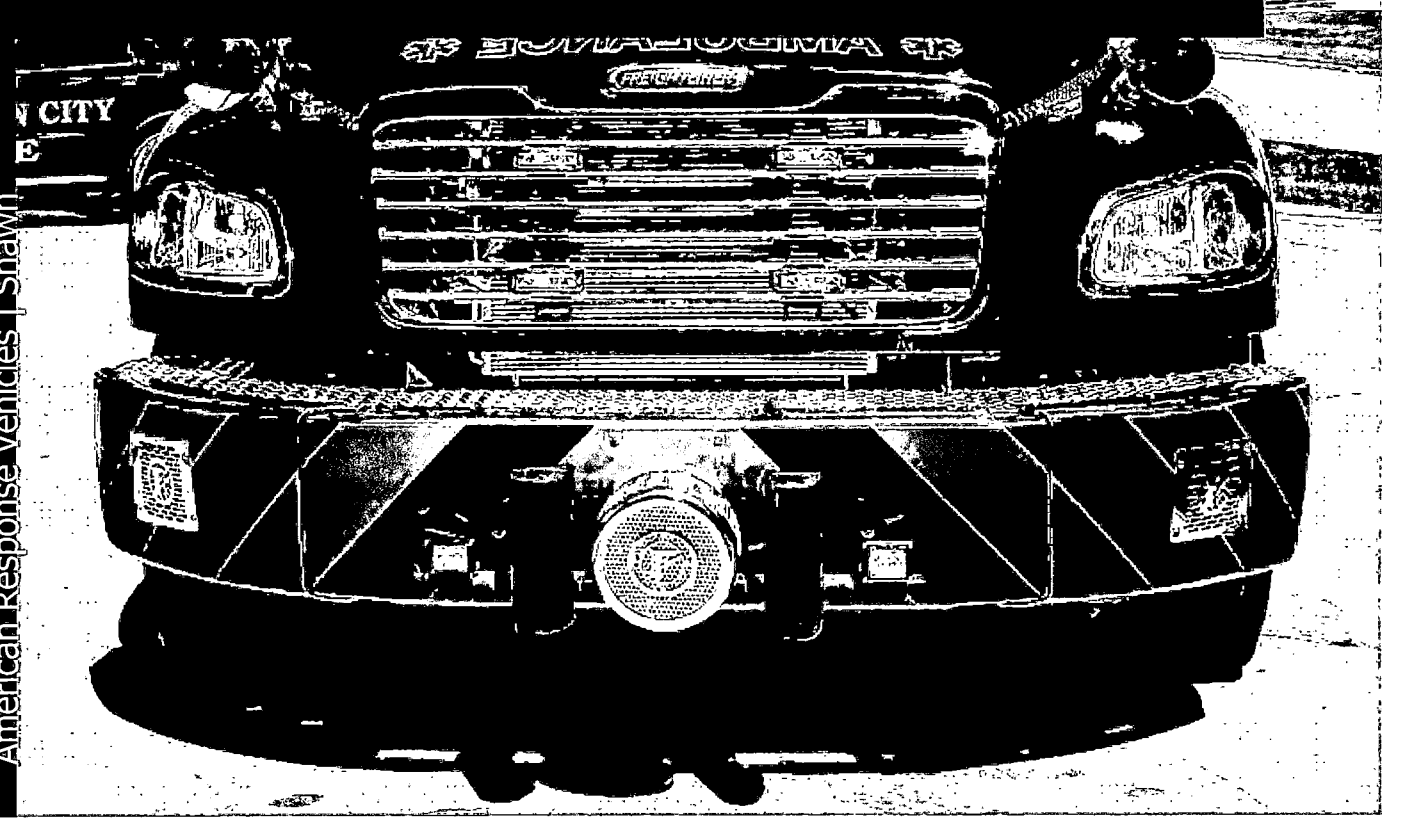
Independence Fire/ EMS

Prepared by:

Tim Leitnaker
American Response Vehicles
tim@arvambulance.com
Submitted on:
02/15/2021

Prepared for:

Shawn Wallis
120 NORTH SIXTH STREET
INDEPENDENCE, Kansas 67301
United States
Quote number: 00000031



Cover Letter

Dear Shawn Wallis,

Thank you for this opportunity to provide pricing on your new ambulance.

An AEV ambulance is one of the safest and most durable ambulances in production today. From the drawing board to the laboratory and finally, to the road; AEV is the most tested ambulance on the market. AEV ambulances are put to the test in markets like the Kansas City Metro Area, St. Louis Metro Area, Chicagoland Area, and countless communities across the Midwest, with hundreds of units and millions of miles between them. Of the industry-leading 1,400 plus units that AEV produced in 2019 year alone, American Response Vehicles sold 144 units to customers in 7 states. AEV regularly conducts Crash Testing to ensure the body structure is as safe as possible. In fact, AEV tested a Single Type III ambulance not once, but twice at 42 mph per impact. The results were remarkable; all doors still opened and closed, and all cabinets remained intact and undamaged.

Additionally, AEV performed a dynamic pull test to 17,500 pounds on their restraint system. This is 5-Times what is required by the DOT and FMVSS; and with the IMMI Per4Max restraint, you can trust that your crews will be safe. AEV also tests the overall integrity of their modular body and recently increased their static load testing to 75,000 pounds on the conversion's side and roof, which is approximately double what is required. Finally, AEV ambulances are built in the USA by men and women who take pride in their work. From AEV's current 135,000 sq. ft. campus to their new 275,000 sq. ft. facility with state-of-the-art Paint Booths, Laser Routers, and Lean Certified Production, you can trust that AEV will not only meet but exceed your expectations.

American Response Vehicles (ARV) is a locally owned Missouri Small Business. ARV currently employs 21 people, and our team is comprised of Service Technicians, Parts Department, Graphics Designer & Installer, Sales, and Sales Support Staff. American Response Vehicles is proud to offer service at our facilities in Columbia, Chicago, or on-site at your location. With over 120 satisfied customers and counting, we here at American Response Vehicles look forward to working with you!

All AEV ambulances are built to exceed the requirements of the F.M.V.S.S. and KKK-A-1822-F, and can be built in line with CAAS and NFPA as well. All AEV ambulances are built on ambulance prep chassis.

Description	Price
2021 AEV *TraumaHawk* Type I 176x96x74 Custom Ambulance Ford F550, LWB, 4x4, Diesel	**$231,455.00**
Less AEV, Ford, & ARV Discounts	**- $10,239.00**
Total	**$221,216.00**

Terms are net on delivery or active lease purchase.

Delivery will be 150 to 210 days after approval of the work order confirmation.

No deferred maintenance allowed on trade-ins

Proposal Includes:

- Custom 3m Reflective Graphics with Luster Laminate to Match the Existing Fleet
- UV-C Air and Surface Disinfection ADU-136 Mounted in Ceiling

INDEPENDENCE FIRE/EMS
American Response Vehicles

Description	Price
2020 AEV *TraumaHawk X-Series LTD* Type I Demo Ambulance Ford F550, LWB, 4x4, Diesel	**$219,835.00**
Less AEV, Ford, & ARV Discounts	**- $10,275.00**
Total	**$209,560.00**

Terms are net on delivery or active lease purchase.

Delivery will be 15 to 45 days after approval of the work order confirmation

No deferred maintenance allowed on trade-ins

Proposal Includes:

- Custom 3m Reflective Graphics to Match the Existing Fleet
- ActiveTek Induct 500 Air and Surface Disinfection System
- Whelen Arges Spotlight
- ARV Demo Discount

Optional Project Fees

Optionally Priced Items

Description	Price	Qty	Subtotal
2022 Ford F550, LWB, 4x4, Diesel Chassis	$1,500.00	1	$1,500.00
Trade-in of 2015 Chevy G4500, AEV, Diesel, 110,000 Miles	-13,500.00	1	-13,500.00

Project Timeline

Project Review

- 2 to 4weeks
- Review Work Order
- ReviewInterior&Exterior Drawings
- Submit changes to the factory
- Work Order Confirmation
- Project Review
- Our engineering team reviews the interior and exterior drawings.
- Submits any necessary changes to the factory and processes the workorder confirmation.

PHASE 1

Aluminum Body Construction

- 4 to 6weeks
- AEV Engineering will review andconfirm the modular body design with Mickey Truck Body.
- Mickey starts construction on the aluminum modular body.
- Construction of the aluminum modular body takes 4 weeks from start to finish.
- Upon inspection and approval of the aluminum body, Mickey will ship the aluminum body to AEV.

PHASE 2

Paint & Production

- 6 to 10weeks
- Aluminum body arrival inspection
- Paint Application
- Body Mounting
- Mid-Point Inspection
- Production Line Completion
- Graphics Install
- QC Inspection

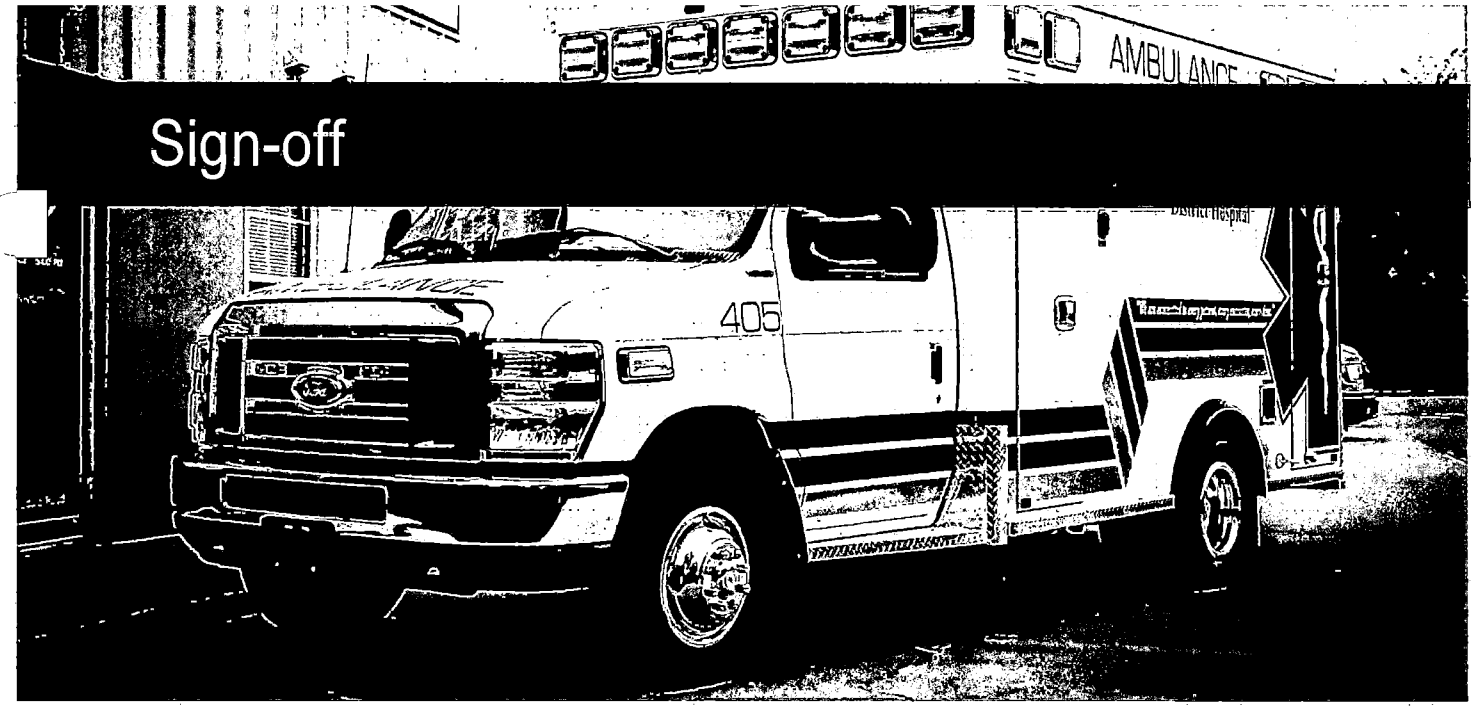
PHASE 3

Inspection & Delivery

- 1 to 3 weeks.
- With final inspection by AEV done, the body is delivered to ARV. We complete an additional check list inspection before delivering the body to the end user.
- Arrival Check List
- Delivery to End User

PHASE 4

Sign-off



Standard chassis manufacturer's warranties apply and will start on the date and mileage at delivery. The warranty on our all aluminum fully welded modular body is 20 years. Our conversion warranty including our electrical system, paint, and graphics is 7 years or 70,000 miles.

All parts and service are available through our facility in Columbia, Missouri. We offer twenty-four-hour delivery on parts in most cases. If a part is not in our inventory, it will be shipped to you direct from the manufacturer, again, in most cases within twenty-four hours. We offer at no charge during warranty, road service when necessary.

Thank you for your consideration of ARV. We look forward to continuing to provide you with the very best ambulance available in the market today. If I may be of any assistance, please contact me at 1-888-448-8881.

Sincerely,

Tim Leitnaker
Regional Sales Manager

INDEPENDENCE FIRE/EMS
American Response Vehicles

ADVERTISEMENT FOR BID

The City of Independence, Kansas, is accepting bids for a new ambulance for the City's Fire-EMS Department, meeting or exceeding the attached specifications.

Bids will be in the office of the City Clerk, 811 W. Laurel Street, Independence, Ks. 67301, on or before 2:00 p.m. Thursday, February 18th. Bids shall be enclosed in a sealed envelope plainly marked on the outside "Ambulance". If bid is mailed, original envelope shall be enclosed in a separate envelope addressed to the City Clerk, also plainly marked on the outside as stated above. E-mail or fax bids will not be accepted. The apparent low bid will then be presented to the Independence City Commission at their next regular meeting for their formal action, subject to secured funding.

The city reserves the right to accept or reject any or all bids or to waive any irregularities should any occur as may best benefit the City. The City Manager may require that no bidder may withdraw a bid for a period of up to forty-five (45) days after the date and hour set for opening bids, but that a bid may be withdrawn up to twenty-four (24) hours prior to expiration of the deadline for submitted bids.

Lacey Lies

Lacey Lies, Director of Finance

01/28/2021

Date

CITY OF
INDEPENDENCE
KANSAS

SPECIFICATIONS & BID SHEET

DELIVERY INCLUDED TO:
CITY HALL
811 W LAUREL ST
INDEPENDENCE, KS 67301

FOR QUESTIONS, PLEASE CONTACT:
DAVID COWAN, PUBLIC SAFETY
DAVIDC@INDEPENDENCEKS.GOV
(620) 332-2528

Shawn Wallis, Fire-EMS Chief
shawnw@independenceks.gov
620.332.2504

CITY OF
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Bid Specification Requirements

Bids will be sent on January 28, 2021, to prospective bidders

Bids must be returned to the City of Independence by:

February 18th, 2021, at 2:00 p.m.

Mail to:

City of Independence
Attn: Ambulance Bid
811 W. Laurel Street
Independence, Ks. 67301

Bid packages must be a submitted proposal, including all requested information in this bid, as outlined in the next couple of pages (Bid Requirements). The City of Independence will reject any bids received after 2:00 p.m. on February 18, 2021. For confirmation of receipt, please contact David Schwenker, City Clerk at davids@independenceks.gov or 620.332.2500 option 3.

STRATEGIC VISION: *Customer Service Excellence – Continuous Improvement – Teamwork*

CITY OF
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BID SUBMISSION REQUIREMENTS

1. This unit shall be a Type I modular ambulance on a Ford F-550 Super Duty XLT, 193' wheelbase, in accordance with specifications KKK-A-1822F.

2. This ambulance and equipment shall be delivered to this agency in Independence, Kansas with all delivery fees to be paid by the supplier by TBA by manufacturer for 2021 delivery.

3. Each bidder is required, before submitting the proposal, to be thoroughly familiar with the specifications contained herein. It will be the responsibility of the bidder to determine whether the vehicle specified meets the requirements of applicable state law, and the requirements of applicable KKK-A-1822F specifications

4. The following definitions shall apply to the specifications:
    a. The first stage manufacturer is the original equipment manufacturer that built the specified chassis, and its components.
    b. The second stage manufacturer is the company that will produce the ambulance conversion and required modifications to the O.E.M. chassis for delivery to this agency.

5. The bid process shall be valid for a minimum of 60 days from the date of the bid opening or as otherwise specified on the bid proposal form.

6. Full payment will be made when the unit is received, inspected, found to comply with the procurement specifications, found to be free of damage, and properly invoiced.

7. Bids received shall be evaluated by the purchaser. This evaluation will be based on the following criteria:
    a. Completeness of the proposal;
        i. The degree to which it responds to all requirements, and requests for information contained herein
        ii. Exceptions will be judged by the purchaser.
    b. Bid proposals that do not comply with the prescribed specifications will not be accepted.
    c. The bidder shall submit documentation that the second stage manufacturer is a current member of the Ford QVM (Qualified Vehicle Modifier) program even if an alternate chassis is bid.

8. The purchaser reserves the right to waive any irregularities, informalities, and technicalities in the procedure.

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9. Warranty: Printed warranty statements for the ambulance body structure, the ambulance electrical system, the ambulance paint finish, and the general ambulance conversion must be submitted with the bid proposal.

10. All warranties shall begin at the acceptance of the vehicle by this agency.

11. Since it is the purpose of these specifications to provide a modular body that will provide many years of service, the manufacturer of the vehicle bid shall warranty the structural integrity of the modular body for the life of the vehicle ownership by this agency. This warranty shall be in writing and shall be included with the bid proposal. Bidders who fail to meet this requirement shall not be considered as responsive.

12. Each bidder must be able to provide an efficient response to ambulance service needs. Within one business day after the receipt of a verbal, or written notification that warranty service is required, the ambulance supplier shall respond with a verbal statement of the plan to accomplish the repair.

13. The bidder shall state below the location of the ambulance manufacturer's parts, and service facility nearest the purchaser location:

American Response Vehicles 521 Hillsdale Road Columbia, MO 65201

TELEPHONE: (888) 448-8881 FAX: _____

EMAIL: tim@arvambulance.com

14. The bidder shall state below any additional repair and logistical support that would be available above the requirements of these specifications. These services may be used as an additional basis for a contract award.

American Response Vehicles is proud to offer Road Service provided by our EVT certified technicians. Our technicians will perform any necessary work at your location. If the repair is under warranty, this service is provided at no cost.

15. Delivery: Delivery for this truck is by TBA by manufacturer for 2021 delivery and will weigh heavily in the determination of the bid award, the delivery schedules that are submitted by the bidder and agreed upon by this agency shall automatically become binding upon the successful bidder.

16. By signing this bid, the bidder agrees that his bid is made without any understanding, agreement, or connection with any other person, firm, or corporation making a bid for the same purpose and that his bid is in all respects fair and without collusion or fraud.

17. Each bidder must furnish all information requested in this bid specifications. In addition, the bidders shall supply at least one complete set of drawings, descriptive literature, and complete manufacturer specifications covering the vehicle model offered. A copy of the purchaser specifications shall be returned with all sections responded to, and specifically indicating all detail deviations from this bid specification. That specification response will form the contract between the bidder and the purchaser.

18. Any area where these bid specifications are not met exactly must be identified in writing and referenced by proposal paragraph number. Details concerning the exceptions must be clearly explained. Each exception will be considered by the purchaser as the degree of impact by the proposed on the vehicle design requested and will be evaluated on their merit at the discretion of the purchaser. Bid proposals not meeting this comparison requirement will be rejected.

19. Patents, and royalties: The bidder, without exception, shall indemnify and save harmless the purchaser and its employees from liability of any kind due to any copyright, patent, or protected process infringement used in the performance of this contract. If the bidder uses any design, device, or materials covered by letters of protection, it is mutually agreed and understood without exception that the bid prices shall include all royalties or costs arising from the use of such design, device, or materials in any way involved in the work.

20. In the event clarification is requested on the content of this specification, the question shall be sent by email to:

Independence Fire-EMS
davidc@independenceks.gov & shawnw@independenceks.gov

Clarification or corrections to these specifications shall not be valid unless they are in written form and signed by the Director of EMS of this agency, or an assigned authority.

21. The bidder must be legally licensed to sell motor vehicles in the State of Kansas. The bidder must submit a copy of their dealer license provided by this State. This is a legal requirement of this State, and proposals submitted by bidders that do not comply with this requirement will be rejected.

CITY OF
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"Delivering Excellence"

120-18 Days*

22. THIS BID IS GOOD FOR 60 DAYS FROM **February 18, 2021**. THE BID OPENING DATE. CITY OF INDEPENDENCE RESERVES THE RIGHT TO ADD OR DELETE OPTIONS AFTER THE BID IS AWARDED, AND EXPECTS APPROPRIATE CREDIT OR DEBIT FOR SAID OPTIONS. CITY OF INDEPENDENCE RESERVES THE RIGHT TO ACCEPT OR REJECT ANY OR ALL BIDS OR TO WAVIE ANY IRREGULARITIES SHOULD ANY OCCUR AS MAY BEST BENEFIT THE CITY OF INDEPENDENCE.

1. Base bid for requested ambulance $ 216,300.00
2. Trade-In value of 2015 Ambulance ($ 13,500.00)
3. Total Price with trade: $ 202,800.00

Pictures and information available on trade-in by request or can be seen by appointment.
Exceptions to the bid:

1. See attached exception sheet.
2. _____
3. _____
4. _____
5. _____

If further space is needed, please attach additional pages.

Delivery Date: 150-210 Days* **Required: TBA by manufacturer for a** 2021 delivery
*After Confirmation of Work Order

I hereby certify that the bid submitted by this company is for an ambulance that will meet all of the requirements set forth in these specifications, including all equipment specified, except where exceptions are indicated on a separate piece of paper. Enclosed with our bid is an explanation of what we propose to furnish in lieu of the specified requirements where we have indicated any exceptions. This copy of the specifications and our list of exceptions, if any, shall be considered to be the accurate contract vehicle description upon our award.

American Response Vehicles
Company Name

521 Hillsdale Road — Address
Columbia — City
MO — State

65201 — Zip
(888) 448-8881 — Phone
(573) 489- 5098 — (Alt) Phone

_____ — Sales Representative Signature
Tim Leitnaker — Printed Name
02-12-2021 — Date

STRATEGIC VISION: *Customer Service Excellence – Continuous Improvement – Teamwork*

INDEPENDENCE FIRE DEPARTMENT
2021 Ford *"F-550"* w/ 4WD
AMBULANCE SPECIFICATION

INDEX

-1-

3.9 110 VOLT AC SYSTEM
3.8 12 VOLT DC OUTLETS11

-A-

1.13 ALTERNATORS
10.3 AMD MEMBERSHIP
8.3 ANTENNA PRE-WIRE
1.3 AUXILIARY POWERTRAIN CONTROL (APC)
1.9 AXLE, REAR

-B-

3.4.5 BACKUP ALARM OVERRIDE
1.12 BATTERIES
6.0 BODY FINISH
1.7 BRAKES
4.2.2 BULKHEAD CABINETS
5.3 BUMPER, REAR STEP

-C-

4.2 CABINETS, INTERIOR
4.2.1 CABINETS, LEFT WALL
1.0 CHASSIS
4.12 CLIMATE CONTROL
3.16 CLOCK, PATIENT COMPARTMENT
3.4 CONTROL PANEL PODS BUTTONS
1.18 COOLING SYSTEM, ENGINE
4.10 COT MOUNT
4.3.1 CPR SEAT CABINET
3.4.6 CURBSIDE SCENE LIGHTS "ON" WITH CURBSIDE DOOR

-D-

8.1 DECALS, NO SMOKING & OXYGEN EQUIPPED
6.2 DECALS, STAR-OF-LIFE
2.1 DIMENSIONS, EXTERIOR
2.2 DIMENSIONS, INTERIOR
5.4 DOORSTEP, SIDE

2.8 DOORS, EXTERIOR COMPARTMENT AND ENTRY
3.12 DOOR SWITCHING

-E-

3.7 ELECTRICAL SERVICE CABINET
3.0 ELECTRICAL SYSTEM
3.1 ELECTRICAL SYSTEM COMPONENTS
3.5 ELECTRICAL WIRING
3.4.2 EMERGENCY MASTER BUTTON
1.2 ENGINE
5.0 EXTERIOR BODY
5.6 EXTERIOR COMPARTMENT CONFIGURATION
2.7 EXTERIOR COMPARTMENT CONSTRUCTION

-F-

3.4.3 FLASHER
4.1 FLOOR, PATIENT COMPARTMENT
2.6 FLOOR SUB-STRUCTURE
10.5 FORD POOL PROGRAM
10.2 FORD QVM PROGRAM
1.10 FUEL TANK

-G-

1.4 GAUGES AND METERS
2.3 GENERAL CONSTRUCTION
4.8 GRAB HANDLES, DOORS
4.7 GRAB RAIL, OVERHEAD
3.6 GROUNDING SYSTEM

-H-

4.5 HEADLINER
1.17 HEATER AND AIR CONDITIONER, CHASSIS

-I-

4.11 INSULATION
8.2 I.V. HOLDERS

-K-

10.1 KKK-A-1822-F CERTIFICATION

-L-

2.9	LICENSE PLATE HOLDER
5.7	LIGHTING, DOT
3.10	LIGHTING, EMERGENCY
3.15	LIGHTS, PATIENT COMPARTMENT
3.19	LOW VOLTAGE ALARM

-M-

1.19	MIRRORS, OUTSIDE
1.22	MISCELLANEOUS CHASSIS ITEMS
8.0	**MISCELLANEOUS EQUIPMENT**
2.0	**MODULE CONVERSION**
3.4.1	MODULE POWER BUTTON

-O-

5.6	OXYGEN COMPARTMENT
4.14	OXYGEN OUTLETS

-P-

6.1	PAINTING PROCEEDURE
4.6	PANELING, INTERIOR
3.4.4	PARK OVERRIDE
4.0	**PATIENT COMPARTMENT**
7.0	**PAYLOAD**
7.1	PAYLOAD

-R-

3.4.8	REAR SCENE LIGHTS "ON" IN REVERSE
3.4.7	REAR SCENE LIGHTS "ON" WITH REAR DOORS OPEN
5.1	REAR WHEEL WELL TRIM
10.0	**REQUIREMENTS OF THE MANUFACTURER**
10.4	REMOUNTING AND REFURBISHING
2.4	ROOF
5.2	RUB RAILS
1.21	RUNNING BOARDS AND MUD FLAPS
1.23	REMOTE ENTRY

-S-

3.11	SCENE LIGHTS
4.3.2	SEAT, CPR
4.3	SEAT, EMT/ATTENDANT
1.16	SEATS, DRIVER'S COMPARTMENT
4.13	SHARPS CONTAINER
2.5	SIDE WALLS
3.13	SIREN AND SPEAKERS
3.14	SPOTLIGHT
1.5	SPRINGS, AXLE RATINGS & SHOCKS
4.2.4	SQUAD BENCH
4.2.3	SQUAD BENCH CABINETS
4.9	STAINLESS STEEL SIDE WALL
1.6	STEERING
5.5	STONE SHIELDS
3.17	SUCTION - ON BOARD
3.20	SWITCH CONSOLE, DRIVER'S
3.20.1	SWITCH CONSOLE, PATIENT COMPARTMENT

-T-

1.8	TRANSMISSION
1.20	TRIM PACKAGE, CAB

-U-

4.4	UPHOLSTERY

-V-

1.1	VEHICLE AND WHEEL BASE
3.18	VENTILATION
3.3	VOLTMETER

-W-

3.2	WARNING DISPLAYS
9.0	**WARRANTY**
9.1	WARRANTY
1.11	WHEELS AND TIRES
1.14	WINDOWS, CAB
1.15	WINDSHIELD WIPERS
8.4	WIRING SCHEMATICS

INDEPENDENCE FIRE DEPARTMENT
2021 FORD *"F-550"* w/ 4WD
AMBULANCE SPECIFICATIONS

1.0 CHASSIS

1.1 VEHICLE AND WHEELBASE
2021 Ford F-550 Super Duty XLT chassis with 4-wheel drive and dual rear wheels, 193-inch wheelbase, 108-inch cab to axle, Ford Ambulance prep package 47A.

COMPLY? .....YES X NO _____

1.2 ENGINE
Ford 6.7-liter Power Stroke Turbo Charged V-8 Diesel with OEM engine block heater.

COMPLY? .....YES X NO _____

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

COMPLY? .....YES X NO _____

1.4 GAUGES AND METERS
Speedometer, odometer, fuel gauge, temperature, oil pressure, digital voltmeter, engine hour meter.

COMPLY? .....YES X NO _____

1.5 SPRINGS, AXLE RATINGS, & SHOCKS
Maximum GVWR – 18,000 lbs. GVWR
Front: Monobeam with coil springs, shock absorbers and stabilizer bar.
Rear: Liquid Spring Suspension with auto dump feature that lowers the rear of the unit to allow for ease of cot loading when the rear doors are open.
COMPLY? .....YES X NO _____

1.6 STEERING
Power steering with tilt wheel and cruise control.

COMPLY? .....YES X NO _____

1.7 BRAKES
Heavy duty, hydro-boost assisted type, 4-wheel anti-lock disc brake system.

COMPLY? .....YES X NO _____

1.8 TRANSMISSION
Torqueshift ™ heavy duty 6-speed Select Shift transmission with external oil cooler.

COMPLY? .....YES X NO _____

1.9 AXLE, REAR
4.10 gear ratio w/ limited slip axle.

COMPLY? .....YES X NO _____

1.10 FUELTANK
Single tank w/ 40-gallon capacity.

COMPLY? .....YES X NO _____

1.11 WHEELS AND TIRES
Seven (7) LT 225/70RX19.5G Steel Belted Radial tires, BSW all season tread. The spare tire will be mounted in the left rear exterior compartment. Stainless steel wheel inserts with valve stem extensions will be provided. The valve stem extensions are to be steel braided lines that are held in place with stainless steel brackets. These brackets are to be located in such a way as to provide easy access to both the inside and outside rear tires valve stems for the checking of tire pressure and for the addition of air when required.

COMPLY? .....YES X NO _____

1.12 BATTERIES
Two 750 CCA mounted in the engine compartment and wired parallel in OEM configuration that complies with Ford QVM and KKK-A-1822-F requirements. Batteries will be wired so that both will always be used for starting and controlled by a power cut off switch. The Ford ignition key activates the cutoff switch. Power can be provided to the module without the engine running by turning the ignition key to accessory position.

COMPLY? .....YES X NO _____

1.13 ALTERNATORS
Dual Ford OEM alternators with internal regulators. One 200-amp alternator and one 150-amp alternator for a combined for a total of 350 amps

COMPLY? .....YES X NO _____

1.14 WINDOWS, CAB
Tinted safety glass is installed in all exterior windows. Ford OEM power operated windows.

COMPLY? .....YES X NO _____

1.15 WINDSHIELD WIPERS
Two speed electric, with washer and adjustable intermittent cycle.

COMPLY? .....YES X NO _____

1.16 SEATS, DRIVER'S COMPARTMENT
Deluxe clothe OEM High Back Captain's Chairs, seat belts and shoulder harnesses.

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

COMPLY? .....YES X NO _____

1.17 HEATER AND AIR CONDITIONER
OEM heavy duty, high output.

COMPLY? .....YES X NO _____

1.18 COOLING SYSTEM, ENGINE
Heavy-duty liquid system using a 50/50 mix of permanent type antifreeze and water for protection to -40 Fahrenheit.

COMPLY? .....YES X NO _____

1.19 MIRRORS, OUTSIDE
OEM heated mirrors with power adjustment and built-in 2" x 6" convex mirrors, dual direction breakaway mounting arms with telescoping width adjustment.

COMPLY? .....YES X NO _____

1.20 TRIM PACKAGE, CAB
XLT Trim Package; full stainless-steel wheel simulators, chrome front bumper and grill. Color keyed door trim with map pockets, rubber floor mat, padded sunvisors, courtesy and dual dome lights, AM/FM Stereo Radio w/digital screen / GPS Navigation /dual cab speakers. Power door locks, cruise control, tilt steering wheel, and power adjustable brake and accelerator pedals.
COMPLY? .....YES X NO _____

1.21 RUNNING BOARDS AND MUD FLAPS
Heavy-duty aluminum Diamond Plate running boards will be installed from the back of the front wheel opening to the front of the module box. They will include mudguards to protect the chassis and module. Rubber mud flaps will be installed behind the dual rear wheels.

COMPLY? .....YES X NO _____

1.22 MISC. CHASSIS ITEMS
Jewel effect daytime running headlights, dual pitch horn, reduced sound level exhaust, OEM standard undercoating, step-well pad and factory supplied jack and tire tools, dual air bags.

COMPLY? .....YES X NO _____

1.23 REMOTE ENTRY

Remote Entry & anti-theft with two key Fobs' shall be included. The Module entry door locks will also be controlled by the factory Ford key fob. A hidden unlock switch will be installed in the chassis grill.

COMPLY? .....YES X NO _____

2.0 MODULE CONVERSION

2.1 DIMENSIONS, EXTERIOR

Overall vehicle length	316.0 inches
Overall vehicle height	113.5 inches
Overall module body length	176.0 inches
Overall module body height	95.0 inches
Overall module body width	96.0 inches

COMPLY? .....YES X NO _____

2.2 DIMENSIONS, INTERIOR

Length forward door to rear door	170.25 inches
Width interior wall to wall	92.0 inches
Width of aisle	49.0 inches
Height floor to ceiling	74.0 inches
Loading height	34.5 inches

NOTE: "Kneeling" rear suspension required for load height in KKK and NFPA limits.

COMPLY? .....YES X NO _____

2.3 GENERAL CONSTRUCTION

The entire body will be a welded and **SEAMLESS** one-piece body **(No Exceptions)**. The entire perimeter and around all openings of the body shall be fully welded and ground smooth thus eliminating any joints or seams. The use of tongue and groove method of construction that requires the use of a seam sealer is not acceptable. This is to prevent the cracking of paint at these areas resulting in a buildup of road dirt and grime and the eventual development of corrosion along the tongue and groove seams.

COMPLY? .....YES X NO _____

The aluminum skin, the roof and side panels, shall be permanently fastened to the framework using Lord 406/19 Acrylic Adhesive. Adhesive is applied to the sidewall skin to prevent warp age, oil canning and metal deflection associated with the welding of the sidewall skin to the structural framework. The use of double back adhesive tape is prohibited to eliminate the possibility of the adhesive tape failing to maintain a bond to the external skin.

COMPLY? .....YES _____ NO X

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

COMPLY? .....YES _____ NO X

The roof panel shall be a single sheet of aluminum. Covering the roof of the exterior body with sectional pieces of aluminum panels is prohibited. This is to eliminate the necessity for joints or seams where these panels join.

COMPLY? .....YES X NO _____

The wall and roof support framework shall be .125" 6061-T6 extruded aluminum box beams and extrusions spaced on 12" centers or less. There shall be no frame members spaced at a distance in excess of 12". The roof support framework shall additionally include .125" 6061-T6 extruded 1" x 2" aluminum box beams running the full length of the roof. The frame and skin shall be fully welded with no rivets.

COMPLY? .....YES_____ NO X

The exterior of the body will be finished smooth with 45-degree **SEAMLESS** beveled extruded corners presenting a modern and dynamic appearance. The outer wall thickness of the extruded corners shall be .250" to provide additional protection at all corners. The body will be designed and built to provide impact and penetration resistance, with appropriate channel reinforcing to assure rigidity.

COMPLY? .....YES_____ NO X

All parts of the body and attachments will be fastened together with rust resistant fasteners in a manner that will preclude loosening of any bolts and screws, and the cracking of welded joints. The exterior body panels will be made of not less than 0.125" thick metal and be reinforced at all points where equipment will be attached. Additional plating will be added in the Street side and curbside walls for future installation of 6-point seatbelts.

COMPLY? .....YES X NO _____

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

COMPLY? .....YES X NO _____

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

COMPLY? .....YES X NO _____

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

COMPLY? .....YES X NO _____

2.4 ROOF

The roof surface shall be **SEAMLESS** and **CROWNED** and of **ONE PIECE** of .125" aluminum (3003-H14). The use of any type of sealer or caulking material is strictly forbidden. There shall be no lip or protrusion on the roof that could result in the entrapment of any water or moisture.

COMPLY? .....YES NO X

The perimeter of the roof shall be constructed of 45-degree **SEAMLESS** beveled extrusions that eliminate any lip or protrusion providing a smooth finish. The outer wall thickness of the roof perimeter extrusions shall be .250" to provide additional protection at all perimeter corners.

COMPLY? .....YES_____NO X

The roof under structure will be fabricated from extruded aluminum box beams (6061-T6). The under structure will be constructed by welding 1" x 2" x .125" box beams lengthwise and by welding 2" x 2" x .125" box beams, spaced on 12" centers or less, crossways forming a cross sectional grid roof support framework. The complete roof will be treated with a sound-deadening barrier. The roof panel shall be fully perimeter welded and adhesive bonded to the roof under structure with Lord 46/19 Acrylic Adhesive. The use of skip or intermittent welding of the roof perimeter is unacceptable.

COMPLY? .....YES_____NO X

2.5 SIDE WALLS

The body sidewall skin shall be constructed of .125" aluminum (3003 H14). The sidewall under structure will be fabricated by welding 2" x 2" x .125" extruded aluminum box beams vertically, spaced no further than on 12" centers. The vertical tubing will join and be welded to roof supports (2" x 2" x .125" extruded aluminum box beams) to form an interlocking grid between the sidewall and the ceiling. The complete sides will be treated with a sound-deadening barrier. The body sidewall skin shall be fully welded around the entire perimeter and all body openings and adhesive bonded to the sidewall framework with Lord 406/19 Acrylic Adhesive. The curbside of the module, forward of the rear wheel will have a 4" skirt drop.

COMPLY? .....YES_____NO X

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

COMPLY? .....YES X NO _____

2.6 FLOOR SUB-STRUCTURE

The floor shall be at the lowest level permitted but not more than 34 ½ inches from the ground with **NO MODIFICATION TO THE FORD OEM CHASSIS SUSPENSION.**

COMPLY? .....YES_____NO X

The floor sub-structure shall consist of two (2) 1/4" walls 2" x 2" aluminum tubes running at the outer edge for the full length of the floor and the chassis frame rails. There shall then be sixteen (16) 1 ½" x 1 ½" x ¼" walls 1 ½" x 2" aluminum tubes running the width of the floor and fully welded to the outer tubes. This sub-structure frame is to mount on top of the Chassis frame rails via the 12 OEM Pucks. 2 Full-Length Plates measuring ¾" x 6" shall be welded to the underside of the 1 ½ x 1 ½ tubes, one left and one right. The outer edges of these plates

shall be welded to the 2 x 2 primary box beams. These plates shall be bolted, via OEM rubber mounts, to gusseted steel brackets bolted to the OEM frame. There shall be twelve (12) rubber mounts attaching the body to the frame.

COMPLY? .....YES X NO _____

2.7 EXTERIOR COMPARTMENT CONSTRUCTION

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

COMPLY? .....YES_____ NO X

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

COMPLY? .....YES X NO _____

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

COMPLY? .....YES X NO _____

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

COMPLY? .....YES X NO _____

2.8 DOORS

The corner of each door frame shall be ¼" Cast Aluminum inserted & welded to horizontal & vertical extrusions. This Cast part shall ensure superior strength as well as uniform fit & finish.

COMPLY? .....YES X NO_____

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

COMPLY? .....YES_____ NO X

All doors shall be constructed of. 125 aluminum and 2 ½" thick.

COMPLY? .....YES X NO _____

The inner panel on all exterior compartment and entry doors will be fastened to the extruded doorframe and recessed into the door frame extrusion for a flush finish. Surface mounting of

any interior door panels are not allowed. All fasteners used for the mounting of the interior panels are to have a rubber grommet affixed to the underside of the screw head to prevent the fastener screws from loosening and backing out of the extrusion. The interior door panels shall be readily removable for access to the interior of the door and the latching mechanism.

COMPLY? .....YES X NO _____

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

COMPLY? .....YES X NO _____

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

COMPLY? .....YES X NO _____

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

The door linkage rods' connecting the door handles and the rotary latches are to be 5/32 steel rods threaded on the turn buckle end. They shall be straight direct pull rods with no bends built into the rods allowed. Adjustments to the entry door linkage rods are to be provided by a turnbuckle located above and below and adjacent to each interior door handle.

COMPLY? .....YES _____ NO X

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

COMPLY? .....YES X NO _____

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

COMPLY? .....YES X NO _____

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

COMPLY? .....YES X NO _____

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

COMPLY? .....YES X NO _____

All compartment doors will be equipped with a gas strut door stay that holds the door at 90 degrees to the body when open. All gas struts are to be mounted in such a way as to allow for easy access in the event that replacement or repair is required.

COMPLY? .....YES X NO _____

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

COMPLY? .....YES X NO _____

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

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

COMPLY? .....YES X NO _____

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

COMPLY? .....YES X NO _____

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

COMPLY?..... YES X NO _____

Rear and side patient compartment doors shall have dark tinted safety glass windows encased in extruded aluminum frames. Each rear door shall have an 18.5" x 17.5" fixed window. The side door shall have an 18.5" x 17.5" slide opening window with screen and window lock.

COMPLY?..... YES _____ NO X

Right side entry door opening 77"H X 31" W **(Note: Door forward layout)**
Rear entry door opening (double door): 62.5"H X 48" W

COMPLY? .....YES X NO _____

2.9 LICENSE PLATE HOLDER

Installed in the center of the rear kick plate above the rear step bumper there shall be a Cast Products license plate holder. There are to be two LED lights mounted in the holder.

COMPLY? .....YES_____NO X____

3.0 ELECTRICAL SYSTEM

3.1 ELECTRICAL SYSTEM COMPONENTS

A Weldon V-MUX 100% solid-state microprocessor based multiplex system will be installed to control the electrical functions. The system will provide diagnostics lap top plug-in capability. The front console shall contain fifteen (15) PODS buttons with an OLED, text display. The rear panel shall contain twelve (12) PODS buttons. PODS buttons are flexible to be used as latching, multi-level or momentary buttons. A Weldon High Content Node (S) shall be provided. There could be one or more depending upon demand requirements.
A Hanscom camera system will be included with a rear facing camera mounted to the exterior rear of the module along with a forward-facing interior camera mounted above the rear doors. A Hanscom display will be installed in the chassis cab.

A custom chassis console will be provided with dual drink holders. (Design upon bid award)

Comply .....YES____No X____

3.2 WARNING DISPLAYS

A digital OLED display and audible alarm will be integrated into the cab console and programmed through the multiplex system to provide visual and audible indications for:

Outside storage compartment "door open" warnings
Module Curbside and Rear "Door Open" Warning
Low voltage alarm
System Voltage
System Errors

Comply.....YES X___No_____

3.3 VOLTMETER

The OLED display on the console will display system voltage

Comply .....YES X___No_____

3.4 CONTROL PANEL PODS BUTTONS

A console panel will be mounted in the cab and a rear panel will be mounted in the access door to the electrical service cabinet in the action area. The PODS buttons will control all Emergency Warning functions as well as being able to control the Patient Compartment lighting and module heat/ac functions.

The PODS buttons will have dimmable perimeter backlighting for easy identification and a red LED will light up when turned on.

Comply.....YES____No X___

3.4.1 MODULE POWER BUTTON

A module power button for the electrical system will be provided on the front panel.

Comply.....YES X___No____

3.4.2 EMERGENCY MASTER BUTTON

A single emergency master button will be supplied for activating all the emergency warning lights and will be provided on the front console panel. The emergency master button will activate the module power automatically.

Comply.....YES X___No____

3.4.3 FLASHER

The flasher will be provided within and programmed by the multiplex electrical system.

Comply.....YES X___No____

3.4.4 PARK OVERRIDE

A park override PODS button, located on the Front Console Panel, will reactivate all lights disabled when the transmission is placed in the neutral/park position.

Comply.....YES____No X___

3.4.5 BACKUP ALARM OVERRIDE

The Front Console Panel will have a PODS button to disable the backup alarm. This override will automatically reset to "Enabled" when the vehicle is removed from Reverse.

Comply.....YES X___No____

3.4.6 CURBSIDE SCENE LIGHTS "ON" WITH CURBSIDE DOOR

The curbside scene lights will be programmed to activate when the curbside door is in the open position.

Comply.....YES X___No____

3.4.7 REAR SCENE LIGHTS "ON" WITH REAR DOORS OPEN

The rear scene lights will be programmed to activate when the rear doors are in the open position.

Comply .....YES X___No____

3.4.8 REAR SCENES "ON" IN REVERSE

The system will be programmed to provide activation for the rear scene lights, and the rear side scene lights, when the transmission selector lever is placed into the "reverse" position.

Comply.....YES X No____

3.5 ELECTRICAL WIRING

All of the vehicle's electrical equipment will be served by circuits separate and distinct from the chassis electrical system. All circuits shall be rated to carry 125% of its maximum load. All electrical wiring will be run in grease, oil, heat and moisture resistant looming. Harnesses will be fastened with vinyl-clad clamps and grommeted at any area they contact a metal edge.

Every load carrying wire will be a minimum of 14-gauge and will be color-coded and heat embossed with its function every 6 inches. There will be at least a 6-inch service loop of wire at the point of attachment to each component. All electrical connections will be machine crimped; the use of Scotch-locks is strictly prohibited.

COMPLY? .....YES X NO _____

3.6 GROUNDING SYSTEM

Due to the fact that most electrical problems in all 12-volt systems, but especially in emergency vehicles are due to problems with bad grounds, the body will be grounded to the chassis frame with 2 heavy duty braided grounding straps. In addition, there will be grounding straps from the engine block to the body and frame. There is to be a Major Ground Buss Bar in the electrical panel that is connected to the ground straps and frame, and then each individual circuit will have its own ground wire run to that ground buss bar. This will greatly improve the grounding of all circuits in the vehicle and insure less electrical problems.

The Weldon HC NODES shall be ground directly to the chassis batteries to eliminate any interference or possible loss of ground which would result in the shutdown of the entire NODE.

COMPLY? .....YES_____NO X

3.7 ELECTRICAL SERVICE CABINET

The electrical service panel will be mounted in the electrical service cabinet above the action area and will be easily accessible by activating a single latch allowing the Button POD Panel section to swing down. The V-Mux Node(s) will be located in an easily accessible location in the electrical service cabinet for service technicians to perform troubleshooting and service work. This cabinet must be solely for the electrical system components with a large enough door opening to perform work on the systems completely without removing them from the cabinet.

Under no circumstances will any of the electrical systems be mounted in any exterior compartment. **NO EXCEPTIONS**

COMPLY? .....YES_____NO X

3.8 12V DC OUTLETS

There shall be two (2) Cigar style 12V DC outlets, one located in the action area, and one above the right In/Out ALS compartment counter.

COMPLY? .....YES X NO _____

3.9 11OV AC SYSTEM

There shall be a weatherproof 11OV- 125V male Kussmall receptacle rated at 20 amps with a spring-loaded cover assembly located on the front left corner of the module body for incoming 110-volt power. This receptacle shall be labeled. It shall be wired through one 15-amp circuit breaker. A shoreline indicator will be included above the shoreline outlet. The circuit shall include (1) 110-volt/USB interior receptacle located in the action wall area, (1) one rear of the CPR seat above the rear counter, (1) one the bench wall above the In/Out countertop, (1) six outlet power strip inside the In/Out compartment and (1) in the chassis cab behind the passenger street. All outlets shall illuminate per KKK-A-1822-F.

A Vanner Inverter/Conditioner w/remote switch, Model 20-1050-CUL will be supplied

COMPLY? .....YES X NO _____

3.10 LIGHTING, EMERGENCY

The unit shall be equipped with the following warning lights:

14) Whelen 900 Series 9 x 7 red/blue split LED lights as follows:
- 6) Facing forward
- 4) Facing rearward
- 2) Facing right
- 2) Facing left

1) Whelen Series 9 x 7 clear LED light installed top center forward.
1) Whelen Series 9 x 7 amber LED light installed top center rearward.
2) Whelen 500 Series red LED lights mounted in the Front Fenders.
3) Whelen 500 Series red LED lights mounted in lower corners of entry doors.
4) Whelen 500 Series 500 red LED's in Chrome Housings in the Grill.
6) Whelen LED Strip lights installed in the rub rails. (3) per side.

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

COMPLY? .....YES _____ NO X

3.11 SCENE LIGHTS

There shall be four (4) LED Whelen 900 Series 9 x 7 with 13-degree tilt built into the lenses mounted two (2) lights on the left side and two (2) lights on the right side. There shall be two (2) LED Whelen Series 9 x 7 with 13-degree tilt built into the lenses mounted on the rear. A separate switch on the driver's switch panel shall control each pair. In addition, the right side and rear scene lights shall activate when the right side or rear doors, respectfully, are open.

COMPLY? .....YES X NO _____

3.12 DOOR SWITCHING

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

COMPLY? .....YES X NO _____

3.13 SIREN AND SPEAKERS

Two (2) - Sirens shall be installed Whelen Model 295 SL SA-1 with Wail, Yelp, Hi/Lo and Phaser sounds, the second siren may be switch controlled with wail/yelp. Dual Cast Products Siren Speakers shall be mounted outboard in the face of the Chrome Front Bumper, below the Headlights, in cast aluminum housings. One speaker per siren.

COMPLY? .....YES_____NO X

3.14 SPOTLIGHT

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

COMPLY? .....YES_____NO X

3.15 LIGHTS, PATIENT COMPARTMENT

The ceiling headliner shall contain eight (9) Whelen High - Low intensity LED dome lights. The left and right banks of lights shall be switched separately. In addition, the left bank high mode can be switched from the drivers switch panel and will be activated by opening of the side or rear entry doors. There shall be a timer switch installed in the right wall above the In/Out cabinet countertop. The timer switch will allow the left bank of Dome Lights to turn on even when the master switch is in the off position.

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

COMPLY? .....YES_____NO X

3.16 CLOCK, PATIENT COMPARTMENT

A battery-powered Atomic Digital Clock w/Indoor Temp. & Date. 12/24 Hour display, Automatic updates for time (including DST), month, day, date Calendar.

COMPLY? .....YES X NO _____

3.17 SUCTION - ON BOARD

An SSCOR/Board On Board suction system with an Impact E-12 Suction Pump shall be provided and mounted on the back wall above the action area counter top just forward of the CPR Seat.

COMPLY? .....YES_____NO X

3.18 VENTILATION

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

COMPLY? .....YES X NO _____

3.18 a AIR HORNS

Buell air horns with (2) mounted trumpets, air compressor, and air reserve tank. Air horn activated by rocker switch on the console. Trumpet location to be determined with award.

3.19 LOW VOLTAGE ALARM

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

COMPLY? .....YES X NO _____

3.20 SWITCH CONSOLE, DRIVER'S

There shall be a switch console mounted in the center of the cab floor between the seats in such a way as to not interfere with access to the dash yet easily accessible to the driver. The console shall be easily removable to allow access for service. There shall be space provided for the installation of radios below the Weldon V-Mux Switch Panel. The switch panel shall be esthetically appealing and incorporate as follows:

Top Row:
"E" Master Switch / Primary/Secondary / Light Bar / Heat - AC / Patient Domes / Mod Power

Second Row:
"OLED" Display Screen / Back up Alarm Disable / Voltage Alarm Disable

Third Row:
Door Ajar Light / Compartment Ajar Light

Bottom Row:
Emitter / Siren - Horn / Left Scenes / Rear Scenes / Right Scenes

COMPLY? .....YES_____NO X

3.20.1 SWITCH CONSOLE, PATIENT COMPARTMENT

There shall be (2) rear control panels in the patient compartment. (1) one in the action area, (1) one on the bench wall. The following switches shall be in the rear control panel, which shall be hinged for easy access to components. They shall be mounted in a double row at an angle facing the center of the cot and the squad bench.

Top Row:
Mod Power / Left Domes / Right Domes / O2 Light / Attendant Light

Bottom Row:
Inverter / Suction / Exhaust Fan / HVAC Fan Speeds / Heat - AC

COMPLY? .....YES_____NO X

All switches in front and rear panels shall be Weldon Button Pod switches that are permanently marked by function, illuminate when activated and backlit for night visibility.

COMPLY? .....YES X NO _____

4.0 PATIENT COMPARTMENT

4.1 FLOOR, PATIENT COMPARTMENT

The sub floor shall consist of .090" thick 3003 H14 corrosion resistant aluminum sealed watertight. Over the aluminum sub-floor there shall be a sheet of ¾", 13 ply, exterior grade plywood that is caulked and sealed.

COMPLY? .....YES_____NO X

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

COMPLY? .....YES X NO _____

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

COMPLY? .....YES X NO _____

4.2. CABINET'S, INTERIOR

All interior cabinets shall be built using ¾" cabinet grade, finished both sides, 7 ply, solid core, birch plywood. The use of plywood of any lesser quality or thickness is strictly prohibited.

COMPLY? .....YES_____NO X

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

COMPLY? .....YES X NO _____

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

Interior cabinets to be lighted with On/Off switch in control panels.

COMPLY? .....YES X NO _____

4.2.1 CABINETS, LEFT WALL

Cabinets shall be designed as per drawings with a one-piece molded Fiberglass countertop for the attendant in the action area and rear of the CPR seat. Storage cabinets shall be located in the left rear, above the CPR seat, and above the action area. The cabinet above the action area will have the same angle front to back as the cabinet with the switch panel. Cabinets fore and aft of the CPR seat to be angled. (2) Two cabinet to have tilt up speed load cabinet windows. Track type adjustable shelving in interior cabinets.

(2) Two pull out drawers for general storage installed fore and aft of the CPR seat. (1) 20" W x 7" T forward of the CPR seat and (1) 20" W x 4" T rear of CPR seat.

COMPLY? .....YES_____NO X

The action wall shall house the technician's console, two oxygen outlets, vacuum outlet, aspirator collection bottle, climate control thermostat and fan control, one 12-volt connection and one lighted 110V/USB duplex outlet. The upper action wall area shall be hinged for ease of access. The action area counter to be extended to 73".

A locking narcotics cabinet will be installed in the action area

COMPLY? .....YES X NO _____

4.2.2 BULKHEAD CABINETS

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

The bulkhead shall incorporate a pass-through Plexiglas sliding window from the rear patient compartment to the front cab. This window shall be sealed and weatherproof via a flexible rubber boot connection between the cab and the modular body.

COMPLY? .....YES X NO _____

4.2.3 SQUAD BENCH CABINETS

Cabinets shall be mounted at the ceiling level directly over the entire length of the squad bench. They shall have "flip-up" Plexiglas doors. There must be a minimum of 43" from the bottom of these cabinets to the top of the squad bench. An angled switch panel shall be installed forward of the bench. A 26" W x 14" T X 21" D cabinet with a tip up door and Southco latch will be installed above the In/Out cabinet.

A (4) slot glove storage will be installed above the side entry door.

A custom In/Out cabinet will be installed forward of the squad bench, it shall include a fiberglass counter top, adjustable shelf and a slid-out drawer that slids toward the rear.

COMPLY? .....YES_____NO X

4.2.4 SQUAD BENCH

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

COMPLY? .....YES_____NO X

4.3 SEAT, EMT / ATTENDANT

An attendant seat shall be located at the head of the primary cot. It shall be a high back deluxe seamless vinyl captain's chair with an integrated child safety seat mounted on a swivel base as approved by the seat manufacturer. Seat belt shall be included for attendant safety.

COMPLY? .....YES X NO _____

4.3.1 CPR Seat Cabinet

A single cabinet shall be mounted at the ceiling level directly over the entire length of the CPR seat. It shall have a "flip-up" style Plexiglas door. There must be a minimum of 43" from the bottom of this cabinet to the top of the CPR seat cushion.

COMPLY? .....YES_____NO X

4.3.2 SEAT, CPR

A sidewall seat will be mounted in the center of the left wall. This seat will be comprised of three molded/contoured seamless vacuum formed vinyl cushions. A seat belt shall be provided for attendant safety. Cushions shall be vacuum-formed seamless. One-inch cushions shall be installed on three sides of head area.

COMPLY? .....YES X NO _____

4.4 UPHOLSTERY

All door panels, seat cushions, and protective pads shall be constructed of fire-retardant foam, covered with minimum 40-ounce vinyl. All seat and back cushions in the patient compartment shall be vacuum-formed seamless.

COMPLY? .....YES X NO _____

4.5 HEADLINER

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

COMPLY? .....YES_____NO X

4.6 PANELING, INTERIOR

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

COMPLY? .....YES X NO _____

4.7 GRAB RAIL, OVERHEAD

A full-length yellow handicap style 1 1/2" diameter grab rail shall be installed on patient compartment ceiling. This rail shall be capable of supporting a minimum of 300 pounds. This Rail shall be treated with Agion Anti-Bacterial Coating.

COMPLY? .....YES X NO _____

4.8 GRAB HANDLES, DOORS

All entry doors will have a matching yellow heavy-duty stainless-steel handicap style 1 1/2" "V" bar grab handle that will be securely mounted slightly below the window. These Bars shall be treated with Agion Anti-Bacterial Coating.

A yellow 12" grab bar will be installed inside of the side entry and rear doors to allow ease of entry.

COMPLY? .....YES X NO _____

4.9 STAINLESS STEEL WALL

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

COMPLY? .....YES X NO _____

4.10 COT MOUNT

A Stryker floor plate shall be installed. A Stryker Mass casualty kit, Antlers and cot latch will be supplied.

COMPLY? .....YES X NO _____

4.11 INSULATION

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

COMPLY? .....YES X NO _____

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

COMPLY? .....YES X NO _____

4.12 CLIMATE CONTROL

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

COMPLY? .....YES X NO _____

The unit shall be a Pro-Air with 32,000 BTU cooling capacity and a 35,000 BTU heating capacity. The blower motor shall have permanent magnets and be capable of delivering 630 CFM of airflow. It must be removable without removing entire heat/cool unit and without disconnection of any coolant lines. The unit must include an auxiliary HVAC underskirt condenser. **NO EXCEPTIONS**

COMPLY? .....YES X NO _____

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

COMPLY? .....YES X NO _____

4.13 SHARP'S CONTAINER

Drop-in Sharp's/Waste access will be installed at the head of the bench with access to containers through a swing out door under the bench lid for ease of replacing.

COMPLY?..... YES_____NO X

4.13 a ADU UV-C AIR AND SURFACE DISINFECTION LAMP

SHALL BE RECESSED MOUNTED IN THE CEILING HEADLINER WITH CONTROLS MOUNTED IN THE CAB OF THE AMBULANCE.

4.14 OXYGEN OUTLETS

Oxygen system shall be plumbed with conductive hose from oxygen compartment to (2) two Puritan-Bennett Ohio style oxygen outlets in the action area, (2) two in the ceiling above the cot and a third over the In/out counter on the bench wall.

COMPLY? .....YES NO _____

5.0 EXTERIOR BODY

5.1 REAR WHEEL WELL TRIM

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

COMPLY? .....YES_____NO _X_

5.2 RUB RAILS

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

COMPLY? .....YES_X_NO _____

5.3 BUMPER, REAR STEP

The rear step assembly shall be constructed of 1 ¾" X 1 3/4" tubular steel frame bolted to the chassis frame. The center section shall be non-skid grip strut aluminum and shall "Flip-Up" to allow adequate clearance of the Cot Wheels while Cot is being loaded. The ends shall be constructed of diamond plate end caps with 18" X 4" X 4" heavy-duty rubber dock bumpers.

COMPLY? .....YES_____NO _X_

5.4 DOORSTEP, SIDE

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

COMPLY? .....YES_X_NO _____

5.5 STONE SHIELDS

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

COMPLY? .....YES_X_NO _____

5.6 EXTERIOR COMPARTMENT CONFIGURATION

NOTE: See Drawings for Exact Compartment Location and Dimensions

#1 OXYGEN / BACKBOARD COMPARTMENT

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

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

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

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

COMPLY? .....YES_X_NO _____

#2 GENERAL STORAGE COMPARTMENT

This compartment shall be located street side between the #1 compartment and the left side drive wheels and is to be used for general storage. There is to be a double door on this compartment.

There shall be a full width, full depth aluminum "pan" style storage shelf installed in the compartment. The shelf is to be mounted on two (2) sets of infinitely adjustable uni-strut tracks at each end of the shelf with rubber matting covering the topside of the shelf.

COMPLY? .....YES_X_NO _____

#4 SPARE TIRE COMPARTMENT

The spare tire shall not be mounted in a compartment but delivered with the truck. The cabinet shall have an adjustable shelf centered in the cabinet for general storage.

COMPLY? .....YES_X_NO _____

#5 CURBSIDE BACKBOARD COMPARTMENT

The right rear curb side exterior compartment shall be a single door full height vertical compartment for the purpose of storing a minimum of two (2) backboards, and miscellaneous other related equipment. The compartment is to be divided equally with an aluminum divider. There shall be a shelf located on the forward side of the divider approximately 5' above the floor. This compartment to have In/Out Access through a 3/8" plexi door.

COMPLY? .....YES X NO _____

#7 ALS IN/OUT ACCESS

There shall be a single 49" tall x 29" W door located just rear of the side entry door (curbside) allowing for In/Out access to the ALS interior cabinet.

COMPLY? .....YES X NO _____

5.7 LIGHTING, DOT

The vehicle shall be equipped with jewel affect daytime running headlights and two amber park/turn lights on the front. The Module Body shall have at least 11 Innovative Brand LED clearance lights with "each light having four (2) LED's and grounded via a ground wire". Each top front corner shall have amber lights mounted on the front and side of each corner.

There shall be three red lights at the top rear center of the module. Each top rear corner shall have red lights mounted on the rear and side of each corner. There shall be three amber lights mounted on the center front of the cab roof.

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

All lights shall be as per I.C.C. requirements.

COMPLY? .....YES X NO _____

6.0 BODY FINISH

6.1 PAINTING PROCEDURE

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

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

COMPLY? .....YES X NO _____

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

COMPLY? .....YES X NO _____

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

COMPLY? .....YES X NO _____

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

COMPLY? .....YES_X_NO _____

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

COMPLY? .....YES_X_NO _____

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

COMPLY? .....YES_X_NO _

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

COMPLY? .....YES_X_NO _____

6.2 PAINT & GRAPHICS DESIGN
The unit is to match the paint and graphics of the current Independence Fire Department fleet.

Chevrons will be included on smooth aluminum plates to the lower portion of the module entry doors.

COMPLY? .....YES_X_NO _____

7.0 PAYLOAD

7.1 PAYLOAD
There shall be a minimum of 5,000 lbs. of usable payload. Weight determination shall be made with standard unit, full complement of fuel, fluids and spare tire. Any optional equipment shall be deducted from payload.

COMPLY? .....YES_____NO _X_

8.0 MISCELLANEOUS EQUIPMENT

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

COMPLY? .....YES_X_NO _____

8.2 I.V. HOLDERS

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

COMPLY? .....YES_X_NO _____

8.3 ANTENNA, POWER & GROUND PRE-WIRE

(3) two pre-wire antenna coaxial cables delivered to the drivers switch console. There shall be a raceway provided to be able to run radio cable from the cab to the patient compartment. (3) NMO style antenna mounts will be installed in the module roof.

(3) Power and grounds will be installed for power of two-way radios.

COMPLY? .....YES_X_NO _____

8.4 WIRING SCHEMATIC

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

COMPLY? .....YES_X_NO _____

STEREO SPEAKERS

Stereo Speakers will be installed in the rear area of the headliner tied into the factory chassis stereo system with a volume control installed in the action area.

COMPLY? .....YES_X_NO _____

9.0 WARRANTY

9.1 WARRANTY COVERAGE (See Warranty Certificate for Details)

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

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

COMPLY? .....YES_____NO _X_

10.0 REQUIREMENTS OF THE MANUFACTURER

10.1 KKK-A-1822-F CERTIFICATION

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

COMPLY? .....YES_X_NO _____

10.2 FORD QVM PROGRAM

This unit shall meet all Ford QVM Program requirements and the manufacturer shall be a current member in good standing of the Ford QVM Program.

COMPLY? .....YES_X_NO _____

10.3 AMD / NTEA MEMBERSHIP

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

COMPLY? ..... YES X NO _____

10.4 REMOUNTING AND REFURBISHING

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

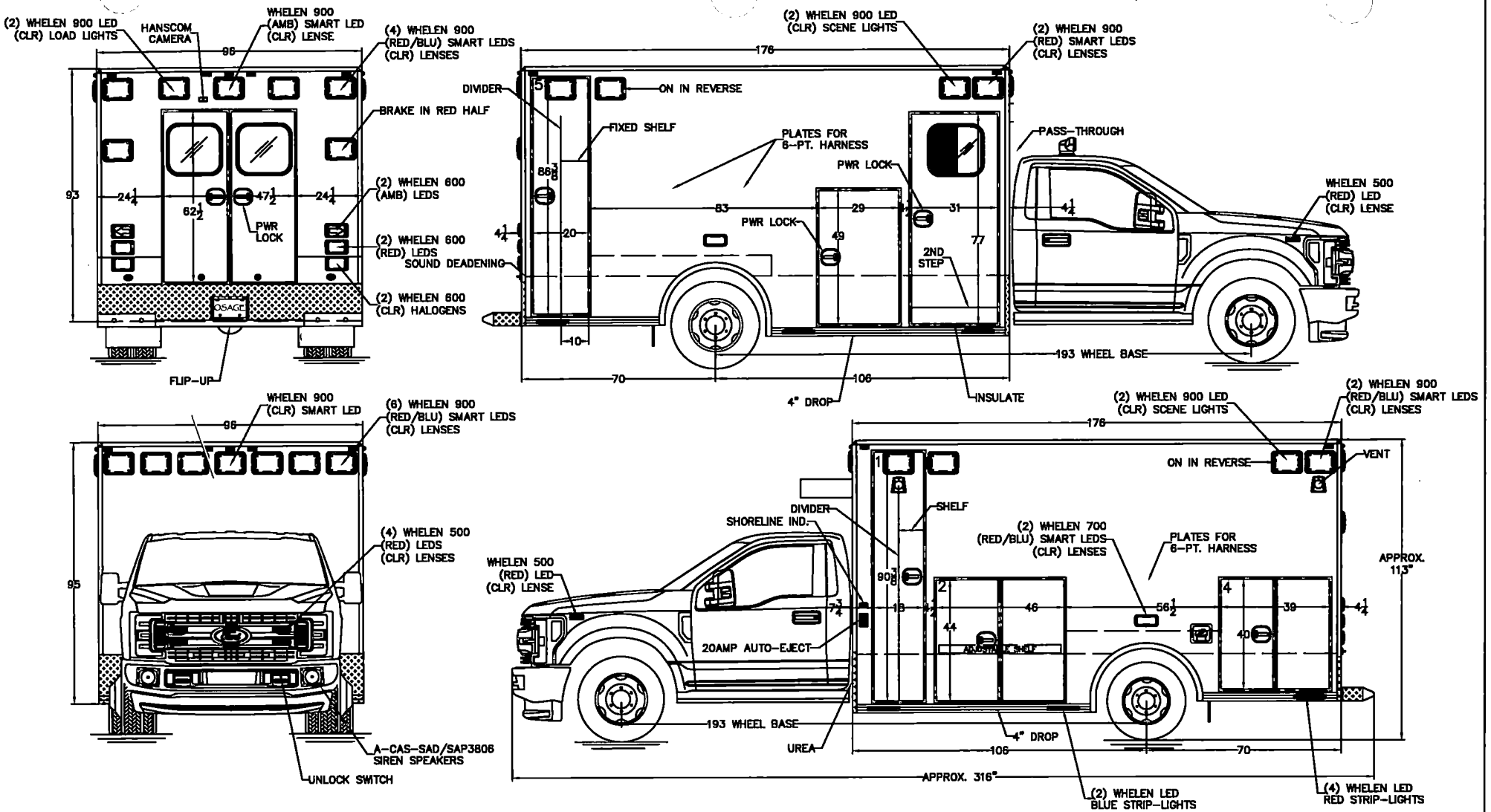
COMPLY? ..... YES X NO _____

10.5 FORD POOL ACCOUNT PROGRAM

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

COMPLY? ..... YES X NO _____

POSITIVELY NO EXCEPTIONS ALLOWED TO SECTION'S 9.1 THROUGH 10.5


(2) WHELEN 900 LED (CLR) LOAD LIGHTS
HANSCOM CAMERA
WHELEN 900 (AMB) SMART LED (CLR) LENSE
(4) WHELEN 900 (RED/BLU) SMART LEDS (CLR) LENSES
BRAKE IN RED HALF
(2) WHELEN 600 (AMB) LEDS
(2) WHELEN 600 (RED) LEDS
SOUND DEADENING
(2) WHELEN 600 (CLR) HALOGENS
PWR LOCK
FLIP-UP
OSAGE
96
93
24 1/4
47 1/2
62 1/2
(2) WHELEN 900 LED (CLR) SCENE LIGHTS
(2) WHELEN 900 (RED) SMART LEDS (CLR) LENSES
176
DIVIDER
ON IN REVERSE
FIXED SHELF
PLATES FOR 6-PT. HARNESS
PWR LOCK
PASS-THROUGH
WHELEN 500 (RED) LED (CLR) LENSE
86 3/8
83
29
31
4 1/4
20
49
77
2ND STEP
10
70
106
193 WHEEL BASE
4" DROP
INSULATE
WHELEN 900 (CLR) SMART LED
(6) WHELEN 900 (RED/BLU) SMART LEDS (CLR) LENSES
(4) WHELEN 500 (RED) LEDS (CLR) LENSES
95
A-CAS-SAD/SAP3806 SIREN SPEAKERS
UNLOCK SWITCH
(2) WHELEN 900 LED (CLR) SCENE LIGHTS
(2) WHELEN 900 (RED/BLU) SMART LEDS (CLR) LENSES
ON IN REVERSE
VENT
SHELF
DIVIDER
SHORELINE IND.
(2) WHELEN 700 (RED/BLU) SMART LEDS (CLR) LENSES
PLATES FOR 6-PT. HARNESS
WHELEN 500 (RED) LED (CLR) LENSE
APPROX. 113"
90 3/8
7 3/4
13
1 1/2
46
56 1/2
39
4 1/4
44
40
20AMP AUTO-EJECT
193 WHEEL BASE
UREA
4" DROP
106
70
APPROX. 316"
(2) WHELEN LED BLUE STRIP-LIGHTS
(4) WHELEN LED RED STRIP-LIGHTS

BRAUN NW inc.

150 North Star Drive / PO Box 1204 / Chehalis, WA 98532 / 360.748.0195 / 800.245.6303 / fax 360.748.0256

February 15, 2021

City of Independence
Attn: City Hall
811 W Laurel St.
Independence, KS 67301

RE: "Ambulance Bid"

To Whom It May Concern:

Thank you for the opportunity to make an offer on your next ambulance. Enclosed is our complete offering in response the above referenced bid. Due to our current work load, we are unfortunately not able to complete a new matching proposal within the three week bid window, but we offer for your consideration as an alternate bid proposal our #155-1 Concept Demo ambulance with dual side-mounted attendant seats and oxygen cylinder lift compartment, along with an option page for several upgrades, including a Ford F-450 or F-550 chassis with LiquidSpring suspension system, Stryker Power-LOAD cot fastener, recessed UV-C sanitizing system, etc.

Braun Northwest, Inc. is located in Chehalis, Washington, and has been manufacturing Custom Emergency Vehicles for over 33 years. All vehicles are made right here in our Chehalis plant. Not only can you buy direct from Braun Northwest with no need for dealers, you can also count on us for repairs, painting, electrical work, remounting, and other maintenance. We work directly with agencies to identify how we can best fit their needs when it comes to service, including setting up a service provider of your choice in your area. We also work with Emergency Apparatus Maintenance, Inc. which has 18 fully-equipped service trucks and offers on-site maintenance and repair, as well as 24 hour emergency service.

In various sections of this binder you will find additional information regarding testing, KKK, QVM, Licenses, and Insurance, etc. Should you have any questions at all, please don't hesitate to call us directly.

Thanks again and we look forward to hopefully having the opportunity to work with the City of Independence.

Regards,

Tami McCallum
Vice President Sales

TM/sel
Cc: MH

BRAUN NW inc.

150 North Star Drive / PO Box 1204 / Chehalis, WA 98532 / 360.748.0195 / 800.245.6303 / fax 360.748.0256

ALTERNATE BID PROPOSAL

FEBRUARY 15, 2021

CITY OF INDEPENDENCE
ATTN: CITY HALL
811 W LAUREL STREET
INDEPENDENCE, KS 67301
davids@independenceks.gov

RE: AMBULANCE BID

BRAUN NORTHWEST IS PLEASED TO OFFER THE FOLLOWING PROPOSAL:

ONE (1) 2021 NORTH STAR 155-1 AMBULANCE DEMONSTRATOR #2889-1 ON A 2021 FORD F-350 4X4 AMBULANCE PREP DIESEL CHASSIS PER ENCLOSED "AS-BUILT" SPECIFICATIONS DATED 5/19/2020 AND DRAWINGS DATED 12/17/19 WITH THE FOLLOWING CHANGE:

- **Utilize 2021 Ford F-350 4x4 diesel chassis**

TOTAL AMOUNT F.O.B INDEPENDENCE, KS..... $176,991.00
Sales tax not included

BID DUE: FEBRUARY 18, 2021 AT 2 PM

F.O.B.: INDEPENDENCE, KANSAS

DELIVERY: APPROXIMATELY 280 DAYS ARO

TERMS: NINETY PERCENT (90%) PAYMENT DUE UPON RECEIPT OF VEHICLE. BALANCE DUE IN THIRTY (30) DAYS.

NOTE: VEHICLE OFFERED ON A FIRST COME FIRST SERVED BASIS AND IS BEING OFFERED TO OTHER AGENCIES. MILEAGE ACCRUING.

Braun Northwest, Inc. is a Washington dealer (0991-A) with insurance information available upon request.

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

Respectfully Submitted by:
BRAUN NORTHWEST, INC.

Tami McCallum, V.P. Sales

Date: 2/15/2021

We agree to accept the above proposal:
CITY OF INDEPENDENCE

Signature **Date**

Printed Name **Title**

TM
cc: MH
Enclosures: Options, clarifications/exceptions, specifications, drawings, bid packet, and supporting documents

NORTH STAR
EMERGENCY VEHICLES

www.braunnw.com

OPTIONS
FOR
City of Independence
Independence, Kansas

Please indicate if you want the following options by initialing in the space provided and checking the appropriate "yes" or "no" box, then sign where indicated below. After completion, please return this original form to our office along with the original proposal.

Thank you!

1. Install a center-mounted Stryker #6370 antler/rail cot mount.
   Set up for Cot Model #_____ (fill in blank)
   ADD..... No Charge
   Do you want this option? ☐Yes ☐No _____initials

2. Install ***customer-supplied*** Stryker Power-LOAD cot loading system.
   ADD..... $850.00
   Do you want this option? ☐Yes ☐No _____initials

4. Utilize a 2022 F-450 4x4 diesel chassis in lieu of a 2021 F-350 4x4 diesel, with LiquidSpring suspension.
   Note: Vehicle payload will be reduced by each option that is added (e.g. Adding Stryker Power-LOAD and LiquidSpring suspension alone results in a 453 lb reduction in payload capacity). At a minimum, if a Stryker Power-LOAD and LiquidSpring are added, BNW recommends upgrading to an F-450. In order to achieve a 5,000 lb payload, per the bid, an F-550 would be required.
   ADD..... $17,420.00
   Do you want this option? ☐Yes ☐No _____initials

5. Utilize a 2022 F-550 4x4 diesel chassis in lieu of a 2021 F-350 4x4 diesel chassis, with LiquidSpring suspension.
   ADD $17,866.00
   Do you want this option? ☐Yes ☐No _____initials

6 Utilize a Zico VS-24-9 electric step with 7.625" drop under the curbside passage door, to extend/retract with door.
   ADD.....$2,300.00
   Do you want this option? ☐Yes ☐No _____initials

7. Install a UV-C infection control system in module ceiling with timer and warning label installed Compartment #5. The light shall be powered only with the shoreline.
   ADD..... $2,400.00
   Do you want this option? ☐Yes ☐No _____initials

8. Install prewire, with 10 ga. power and 10 ga. ground, for two (2) ***customer-supplied-and-installed*** radios.
ADD..... $400.00
Do you want this option? ☐Yes ☐No _____initials

9. Paint lower portion of vehicle red, add white Scotchlite beltline stripes (three total), and install logos and lettering to match prior #2889-1 City of Independence demo.
ADD..... $9,400.00
Do you want this option? ☐Yes ☐No _____initials

(NOTE: THIS PRICING DOES NOT INCLUDE SALES TAX.)

APPROVED BY: *(Please initial above choice (s) & sign below)*

_____	_____	_____	_____
(Signature)	(Date)	(Printed Name)	(Title)

BRAUN NORTHWEST, INC.

DETAILED SPECIFICATIONS
FOR
NEW 155-1 DEMO
VEHICLE #2889-1

1 CHASSIS

1.01 OEM CHASSIS

- 2019 Ford F-350, 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
  - Provided by Braun Northwest

1.01.01 SPECIFIC RATINGS

- Drive – 4 x 4
- G.V.W.R. – 14,000 lbs.
- Front Axle – 5,250 lbs.
- Rear Axle – 9,750 lbs.
- Wheelbase – 169"
- Cab to Axle – 84"
- Curb Weight – 10,500 lbs. approximate
- Front Spring Capacity – 5,250 lbs.
- Rear Spring Capacity – 9,750 lbs.
- Rear Differential – 4.10 ratio, limited slip wide track rear axle

1.01.02 POWER TRAIN

- Engine
  - 6.7L 4V Power Stroke V8 turbo diesel B20
  - Diesel Emission Fluid (DEF) System with operator-commanded regneration
  - 5 years/100,000 mile warranty
  - External oil cooler
  - Factory diesel package
  - 1,000 watt engine 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
  - External oil cooler in chassis grille area
  - Tow/Haul Mode with Integrated Exhaust Brake
  - Electronic Shift on the Fly with auto-locking wheel hubs

- Exhaust System
  - System complies with Federal Motor Carrier Safety Regulations, Part 393.83
  - Suspended using three 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.

1.01.03 STEERING

- Power assisted tilt steering wheel

1.01.04 SHOCK ABSORBERS/STABILIZER BARS

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

1.01.05 BRAKES

- Heavy duty power assisted four wheel ABS; front and rear disc
- Front 13.66" diameter; Rear 13.39" diameter
- Trailer Brake Controller

1.01.06 TIRES AND WHEELS

- Seven OEM LT 245-75R-17E all-season steel belted radials
- Seven OEM 17" steel wheels
- OEM jack and tire changing tools
- Spare tire and wheel shipped loose

1.01.07 ELECTRICAL

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

1.01.08 INSTRUMENT PANEL AND CONTROLS

- Gauges
  - Tachometer
  - Coolant Temperature
  - Transmission Fluid Temperature
  - Fuel
  - Speedometer
  - Indicator lights
  - Odometer/Trip Odometer
  - Turbocharger Boost
- Tire Pressure Monitoring System
- Cruise Control
- Audio – OEM AM/FM/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

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 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
- Lights
  - Headlamps – Quad beam jewel effect
  - Roof clearance light
  - Under hood service light
- Fuel – OEM 40 gallon tank

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
  - Dual dome lights
  - Auxiliary power point(s)
  - Interior hood release
  - Power door lock & windows
  - Remote keyless entry
  - Adjustable gas and brake pedals

1.01.11 COLORS

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

1.02 CHASSIS MODIFICATIONS

The following modifications shall be made to the chassis by Braun Northwest.

1.02.03 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.

1.02.04 EXHAUST HEAT SHIELDS

Shall be formed from 20 ga. galvanized sheet metal 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.

1.02.05 RUNNING BOARDS WITH SPLASH GUARDS

Running boards made of 0.125" bright aluminum diamond plate for a Ford F-350 cab shall be securely mounted on both sides of the chassis with OEM fasteners.

1.02.09 MUD FLAPS

Mud flaps with the "NORTH STAR" logo shall be installed behind each rear wheel.

1.02.60 CAB CONDUIT

A 5.5" cab 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.

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.

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"W x 15"H opening (3.04.01 related).

Two stainless steel brackets shall be installed, one to support the top of the boot and one to protect the bottom of the pass-thru (Section 2.13 related).

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 shall 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.

2.01 MATERIAL

EXTRUSIONS	SIZE	ALLOY
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

FORMED SHEETING	SIZE	ALLOY
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

2.02 MODULE DIMENSIONS

Drop Skirt	4.00 "

Overall Vehicle Dimensions (Specifications are listed as minimums.)

Length	23 '	9.25 "	285.25 "
Width (excluding mirrors)	8 '	0 "	96.00 "
Height (Approximate)	9 '	4.25 "	112.25 "

Exterior Module Dimensions (Specifications are listed as minimums.)

Length	12 '	11 "	155.00 "
Width	8 '	0 "	96.00 "
Height	7 '	8.375 "	92.38 "

Interior Dimensions (Specifications are listed as minimums.)

Length	Forward Wall to Rear Wall	148.00 "
Width	Left Wall to Right Wall	91.00 "
Floor Width	Left Cabinets to Squad Bench	50.25 "
Height	Floor to Ceiling	72.00 "

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.

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.

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 seam.

2.06 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.

2.07 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.

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.

The module roof front and rear edges shall be constructed to allow mounting of recessed lightbars.

2.08 **MODULE EXTERIOR COMPARTMENTS**

All compartments shall be constructed from formed 0.125" aluminum, 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 track, which is securely welded to compartment interiors. Each shelf shall support at least 300 lbs. of equipment.

COMPARTMENT #1

Interior Dimensions – 51"W x 43"H x 20"D
Doorway Dimensions – 51"W x 43"H
Location – Street side, forward
Shelving – Two adjustable: One bin type 15" W with notch on forward wall to allow access to the power box and one full width.
Door(s) – Double
Light(s) – One LED strip light
Additional Instructions – The 120VAC Power Box shall be installed in the forward wall (Section 6.21 related), recessed so as not to protrude into the compartment.
Compartment will have four vertical strips of adjustable track on the back wall. This will allow the bin shelf to be installed fore or aft in the compartment. The forward wall of the bin shelf shall be notched to allow better access to the 120VAC box. Two vertical strips of adjustable track shall be added to each of the side walls for installation of the full-length shelf.
A spare tire and mount shall be installed on the back wall of the aft section.
An inverter with perforated surround shall be installed on the forward wall of this compartment. (Section 6.31 related)
A filtered vent shall be added to the forward wall. A soffit vent shall be added to the back wall of the compartment in line with the inverter.

COMPARTMENT #2

Interior Dimensions – 20"W x 74"H x 11.5"D
Doorway Dimensions – 20"W x 74"H
Location – Street side, rear
Shelving – None
Door(s) – Single
Light(s) – One LED strip light
Additional Instructions – A painted aluminum oxygen lift shall be installed on the back wall of the compartment. Lift shall have a step plate which doubles as the compartment floor and seal the compartment from road debris. Handles shall be provided to assist in lowering the lift for cylinder replacement. Gas shocks shall be used to provide cylinder lifting force. A lever shall be provided for locking the lift in the raised or lowered position. Lift shall have four UHMW-reinforced straps for securing a ***customer-supplied-and-installed*** M or H sized oxygen cylinder (Section 4.10X related). The door skin shall be pocketed to provide clearance for the ratcheting oxygen cylinder straps.

COMPARTMENT #3
Interior Dimensions – 20″W x 77″H x 20″D
Doorway Dimensions – 20″W x 74″H
Location – Curbside, rear
Shelving – One adjustable 10″W adjustable bin shelf
Door(s) – Single
Light(s) – One LED strip light
Additional Instructions – Two backboard restraining straps shall be installed in the aft portion of the compartment. A formed stainless-steel gasket cover shall be installed so that backboards do not cut gasket material.
An aluminum strap shall be installed between the bin shelf and the rear wall to assist in holding backboards in place.
A boot-shaped bracket shall be installed in the lower forward section of the compartment for storage of a ***customer-supplied-and-installed*** stair chair.
A filtered vent shall be installed in the aft wall of the compartment.

COMPARTMENT #4
Interior Dimensions – 25″W x 24″H x 20″D
Doorway Dimensions – 23″W x 16.5″H
Location – Curbside, aft of wheel well
Shelving – None
Door(s) – Single
Light(s) – One LED strip light
Additional Instructions – None

COMPARTMENT #5
Interior Dimensions – 24.875″W x 71.75″H x 29″D
Doorway Dimensions – 22.75″W x 71.75″H
Location – Curbside, forward
Shelving – See Cabinets #19 and #20
Door(s) – Single
Light(s) – One LED strip light
Additional Instructions – This compartment shall have a full width stainless steel threshold on the floor level shelf and provide inside/outside access to Cabinets #19 and #20. The below floor area shall be for general storage.

2.09 MODULE DOORS

The doors shall be box pan formed with a total thickness of 2″.

2.09.01 DOOR FRAMES 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.

2.09.02 DOOR HINGES

Compartment and passage doors shall have full-length, piano-type, 2.5″W stainless steel hinges, positioned with 0.25″ rivets at each end. The hinges shall be attached with #12 x 0.75″ stainless steel truss head screws spaced 4″ apart, sealed with Sikaflex. All curbside and street side side-hinged doors shall be hinged on the forward sides; and all rear side-hinged doors shall be hinged on the outboard sides.

2.09.03 **DOOR LATCHES**

Exterior door handles shall be semi-flush, chrome-plated Eberhard E Grabber #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 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, one at the top and bottom of each door and accessible from the inside of the module.

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.

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.

2.09.06 **REAR DOOR CONTROL**

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

2.09.07 **COMPARTMENT DOOR SKINS**

Each compartment door skin 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. Door skins 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.

2.09.08 **ENTRANCE DOOR SKINS**

Shall be 0.080" bright aluminum diamond plate and 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 street side rear door shall have conspicuity tape on the top and bottom edges.

2.09.09 **ENTRANCE DOORWAYS**

One curbside and two rear module entrance doors shall be provided. The curbside doorway dimensions shall be 31"W x 77.75"H. The rear doorway dimensions shall be 49.75"W x 66"H.

2.09.10 **THRESHOLDS**

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

2.10 **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.

CABINET #1
Dimensions – 30"W x 13.75"H x 15.75"D
Location – Street side, upper forward
Shelving – One adjustable
Door(s) – Sliding, clear 0.177" acrylic with felt-lined anodized aluminum track and fully-extruded aluminum door pulls
Lighting – LED under-cabinet strip light (Section 6.14 related)
Additional Instructions – None

CABINET #2
Dimensions – 30"W x 13.75"H x 15.75"D
Location – Street side, upper middle
Shelving – One adjustable
Door(s) – Sliding, clear 0.177" acrylic with felt-lined anodized aluminum track and fully-extruded aluminum door pulls
Lighting – LED under-cabinet strip light (Section 6.14 related)
Additional Instructions – An angled close-out shall be installed at the aft end of this cabinet. One oxygen outlet shall be installed under the angled close-out.

CABINET #3 – Glove Storage
Dimensions – 37.25"W x 5.75"H x 6.5"D
Location – Street side, rear upper
Shelving – None
Door(s) – Bottom-hinged painted aluminum with a quarter-turn latch and four cut-outs
Lighting – LED under-cabinet strip light (Section 6.14 related)
Additional Instructions – This cabinet shall be set up as glove storage (Section 5.32 related).

CABINET #4
Dimensions – 15"W x 13.75"H x 8.5"D
Location – Street side, rear upper
Shelving – One adjustable
Door(s) – Top-hinged clear polycarbonate with a gas shock hold open device, with a twist/slam latch and fully-extruded aluminum door pulls
Additional Instructions – None.

CABINET #5
Dimensions – 19"W x 24"H x 8.5"D
Location – Street side, rear middle
Shelving – Two adjustable
Door(s) – Aft-hinged clear polycarbonate with a twist/slam latch and fully-extruded aluminum door pulls
Additional Instructions – None.

CABINET #6
Dimensions – 19"W x 24"H x 8.5"D
Location – Street side, rear lower
Shelving – Two adjustable
Door(s) – Aft-hinged clear polycarbonate with a twist/slam latch and fully-extruded aluminum door pulls
Additional Instructions – None.

#7 - STREET SIDE ATTENDANT SEAT
Dimensions – 49"W x 65.125"H x 20"D
Location – Street side
Shelving – None
Door(s) – None
Additional Instructions – There shall be one EVS #1790IB attendant seat with 4-point harness mounted on a #SB-8S swivel base in this area. It shall be able to rotate to the forward position and fold flat to allow for a backboard to be secured on top.
Two seatbelt receivers each, shall be bolted to the upper and lower streetswide walls and two manual adjustable belts with seatbelt tongues at both ends shall be provided, for securing a backboard. One additional seatbelt receiver with a two-point manual seatbelt shall be installed on the aft wall to secure the foot end of the backboard.
A locking slide-out easy-access tray shall be installed behind the attendant seat to hold sharps and waste containers (Section 5.26X related).
The oxygen window shall be installed on the aft wall.

#8 - STREET SIDE ACTION AREA
Dimensions – 42.125"W x 27.625"H x 20"D
Location – Street side, forward middle
Shelving – None
Door(s) – None
Additional Instructions – It shall contain an oxygen outlet, one 120VAC GFCI duplex receptacle, and one 12VDC receptacle, all located near the aft end of the countertop. A Rico suction collector with vacuum connection, inverter status panel, digital thermostat and attendant control panel shall be installed towards the forward end of the action area (Section 6.13X related).
A full depth counter top shall be located below the action wall. The counter top shall be one-piece 16 ga, 304 stainless steel with a 0.5" aluminum retaining lip along the inboard edge. A 0.5"H x 1" W lip shall be formed into the aft end of the counter top to support a backboard in conjunction with the folded street side attendant seat.

CABINET #9
Dimensions – 23"W x 24.875"H x 14"D
Location – Street side, forward middle
Shelving – Two adjustable
Door(s) – Sliding, clear 0.177" acrylic with felt-lined anodized aluminum track and fully-extruded aluminum door pulls
Additional Instructions – None

CABINET #10 – Miscellaneous Storage
Dimensions – 8" W x 22"H x 19.5"D
Location – Front, under Cabinet #18
Shelving – Two adjustable
Door(s) – None
Additional Instructions – Open storage for map books and miscellaneous.

CABINET #11 – Glove Storage
Dimensions – 27.25"W x 5.75"H x 6.5"D
Location – Curbside, rear upper
Shelving – None
Door(s) – Bottom-hinged painted aluminum with a quarter turn latch and three cut-outs
Lighting – LED under-cabinet strip light (Section 6.14 related)
Additional Instructions – This cabinet shall be set up as glove storage (Section 5.32 related).

CABINET #12
Dimensions – 20"W x 13.75"H x 17.75"D
Location – Curbside, center upper
Shelving – One adjustable
Door(s) –Top-hinged clear polycarbonate with a twist/slam latch and fully-extruded aluminum door pull
Lighting – One LED under-cabinet strip light (Section 6.14 related)
Additional Instructions – A 120VAC fluid warmer shall be installed on the adjustable shelf, forward, with a 120VAC GFCI duplex receptacle and 4" surround (Section 6.35A related).
An angled closeout shall be installed aft of this cabinet, with an attendant control panel. An oxygen outlet shall be installed under the angled closeout.

#13 - CURBSIDE ATTENDANT AREA
Dimensions –21.75"W x 26.125"H x 20"D
Location – Curbside, center
Shelving – None
Door(s) – None
Additional Instructions – It shall contain a momentary rocker switch to activate the dome timer (Section 6.16 related), one 120VAC GFCI duplex receptacle, and one 12VDC receptacle.
A full depth counter top shall be located below the action wall. The counter top shall be one-piece 16 ga, 304 stainless steel with a 0.5" aluminum retaining lip.
There shall be recess in the forward portion of the cabinet facing the stepwell to house a 10 lb. fire extinguisher with bracket (Section 5.31X related).

#14 - CURBSIDE ATTENDANT SEAT
Dimensions – 47.875″W x 65.125″H x 20″D
Location – Curbside, rear
Shelving – None
Door(s) – None
Additional Instructions – There shall be one EVS Model #1780 attendant seat, with 4-point harness, mounted on a #SB-8S swivel base. It shall be able to rotate to the forward position.
A locking slide-out easy-access tray shall be installed behind the attendant seat to hold sharps and waste containers (Section 5.26X related).

CABINET #15 – Glove Storage
Dimensions – 21.5″W x 12″H
Location – Curbside passage door skin
Shelving – None
Door(s) – Bottom hinged painted aluminum with a quarter turn latch
Additional Instructions – Storage for four glove boxes shall be provided in this cabinet (Section 5.32 related).

CABINET #16 – Cylinder Storage
Dimensions – 13″W x 25″H
Location – Curbside front stack, facing aisle
Shelving – None
Door(s) – Tip-out bottom-hinged painted aluminum door with a SouthCo C2 latch and nylon travel stop strap
Additional Instructions – This cabinet shall provide storage for two customer-supplied-and-installed ″D″ oxygen cylinders (Section 5.35A related). A stainless steel spring with dual flaps shall be installed to prevent cylinder rattling.

CABINET #17 – HVAC
Dimensions – 35.75″W x 14.5″H x 24.875″D
Location – Curbside front stack, upper
Shelving – None
Door(s) – None
Additional Instructions – This cabinet shall house heater/AC unit and suction pump.

CABINET #18 – Electrical Cabinet
Dimensions – 30.75″W x 13″H x 10″D
Location – Front, center over pass-thru
Shelving – None
Door(s) – Aluminum, hinged, swing up door with a hold-open device, a quarter-turn slotted latch, and an automatic cabinet light.
Additional Instructions – This cabinet shall house the electrical component module. An atomic-controlled clock shall be installed on the face of this cabinet (Section 5.24 related).

CABINET #19 – Radio Cabinet
Dimensions – 17.5"W x 29.75"H x 10"D
Location – Forward upper, behind attendant seat
Shelving – None
Door(s) – Aft-facing aluminum panel with upper and lower punch panels, and a SouthCo #C2 latch
Additional Instructions – This cabinet is intended for mounting radio components and shall be supplied with access to power component panel. Antenna cables shall terminate in this cabinet.

CABINET #20 – Inside/Outside Access
Dimensions – 27.25"W x 28.75"H x 24.875"D
Location – Curbside front stack, upper
Shelving – One adjustable shelf with 1" x 1" lip down outside, and 2" lip on the inside.
Door(s) – Double polycarbonate side-hinged doors with pinch latches
Additional Instructions – This cabinet shall provide inside/outside access to Compartment #5. One 12VDC receptacle and one 120VAC GFCI duplex receptacle shall be installed on the back wall, upper inboard.
A vertical plenum for the HVAC shall be located on the aisle side of the cabinet.

CABINET #21 – Inside/Outside Access
Dimensions – 27.25"W x 28.75"H x 24.875"D
Location – Curbside front stack, lower
Shelving – One adjustable shelf with 1" x 1" lip down towards the outside, and 2"H lip on the lip facing the step well.
Door(s) – Double polycarbonate with pinch latches
Additional Instructions – This cabinet shall provide inside/outside access to Compartment #5. One 12VDC receptacle and one 120VAC GFCI duplex receptacle shall be installed on the back wall, upper inboard.
A vertical plenum for the HVAC shall be located on the aisle side of the cabinet.

CABINET #22 – Drawers
Location – Curbside, under countertop, facing aft
Additional Instructions – There shall be three 16"W x 5"H x 15"D aluminum drawers in this area. Each drawer shall operate on 14" slides rated at 300 lbs. per set and have a gas shock hold open/closed device to ensure drawers do not accidentally open or close during operation of the vehicle. Drawers shall be of formed aluminum construction with structural support on the sides and front of drawers. Each of the drawers shall have four adjustable dividers provided with each drawer installed side to side.
One loose polycarbonate cover shall be provided for use as a writing surface on top of the dividers in the top drawer.

CABINET #23 – Drawers
Location – Street side, under countertop, facing aft
Additional Instructions – There shall be three 16"W x 5"H x 15"D aluminum drawers in this area. Each drawer shall operate on 14" slides rated at 300 lbs. per set and have a gas shock hold open/closed device to ensure drawers do not accidentally open or close during operation of the vehicle. Drawers shall be of formed aluminum construction with structural support on the sides and front of drawers. Each of the drawers shall have four adjustable dividers provided with each drawer installed side to side.
One loose polycarbonate cover shall be provided for use as a writing surface on top of the dividers in the top drawer.

2.11 SIDE DOORSTEP
A recessed curbside double doorstep shall be provided which is 19" deep x 31" wide at the curbside passage door. There shall be a drain hole and light gray Matéflex floor tile which is removable for cleaning purposes. Aluminum diamond plate kick panel shall be installed on the sides and face of the doorstep.

2.13 CAB TO MODULE PASSAGE
Shall be a pass-thru measuring 16"H x 16"W.

2.14 WHEELWELL LINERS
Wheel well liners made of formed aluminum shall be installed in the module wheel well openings.

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/sealant adhesion. **A clear, removable, mylar shall be installed on the front of the module to protect from bugs and rock chips.**

3.02 MODULE PRIMER

Module shall be sealed with a two-component, low VOC, direct-to-metal epoxy primer/sealant prior to applying the finish coat of acrylic urethane paint.

3.03 PAINT TYPE

Shall be Sherwin Williams acrylic urethane.

3.04X COLOR SCHEME

Base color: White (SW #GLV-100199832)

Stripe #1	Color:	Blue
	Size:	6"
	Style:	Beltline
	Material:	Vinyl
	Location:	Streetside and curbside of module
Stripe #2	Color:	Blue
	Size:	0.25" pinstripe
	Style:	Beltline
	Material:	Vinyl
	Location:	Streetside and curbside of module with 0.25" gap above stripe #1
Stripe #3	Color:	Blue
	Size:	0.25" pinstripe
	Style:	Beltline
	Material:	Vinyl
	Location:	Streetside and curbside of module with 0.25" gap below stripe #1
Stripe #4	Material:	Red and Yellow Scotchlite
	Width:	6"
	Style:	Diagonal stripes alternating between the two colors
	Location:	Rear of module, below drip rail, outboard of rear passage doors (doors and door header are excluded)

3.05X LETTERING/DECALS

STREETSIDE

Item #S1	Decal:	"North" "Star"
	Color:	Blue
	Size:	4" Lettering
	Material:	Vinyl
	Location:	Street side of Module centered 7" down from drip rail
Item #S2	Decal:	"Emergency Vehicles"
	Font:	Serpentine bold
	Color:	White
	Size:	3"H x 51.25" L
	Material:	Vinyl
	Location:	street side of module centered below Item #S1

CURBSIDE

Item #C1	Decal:	"North" "Star"
	Color:	White
	Size:	4" Lettering
	Material:	Vinyl
	Location:	Curbside of Module centered 7" down from drip rail
Item #C2	Decal:	"Emergency Vehicles"
	Font:	Serpentine bold
	Color:	White
	Size:	3"H x 51.25" L
	Material:	Vinyl
	Location:	Curbside of module centered below Item #3

3.06 COMPARTMENT FINISH

All compartments shall be sanded, etched, washed, primed, coated with textured polyurea thermoplastic elastomer finish and painted white with light gray splatter paint. (G2-33631 Alt 2 / GLV-51748)

All shelves and trays shall be sanded, etched, washed, primed, and painted white with light gray splatter paint. (G2-33631 Alt 2 / GLV-51748)

3.07 INTERIOR CABINETRY FINISH

All interior cabinetry shall be sanded, etched, washed, primed, coated with textured polyurea thermoplastic elastomer, and painted white with light gray splatter paint. (G2-33631 Alt 2 / GLV-51748)

All shelves and trays shall be sanded, etched, washed, primed, and painted white with light gray splatter paint. (G2-33631 Alt 2 / GLV-51748)

3.08 **MODULE UPHOLSTERY**

Module upholstery material shall be Dove Gray Spradling Perform 60 seamless vinyl.

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. (Section 5.04 related)

An insulated floor shall be installed over the 0.125" aluminum subfloor and shall be comprised of 0.75" thick polyiso insulation between 0.75" x 0.75" x 0.063" square tubing, covered with a 0.125" aluminum sheet (Section 2.04 related).

Floor covering material shall be seamless and cove up the side walls a minimum of 5" as a seal. (Section 2.04 related)

3.10 **COMPARTMENT LINING**

Compartment floors shall be lined with light gray Matéflex floor tile and all shelves with mat.

3.11 **CABINET LINING**

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

3.12 **SURFACES AND FINISHES**

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

3.13 **AUTOMOTIVE UNDERCOATING SEAL**

The chassis and module underbodies (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.

4 MODULE EXTERIOR

4.01 STEP/BUMPER

The rear bumper shall be a welded construction of 3" x 3" x 0.375" aluminum angle and 1.5" x 0.25" flat bar and shall be covered by 0.125" bright aluminum diamond plate. The entire top shall be non-skid Grip Strut and shall provide a 7" step. Both outermost ends shall be angled to prevent dragging of corners in high angle of departure areas. Diamond plate shall be formed on front and rear edges for channel-type strength. 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. Bumper to be designed to accommodate a one-person-style cot.

4.02 RUB RAILS

Bright finished extruded aluminum rub rails of a double channel design shall be installed along the lower street side and curbside edges of the module. Rub rails shall be 2.5"H x 0.75"W x 0.125"D, with a 0.5"H red/white conspicuity reflective tape installed in the insert area.

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.

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. 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.

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.

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.

4.07 FUEL FILL

A polished cast aluminum fill well shall be installed on the streetside of the module and be properly vented. Fill and vent hoses shall be installed and protected in accordance with the chassis bodybuilder recommendations.

A fill shall be provided for the DEF tank, between the cab and module, streetside.

4.08 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 street side and curbside walls shall be framed to accommodate optional installation of 18.75" x 18.75" windows.

4.09 FUEL SPLASH GUARD

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

4.10X OXYGEN STORAGE

A painted aluminum oxygen lift shall be installed on the back wall of Compartment #2. Lift shall have a step plate which doubles as the compartment floor and seal the compartment from road debris. Handles shall be provided to assist in lowering the lift for cylinder replacement. Gas shocks shall be used to provide cylinder lifting force. A lever shall be provided for locking the lift in the raised or lowered position. Lift shall have four UHMW-reinforced straps for securing a ***customer-supplied-and-installed*** M or H sized oxygen cylinder (Section 4.10X related). The door skin shall be pocketed to provide clearance for the ratcheting oxygen cylinder straps.

4.16 REAR LICENSE PLATE

A rear license plate holder and an incandescent light shall be installed on the rear of the module, streetside lower above the kick panel. A hidden unlock switch and two spacers shall be installed behind the license plate (Section 6.40 related).

4.17 STEP, ELECTRIC

A pre-wire for a Zico electric step shall be installed.

Pre-wire for an Auto/Off switch just inside the curbside door.

4.19 SPARE WHEEL/TIRE MOUNT

An aluminum mounting plate for the OEM spare wheel/tire shall be installed in Compartment #1. The spare tire shall be mounted on the bracket.

5 MODULE INTERIOR

All interior hangers, supports, fasteners, latches, and hinges shall be of a near-flush-type design. The patient compartment shall be free of sharp projections. Exposed edges and corners shall be broken with a radius or protected with 1" high-density foam covered with heavy-duty vinyl color-matched upholstery.

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.

5.02 HEADLINER

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

5.03 HEADPADS/CUSHIONS

Head pads located over all module access openings and seat backs shall be 0.5" or 1" foam covered with heavy-duty seamless vinyl upholstery.
Seat cushions shall be 3" foam covered with heavy-duty seamless vinyl upholstery (Section 3.08 related).

5.04 LOWER WALL COVERING

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

5.05 GRAB RAIL

One center-mounted 75" L x 1.250" D stainless steel grab rail with three support brackets shall be securely mounted to roof structural framing running through the centerline.

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.

5.07 IV HANGERS

Two ceiling-mounted Cast #IV2008 recessed IV holders shall be supplied over the cot.

5.08X COT MOUNT

Provisions shall be made for future customer purchase and installation of any the following cot mount options:

- Ferno dual or single position cot fastener
- Stryker dual or single position cot fastener
- 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 (5) attachment points for the Power-LOAD floor plate.

Flooring material shall not be cut, and mounting hardware shall not be installed.

5.10X ATTENDANT SEAT

A rear facing EVS model #1880IB w/ IMMI 4 pt belting to include one model #1880IB Child safety seat on a model #SB-2 Swivel base, shall be located at head of cot to clear head of cot and curbside front stack in swivel mode. It shall provide easy access to all action wall controls and outlets, and to the patient. Seat shall swivel 180 degrees and be securely anchored on an EVS #SB-2 swivel base.

One EVS model #1790IB with IMMI 4 pt belting on a #SB-8S swivel base on the street side. Seat shall have a 4-point seatbelt harness and a folding back.

One EVS model #1780IB with IMMI 4 pt belting seat shall be mounted on a #SB-8S swivel base on the curbside.

5.11 OXYGEN SYSTEM

The entire oxygen system shall be assembled with certified oxygen hose (1000 PSI burst strength) with brass fittings, be pressure tested, and certified. A 50 PSI regulator shall be included, a bulkhead connector shall be installed in the ceiling of Compartment #2, and one oxygen tank wrench shall be attached to the compartment wall with hook-and-loop tape.

Three Ohio-type oxygen outlets shall be installed:

- One under the angled close-out of cabinet #2
- One in ceiling above primary patient
- One under the angled closeout of cabinet #12

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. A momentary contact switch labeled "ASPIRATOR" shall be installed in the attendant panel in the streetside and curbside attendant panels to control the on/off function of the suction pump via an InPower module. Pressing the top of the switch shall turn on the suction pump. Pressing the bottom of the switch shall turn off the suction pump.

5.13 SUCTION COLLECTOR

A Rico #RS4X-1001B suction regulator and wall-mount bracket with a 1200cc Bemis disposable canister shall be installed in the Action Area #8.

5.14X SEATBELTS

Shall be DOT-certified and shall be installed with all passenger seating. The street side and curbside attendant seats shall each have a four-point harness. The head of cot attendant seat shall have a four-point harness and a child safety seat. Three female seatbelt receptacles each shall be bolted to the upper and lower street side walls and three manual adjustable belts with male buckles at both ends shall be provided, for securing a backboard. One additional two-point seatbelt shall be installed on the aft wall.

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.

A 3" wide, 60-mil, closed cell polyethylene foam tape shall be used as a thermal break on the inside surface of the roof and wall tubes.

5.17X MODULE CLIMATE CONTROL SYSTEM

The module HVAC system shall incorporate a combination heating/air conditioning unit with 36,000 BTU/hr. heating and 32,000 BTU/hr. cooling capacity. The unit shall have a 580 CFM fan and controls independent of the cab system. A 12VDC booster pump shall be installed to optimize the heating capacity in the module. A return air path with open area equal to at least twice the blower outlet area shall be incorporated into the evaporator closeout.

The module system shall be controllable by a digital thermostat located on the street side wall in the Action Area #8.

Four vents shall be installed in a vertical plenum on the aisle side of right front stack, spaced evenly.

A Beam #015715 metal wall port shall be installed in the vertical plenum to provide direct heat to a patient. A hose shall be shipped loose (Section 8.01 related).

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 be formed to prevent the collection of moisture. Washable filter media shall be installed in the intake chamber.

5.19 AIR RETURN

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

5.20 EXHAUST VENT

A motor-powered exhaust vent with a chrome Perko cover shall be located in the curbside rear corner of the module.

A momentary contact switch labeled "VENT" shall be installed in each attendant panel in the Action Area #8 and curbside attendant control panel to control the on/off function of the exhaust vent. Pressing the top of the switch shall turn on the exhaust vent. Pressing the bottom of the switch shall turn off the exhaust vent.

5.21 NO SMOKING/FASTEN SEAT BELTS SIGNS

Two "NO SMOKING/FASTEN SEATBELTS" signs shall be installed - one in the cab on the glove box door, and one in the module above the Action Area oxygen outlet.

5.23A WHITE MARKER BOARD

A 20"W x 20"H framed white marker board shall be installed on the curbside wall of pass-through with double-stick tape, adhesive, and a fastener in each corner.

5.24A CLOCK

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

5.26X SHARPS/HAZARDOUS WASTE CONTAINERS

Two Kendall 8920SA 2.0-quart sharps containers and two 7-quart waste containers shall be installed, one each behind the street side and curbside attendant seats, mounted in painted aluminum brackets on locking slides. The top of the waste containers shall be cut to fit below the seats.

5.29 OXYGEN WINDOW

A 6" x 11" clear polycarbonate oxygen window with knob and self-closing hinges shall be installed.

5.31 FIRE EXTINGUISHER

One ABC 10 lb fire extinguisher with an Amarex #809 SAE-J3043 compliant bracket shall be installed in a cabinet recess on the aft side of the curbside doorstep.

5.32 GLOVE STORAGE

- Cabinet #3 shall provide storage for four glove boxes.
- Cabinet #11 shall provide storage for three glove boxes.
- Cabinet #15 shall provide storage for four glove boxes.

5.35A INTERIOR OXYGEN STORAGE

Tip-out latching storage for two customer-supplied-and-installed D-cylinders shall be provided in Cabinet #16, with a wedge-shaped stainless steel spring to prevent cylinder rattling.

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, or 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 electrical 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. Where wiring passes over the exhaust, a heat shield shall be installed. The electrical 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.
The vehicle electrical system shall be tested and certified to AMD 005 requirements.

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 electrical component module.

6.02 VOLTMETER/AMMETER

A single display voltmeter/ammeter shall be installed on the side of the console, driver's side, forward, upper, vertically oriented, which simultaneously displays voltage and alternator current when the ignition is on. Display flashes to indicate low voltage.

6.04 IGNITION CONTROL

Chassis electrical circuits shall be controlled by the ignition switch as provided by the OEM chassis manufacturer. The auxiliary chassis-related functions shall be powered by one 100-amp continuous duty solenoid, triggered by the chassis ignition.

6.05A MODULE POWER

Module power shall be controlled by a console-mounted switch labeled "MODULE DISC." which activates a CDR-400 solenoid. An ignition interlock shall disconnect module power 15 minutes after the vehicle's ignition is turned off. The interlock shall also allow module power to be reactivated independently for 15 minutes by cycling the module disconnect switch.

6.06 WIRING ACCESS

All cabinets and compartments shall have removable panels as needed to access wiring harnesses and hoses.

6.07 BACK-UP ALARM

A back-up alarm with a sound output level of 97 dB shall be installed, with a momentary disable switch in the driver's console. If disabled while in reverse, the back-up alarm shall automatically reset when shifted out of reverse.

6.08 **SERVICE LOOP**

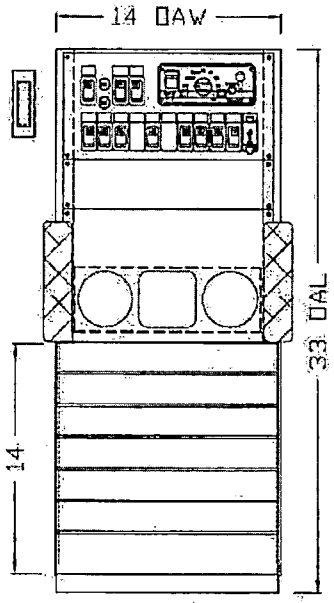
A 6" service loop of wire or harness shall be provided at all electrical components, terminals, and connection points.

6.09 **DRIVER'S CONSOLE**

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, arm rests, 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).

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

4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.
Light bar Red	Light bar White	Flasher	Blank Pre-wire white lights	Blank	Blank Pre-wire Optico m	Blank	Left Scene	Right Scene	Rear Scene	USB



6.10 **SWITCHES**

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

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.

6.12 **DOOR AJAR WARNING LIGHT(S)**

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.

6.13 **ATTENDANT CONTROL PANEL**

An attendant panel shall be located on the street side wall forward portion of the action area. Panel shall include one row of switches, as follows:

1.	2.	3.	4.	5.	6.
Left Dome (Hi-Lo-Off)	Right Dome (Hi-Lo-Off)	Aspirator	Vent	Attendant Light (SS)	Blank

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

An attendant panel shall be located on the curbside wall closeout, aft of Cabinet #12. Panel shall include one row of switches, as follows:

1.	2.	3.	4.	5.	6.
Left Dome (Hi-Lo-Off)	Right Dome (Hi-Lo-Off)	Aspirator	Vent	Attendant Light (CS)	Blank

6.14 **CABINET LIGHTING**

The wall areas below Cabinet(s) #1,2,3,11 and 12 shall be lighted utilizing under-cabinet LED strip lighting. The streetside under-cabinet lighting shall be controlled by an on/off switch labeled "ATTENDANT LIGHT" in the streetside attendant panel, and the curbside under-cabinet lighting shall be controlled by an on/off switch labeled "ATTENDANT LIGHT" in the curbside attendant panel.

6.15 **STEPLIGHTS**

A Whelen #3SC0CDCR Clear Lens Clear 3" LED light shall be installed on the forward wall of the curbside door stepwell.

6.16 MODULE INTERIOR LIGHTING

Shall be designed to maintain maximum headroom without interfering with the structural integrity of the roof. Module interior lighting shall consist of seven Whelen #80C0EHCR dual intensity LED recessed lights:

- One bank of four lights shall be positioned toward streetside
- One bank of three lights toward curbside

There shall be a control switch for each bank of dome lights in both the streetside and curbside attendant panels. A single switch shall be provided on the driver's console to control both banks of dome lights.

Dome light switches shall be momentary contact HI-LO-OFF switches. Pressing the top of the switch shall increase intensity. Pressing the bottom of the switch shall decrease intensity.

The curbside bank of lights shall be automatically activated when the rear or side doors are opened or by a momentary rocker switch labeled "DOME TIMER" mounted on the wall near the curbside passage door, which shall activate a battery hot timer. Pressing the switch once shall initiate 15-minute timed operation of the lights. Pressing the switch again shall cancel the timed operation.

6.17 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, clearance lights, and side marker lights, unless included on a lightbar, 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, stacked vertically on the rear of the module, outboard, pattern from top to bottom: red stop/tail light, amber turn light, and clear back-up light.

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.

6.20 BLOCK HEATER

A block heater, with a toggle-style circuit breaker in the 120VAC Power Box, shall be wired to the 120VAC shorepower system (Section 1.01.02 related).

6.21 120VAC/SHORELINE CIRCUIT BOX

Utility power shall be furnished from 120VAC shorepower via a Kussmaul 20-amp Super Auto-Eject plug with a white cover and green indicator light located on the driver's side of vehicle and distributed via a formed aluminum power box recessed into the streetside front compartment. 120VAC power box shall be recessed and shall have an 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:

- Block Heater (15 Amp)
- Inverter (15 amp)All exposed receptacles outside of the power box shall be ground

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 GFCI duplex receptacles shall be mounted:

- One Action Area #8
- One Cabinet #12
- One Curbside Attendant Area #13
- One Cabinet #19
- One Cabinet #20

6.22 BATTERY GROUNDS

In addition to OEM chassis grounds, the following ground circuits shall be added to reduce RF interference:

- A minimum 4 ga. ground cable from the power component panel to the chassis frame.
- Two braided ground straps from the module body to the chassis frame.

6.23 BATTERY CHARGER

A 50-amp battery charger shall be provided as part of Magnum Pure Sine 1000 inverter system (Section 6.31 related).

6.25 12VDC POWER SUPPLY

Four 12VDC, 15-amp lighter-style power point receptacles shall be provided;

- One in Action Area #8
- One in Curbside Attendant Area #13
- One in Cabinet #19 on the forward wall, upper inboard
- One Cabinet #20 on the forward wall, upper inboard

Receptacles shall be powered continuously.

Three Blue Sea Dual USB charger ports shall be installed:

- Driver's Console
- Action Area #8
- Curbside Attendant Area #13

Receptacles shall be powered continuously.

6.26 COMPARTMENT LIGHTING

An LED strip light shall be installed in all outside compartments and shall be activated by a door switch.

6.27 EXTERIOR DOOR SWITCHES

Shall be 1/2" mechanical door switches.

6.30 EMERGENCY WARNING SYSTEMS

6.30.01 FRONT LIGHTBAR

A 94" Whelen 4500 Plus Series LED lightbar shall be recessed on the front of the module, pattern curbside to street side:

Curbside	Red Lens Red 700 Series flasher
	Red Lens Red 700 Series flasher
	Red Lens Red 700 Series flasher
	Clear Lens Clear 700 Series flasher
Center	Pre-Wire for Opticom
	Clear Lens Clear 700 Series flasher
	Red Lens Red 700 Series flasher
	Red Lens Red 700 Series flasher
Street side	Red Lens Red 700 Series 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 and identification lamps shall be an integral part of the lightbar.
The red flashers shall be controlled by the "LIGHTBAR RED" switch, and the clear flashers shall be controlled by the "LIGHTBAR WHITE" switch, with both switches on the driver's console (Section 6.09 related).
Prewires for an Opticom and steady red shall be installed.

6.30.02 REAR LIGHTBAR

A 94" Whelen 4500 Plus Series LED lightbar shall be recessed on the rear of the module, pattern curbside to street side:

Curbside	Red Lens Red 700 Series flasher
	Red Lens Red 700 Series flasher
	Triple LR11 LED scene light (Section 6.30.04 related)
	Amber Lens Amber 700 Series flasher
Center	Red Lens Red 70BTT LED third brake light
	Amber Lens Amber 700 Series flasher
	Triple LR11 LED scene light (Section 6.30.04 related)
	Red Lens Red 700 Series flasher
Street side	Red Lens Red 700 Series 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 rear and sides of the module. 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).

6.30.03 **FLASHERS**

Four Whelen #M9R Red Lens Red Super-LED flashers shall be mounted two each on the curbside and streetside of the module in upper corners.
Two Whelen #M9A Amber Lens Amber Super-LED flashers shall be mounted on the rear of the vehicle at window height.
Lights shall be controlled by the FLASHER switch on the driver's console (Section 6.09 related).

6.30.04 **SCENELIGHTS**

Four Whelen #M9LZC Scene Super-LED light heads shall be mounted, two each on the curbside and StreetSide of the module in upper corners.
The curbside passage door shall activate the curbside scene lights. The scene lights shall also be controlled by the respective switches on the driver's console (Section 6.09 related).
Two Whelen LR-11 LED scene lights shall be included in the rear lightbar. The rear scene lights 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.

6.30.05 **SPOTLIGHT**

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

6.30.06 **INTERSECTION LIGHTS**

Four Whelen #WIONSMCR Clear Lens Red flashers 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).

6.30.08 **GRILLE LIGHTS**

Two Whelen #WIONSMCR Clear Lens Red LED flashers with chrome housings shall be installed on the OEM grille.
Lights shall be controlled by the "FLASHER" switch on the driver's console (Section 6.09 related).
Pre-wire for White Light(s).

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.

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.

6.31 **INVERTER**

A Magnum Pure Sine 1000-watt inverter with a 50-amp battery charger shall be installed with an aluminum offset bracket and a perforated surround on the forward wall of Compartment #1. For ventilation, a filtered vent shall be installed on the forward wall, and a soffit vent on the back wall, in line with the inverter. A remote inverter status panel shall be installed in the Action Area #8. The inverter shall be configured to turn on and off with ignition.

6.35A **FLUID WARMER**

A 120VAC fluid warmer with a 120VAC GFCI duplex receptacle shall be installed in Cabinet #12, on the shelf, forward. 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 bags.

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 installed behind the license plate on the rear of the module.

6.46 **BACK-UP CAMERA**

Item #1

Description: A Rostra back-up camera system shall be installed, including a surface-mounted camera and a rear view mirror/monitor with a 4.3" screen.

Location: Camera on the rear of the module, centered above the rear passage doors. Rearview mirror/monitor centered on chassis windshield, upper.

Additional Instructions: Camera shall automatically display on monitor when the vehicle is placed in reverse. The programming remote shall be shipped loose (Section 8.01 related).

6.48 **TRAFFIC SIGNAL PREEMPTION**

Prewire lightbar for Opticom.

7 SUPPORTING DOCUMENTATION

7.01 OWNERS MANUAL

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

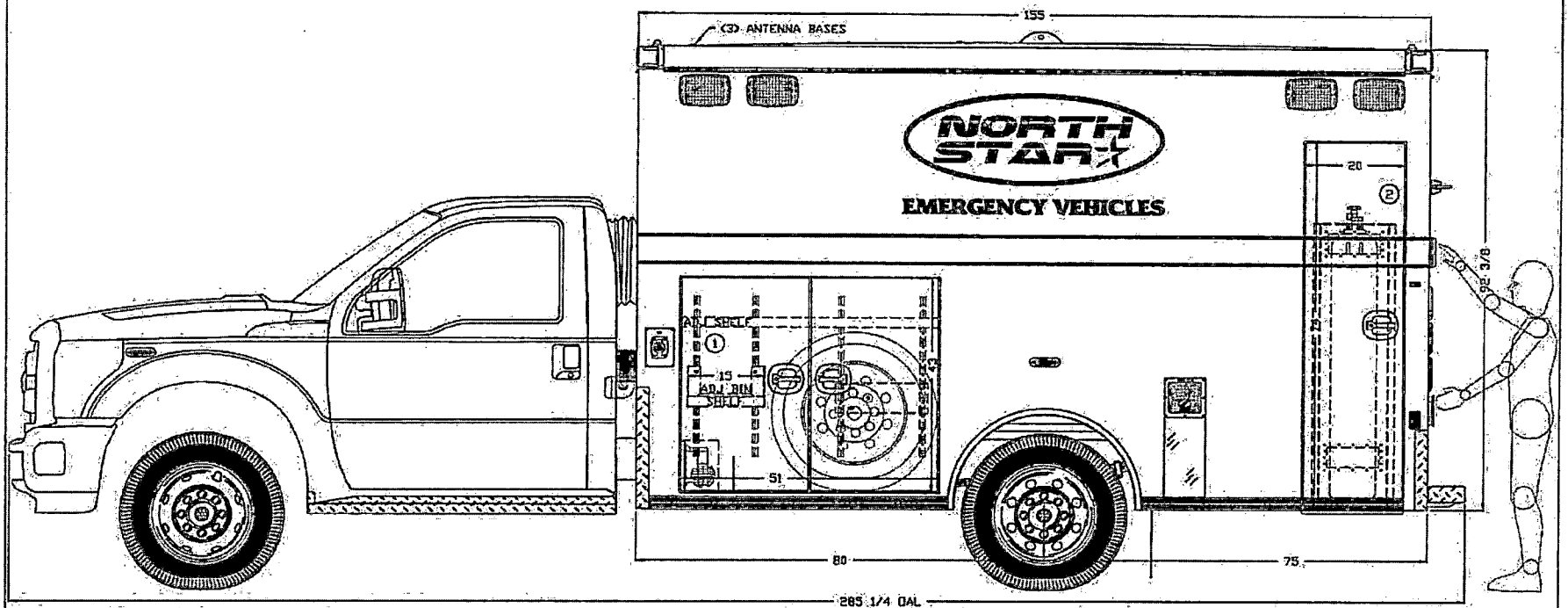
1. Chassis owner information packet.
2. Extra set of keys.
3. Lifetime module warranty.
4. Factory warranty on Chassis.
5. 7 Year/75,000 miles limited electrical warranty.
6. 2 Year/30,000-mile Conversion Warranty.
7. 5 Year Paint Warranty.
8. Module remount engineering checklist.
9. Climate control 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.

8 MISCELLANEOUS EQUIPMENT

8.01 LOOSE EQUIPMENT

The following equipment shall be shipped loose with the vehicle:

1. Touch Up Paint
    - White (SW #GLV-100199832)
    - White G2-33631 Alt 2
    - Gray GLV-51748
2. Spare tire and wheel
3. Wheel Simulator Wrench
4. Oxygen cylinder Wrench
5. Hypothermic Heater hose
6. Tire Changing tool and OEM jack
7. Antenna Coax Ends
8. Adjustable shelf for compartment #1
9. Road Safety Kit (includes flares, triangle and fire extinguisher)



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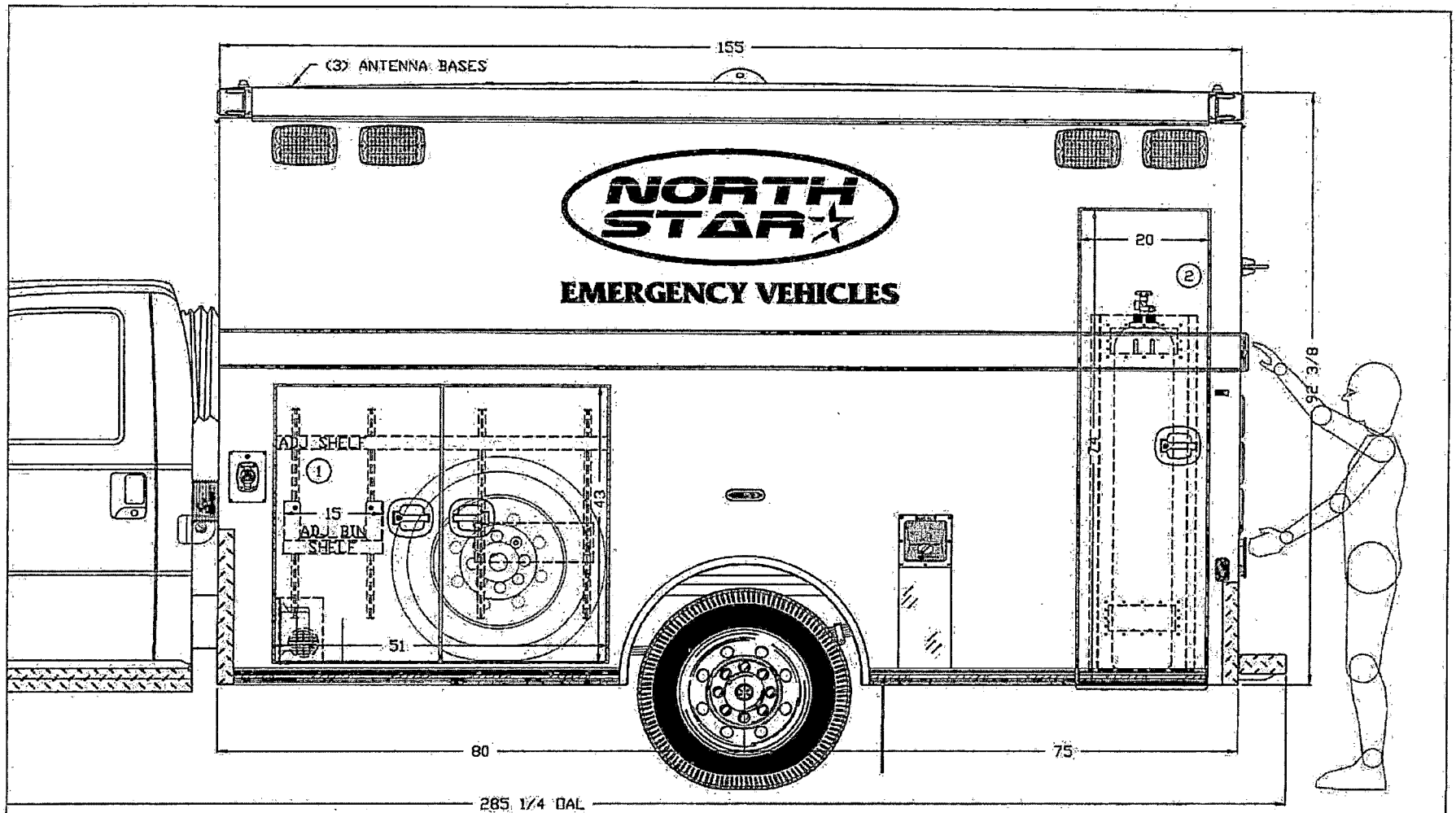
Client	BraunNW		
Date	12/17/2019	Drawing By	M.J.B

TITLE: EXTERIOR S/S VIEW



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Department	SALES			Rev
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Date	12/17/2019	Drawing By	M.J.B	

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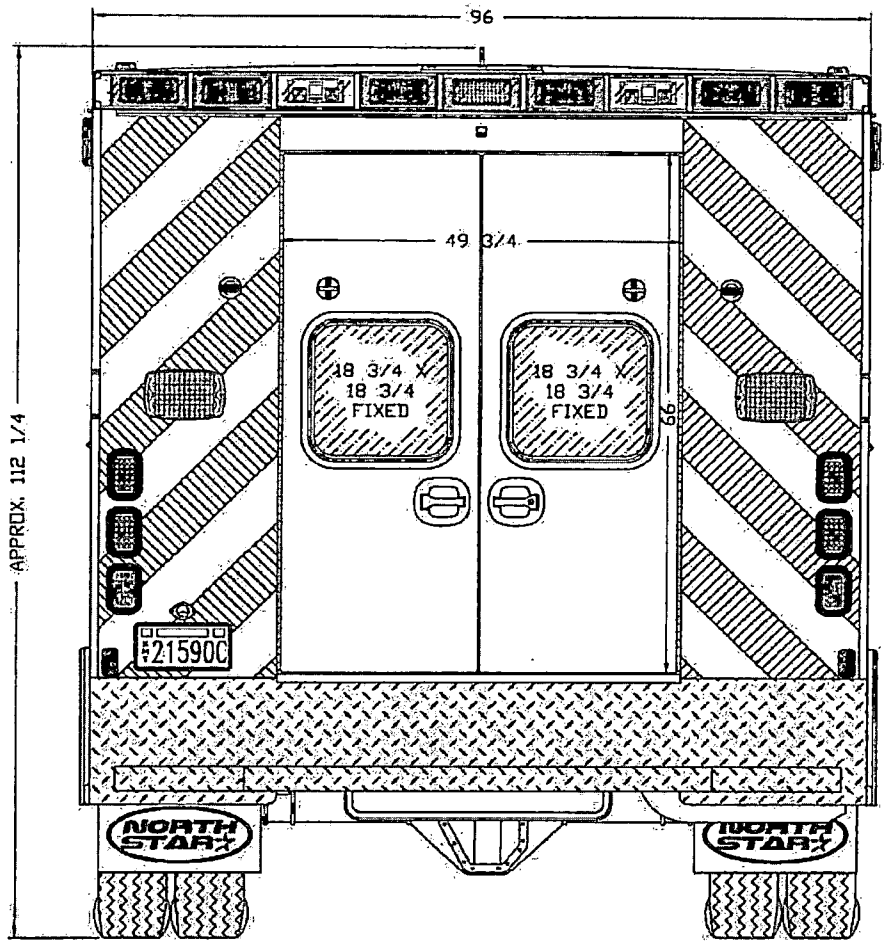

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Client	BraunNW			
Date	12/17/2019	Drawing By	M.J.B	

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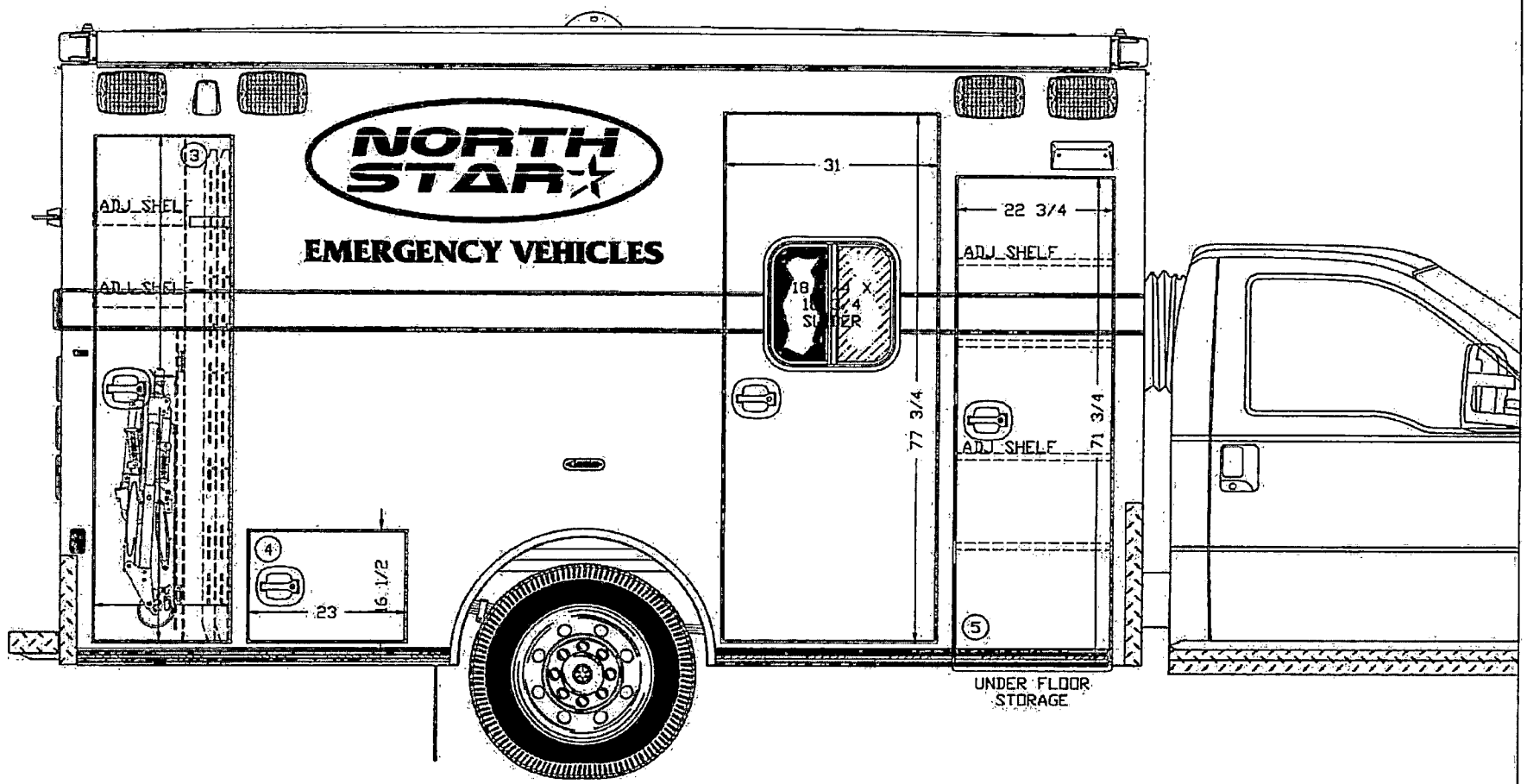

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Department	SALES		Rev
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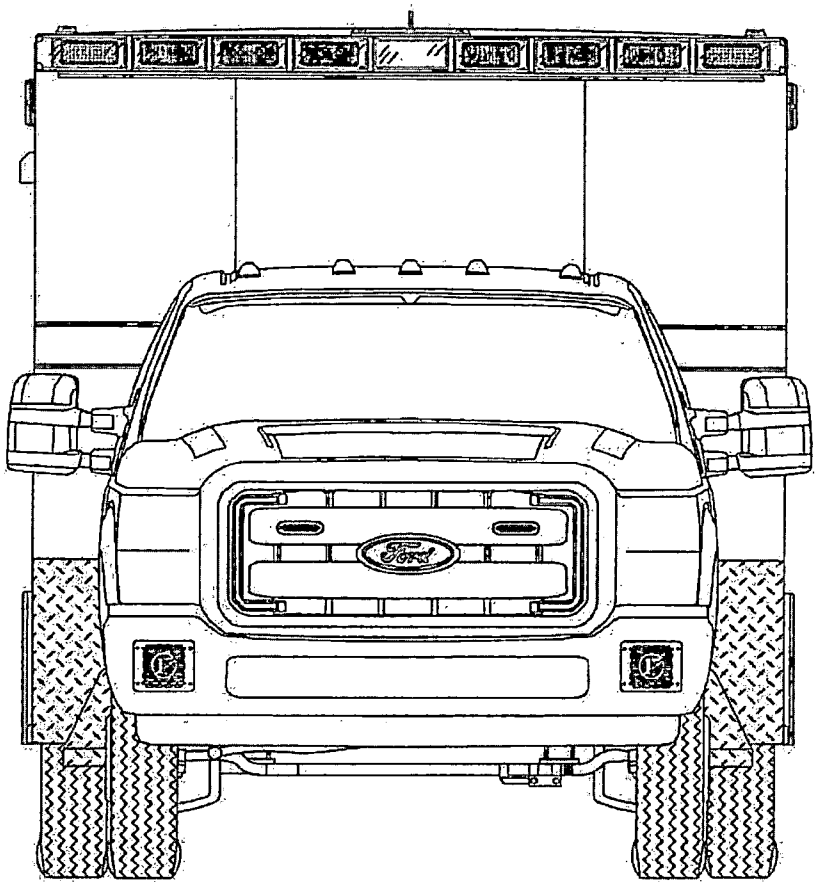
Client	BraunNW		
Date	12/17/2019	Drawing By	M.J.B

TITLE	EXTERIOR C/S VIEW



Braun Northwest, Inc.			
Department	SALES		Rev
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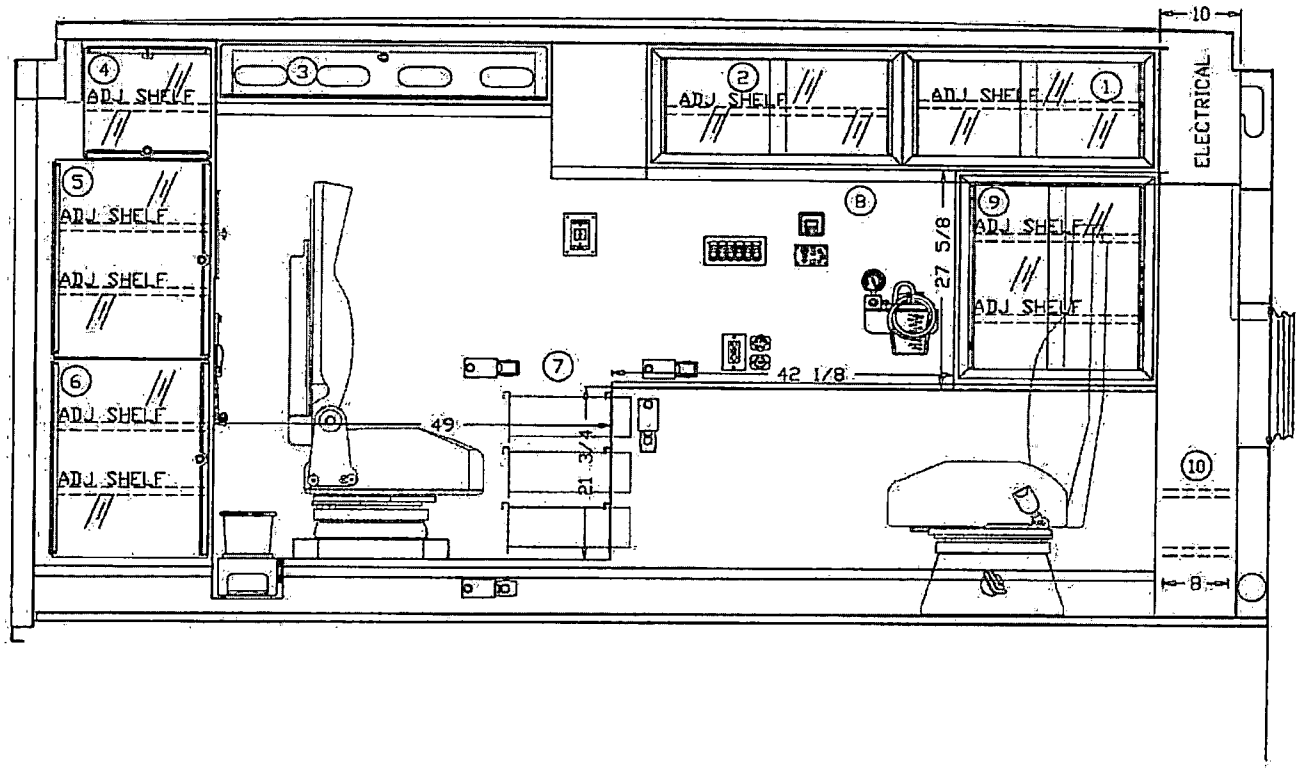
Client	BraunNW		
Date	12/17/2019	Drawing By	M.J.B

TITLE: EXTERIOR FRONT VIEW



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Department	SALES		Rev
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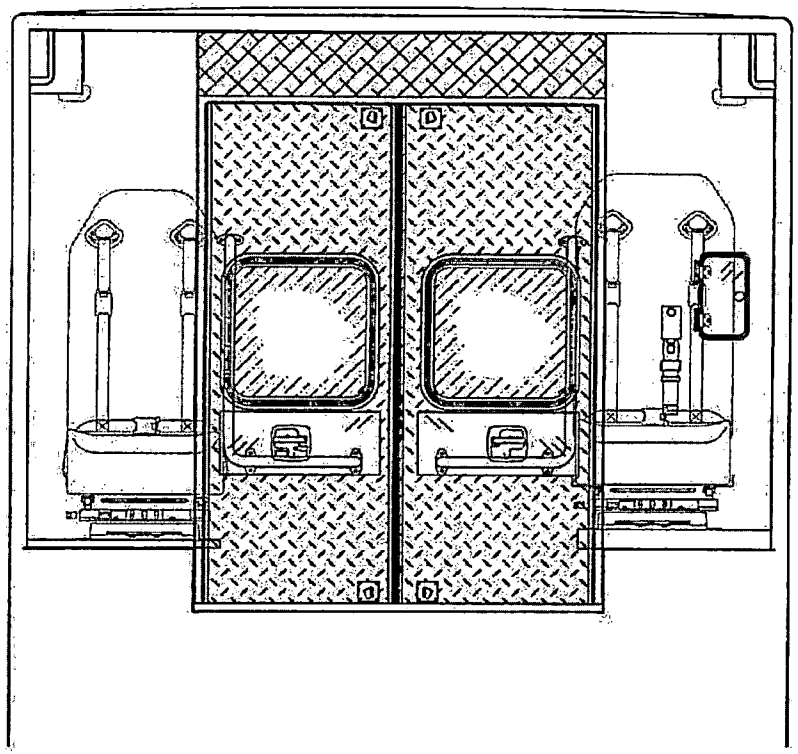
Client	BraunNW		
Date	12/17/2019	Drawing By	M.O.B

TITLE: INTERIOR S/S VIEW



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Department	SALES		Rev
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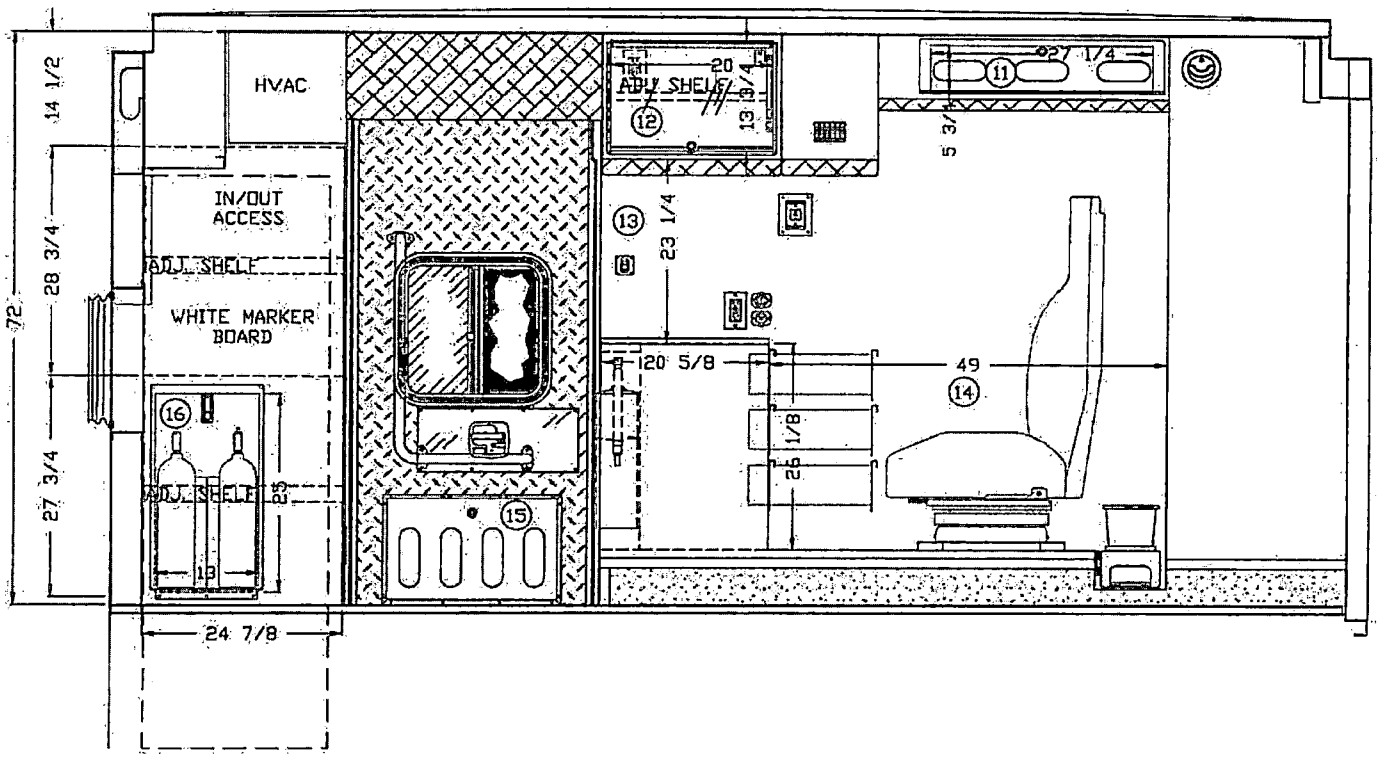
Client	BraunNW		
Date	12/17/2019	Drawing By	M.J.B

TITLE	INTERIOR REAR VIEW



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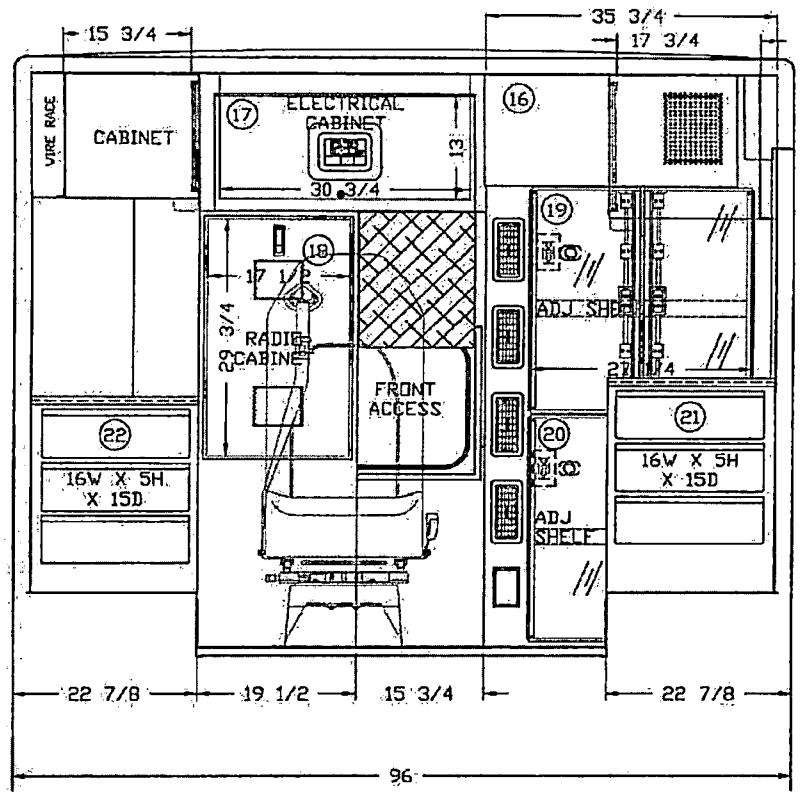
TITLE: INTERIOR C/S VIEW



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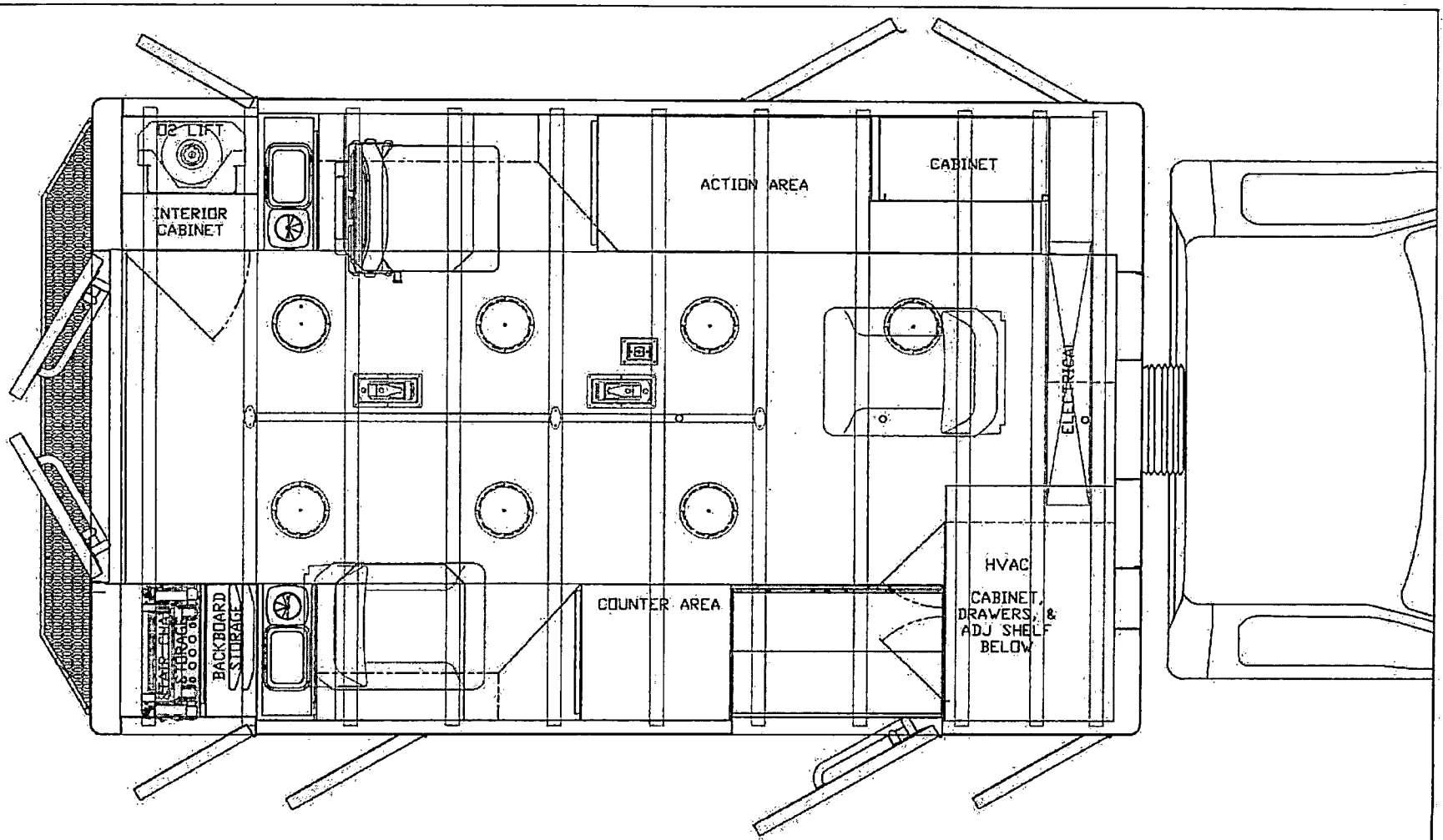
Date	12/17/2019	Drawing By	M.J.B

TITLE: INTERIOR FRONT VIEW



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Department	SALES		Rev
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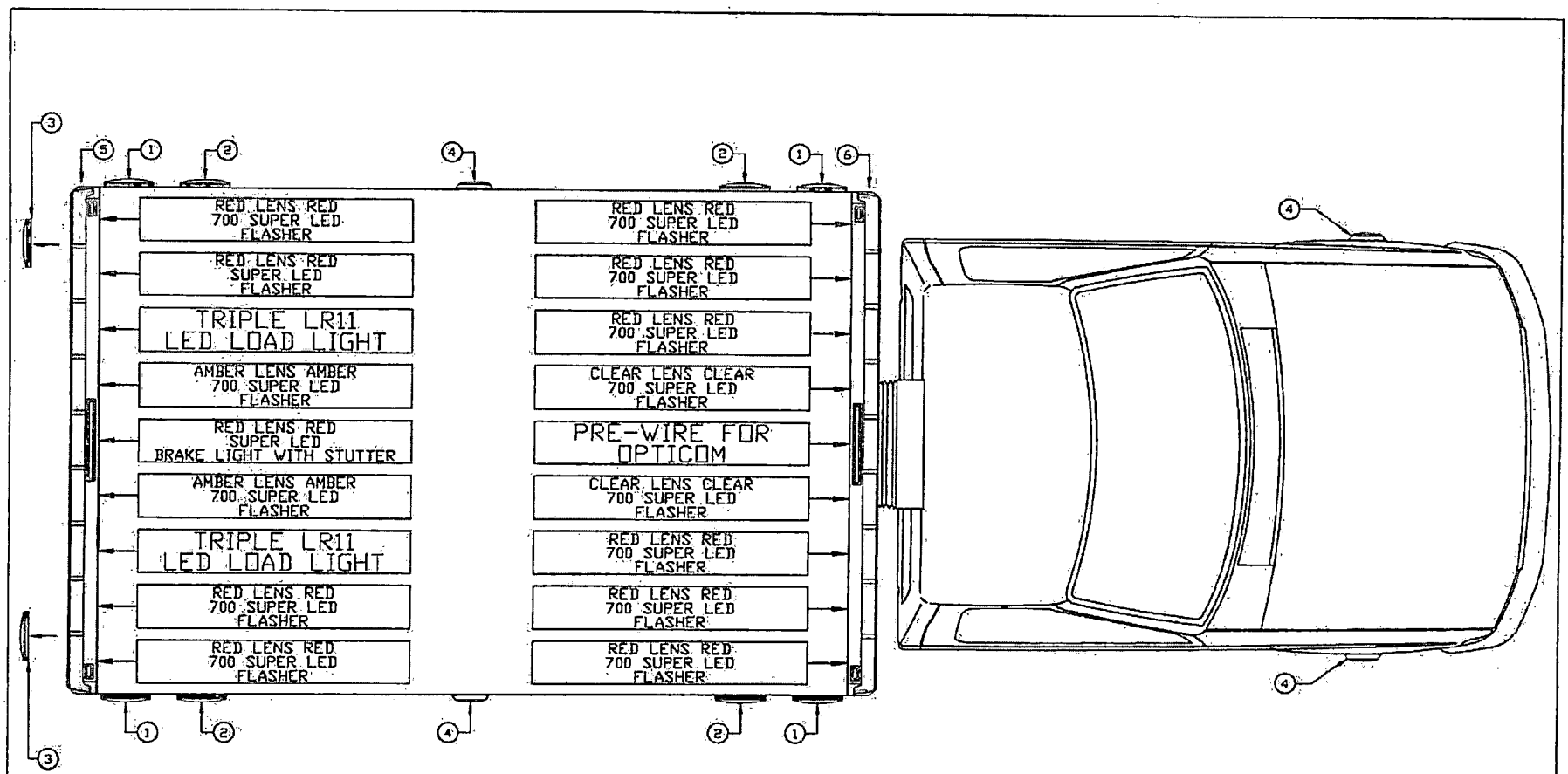
Client	BraunNW		
Date	12/17/2019	Drawing By	M.J.B

TITLE: PLAN VIEW



TAG	DESCRIPTION	QTY	TAG	DESCRIPTION	QTY
			4	WHELEN #WIONSMCR CLR LENS RED LED FLSH	4
6	WHELEN 94" #4500 PLUS LTBAR 700 SERIES	1	3	WHELEN #M9A AMBER LENS AMBER SUPER LED	2
	RED/RED/RED/CLR/CLR/CLR/RED/RED/RED			FLASHERS	
5	WHELEN 94" #4500 PLUS LTBAR 700 SERIES	1	2	WHELEN #M9LZC LED SCENELIGHTS	4
	RED/RED/CLR/AMB/RED/AMB/CLR/RED/RED		1	WHELEN #M9R RED LENS RED SUPER LED FLASHER	4

Braun Northwest, Inc.

Department	SALES		Rev
Dwg. Name	Safety Demo LTS		
Client	Braun NW		
Date	12/17/2019	Drawing By	M.J.B

TITLE: EMERGENCY LIGHT LAYOUT

ADVERTISEMENT FOR BID

The City of Independence, Kansas, is accepting bids for a new ambulance for the City's Fire-EMS Department, meeting or exceeding the attached specifications.

Bids will be in the office of the City Clerk, 811 W. Laurel Street, Independence, Ks. 67301, on or before 2:00 p.m. Thursday, February 18th. Bids shall be enclosed in a sealed envelope plainly marked on the outside "Ambulance". If bid is mailed, original envelope shall be enclosed in a separate envelope addressed to the City Clerk, also plainly marked on the outside as stated above. E-mail or fax bids will not be accepted. The apparent low bid will then be presented to the Independence City Commission at their next regular meeting for their formal action, subject to secured funding.

The city reserves the right to accept or reject any or all bids or to waive any irregularities should any occur as may best benefit the City. The City Manager may require that no bidder may withdraw a bid for a period of up to forty-five (45) days after the date and hour set for opening bids, but that a bid may be withdrawn up to twenty-four (24) hours prior to expiration of the deadline for submitted bids.

Lacey Lies

Lacey Lies, Director of Finance

01/28/2021

Date

CITY OF
INDEPENDENCE
KANSAS

SPECIFICATIONS & BID SHEET

DELIVERY INCLUDED TO:
CITY HALL
811 W LAUREL ST
INDEPENDENCE, KS 67301

FOR QUESTIONS, PLEASE CONTACT:
DAVID COWAN, PUBLIC SAFETY
DAVIDC@INDEPENDENCEKS.GOV
(620) 332-2528

Shawn Wallis, Fire-EMS Chief
shawnw@independenceks.gov
620.332.2504

CITY OF
INDEPENDENCE
KANSAS
"Delivering Excellence"

Bid Specification Requirements

Bids will be sent on January 28, 2021, to prospective bidders

Bids must be returned to the City of Independence by:

February 18th, 2021, at 2:00 p.m.

Mail to:

City of Independence
Attn: Ambulance Bid
811 W. Laurel Street
Independence, Ks. 67301

Bid packages must be a submitted proposal, including all requested information in this bid, as outlined in the next couple of pages (Bid Requirements). The City of Independence will reject any bids received after 2:00 p.m. on February 18, 2021. For confirmation of receipt, please contact David Schwenker, City Clerk at davids@independenceks.gov or 620.332.2500 option 3.

CITY OF
INDEPENDENCE
KANSAS

"Delivering Excellence"

BID SUBMISSION REQUIREMENTS

1. This unit shall be a Type I modular ambulance on a Ford F-550 Super Duty XLT, 193' wheelbase, in accordance with specifications KKK-A-1822F.

2. This ambulance and equipment shall be delivered to this agency in Independence, Kansas with all delivery fees to be paid by the supplier by TBA by manufacturer for 2021 delivery.

3. Each bidder is required, before submitting the proposal, to be thoroughly familiar with the specifications contained herein. It will be the responsibility of the bidder to determine whether the vehicle specified meets the requirements of applicable state law, and the requirements of applicable KKK-A-1822F specifications

4. The following definitions shall apply to the specifications:
    a. The first stage manufacturer is the original equipment manufacturer that built the specified chassis, and its components.
    b. The second stage manufacturer is the company that will produce the ambulance conversion and required modifications to the O.E.M. chassis for delivery to this agency.

5. The bid process shall be valid for a minimum of 60 days from the date of the bid opening or as otherwise specified on the bid proposal form.

6. Full payment will be made when the unit is received, inspected, found to comply with the procurement specifications, found to be free of damage, and properly invoiced.

7. Bids received shall be evaluated by the purchaser. This evaluation will be based on the following criteria:
    a. Completeness of the proposal;
        i. The degree to which it responds to all requirements, and requests for information contained herein
        ii. Exceptions will be judged by the purchaser.
    b. Bid proposals that do not comply with the prescribed specifications will not be accepted.
    c. The bidder shall submit documentation that the second stage manufacturer is a current member of the Ford QVM (Qualified Vehicle Modifier) program even if an alternate chassis is bid.

8. The purchaser reserves the right to waive any irregularities, informalities, and technicalities in the procedure.

CITY OF
INDEPENDENCE
KANSAS

"Delivering Excellence"

22. THIS BID IS GOOD FOR 60 DAYS FROM **February 18, 2021**. THE BID OPENING DATE. CITY OF INDEPENDENCE RESERVES THE RIGHT TO ADD OR DELETE OPTIONS AFTER THE BID IS AWARDED, AND EXPECTS APPROPRIATE CREDIT OR DEBIT FOR SAID OPTIONS. CITY OF INDEPENDENCE RESERVES THE RIGHT TO ACCEPT OR REJECT ANY OR ALL BIDS OR TO WAVIE ANY IRREGULARITIES SHOULD ANY OCCUR AS MAY BEST BENEFIT THE CITY OF INDEPENDENCE.

1. Base bid for requested ambulance $ _____
2. Trade-In value of 2015 Ambulance ($_____)
3. Total Price with trade: $ _____

Pictures and information available on trade-in by request or can be seen by appointment.
Exceptions to the bid:

1. _____
2. _____
3. _____
4. _____
5. _____

If further space is needed, please attach additional pages.

Delivery Date:_____ **Required: TBA by manufacturer for a 2021 delivery**

I hereby certify that the bid submitted by this company is for an ambulance that will meet all of the requirements set forth in these specifications, including all equipment specified, except where exceptions are indicated on a separate piece of paper. Enclosed with our bid is an explanation of what we propose to furnish in lieu of the specified requirements where we have indicated any exceptions. This copy of the specifications and our list of exceptions, if any, shall be considered to be the accurate contract vehicle description upon our award.

_____
Company Name

_____ _____ _____
Address City State

_____ _____ _____
Zip Phone (Alt) Phone

_____ _____
Sales Representative Signature Printed Name

_____
Date

INDEPENDENCE FIRE DEPARTMENT
2021 Ford *"F-550"* w/ 4WD
AMBULANCE SPECIFICATION

INDEX

-1-

3.9 110 VOLT AC SYSTEM
3.8 12 VOLT DC OUTLETS11

-A-

1.13 ALTERNATORS
10.3 AMD MEMBERSHIP
8.3 ANTENNA PRE-WIRE
1.3 AUXILIARY POWERTRAIN CONTROL (APC)
1.9 AXLE, REAR

-B-

3.4.5 BACKUP ALARM OVERRIDE
1.12 BATTERIES
6.0 BODY FINISH
1.7 BRAKES
4.2.2 BULKHEAD CABINETS
5.3 BUMPER, REAR STEP

-C-

4.2 CABINETS, INTERIOR
4.2.1 CABINETS, LEFT WALL
1.0 CHASSIS
4.12 CLIMATE CONTROL
3.16 CLOCK, PATIENT COMPARTMENT
3.4 CONTROL PANEL PODS BUTTONS
1.18 COOLING SYSTEM, ENGINE
4.10 COT MOUNT
4.3.1 CPR SEAT CABINET
3.4.6 CURBSIDE SCENE LIGHTS "ON" WITH CURBSIDE DOOR

-D-

8.1 DECALS, NO SMOKING & OXYGEN EQUIPPED
6.2 DECALS, STAR-OF-LIFE
2.1 DIMENSIONS, EXTERIOR
2.2 DIMENSIONS, INTERIOR
5.4 DOORSTEP, SIDE

2.8	DOORS, EXTERIOR COMPARTMENT AND ENTRY
3.12	DOOR SWITCHING

-E-

3.7	ELECTRICAL SERVICE CABINET
3.0	**ELECTRICAL SYSTEM**
3.1	ELECTRICAL SYSTEM COMPONENTS
3.5	ELECTRICAL WIRING
3.4.2	EMERGENCY MASTER BUTTON
1.2	ENGINE
5.0	**EXTERIOR BODY**
5.6	EXTERIOR COMPARTMENT CONFIGURATION
2.7	EXTERIOR COMPARTMENT CONSTRUCTION

-F-

3.4.3	FLASHER
4.1	FLOOR, PATIENT COMPARTMENT
2.6	FLOOR SUB-STRUCTURE
10.5	FORD POOL PROGRAM
10.2	FORD QVM PROGRAM
1.10	FUEL TANK

-G-

1.4	GAUGES AND METERS
2.3	GENERAL CONSTRUCTION
4.8	GRAB HANDLES, DOORS
4.7	GRAB RAIL, OVERHEAD
3.6	GROUNDING SYSTEM

-H-

4.5	HEADLINER
1.17	HEATER AND AIR CONDITIONER, CHASSIS

-I-

4.11	INSULATION
8.2	I.V. HOLDERS

-K-

10.1	KKK-A-1822-F CERTIFICATION

-L-

2.9	LICENSE PLATE HOLDER
5.7	LIGHTING, DOT
3.10	LIGHTING, EMERGENCY
3.15	LIGHTS, PATIENT COMPARTMENT
3.19	LOW VOLTAGE ALARM

-M-

1.19	MIRRORS, OUTSIDE
1.22	MISCELLANEOUS CHASSIS ITEMS
8.0	**MISCELLANEOUS EQUIPMENT**
2.0	**MODULE CONVERSION**
3.4.1	MODULE POWER BUTTON

-O-

5.6	OXYGEN COMPARTMENT
4.14	OXYGEN OUTLETS

-P-

6.1	PAINTING PROCEEDURE
4.6	PANELING, INTERIOR
3.4.4	PARK OVERRIDE
4.0	**PATIENT COMPARTMENT**
7.0	**PAYLOAD**
7.1	PAYLOAD

-R-

3.4.8	REAR SCENE LIGHTS "ON" IN REVERSE
3.4.7	REAR SCENE LIGHTS "ON" WITH REAR DOORS OPEN
5.1	REAR WHEEL WELL TRIM
10.0	**REQUIREMENTS OF THE MANUFACTURER**
10.4	REMOUNTING AND REFURBISHING
2.4	ROOF
5.2	RUB RAILS
1.21	RUNNING BOARDS AND MUD FLAPS
1.23	REMOTE ENTRY

-S-

3.11	SCENE LIGHTS
4.3.2	SEAT, CPR
4.3	SEAT, EMT/ATTENDANT
1.16	SEATS, DRIVER'S COMPARTMENT
4.13	SHARPS CONTAINER
2.5	SIDE WALLS
3.13	SIREN AND SPEAKERS
3.14	SPOTLIGHT
1.5	SPRINGS, AXLE RATINGS & SHOCKS
4.2.4	SQUAD BENCH
4.2.3	SQUAD BENCH CABINETS
4.9	STAINLESS STEEL SIDE WALL
1.6	STEERING
5.5	STONE SHIELDS
3.17	SUCTION - ON BOARD
3.20	SWITCH CONSOLE, DRIVER'S
3.20.1	SWITCH CONSOLE, PATIENT COMPARTMENT

-T-

1.8	TRANSMISSION
1.20	TRIM PACKAGE, CAB

-U-

4.4	UPHOLSTERY

-V-

1.1	VEHICLE AND WHEEL BASE
3.18	VENTILATION
3.3	VOLTMETER

-W-

3.2	WARNING DISPLAYS
9.0	**WARRANTY**
9.1	WARRANTY
1.11	WHEELS AND TIRES
1.14	WINDOWS, CAB
1.15	WINDSHIELD WIPERS
8.4	WIRING SCHEMATICS

INDEPENDENCE FIRE DEPARTMENT
2021 FORD *"F-550"* w/ 4WD
AMBULANCE SPECIFICATIONS

1.0 CHASSIS

1.1 VEHICLE AND WHEELBASE
2021 Ford F-550 Super Duty XLT chassis with 4-wheel drive and dual rear wheels, 193-inch wheelbase, 108-inch cab to axle, Ford Ambulance prep package 47A.

COMPLY? .....YES_____NO _____

1.2 ENGINE
Ford 6.7-liter Power Stroke Turbo Charged V-8 Diesel with OEM engine block heater.

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

1.4 GAUGES AND METERS
Speedometer, odometer, fuel gauge, temperature, oil pressure, digital voltmeter, engine hour meter.

COMPLY? .....YES_____NO _____

1.5 SPRINGS, AXLE RATINGS, & SHOCKS
Maximum GVWR – 18,000 lbs. GVWR
Front: Monobeam with coil springs, shock absorbers and stabilizer bar.
Rear: Liquid Spring Suspension with auto dump feature that lowers the rear of the unit to allow for ease of cot loading when the rear doors are open.
COMPLY? .....YES_____NO _____

1.6 STEERING
Power steering with tilt wheel and cruise control.

COMPLY? .....YES_____NO _____

1.7 BRAKES
Heavy duty, hydro-boost assisted type, 4-wheel anti-lock disc brake system.

COMPLY? .....YES_____NO _____

1.8 TRANSMISSION
Torqueshift ™ heavy duty 6-speed Select Shift transmission with external oil cooler.

COMPLY? .....YES_____NO _____

1.9 AXLE, REAR
4.10 gear ratio w/ limited slip axle.

COMPLY? .....YES_____NO _____

1.10 FUELTANK
Single tank w/ 40-gallon capacity.

COMPLY? .....YES_____NO _____

1.11 WHEELS AND TIRES
Seven (7) LT 225/70RX19.5G Steel Belted Radial tires, BSW all season tread. The spare tire will be mounted in the left rear exterior compartment. Stainless steel wheel inserts with valve stem extensions will be provided. The valve stem extensions are to be steel braided lines that are held in place with stainless steel brackets. These brackets are to be located in such a way as to provide easy access to both the inside and outside rear tires valve stems for the checking of tire pressure and for the addition of air when required.

COMPLY? .....YES_____NO _____

1.12 BATTERIES
Two 750 CCA mounted in the engine compartment and wired parallel in OEM configuration that complies with Ford QVM and KKK-A-1822-F requirements. Batteries will be wired so that both will always be used for starting and controlled by a power cut off switch. The Ford ignition key activates the cutoff switch. Power can be provided to the module without the engine running by turning the ignition key to accessory position.

COMPLY? .....YES_____NO _____

1.13 ALTERNATORS
Dual Ford OEM alternators with internal regulators. One 200-amp alternator and one 150-amp alternator for a combined for a total of 350 amps

COMPLY? .....YES_____NO _____

1.14 WINDOWS, CAB
Tinted safety glass is installed in all exterior windows. Ford OEM power operated windows.

COMPLY? .....YES_____NO _____

1.15 WINDSHIELD WIPERS
Two speed electric, with washer and adjustable intermittent cycle.

COMPLY? .....YES_____NO _____

1.16 SEATS, DRIVER'S COMPARTMENT
Deluxe clothe OEM High Back Captain's Chairs, seat belts and shoulder harnesses.

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

COMPLY? .....YES_____NO _____

1.17 HEATER AND AIR CONDITIONER
OEM heavy duty, high output.

COMPLY? .....YES_____NO _____

1.18 COOLING SYSTEM, ENGINE
Heavy-duty liquid system using a 50/50 mix of permanent type antifreeze and water for protection to -40 Fahrenheit.

COMPLY? .....YES_____NO _____

1.19 MIRRORS, OUTSIDE
OEM heated mirrors with power adjustment and built-in 2" x 6" convex mirrors, dual direction breakaway mounting arms with telescoping width adjustment.

COMPLY? .....YES_____NO _____

1.20 TRIM PACKAGE, CAB
XLT Trim Package; full stainless-steel wheel simulators, chrome front bumper and grill. Color keyed door trim with map pockets, rubber floor mat, padded sunvisors, courtesy and dual dome lights, AM/FM Stereo Radio w/digital screen / GPS Navigation /dual cab speakers. Power door locks, cruise control, tilt steering wheel, and power adjustable brake and accelerator pedals.
COMPLY? .....YES_____NO _____

1.21 RUNNING BOARDS AND MUD FLAPS
Heavy-duty aluminum Diamond Plate running boards will be installed from the back of the front wheel opening to the front of the module box. They will include mudguards to protect the chassis and module. Rubber mud flaps will be installed behind the dual rear wheels.

COMPLY? .....YES_____NO _____

1.22 MISC. CHASSIS ITEMS
Jewel effect daytime running headlights, dual pitch horn, reduced sound level exhaust, OEM standard undercoating, step-well pad and factory supplied jack and tire tools, dual air bags.

COMPLY? .....YES_____NO _____

1.23 REMOTE ENTRY

Remote Entry & anti-theft with two key Fobs' shall be included. The Module entry door locks will also be controlled by the factory Ford key fob. A hidden unlock switch will be installed in the chassis grill.

COMPLY? .....YES_____NO _____

2.0 MODULE CONVERSION

2.1 DIMENSIONS, EXTERIOR

Overall vehicle length	316.0 inches
Overall vehicle height	113.5 inches
Overall module body length	176.0 inches
Overall module body height	95.0 inches
Overall module body width	96.0 inches

COMPLY? .....YES_____NO _____

2.2 DIMENSIONS, INTERIOR

Length forward door to rear door	170.25 inches
Width interior wall to wall	92.0 inches
Width of aisle	49.0 inches
Height floor to ceiling	74.0 inches
Loading height	34.5 inches

NOTE: "Kneeling" rear suspension required for load height in KKK and NFPA limits.

COMPLY? .....YES_____NO _____

2.3 GENERAL CONSTRUCTION

The entire body will be a welded and **SEAMLESS** one-piece body **(No Exceptions)**. The entire perimeter and around all openings of the body shall be fully welded and ground smooth thus eliminating any joints or seams. The use of tongue and groove method of construction that requires the use of a seam sealer is not acceptable. This is to prevent the cracking of paint at these areas resulting in a buildup of road dirt and grime and the eventual development of corrosion along the tongue and groove seams.

COMPLY? .....YES_____NO _____

The aluminum skin, the roof and side panels, shall be permanently fastened to the framework using Lord 406/19 Acrylic Adhesive. Adhesive is applied to the sidewall skin to prevent warp age, oil canning and metal deflection associated with the welding of the sidewall skin to the structural framework. The use of double back adhesive tape is prohibited to eliminate the possibility of the adhesive tape failing to maintain a bond to the external skin.

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

The roof panel shall be a single sheet of aluminum. Covering the roof of the exterior body with sectional pieces of aluminum panels is prohibited. This is to eliminate the necessity for joints or seams where these panels join.

COMPLY? .....YES_____NO _____

The wall and roof support framework shall be .125" 6061-T6 extruded aluminum box beams and extrusions spaced on 12" centers or less. There shall be no frame members spaced at a distance in excess of 12". The roof support framework shall additionally include .125" 6061-T6 extruded 1" x 2" aluminum box beams running the full length of the roof. The frame and skin shall be fully welded with no rivets.

COMPLY? .....YES_____NO _____

The exterior of the body will be finished smooth with 45-degree **SEAMLESS** beveled extruded corners presenting a modern and dynamic appearance. The outer wall thickness of the extruded corners shall be .250" to provide additional protection at all corners. The body will be designed and built to provide impact and penetration resistance, with appropriate channel reinforcing to assure rigidity.

COMPLY? .....YES_____NO _____

All parts of the body and attachments will be fastened together with rust resistant fasteners in a manner that will preclude loosening of any bolts and screws, and the cracking of welded joints. The exterior body panels will be made of not less than 0.125" thick metal and be reinforced at all points where equipment will be attached. Additional plating will be added in the Street side and curbside walls for future installation of 6-point seatbelts.

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

2.4 ROOF

The roof surface shall be **SEAMLESS** and **CROWNED** and of **ONE PIECE** of .125" aluminum (3003-H14). The use of any type of sealer or caulking material is strictly forbidden. There shall be no lip or protrusion on the roof that could result in the entrapment of any water or moisture.

COMPLY? .....YES NO _____

The perimeter of the roof shall be constructed of 45-degree **SEAMLESS** beveled extrusions that eliminate any lip or protrusion providing a smooth finish. The outer wall thickness of the roof perimeter extrusions shall be .250" to provide additional protection at all perimeter corners.

COMPLY? .....YES_____NO _____

The roof under structure will be fabricated from extruded aluminum box beams (6061-T6). The under structure will be constructed by welding 1" x 2" x .125" box beams lengthwise and by welding 2" x 2" x .125" box beams, spaced on 12" centers or less, crossways forming a cross sectional grid roof support framework. The complete roof will be treated with a sound-deadening barrier. The roof panel shall be fully perimeter welded and adhesive bonded to the roof under structure with Lord 46/19 Acrylic Adhesive. The use of skip or intermittent welding of the roof perimeter is unacceptable.

COMPLY? .....YES_____NO _____

2.5 SIDE WALLS

The body sidewall skin shall be constructed of .125" aluminum (3003 H14). The sidewall under structure will be fabricated by welding 2" x 2" x .125" extruded aluminum box beams vertically, spaced no further than on 12" centers. The vertical tubing will join and be welded to roof supports (2" x 2" x .125" extruded aluminum box beams) to form an interlocking grid between the sidewall and the ceiling. The complete sides will be treated with a sound-deadening barrier. The body sidewall skin shall be fully welded around the entire perimeter and all body openings and adhesive bonded to the sidewall framework with Lord 406/19 Acrylic Adhesive. The curbside of the module, forward of the rear wheel will have a 4" skirt drop.

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

2.6 FLOOR SUB-STRUCTURE

The floor shall be at the lowest level permitted but not more than 34 ½ inches from the ground with **NO MODIFICATION TO THE FORD OEM CHASSIS SUSPENSION.**

COMPLY? .....YES_____NO _____

The floor sub-structure shall consist of two (2) 1/4" walls 2" x 2" aluminum tubes running at the outer edge for the full length of the floor and the chassis frame rails. There shall then be sixteen (16) 1 ½" x 1 ½" x ¼" walls 1 ½" x 2" aluminum tubes running the width of the floor and fully welded to the outer tubes. This sub-structure frame is to mount on top of the Chassis frame rails via the 12 OEM Pucks. 2 Full-Length Plates measuring ¾" x 6" shall be welded to the underside of the 1 ½ x 1 ½ tubes, one left and one right. The outer edges of these plates

shall be welded to the 2 x 2 primary box beams. These plates shall be bolted, via OEM rubber mounts, to gusseted steel brackets bolted to the OEM frame. There shall be twelve (12) rubber mounts attaching the body to the frame.

COMPLY? .....YES_____NO _____

2.7 EXTERIOR COMPARTMENT CONSTRUCTION

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

COMPLY?.....YES_____NO _____

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

COMPLY?.....YES_____NO _____

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

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

2.8 DOORS

The corner of each door frame shall be ¼" Cast Aluminum inserted & welded to horizontal & vertical extrusions. This Cast part shall ensure superior strength as well as uniform fit & finish.

COMPLY? .....YES_____NO_____

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

COMPLY? .....YES_____NO _____

All doors shall be constructed of. 125 aluminum and 2 ½" thick.

COMPLY? .....YES_____NO _____

The inner panel on all exterior compartment and entry doors will be fastened to the extruded doorframe and recessed into the door frame extrusion for a flush finish. Surface mounting of

any interior door panels are not allowed. All fasteners used for the mounting of the interior panels are to have a rubber grommet affixed to the underside of the screw head to prevent the fastener screws from loosening and backing out of the extrusion. The interior door panels shall be readily removable for access to the interior of the door and the latching mechanism.

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

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

The door linkage rods' connecting the door handles and the rotary latches are to be 5/32 steel rods threaded on the turn buckle end. They shall be straight direct pull rods with no bends built into the rods allowed. Adjustments to the entry door linkage rods are to be provided by a turnbuckle located above and below and adjacent to each interior door handle.

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

All compartment doors will be equipped with a gas strut door stay that holds the door at 90 degrees to the body when open. All gas struts are to be mounted in such a way as to allow for easy access in the event that replacement or repair is required.

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

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

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

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

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

COMPLY?..... YES_____NO _____

Rear and side patient compartment doors shall have dark tinted safety glass windows encased in extruded aluminum frames. Each rear door shall have an 18.5" x 17.5" fixed window. The side door shall have an 18.5" x 17.5" slide opening window with screen and window lock.

COMPLY?..... YES_____NO _____

Right side entry door opening 77"H X 31" W **(Note: Door forward layout)**
Rear entry door opening (double door): 62.5"H X 48" W

COMPLY? .....YES_____NO _____

2.9 LICENSE PLATE HOLDER

Installed in the center of the rear kick plate above the rear step bumper there shall be a Cast Products license plate holder. There are to be two LED lights mounted in the holder.

COMPLY? .....YES_____NO_____

3.0 ELECTRICAL SYSTEM

3.1 ELECTRICAL SYSTEM COMPONENTS

A Weldon V-MUX 100% solid-state microprocessor based multiplex system will be installed to control the electrical functions. The system will provide diagnostics lap top plug-in capability. The front console shall contain fifteen (15) PODS buttons with an OLED, text display. The rear panel shall contain twelve (12) PODS buttons. PODS buttons are flexible to be used as latching, multi-level or momentary buttons. A Weldon High Content Node (S) shall be provided. There could be one or more depending upon demand requirements.
A Hanscom camera system will be included with a rear facing camera mounted to the exterior rear of the module along with a forward-facing interior camera mounted above the rear doors. A Hanscom display will be installed in the chassis cab.

A custom chassis console will be provided with dual drink holders. (Design upon bid award)

Comply.....YES____No_____

3.2 WARNING DISPLAYS

A digital OLED display and audible alarm will be integrated into the cab console and programmed through the multiplex system to provide visual and audible indications for:

Outside storage compartment "door open" warnings
Module Curbside and Rear "Door Open" Warning
Low voltage alarm
System Voltage
System Errors

Comply.....YES____No_____

3.3 VOLTMETER

The OLED display on the console will display system voltage

Comply.....YES____No_____

3.4 CONTROL PANEL PODS BUTTONS

A console panel will be mounted in the cab and a rear panel will be mounted in the access door to the electrical service cabinet in the action area. The PODS buttons will control all Emergency Warning functions as well as being able to control the Patient Compartment lighting and module heat/ac functions.

The PODS buttons will have dimmable perimeter backlighting for easy identification and a red LED will light up when turned on.

Comply.....YES____No____

3.4.1 MODULE POWER BUTTON

A module power button for the electrical system will be provided on the front panel.

Comply.....YES____No____

3.4.2 EMERGENCY MASTER BUTTON

A single emergency master button will be supplied for activating all the emergency warning lights and will be provided on the front console panel. The emergency master button will activate the module power automatically.

Comply.....YES____No____

3.4.3 FLASHER

The flasher will be provided within and programmed by the multiplex electrical system.

Comply.....YES____No____

3.4.4 PARK OVERRIDE

A park override PODS button, located on the Front Console Panel, will reactivate all lights disabled when the transmission is placed in the neutral/park position.

Comply.....YES____No____

3.4.5 BACKUP ALARM OVERRIDE

The Front Console Panel will have a PODS button to disable the backup alarm. This override will automatically reset to "Enabled" when the vehicle is removed from Reverse.

Comply.....YES____No____

3.4.6 CURBSIDE SCENE LIGHTS "ON" WITH CURBSIDE DOOR

The curbside scene lights will be programmed to activate when the curbside door is in the open position.

Comply.....YES____No____

3.4.7 REAR SCENE LIGHTS "ON" WITH REAR DOORS OPEN

The rear scene lights will be programmed to activate when the rear doors are in the open position.

Comply.....YES____No____

3.4.8 REAR SCENES "ON" IN REVERSE

The system will be programmed to provide activation for the rear scene lights, and the rear side scene lights, when the transmission selector lever is placed into the "reverse" position.

Comply.....YES____No_____

3.5 ELECTRICAL WIRING

All of the vehicle's electrical equipment will be served by circuits separate and distinct from the chassis electrical system. All circuits shall be rated to carry 125% of its maximum load. All electrical wiring will be run in grease, oil, heat and moisture resistant looming. Harnesses will be fastened with vinyl-clad clamps and grommeted at any area they contact a metal edge.

Every load carrying wire will be a minimum of 14-gauge and will be color-coded and heat embossed with its function every 6 inches. There will be at least a 6-inch service loop of wire at the point of attachment to each component. All electrical connections will be machine crimped; the use of Scotch-locks is strictly prohibited.

COMPLY?.....YES_____NO _____

3.6 GROUNDING SYSTEM

Due to the fact that most electrical problems in all 12-volt systems, but especially in emergency vehicles are due to problems with bad grounds, the body will be grounded to the chassis frame with 2 heavy duty braided grounding straps. In addition, there will be grounding straps from the engine block to the body and frame. There is to be a Major Ground Buss Bar in the electrical panel that is connected to the ground straps and frame, and then each individual circuit will have its own ground wire run to that ground buss bar. This will greatly improve the grounding of all circuits in the vehicle and insure less electrical problems.

The Weldon HC NODES shall be ground directly to the chassis batteries to eliminate any interference or possible loss of ground which would result in the shutdown of the entire NODE.

COMPLY?.....YES_____NO _____

3.7 ELECTRICAL SERVICE CABINET

The electrical service panel will be mounted in the electrical service cabinet above the action area and will be easily accessible by activating a single latch allowing the Button POD Panel section to swing down. The V-Mux Node(s) will be located in an easily accessible location in the electrical service cabinet for service technicians to perform troubleshooting and service work. This cabinet must be solely for the electrical system components with a large enough door opening to perform work on the systems completely without removing them from the cabinet.

Under no circumstances will any of the electrical systems be mounted in any exterior compartment. **NO EXCEPTIONS**

COMPLY?.....YES_____NO _____

3.8 12V DC OUTLETS

There shall be two (2) Cigar style 12V DC outlets, one located in the action area, and one above the right In/Out ALS compartment counter.

COMPLY? .....YES_____NO_____

3.9 110V AC SYSTEM

There shall be a weatherproof 110V- 125V male Kussmall receptacle rated at 20 amps with a spring-loaded cover assembly located on the front left corner of the module body for incoming 110-volt power. This receptacle shall be labeled. It shall be wired through one 15-amp circuit breaker. A shoreline indicator will be included above the shoreline outlet. The circuit shall include (1) 110-volt/USB interior receptacle located in the action wall area, (1) one rear of the CPR seat above the rear counter, (1) one the bench wall above the In/Out countertop, (1) six outlet power strip inside the In/Out compartment and (1) in the chassis cab behind the passenger street. All outlets shall illuminate per KKK-A-1822-F.

A Vanner Inverter/Conditioner w/remote switch, Model 20-1050-CUL will be supplied

COMPLY? .....YES_____NO _____

3.10 LIGHTING, EMERGENCY

The unit shall be equipped with the following warning lights:

14) Whelen 900 Series 9 x 7 red/blue split LED lights as follows:
- 6) Facing forward
- 4) Facing rearward
- 2) Facing right
- 2) Facing left

1) Whelen Series 9 x 7 clear LED light installed top center forward.
1) Whelen Series 9 x 7 amber LED light installed top center rearward.
2) Whelen 500 Series red LED lights mounted in the Front Fenders.
3) Whelen 500 Series red LED lights mounted in lower corners of entry doors.
4) Whelen 500 Series 500 red LED's in Chrome Housings in the Grill.
6) Whelen LED Strip lights installed in the rub rails. (3) per side.

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

COMPLY? .....YES_____NO_____

3.11 SCENE LIGHTS

There shall be four (4) LED Whelen 900 Series 9 x 7 with 13-degree tilt built into the lenses mounted two (2) lights on the left side and two (2) lights on the right side. There shall be two (2) LED Whelen Series 9 x 7 with 13-degree tilt built into the lenses mounted on the rear. A separate switch on the driver's switch panel shall control each pair. In addition, the right side and rear scene lights shall activate when the right side or rear doors, respectfully, are open.

COMPLY? .....YES_____NO _____

3.12 DOOR SWITCHING

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

COMPLY? .....YES_____NO _____

3.13 SIREN AND SPEAKERS

Two (2) - Sirens shall be installed Whelen Model 295 SL SA-1 with Wail, Yelp, Hi/Lo and Phaser sounds, the second siren may be switch controlled with wail/yelp. Dual Cast Products Siren Speakers shall be mounted outboard in the face of the Chrome Front Bumper, below the Headlights, in cast aluminum housings. One speaker per siren.

COMPLY? .....YES_____NO _____

3.14 SPOTLIGHT

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

COMPLY? .....YES_____NO _____

3.15 LIGHTS, PATIENT COMPARTMENT

The ceiling headliner shall contain eight (9) Whelen High - Low intensity LED dome lights. The left and right banks of lights shall be switched separately. In addition, the left bank high mode can be switched from the drivers switch panel and will be activated by opening of the side or rear entry doors. There shall be a timer switch installed in the right wall above the In/Out cabinet countertop. The timer switch will allow the left bank of Dome Lights to turn on even when the master switch is in the off position.

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

COMPLY? .....YES_____NO _____

3.16 CLOCK, PATIENT COMPARTMENT

A battery-powered Atomic Digital Clock w/Indoor Temp. & Date. 12/24 Hour display, Automatic updates for time (including DST), month, day, date Calendar.

COMPLY? .....YES_____NO _____

3.17 SUCTION - ON BOARD

An SSCOR/Board On Board suction system with an Impact E-12 Suction Pump shall be provided and mounted on the back wall above the action area counter top just forward of the CPR Seat.

COMPLY? .....YES_____NO _____

3.18 VENTILATION

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

COMPLY? .....YES_____NO _____

3.18 a AIR HORNS

Buell air horns with (2) mounted trumpets, air compressor, and air reserve tank. Air horn activated by rocker switch on the console. Trumpet location to be determined with award.

3.19 LOW VOLTAGE ALARM

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

COMPLY? .....YES_____NO _____

3.20 SWITCH CONSOLE, DRIVER'S

There shall be a switch console mounted in the center of the cab floor between the seats in such a way as to not interfere with access to the dash yet easily accessible to the driver. The console shall be easily removable to allow access for service. There shall be space provided for the installation of radios below the Weldon V-Mux Switch Panel. The switch panel shall be esthetically appealing and incorporate as follows:

Top Row:
"E" Master Switch / Primary/Secondary / Light Bar / Heat - AC / Patient Domes / Mod Power

Second Row:
"OLED" Display Screen / Back up Alarm Disable / Voltage Alarm Disable

Third Row:
Door Ajar Light / Compartment Ajar Light

Bottom Row:
Emitter / Siren - Horn / Left Scenes / Rear Scenes / Right Scenes

COMPLY? .....YES_____NO _____

3.20.1 SWITCH CONSOLE, PATIENT COMPARTMENT

There shall be (2) rear control panels in the patient compartment. (1) one in the action area, (1) one on the bench wall. The following switches shall be in the rear control panel, which shall be hinged for easy access to components. They shall be mounted in a double row at an angle facing the center of the cot and the squad bench.

Top Row:
Mod Power / Left Domes / Right Domes / O2 Light / Attendant Light

Bottom Row:
Inverter / Suction / Exhaust Fan / HVAC Fan Speeds / Heat - AC

COMPLY? .....YES_____NO _____

All switches in front and rear panels shall be Weldon Button Pod switches that are permanently marked by function, illuminate when activated and backlit for night visibility.

COMPLY? .....YES_____NO _____

4.0 PATIENT COMPARTMENT

4.1 FLOOR, PATIENT COMPARTMENT

The sub floor shall consist of .090" thick 3003 H14 corrosion resistant aluminum sealed watertight. Over the aluminum sub-floor there shall be a sheet of ¾", 13 ply, exterior grade plywood that is caulked and sealed.

COMPLY?.....YES_____NO_____

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

COMPLY?.....YES_____NO_____

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

COMPLY?.....YES_____NO_____

4.2. CABINET'S, INTERIOR

All interior cabinets shall be built using ¾" cabinet grade, finished both sides, 7 ply, solid core, birch plywood. The use of plywood of any lesser quality or thickness is strictly prohibited.

COMPLY?.....YES_____NO_____

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

COMPLY?.....YES_____NO_____

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

Interior cabinets to be lighted with On/Off switch in control panels.

COMPLY?.....YES_____NO_____

4.2.1 CABINETS, LEFT WALL

Cabinets shall be designed as per drawings with a one-piece molded Fiberglass countertop for the attendant in the action area and rear of the CPR seat. Storage cabinets shall be located in the left rear, above the CPR seat, and above the action area. The cabinet above the action area will have the same angle front to back as the cabinet with the switch panel. Cabinets fore and aft of the CPR seat to be angled. (2) Two cabinet to have tilt up speed load cabinet windows. Track type adjustable shelving in interior cabinets.

(2) Two pull out drawers for general storage installed fore and aft of the CPR seat. (1) 20" W x 7" T forward of the CPR seat and (1) 20" W x 4" T rear of CPR seat.

COMPLY?.....YES_____NO_____

The action wall shall house the technician's console, two oxygen outlets, vacuum outlet, aspirator collection bottle, climate control thermostat and fan control, one 12-volt connection and one lighted 110V/USB duplex outlet. The upper action wall area shall be hinged for ease of access. The action area counter to be extended to 73".

A locking narcotics cabinet will be installed in the action area

COMPLY? ..... YES_____ NO_____

4.2.2 BULKHEAD CABINETS

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

The bulkhead shall incorporate a pass-through Plexiglas sliding window from the rear patient compartment to the front cab. This window shall be sealed and weatherproof via a flexible rubber boot connection between the cab and the modular body.

COMPLY? ..... YES_____ NO_____

4.2.3 SQUAD BENCH CABINETS

Cabinets shall be mounted at the ceiling level directly over the entire length of the squad bench. They shall have "flip-up" Plexiglas doors. There must be a minimum of 43" from the bottom of these cabinets to the top of the squad bench. An angled switch panel shall be installed forward of the bench. A 26" W x 14" T X 21" D cabinet with a tip up door and Southco latch will be installed above the In/Out cabinet.

A (4) slot glove storage will be installed above the side entry door.

A custom In/Out cabinet will be installed forward of the squad bench, it shall include a fiberglass counter top, adjustable shelf and a slid-out drawer that slids toward the rear.

COMPLY? ..... YES_____ NO_____

4.2.4 SQUAD BENCH

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

COMPLY? ..... YES_____ NO_____

4.3 SEAT, EMT / ATTENDANT

An attendant seat shall be located at the head of the primary cot. It shall be a high back deluxe seamless vinyl captain's chair with an integrated child safety seat mounted on a swivel base as approved by the seat manufacturer. Seat belt shall be included for attendant safety.

COMPLY? ..... YES_____ NO_____

4.3.1 CPR Seat Cabinet

A single cabinet shall be mounted at the ceiling level directly over the entire length of the CPR seat. It shall have a "flip-up" style Plexiglas door. There must be a minimum of 43" from the bottom of this cabinet to the top of the CPR seat cushion.

COMPLY? .....YES_____NO _____

4.3.2 SEAT, CPR

A sidewall seat will be mounted in the center of the left wall. This seat will be comprised of three molded/contoured seamless vacuum formed vinyl cushions. A seat belt shall be provided for attendant safety. Cushions shall be vacuum-formed seamless. One-inch cushions shall be installed on three sides of head area.

COMPLY? .....YES_____NO _____

4.4 UPHOLSTERY

All door panels, seat cushions, and protective pads shall be constructed of fire-retardant foam, covered with minimum 40-ounce vinyl. All seat and back cushions in the patient compartment shall be vacuum-formed seamless.

COMPLY? .....YES_____NO _____

4.5 HEADLINER

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

COMPLY? .....YES_____NO _____

4.6 PANELING, INTERIOR

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

COMPLY? .....YES_____NO _____

4.7 GRAB RAIL, OVERHEAD

A full-length yellow handicap style 1 1/2" diameter grab rail shall be installed on patient compartment ceiling. This rail shall be capable of supporting a minimum of 300 pounds. This Rail shall be treated with Agion Anti-Bacterial Coating.

COMPLY? .....YES_____NO _____

4.8 GRAB HANDLES, DOORS

All entry doors will have a matching yellow heavy-duty stainless-steel handicap style 1 1/2" "V" bar grab handle that will be securely mounted slightly below the window. These Bars shall be treated with Agion Anti-Bacterial Coating.

A yellow 12" grab bar will be installed inside of the side entry and rear doors to allow ease of entry.

COMPLY? .....YES_____NO _____

4.9 STAINLESS STEEL WALL

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

COMPLY? .....YES_____NO _____

4.10 COT MOUNT

A Stryker floor plate shall be installed. A Stryker Mass casualty kit, Antlers and cot latch will be supplied.

COMPLY?.....YES_____NO _____

4.11 INSULATION

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

COMPLY?.....YES_____NO _____

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

COMPLY?.....YES_____NO _____

4.12 CLIMATE CONTROL

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

COMPLY?.....YES_____NO _____

The unit shall be a Pro-Air with 32,000 BTU cooling capacity and a 35,000 BTU heating capacity. The blower motor shall have permanent magnets and be capable of delivering 630 CFM of airflow. It must be removable without removing entire heat/cool unit and without disconnection of any coolant lines. The unit must include an auxiliary HVAC underskirt condenser. **NO EXCEPTIONS**

COMPLY?.....YES_____NO _____

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

COMPLY?.....YES_____NO _____

4.13 SHARP'S CONTAINER

Drop-in Sharp's/Waste access will be installed at the head of the bench with access to containers through a swing out door under the bench lid for ease of replacing.

COMPLY?.....YES_____NO _____

4.13 a ADU UV-C AIR AND SURFACE DISINFECTION LAMP

SHALL BE RECESSED MOUNTED IN THE CEILING HEADLINER WITH CONTROLS MOUNTED IN THE CAB OF THE AMBULANCE.

4.14 OXYGEN OUTLETS

Oxygen system shall be plumbed with conductive hose from oxygen compartment to (2) two Puritan-Bennett Ohio style oxygen outlets in the action area, (2) two in the ceiling above the cot and a third over the In/out counter on the bench wall.

COMPLY? .....YES NO _____

5.0 EXTERIOR BODY

5.1 REAR WHEEL WELL TRIM

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

COMPLY? .....YES_____NO _____

5.2 RUB RAILS

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

COMPLY? .....YES_____NO _____

5.3 BUMPER, REAR STEP

The rear step assembly shall be constructed of 1 ¾" X 1 3/4" tubular steel frame bolted to the chassis frame. The center section shall be non-skid grip strut aluminum and shall "Flip-Up" to allow adequate clearance of the Cot Wheels while Cot is being loaded. The ends shall be constructed of diamond plate end caps with 18" X 4" X 4" heavy-duty rubber dock bumpers.

COMPLY? .....YES_____NO _____

5.4 DOORSTEP, SIDE

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

COMPLY? .....YES_____NO _____

5.5 STONE SHIELDS

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

COMPLY? .....YES_____NO _____

5.6 EXTERIOR COMPARTMENT CONFIGURATION

NOTE: See Drawings for Exact Compartment Location and Dimensions

#1 OXYGEN / BACKBOARD COMPARTMENT

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

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

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

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

COMPLY? .....YES_____NO _____

#2 GENERAL STORAGE COMPARTMENT

This compartment shall be located street side between the #1 compartment and the left side drive wheels and is to be used for general storage. There is to be a double door on this compartment.

There shall be a full width, full depth aluminum "pan" style storage shelf installed in the compartment. The shelf is to be mounted on two (2) sets of infinitely adjustable uni-strut tracks at each end of the shelf with rubber matting covering the topside of the shelf.

COMPLY? .....YES_____NO _____

#4 SPARE TIRE COMPARTMENT

The spare tire shall not be mounted in a compartment but delivered with the truck. The cabinet shall have an adjustable shelf centered in the cabinet for general storage.

COMPLY? .....YES_____NO _____

#5 CURBSIDE BACKBOARD COMPARTMENT

The right rear curb side exterior compartment shall be a single door full height vertical compartment for the purpose of storing a minimum of two (2) backboards, and miscellaneous other related equipment. The compartment is to be divided equally with an aluminum divider. There shall be a shelf located on the forward side of the divider approximately 5' above the floor. This compartment to have In/Out Access through a 3/8" plexi door.

COMPLY? .....YES_____NO _____

#7 ALS IN/OUT ACCESS

There shall be a single 49" tall x 29" W door located just rear of the side entry door (curbside) allowing for In/Out access to the ALS interior cabinet.

COMPLY? .....YES_____NO _____

5.7 LIGHTING, DOT

The vehicle shall be equipped with jewel affect daytime running headlights and two amber park/turn lights on the front. The Module Body shall have at least 11 Innovative Brand LED clearance lights with "each light having four (2) LED's and grounded via a ground wire". Each top front corner shall have amber lights mounted on the front and side of each corner.

There shall be three red lights at the top rear center of the module. Each top rear corner shall have red lights mounted on the rear and side of each corner. There shall be three amber lights mounted on the center front of the cab roof.

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

All lights shall be as per I.C.C. requirements.

COMPLY? .....YES_____NO _____

6.0 BODY FINISH

6.1 PAINTING PROCEDURE

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

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

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _____

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

COMPLY? .....YES_____NO _

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

COMPLY? .....YES_____NO _____

6.2 PAINT & GRAPHICS DESIGN
The unit is to match the paint and graphics of the current Independence Fire Department fleet.

Chevrons will be included on smooth aluminum plates to the lower portion of the module entry doors.

COMPLY? .....YES_____NO _____

7.0 PAYLOAD

7.1 PAYLOAD
There shall be a minimum of 5,000 lbs. of usable payload. Weight determination shall be made with standard unit, full complement of fuel, fluids and spare tire. Any optional equipment shall be deducted from payload.

COMPLY? .....YES_____NO _____

8.0 MISCELLANEOUS EQUIPMENT

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

COMPLY? .....YES_____NO _____

8.2 I.V. HOLDERS

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

COMPLY? .....YES_____NO _____

8.3 ANTENNA, POWER & GROUND PRE-WIRE

(3) two pre-wire antenna coaxial cables delivered to the drivers switch console. There shall be a raceway provided to be able to run radio cable from the cab to the patient compartment. (3) NMO style antenna mounts will be installed in the module roof.

(3) Power and grounds will be installed for power of two-way radios.

COMPLY? .....YES_____NO _____

8.4 WIRING SCHEMATIC

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

COMPLY? .....YES_____NO _____

STEREO SPEAKERS

Stereo Speakers will be installed in the rear area of the headliner tied into the factory chassis stereo system with a volume control installed in the action area.

COMPLY? .....YES_____NO _____

9.0 WARRANTY

9.1 WARRANTY COVERAGE (See Warranty Certificate for Details)

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

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

COMPLY? .....YES_____NO _____

10.0 REQUIREMENTS OF THE MANUFACTURER

10.1 KKK-A-1822-F CERTIFICATION

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

COMPLY? .....YES_____NO _____

10.2 FORD QVM PROGRAM

This unit shall meet all Ford QVM Program requirements and the manufacturer shall be a current member in good standing of the Ford QVM Program.

COMPLY? .....YES_____NO _____

10.3 AMD / NTEA MEMBERSHIP

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

COMPLY? ..... YES _____ NO _____

10.4 REMOUNTING AND REFURBISHING

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

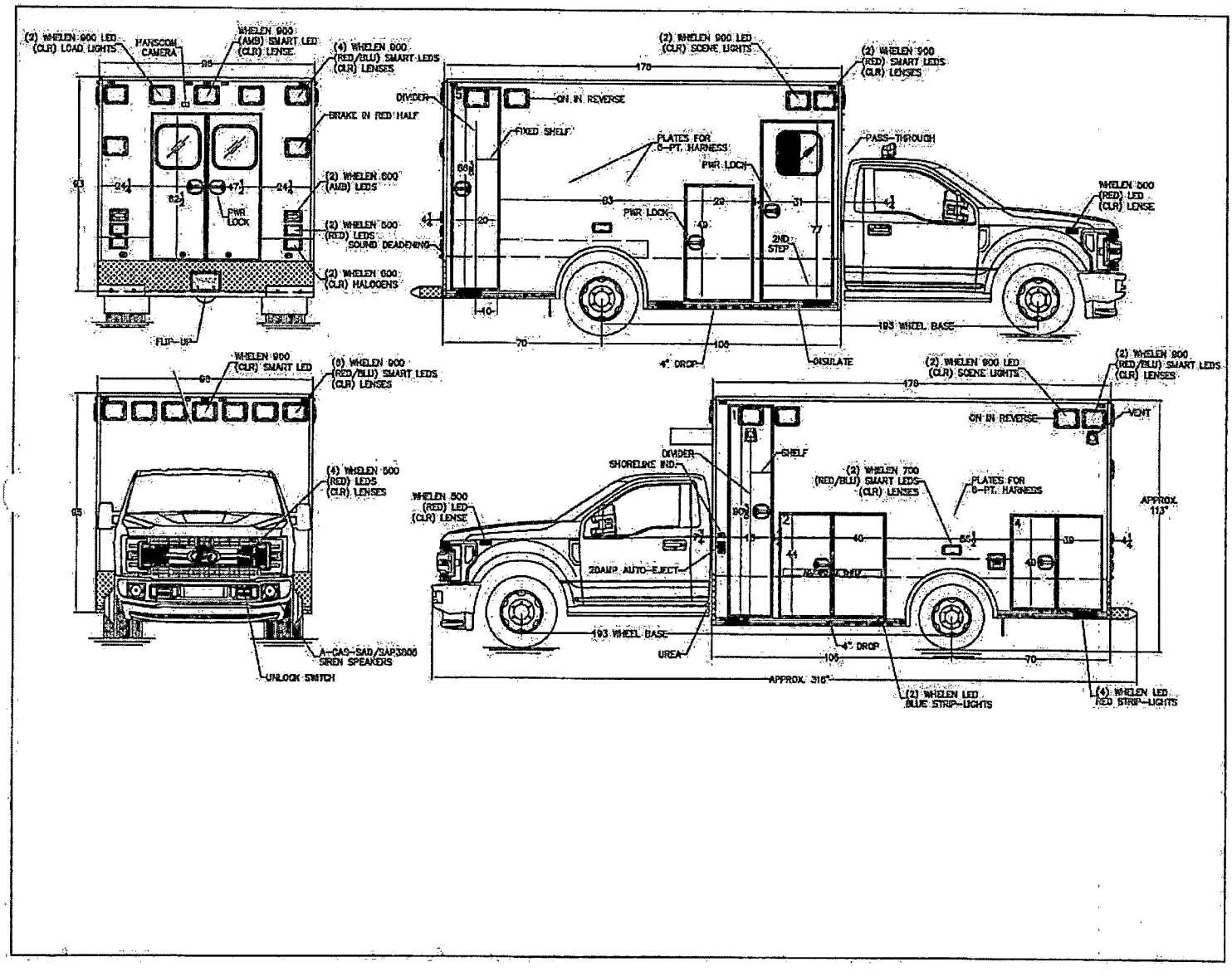
COMPLY? ..... YES _____ NO _____

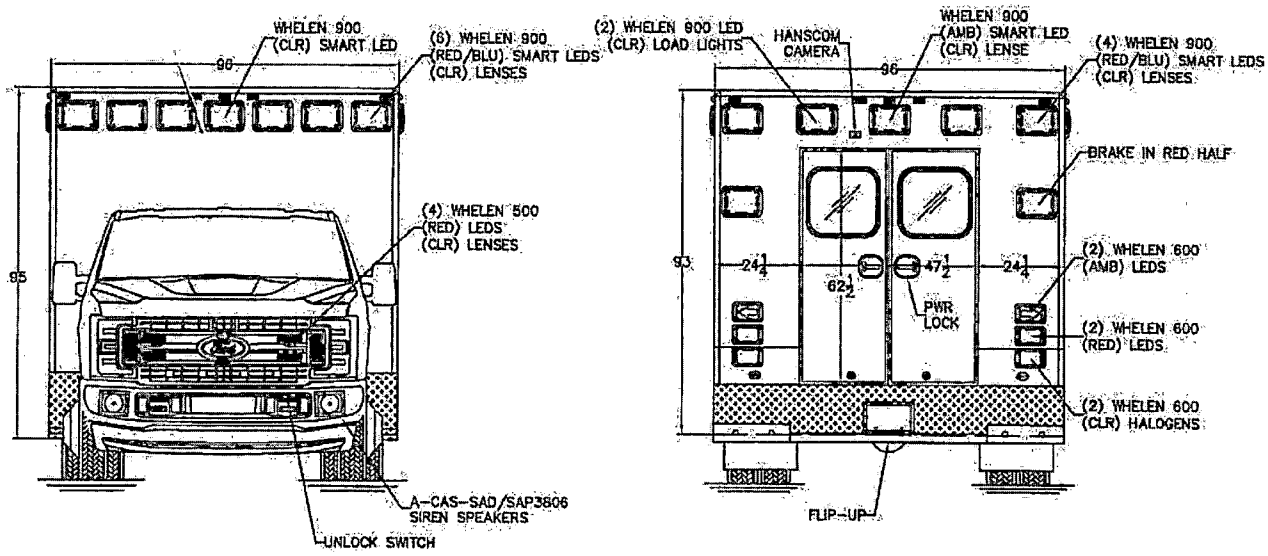
10.5 FORD POOL ACCOUNT PROGRAM

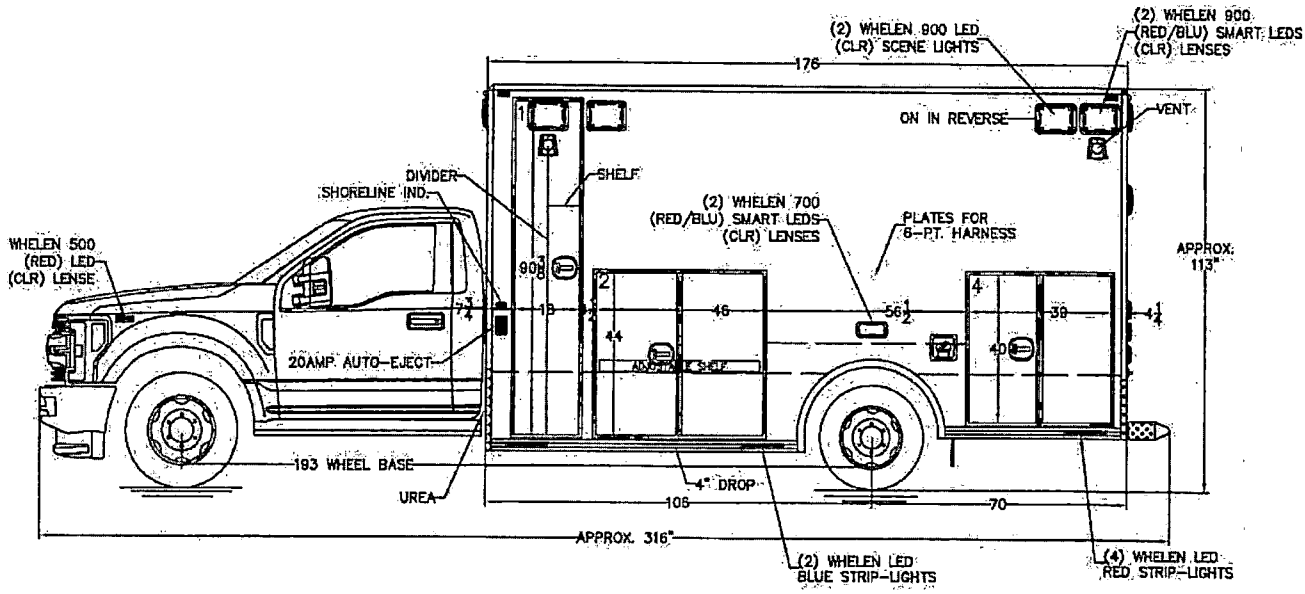
The manufacturer shall be a current member in good standing of the Ford Pool Account Program.

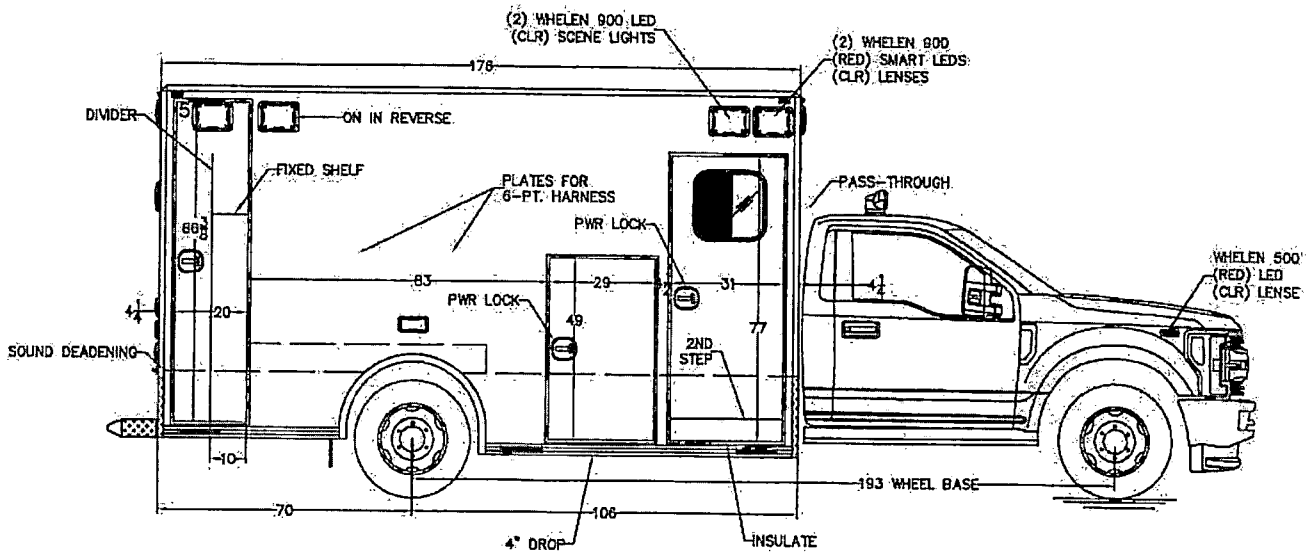
COMPLY? ..... YES _____ NO _____

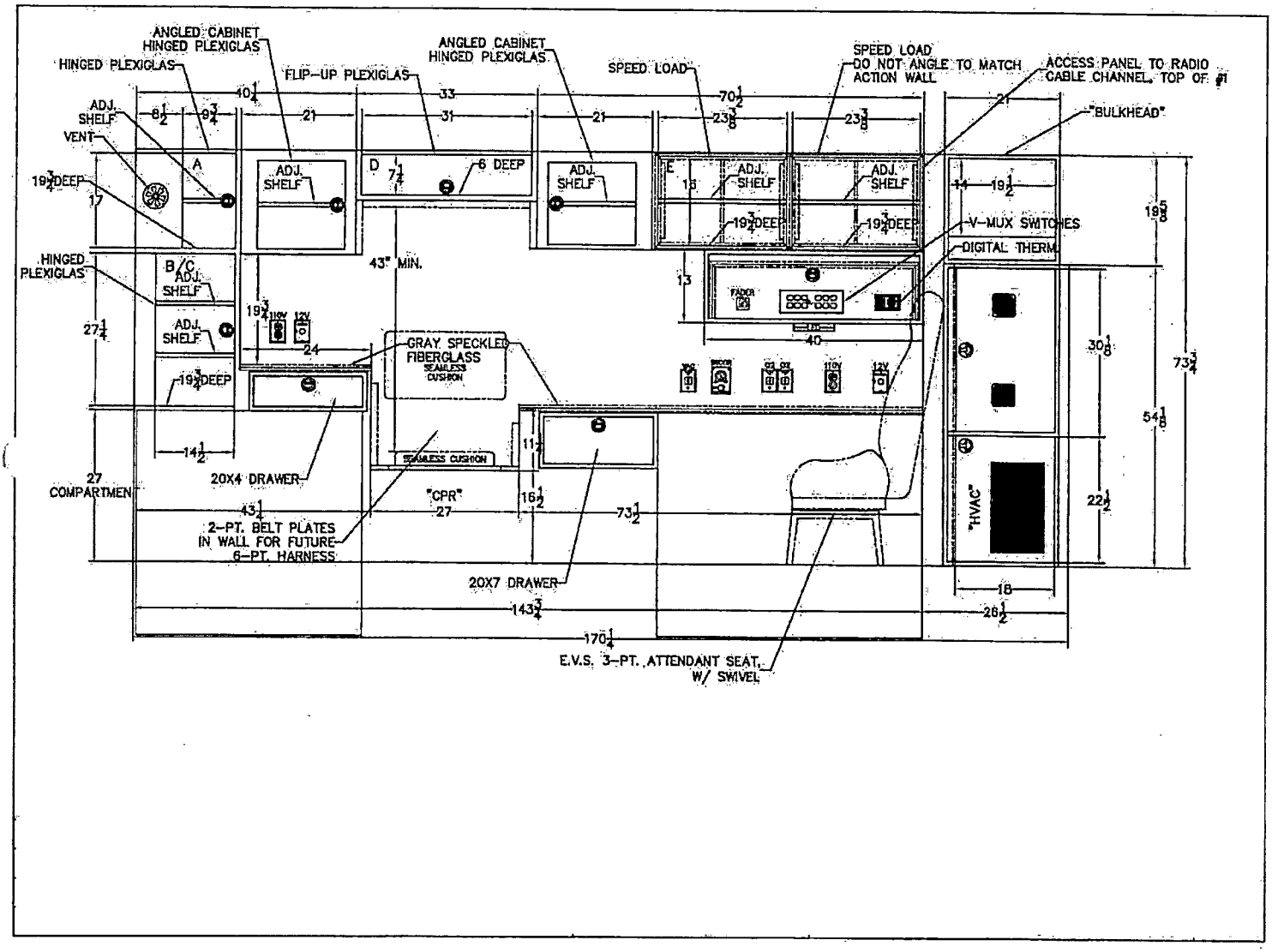
POSITIVELY NO EXCEPTIONS ALLOWED TO SECTION'S 9.1 THROUGH 10.5

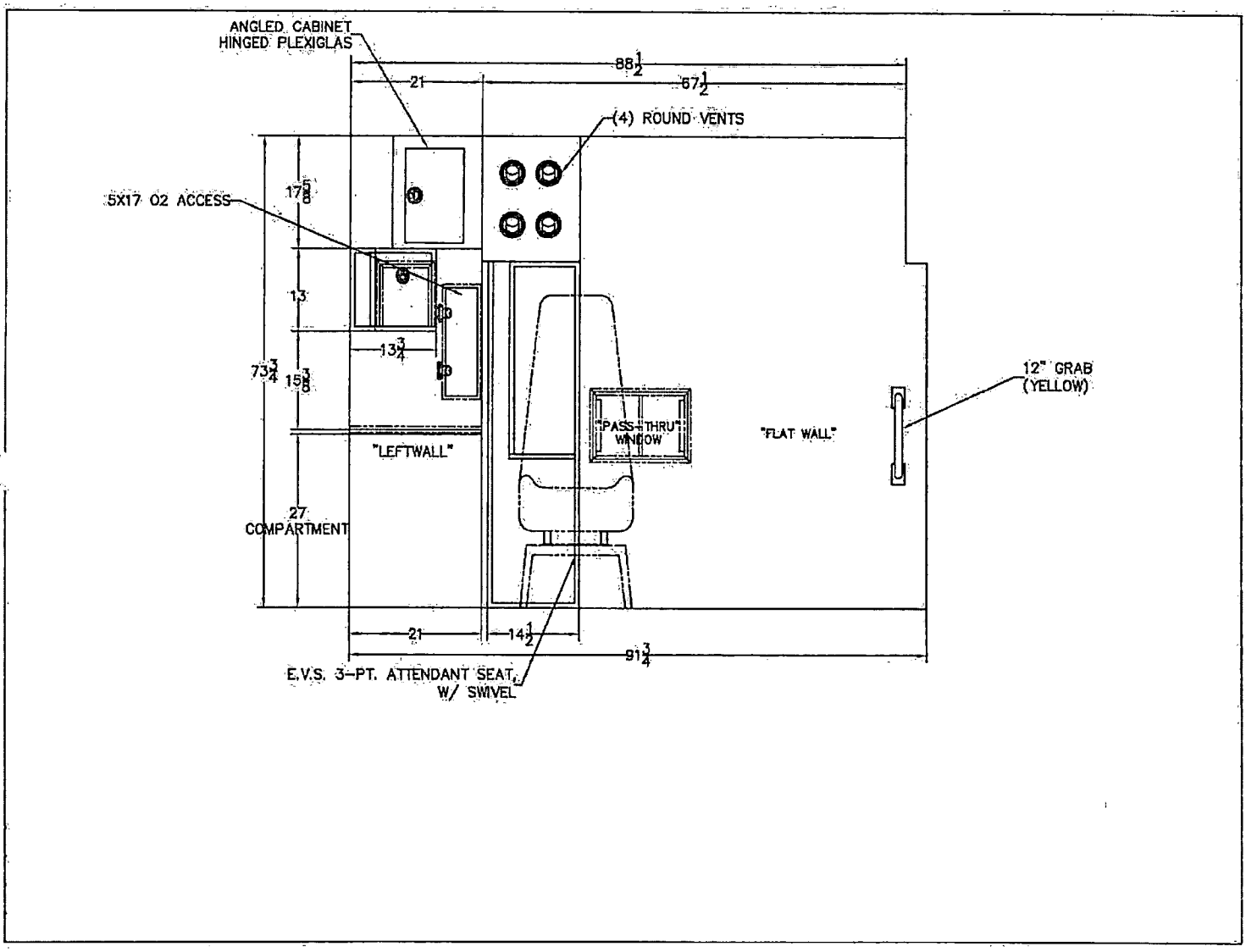

(2) WHELEN 900 LED (CLR) LOAD LIGHTS
PANSCOM CAMERA
WHELEN 900 (AMB) SMART LED (CLR) LENSE
(4) WHELEN 900 (RED/BLU) SMART LEDS (CLR) LENSES
BRAKE IN RED HALF
(2) WHELEN 600 (AMB) LEDS
PWR LOCK
(2) WHELEN 600 (RED) LEDS
SOUND DEADENING
(2) WHELEN 600 (CLR) HALOGENS
FLIP-UP
(2) WHELEN 900 LED (CLR) SCENE LIGHTS
(2) WHELEN 900 (RED) SMART LEDS (CLR) LENSES
DIVIDER
ON IN REVERSE
FIXED SHELF
PLATES FOR 5-PT. HARNESS
PWR LOCK
PASS-THROUGH
WHELEN 600 (RED) LED (CLR) LENSE
2ND STEP
INSULATE
4" DROP
193 WHEEL BASE
WHELEN 900 (CLR) SMART LED
(5) WHELEN 900 (RED/BLU) SMART LEDS (CLR) LENSES
(4) WHELEN 600 (RED) LEDS (CLR) LENSES
A-CAS-SAD/SAP3000 SIREN SPEAKERS
UNLOCK SWITCH
(2) WHELEN 900 LED (CLR) SCENE LIGHTS
(2) WHELEN 900 (RED/BLU) SMART LEDS (CLR) LENSES
VENT
ON IN REVERSE
SHORELINE INLET
DIVIDER
SHELF
(2) WHELEN 700 (RED/BLU) SMART LEDS (CLR) LENSES
PLATES FOR 5-PT. HARNESS
WHELEN 600 (RED) LED (CLR) LENSE
APPROX. 113"
20AMP AUTO-EJECT
193 WHEEL BASE
UREA
4" DROP
APPROX. 316"
(2) WHELEN LED BLUE STRIP-LIGHTS
(4) WHELEN LED RED STRIP-LIGHTS

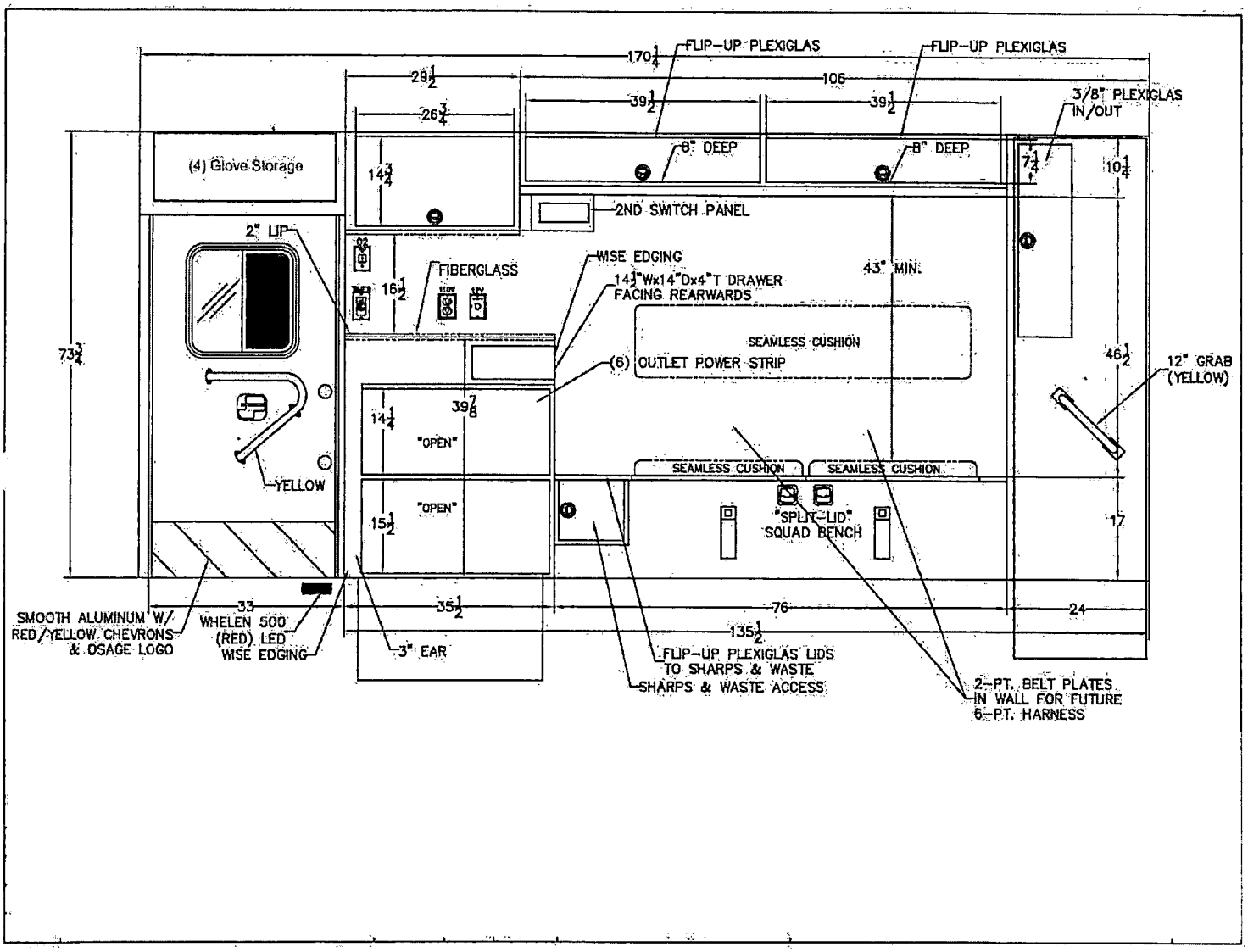

WHELEN 900
(CLR) SMART LED
(6) WHELEN 900
(RED/BLU) SMART LEDS
(CLR) LENSES
96
95
(4) WHELEN 500
(RED) LEDS
(CLR) LENSES
A-CAS-SAD/SAP3606
SIREN SPEAKERS
UNLOCK SWITCH
(2) WHELEN 900 LED
(CLR) LOAD LIGHTS
HANSCOM
CAMERA
WHELEN 900
(AMB) SMART LED
(CLR) LENSE
96
(4) WHELEN 900
(RED/BLU) SMART LEDS
(CLR) LENSES
BRAKE IN RED HALF
93
24 1/4
62 1/2
47 1/2
24 1/4
PWR
LOCK
(2) WHELEN 600
(AMB) LEDS
(2) WHELEN 600
(RED) LEDS
(2) WHELEN 600
(CLR) HALOGENS
FLIP-UP

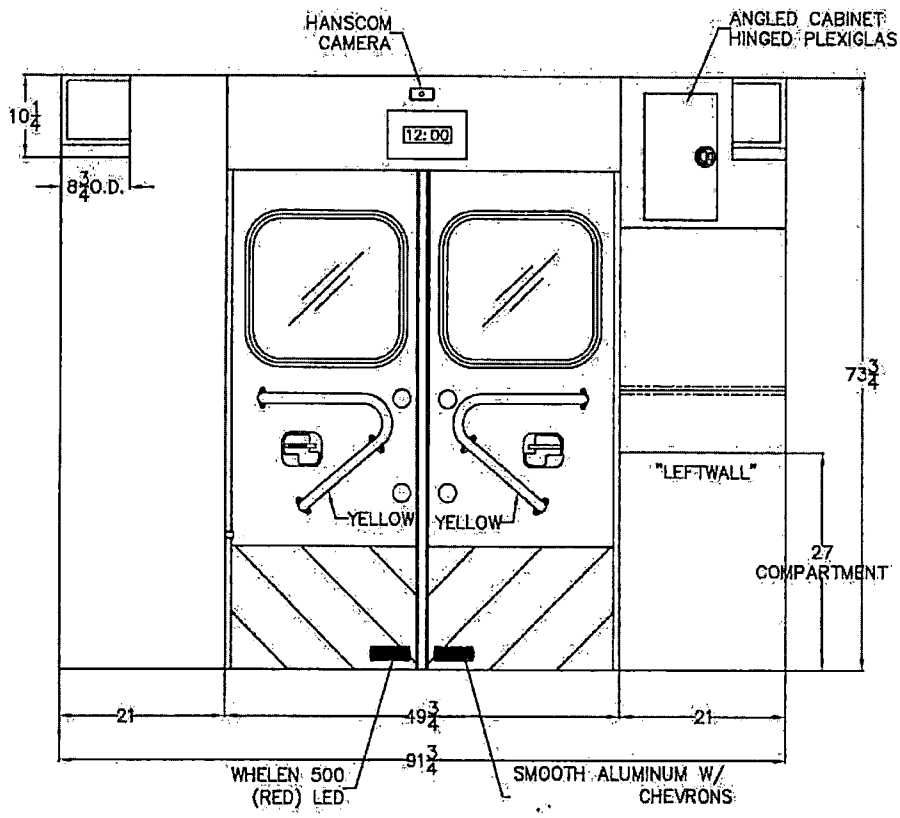

(2) WHELEN 900 LED
(CLR) SCENE LIGHTS
(2) WHELEN 900
(RED/BLU) SMART LEDS
(CLR) LENSES
176
ON IN REVERSE
VENT
DIVIDER
SHORELINE IND.
SHELF
(2) WHELEN 700
(RED/BLU) SMART LEDS
(CLR) LENSES
PLATES FOR
6-PT. HARNESS
WHELEN 500
(RED) LED
(CLR) LENSE
APPROX.
113"
90 3/8
7 1/4
13
46
56 1/2
39
1 1/4
44
20AMP. AUTO-EJECT
193 WHEEL BASE
UREA
4" DROP
105
70
APPROX. 316"
(2) WHELEN LED
BLUE STRIP-LIGHTS
(4) WHELEN LED
RED STRIP-LIGHTS

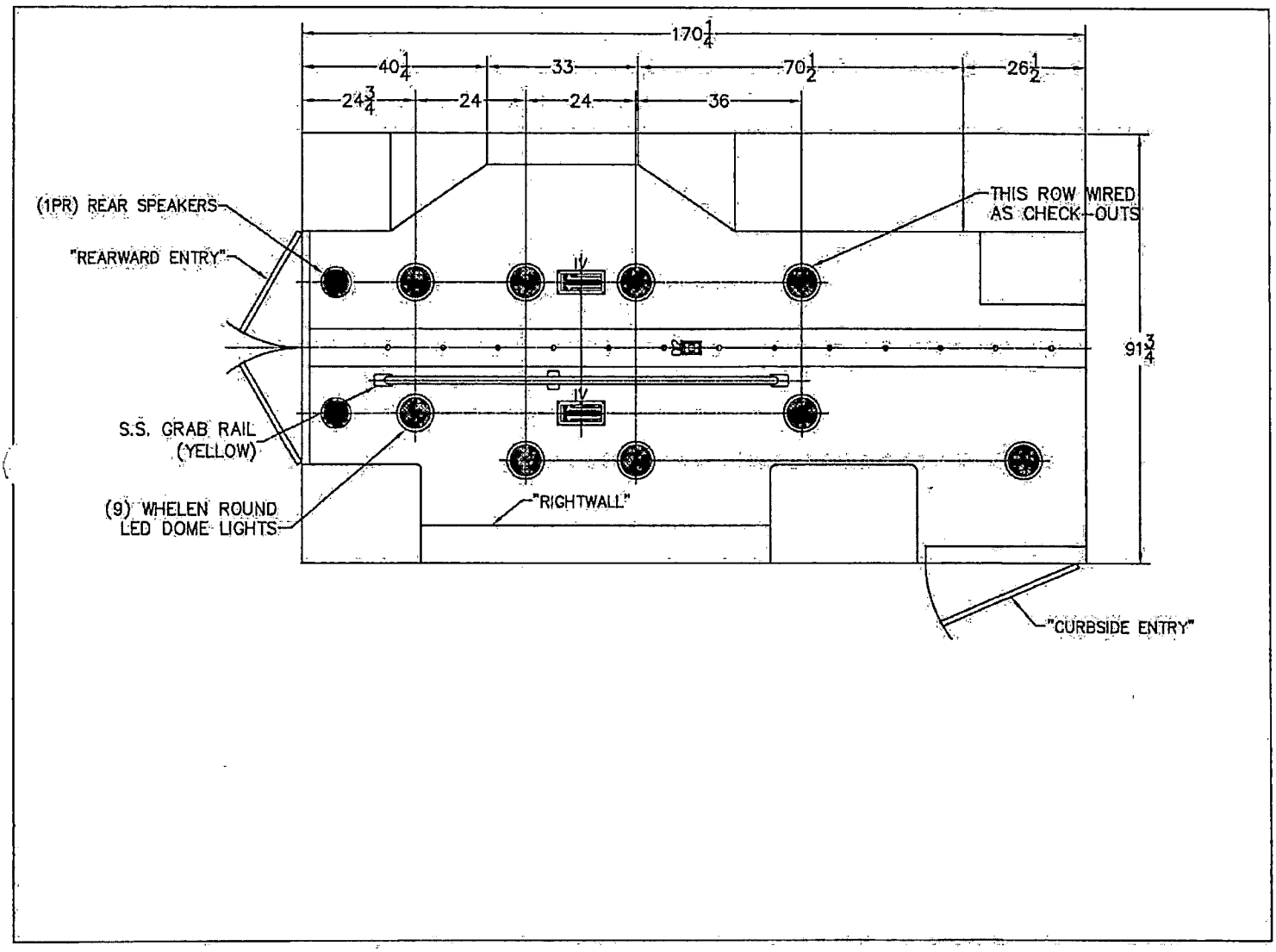

(2) WHELEN 900 LED
(CLR) SCENE LIGHTS
(2) WHELEN 800
(RED) SMART LEDS
(CLR) LENSES
178
DIVIDER
5
ON IN REVERSE
FIXED SHELF
PLATES FOR
6-PT. HARNESS
PASS-THROUGH
PWR LOCK
66 3/8
WHELEN 500
(RED) LED
(CLR) LENSE
83
29
31
PWR LOCK
20
49
77
SOUND DEADENING
2ND
STEP
10
193 WHEEL BASE
70
106
4" DROP
INSULATE

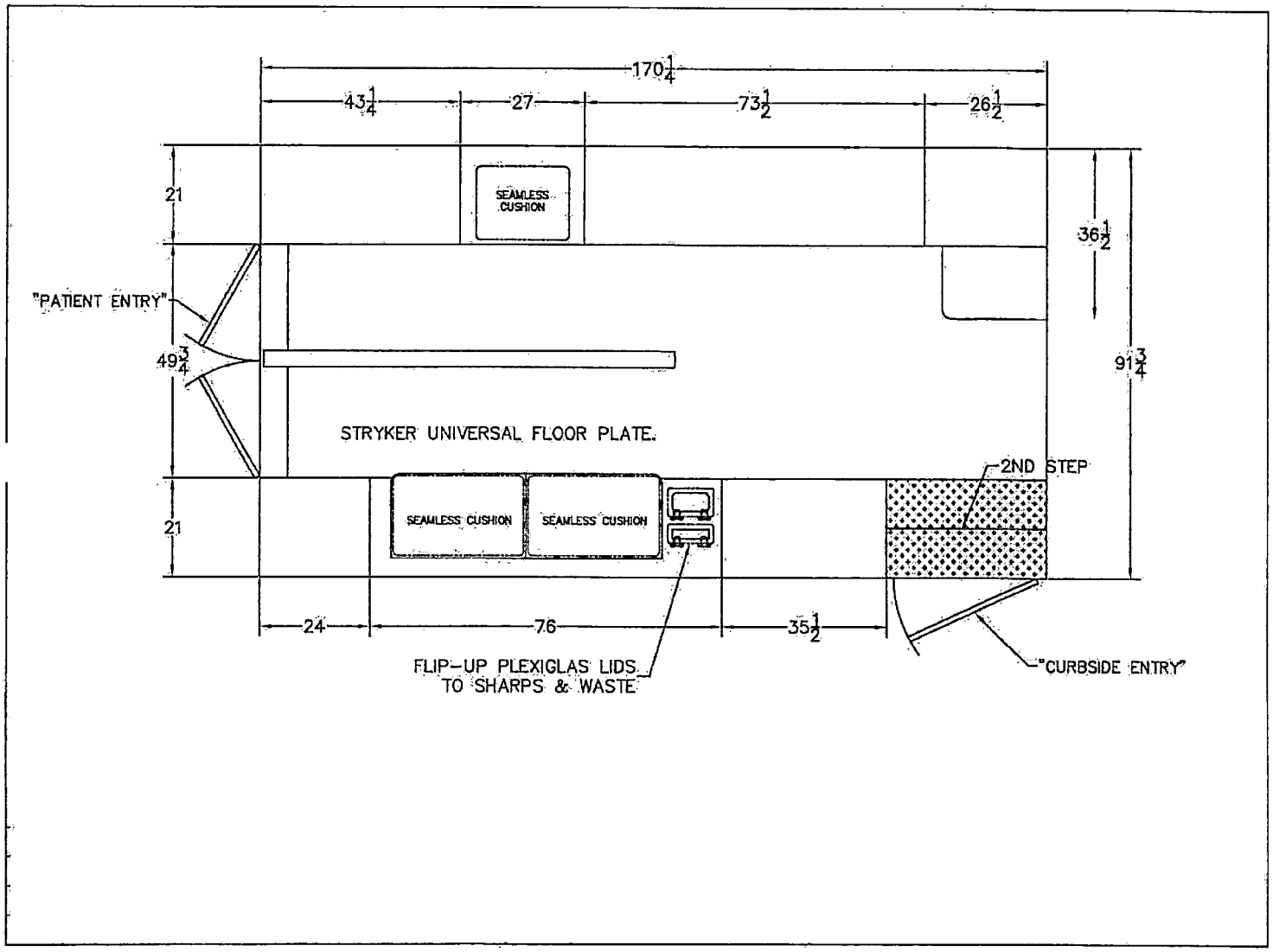

ANGLED CABINET HINGED PLEXIGLAS
HINGED PLEXIGLAS
FLIP-UP PLEXIGLAS
ANGLED CABINET HINGED PLEXIGLAS
SPEED LOAD
SPEED LOAD DO NOT ANGLE TO MATCH ACTION WALL
ACCESS PANEL TO RADIO CABLE CHANNEL, TOP OF #1
"BULKHEAD"
ADJ. SHELF
VENT
A
D
6 DEEP
E
ADJ. SHELF
19¾ DEEP
V-MUX SWITCHES
DIGITAL THERM.
HINGED PLEXIGLAS
B/C ADJ. SHELF
43" MIN.
FADER
110V
12V
GRAY SPECKLED FIBERGLASS SEAMLESS CUSHION
SEAMLESS CUSHION
20X4 DRAWER
27 COMPARTMEN
"CPR"
"HVAC"
2-PT. BELT PLATES IN WALL FOR FUTURE 6-PT. HARNESS
20X7 DRAWER
E.V.S. 3-PT. ATTENDANT SEAT, W/ SWIVEL


ANGLED CABINET
HINGED PLEXIGLAS
88 1/2
21
67 1/2
(4) ROUND VENTS
5X17 O2 ACCESS
17 5/8
13
13 3/4
73 3/4
15 3/8
"LEFTWALL"
"PASS-THRU" WINDOW
"FLAT WALL"
12" GRAB (YELLOW)
27
COMPARTMENT
21
14 1/2
91 3/4
E.V.S. 3-PT. ATTENDANT SEAT, W/ SWIVEL


170 1/4
FLIP-UP PLEXIGLAS
FLIP-UP PLEXIGLAS
29 1/2
106
39 1/2
39 1/2
3/8" PLEXIGLAS IN/OUT
26 3/4
8" DEEP
8" DEEP
7 1/4
10 1/4
(4) Glove Storage
14 3/4
2ND SWITCH PANEL
2" LIP
FIBERGLASS
WISE EDGING
14 1/2"Wx14"Dx4"T DRAWER FACING REARWARDS
43" MIN.
16 1/2
SEAMLESS CUSHION
(6) OUTLET POWER STRIP
73 3/4
46 1/2
12" GRAB (YELLOW)
14 1/4
39 7/8
"OPEN"
SEAMLESS CUSHION
SEAMLESS CUSHION
YELLOW
"OPEN"
15 1/2
"SPLIT-LID" SQUAD BENCH
17
SMOOTH ALUMINUM W/ RED/YELLOW CHEVRONS & OSAGE LOGO
33
WHELEN 500 (RED) LED WISE EDGING
35 1/2
76
24
135 1/2
3" EAR
FLIP-UP PLEXIGLAS LIDS TO SHARPS & WASTE
SHARPS & WASTE ACCESS
2-PT. BELT PLATES IN WALL FOR FUTURE 6-PT. HARNESS


HANSCOM CAMERA
ANGLED CABINET HINGED PLEXIGLAS
10 1/4
8 3/4 O.D.
12:00
73 3/4
"LEFTWALL"
YELLOW
YELLOW
27 COMPARTMENT
21
49 3/4
21
91 3/4
WHELEN 500 (RED) LED
SMOOTH ALUMINUM W/ CHEVRONS

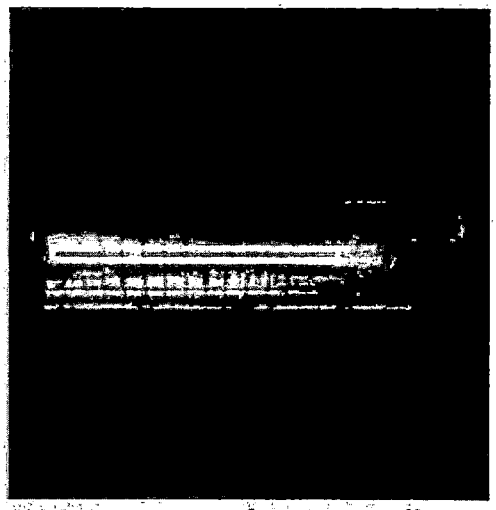

170 1/4
40 1/4
33
70 1/2
26 1/2
24 3/4
24
24
36
(1PR) REAR SPEAKERS
"REARWARD ENTRY"
THIS ROW WIRED AS CHECK-OUTS
91 3/4
S.S. GRAB RAIL (YELLOW)
(9) WHELEN ROUND LED DOME LIGHTS
"RIGHTWALL"
"CURBSIDE ENTRY"


170 1/4
43 1/4
27
73 1/2
26 1/2
21
SEAMLESS CUSHION
36 1/2
"PATIENT ENTRY"
49 3/4
91 3/4
STRYKER UNIVERSAL FLOOR PLATE.
2ND STEP
SEAMLESS CUSHION
SEAMLESS CUSHION
21
24
76
35 1/2
FLIP-UP PLEXIGLAS LIDS TO SHARPS & WASTE
"CURBSIDE ENTRY"

EvergreenUV
Environmental Disinfection

ADU-136-PB
UV-C Air & Surface Disinfection Lamp

Advanced High Level Disinfection for EMS - Protects Crews & Patients



A NAEMT survey of 1,356 Medics published in EMS World reported that 50% have been exposed to an infectious disease and 21% have contracted an illness from a patient.

Kills CoVid-19 Coronavirus to 99.9999% in Under 2 Minutes

The ADU-136 has powerful high UV-C germicidal output and can be recess or surface mounted and kills CoVid-19 Coronavirus in just seconds.

Kills CoVid-19, C.diff, MRSA and all known bacteria, virus, mold, protozoa and yeast.

The ADU-136 Delivers Safe Rapid Disinfection:

UV-C is a natural disinfectant and requires NO dissipation time.

No chemicals, ozone, aerosols, vapors, toxins or out-gassing.

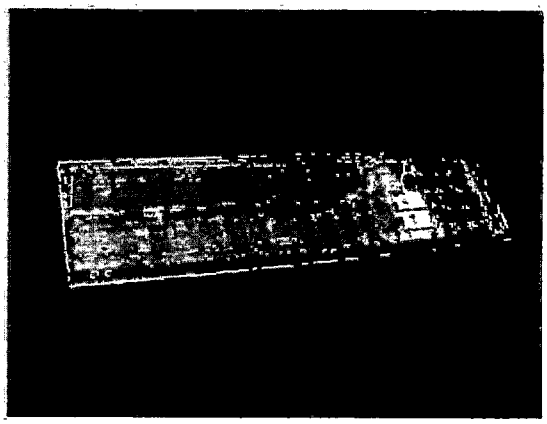
Meets the Required EPA Code and Made in the USA.

Distributed by: EA Medical, LLC • 800-339-9393 • uvc@eamed.com
www.eamed.com • 10541 State Highway 81 • Canton, MO 63435

EvergreenUV
Environmental Disinfection

ADU-136-PB
UV-C Air & Surface Disinfection Lamp

Advanced High Level Disinfection for EMS - Protects Crews & Patients



ADU-136-PB Features and Specifications:

- **Can be factory installed in new ambulances and in remounts.** Recess or surface mounting options.
- Rugged Stainless Steel and Aluminum construction with Welded-Wire protective cage over bulb.
- **Mirror aluminum specular reflectors for increased UV efficiency.**
- **9000 hour lamp life.** Philips Germicidal Sterilamp® twin-tube bulb for reliable lamp availability and cost efficient replacement, TUV 36W, has no more than 4.5 mg mercury.
- ADU-136 features one (1) 36W Philips Chill-Corrected Germicidal UV Lamp providing 30 linear inches of UV-C tubing for maximum UV-C power and time efficiency.
- **All new digital front facing push button control box with built-in delayed-start timer** can be mounted in the crew cab or back of ambulance, or in a closed panel box outside the ambulance.
- **Rated UV-C energy output 145 µW/cm² per second; 8,700 µW/cm² per minute @1 meter.**
- 120V AC 60 Hz operation through on-board power inverter or land-line access. Nominal electrical output 36 watts. Draws .78 amps @ 120 volts ac.
- Dimensions: Light fixture 20-3/8" (length) x 5-1/4" (width) x 2-1/2" (depth)
  Control box 7" (width) x 5" (height) x 3" (depth)
- **Made in the USA by Evergreen UV LLC, EPA Establishment No.91347-TN-001.** (Lumalier by Evergreen UV LLC)
- Warranty - Ballast has a 5 year non-prorated warranty. Lamp has a 1 year warranty against manufacturing defects.

This UV-C disinfection lamp is designed for use in UNOCCUPIED spaces.
UV-C can cause temporary damage and discomfort to unprotected skin and eyes.

ADU-136-PB (rev.061720). Specifications subject to change without notice.

Distributed by: EA Medical, LLC • 800-339-9393 • uvc@eamed.com
www.eamed.com • 10541 State Highway 81 • Canton, MO 63435

KANSAS

Department of Revenue
Division of Vehicles

THIS IS TO CERTIFY THAT

BRAUN NORTHWEST INC

150 NORTH STAR DR
CHEHALIS WASHINGTON 98532

IS LICENSED AS A

2021 1ST/2ND STAGE MFG.

DEALER NUMBER D-5884

License remains valid through December 31, 2021

David N Harper
David N. Harper
Director of Vehicles

Mark A. Burghart
Mark A. Burghart
Secretary of Revenue

ZIBELL BUILDING, 300 SW 29TH STREET, TOPEKA, KS 66611
VOICE 785-296-3621 FAX 785-296-5854
http://www.ksrevenue.org

KANSAS

Department of Revenue
Division of Vehicles

THIS IS TO CERTIFY THAT

BRAUN NORTHWEST INC

405 N CLEVELAND
WICHITA KANSAS 67214

IS LICENSED AS A

2021 NEW/USED VEHICLE DEALER

DEALER NUMBER D-5905

License remains valid through December 31, 2021

David N. Harper
Director of Vehicles

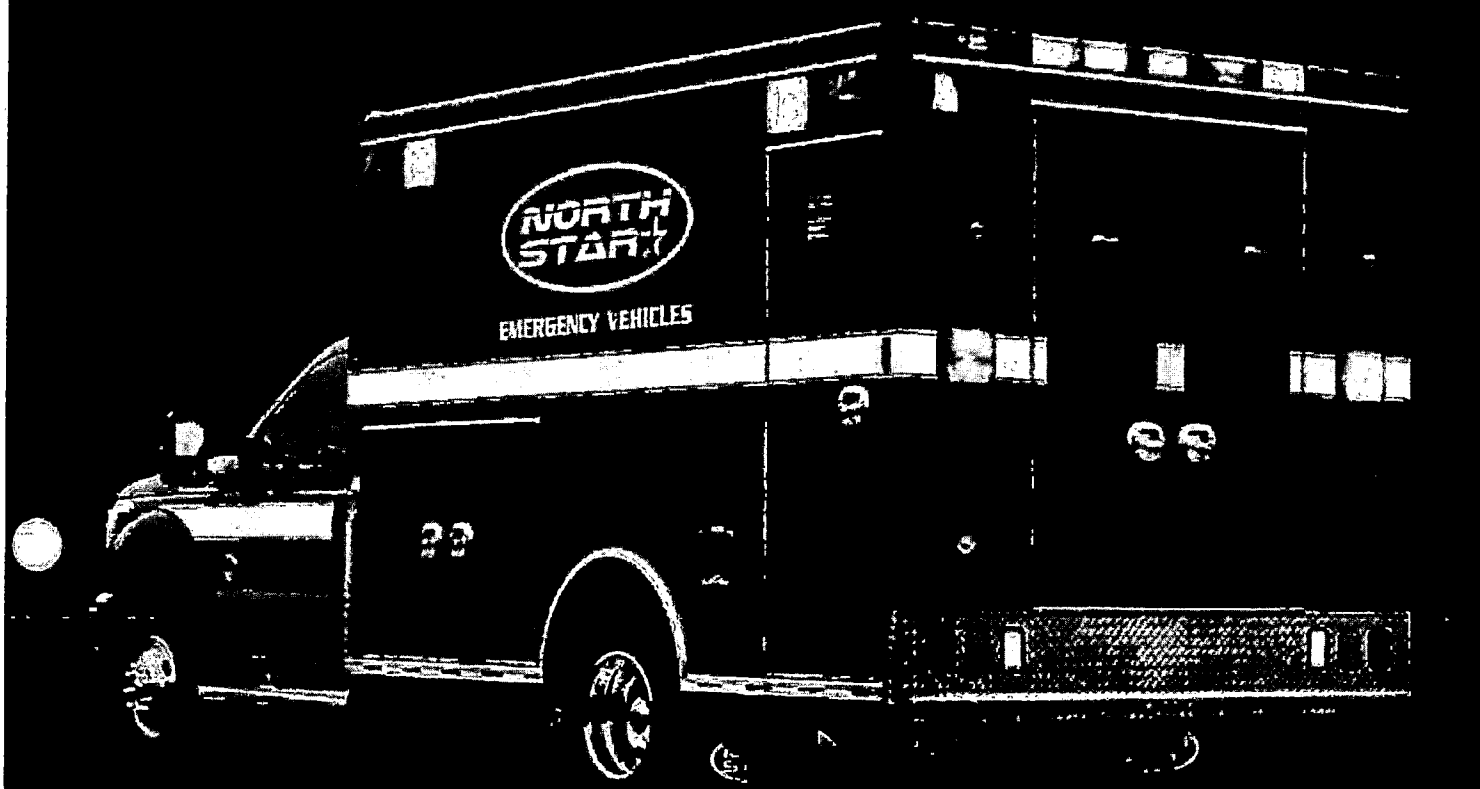
Mark A. Burghart
Secretary of Revenue

ZIBELL BUILDING, 300 SW 29TH STREET, TOPEKA, KS 66611
VOICE 785-296-3621 FAX 785-296-5854
http://www.ksrevenue.org

specialty emergency vehicles

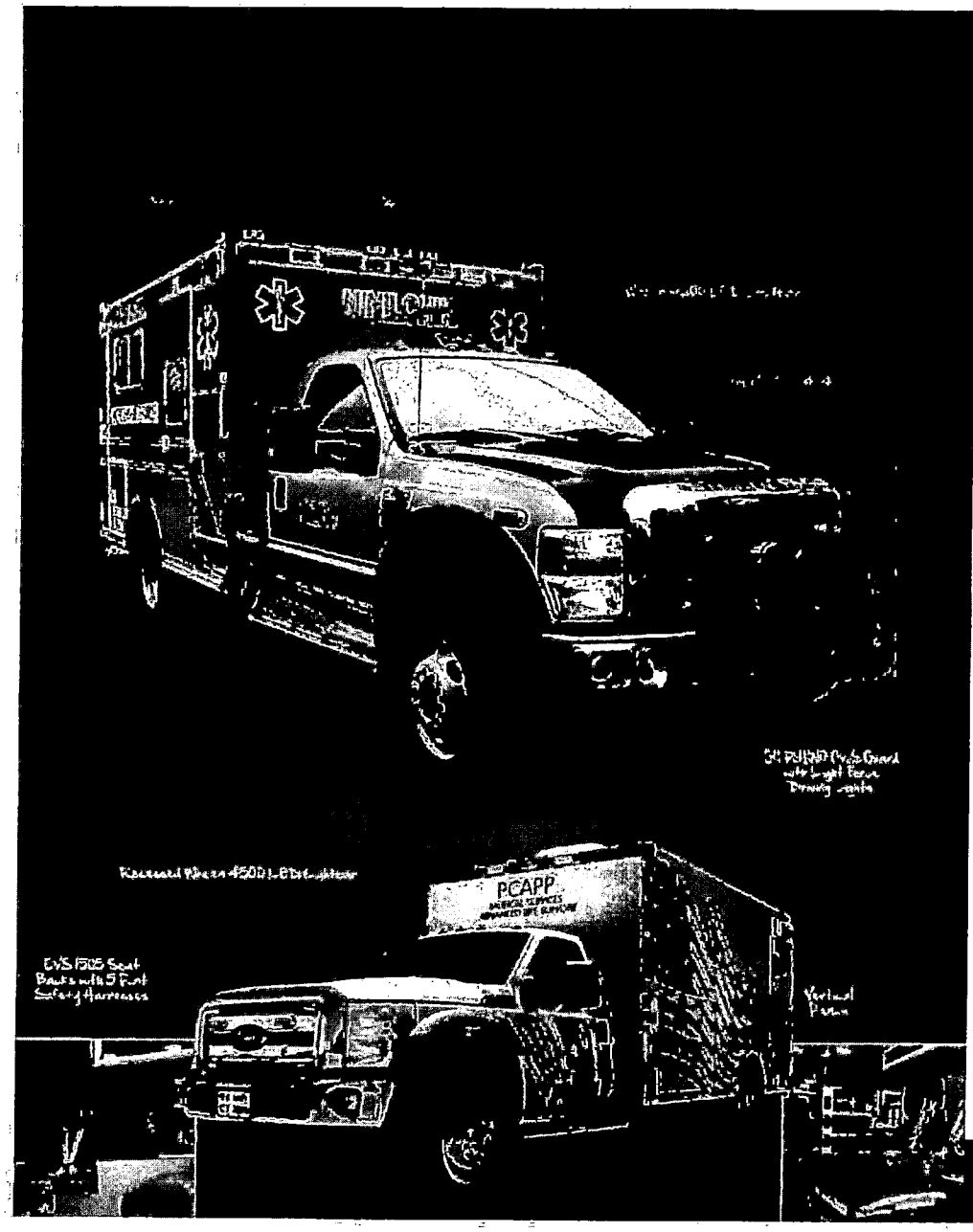
BRAUN NW inc.

A sense of duty to our customers–and the public they serve



NORTH STAR

www.braunnw.com

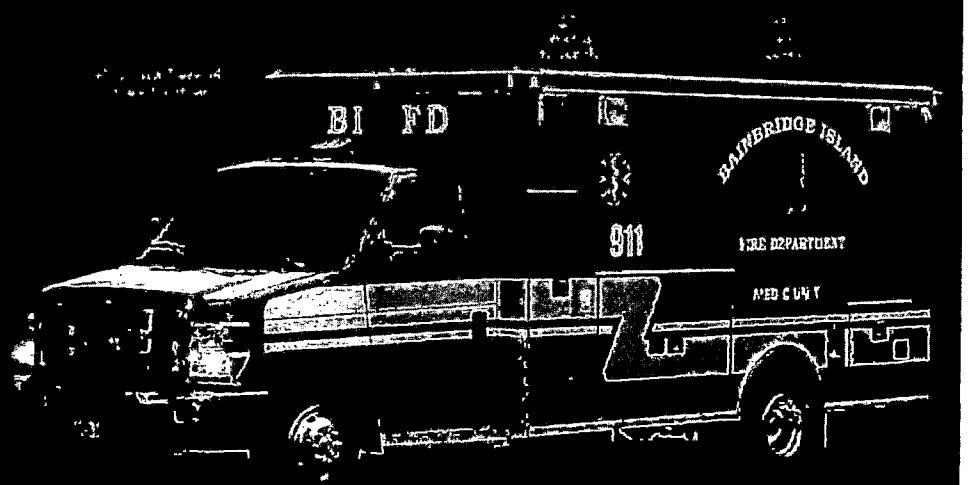


STEP 1

Why Braun Northwest?

Your profession demands a well-engineered, rugged emergency vehicle that can withstand the most extreme day-to-day use. Braun Northwest was founded over 27 years ago to design and manufacture just that.

We work with you to meet your precise vehicle needs and budget. Our products are continuously improved based on user feedback to ensure they best meet the demands of your profession.



STEP 2

Highest Quality, Lowest Cost of Ownership

Each of our specialty emergency vehicles is built to your exact specifications when you order it. Choose from our complete line, including Type I, II and III ambulances, intensive care, rescues, haz-mat, command, mobile, SWAT and prisoner transport vehicles.

Low cost of ownership

Your initial investment pays for itself again and again when we replace the chassis and return your vehicle to its original readiness and shine. Braun Northwest leads the industry in remounts, saving customers an average of 30% compared to purchasing a new vehicle.

Our first remount was in 2005. Braun Northwest took the module off the old chassis and extended it 20 inches before painting it and mounting it on a new, larger chassis. The body and paintwork are first rate. You can't even tell where the original box ended. The whole thing looks brand new! The best part, is we saved about $75,000 compared to purchasing a whole new vehicle.

When the running gear wore out on two other units in 2008, we knew what to do. We saved about $100,000 each by remounting instead of buying new. A fourth remount completed in 2010 resulted in similar savings.

Everybody at Braun Northwest treated us well. Each time we needed a remount, a sales representative came to our location. He sat in the module with a checklist noting any items that needed replacing or repairing. The end result was always a great vehicle built exactly how we wanted.

*- **Thom Ritter**, [Master EVT Bainbridge Island Fire Dept]*

STEP 3

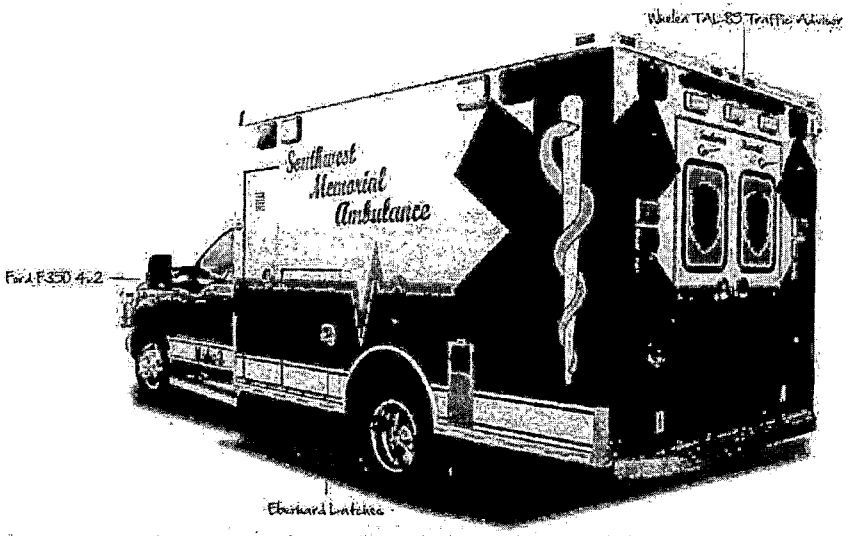
Personalized Service From Start to Finish

From kicking our tires to designing and building your own specialty vehicle, you'll always have an individual you can call on at any time during the process. We'll come to you during the design phase. Once the order is placed, you'll receive a dedicated Project Coordinator to guide you through the build process. After you've taken possession, and for years after, you can rely on our expert service department for parts and service.

All vehicles are manufactured right here in our Chehalis, Washington factory. Not only can you buy directly from Braun Northwest, with no need for dealers, you can also count on us for repairs, painting, electrical work, remounting and other maintenance.

I've been in the EMS Field for 29 years and have been involved in buying many ambulances. I can say with all my heart that the quality & service at Braun Northwest beats anyone out there today. We have put our vehicles to the test and they prove to be better for our needs than any other ambulance built out there today.

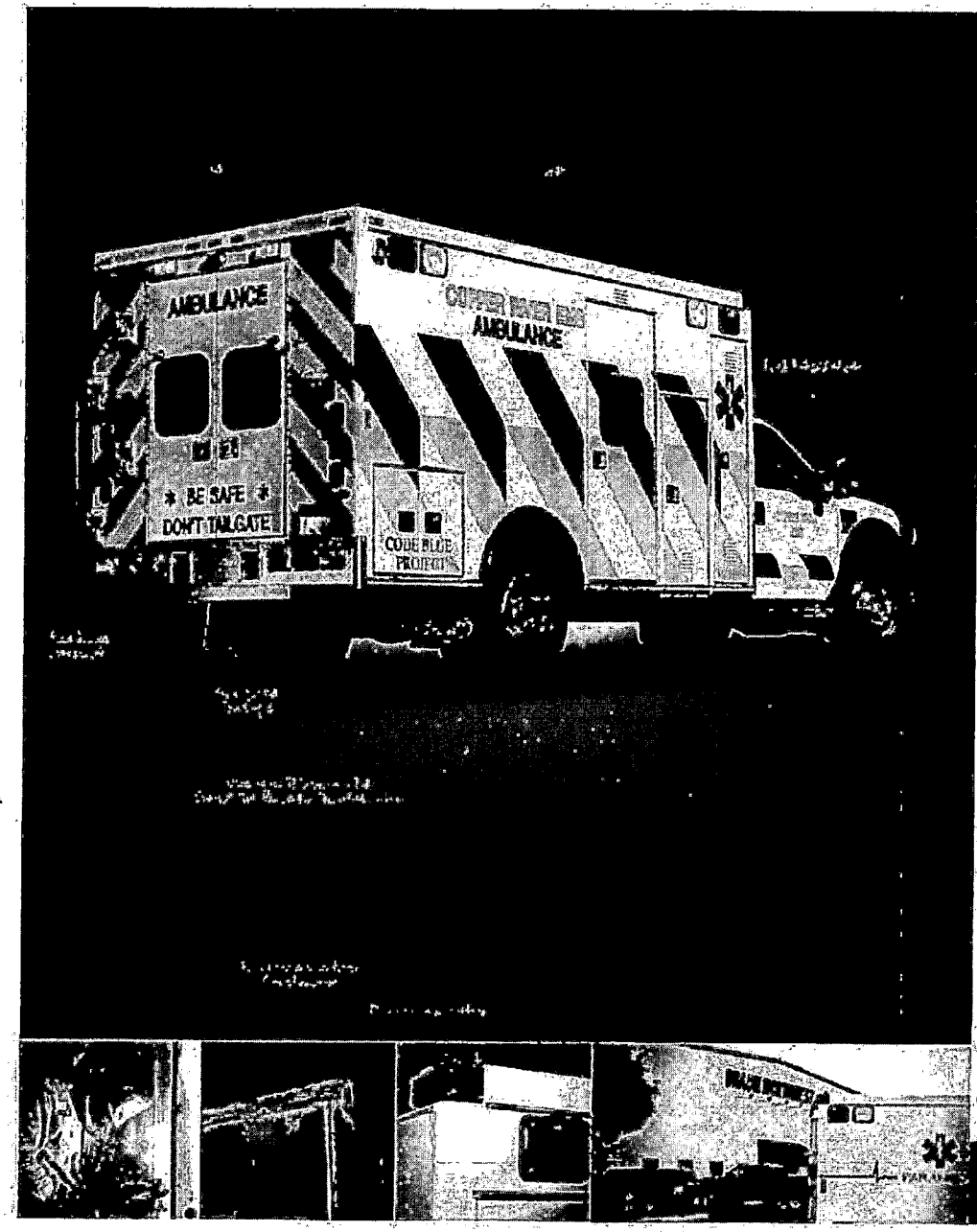
- Scott Anderson
(EMS Supervisor)



STEP 5

Our Door is Always Open

You are encouraged to visit our factory as you develop the specifications for your vehicle. This will give you a firsthand understanding of the manufacturing process and our operations. You can also watch your vehicle progress at braunnw.com, where we'll post photos, videos and updates as your project takes shape.

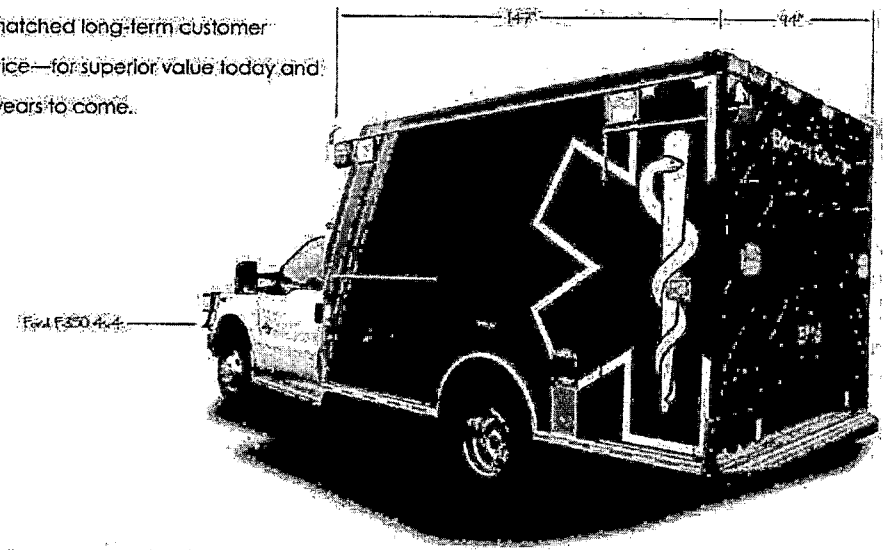


STEP 6

Commitment to **Excellence**

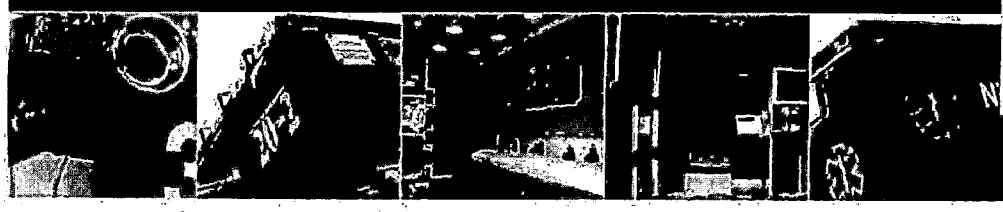
From our small beginning in a rented building to our current 128,000-square-foot facility, our commitment to our customers has not changed in over 27 years. We're here to serve you as you make a purchasing decision, design and build your vehicle, and for years after delivery.

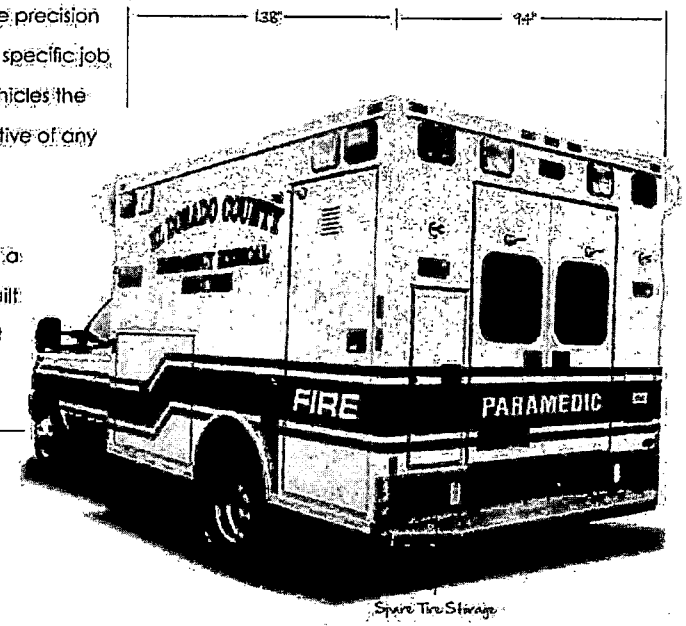
Count on the Braun Northwest team for the highest quality vehicle and unmatched long-term customer service—for superior value today and for years to come.



At Braun Northwest, we understand that a dependable emergency vehicle is critical to the life-saving work of professional responders. With that in mind, our primary manufacturing focus is quality—functional interiors and durable, distinctive exteriors. We custom build each of our vehicles to exactly match your individual specifications—providing the precision that perfectly matches your specific job function. You will find our vehicles the most advanced and innovative of any first responders available.

To learn more about adding a Braun Northwest purpose-built vehicle to your fleet, contact us at 800.245.6303.





BRAUN NW inc.

150 North Star Drive / PO Box 1204 / Chehalis, WA 98532 / 360.748.0195 / 800.245.6303 / fax 360.748.0256

WHY BRAUN NORTHWEST?

Your profession demands a well-engineered, rugged emergency vehicle that can withstand the most extreme day-to-day use. Braun Northwest was founded over 33 years ago to design and manufacture just that.

Since our founding, we've worked closely with customers to meet their unique vehicle needs and budget. This philosophy of partnership results not only in vehicles that meet your precise requirements but also in the continuous improvement of our products to best meet the rigors of your profession.

Highest Quality, Lowest Cost of Ownership
Each of our specialty emergency vehicles is custom built to your exact specifications when you order it. Choose from our complete line, including Type I, II, and III ambulances, Rescues, Haz-Mat, Command, Mobile Intensive Care, S.W.A.T., and Prisoner Transport vehicles.

Your initial investment can pay for itself again and again when we replace the chassis and return your vehicle to its original readiness and shine. Braun Northwest leads the industry in remounts, saving customers an average of 30% compared to purchasing a new vehicle. The ability to remount a vehicle multiple times results in a low overall cost of ownership.

Personalized Service from Start to Finish
From kicking our tires to designing and building your own specialty vehicle, you'll always have an individual you can call on at any time during the process. We'll come to you during the design phase. Once manufacturing begins, you'll receive a dedicated Project Coordinator to guide you through the build process. After you've taken possession, and for years after, you can rely on our expert service department for parts and service.

Single Source
All vehicles are made right here in our Chehalis, Washington, factory. Not only can you buy directly from Braun Northwest, with no need for dealers, you can also count on us for repairs, painting, electrical work, remounting, and other maintenance.

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Commitment to Excellence
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Count on the Braun Northwest team for the highest quality vehicle and unmatched long-term customer service—for superior value today and for years to come.

NORTH STAR
EMERGENCY VEHICLES

Structural and Non-Structural Specific Limited Warranty

Your North Star emergency vehicle is warranted to be free of defects in both material and workmanship and will remain so under normal use and service with regular maintenance for the time and mileage limits outlined below. Once you submit a warranty claim in writing, Braun Northwest will determine the best method to facilitate the repair.

This warranty applies only to parts and equipment provided by Braun Northwest. For warranty issues regarding the chassis or special options, consult the original equipment manufacturer's warranty.

Lifetime warranty
The lifetime warranty covers the following items:

1. Modular body
2. All exterior doors
3. All interior aluminum cabinets

7 years or 75,000 miles (whichever comes first) limited electrical warranty
This warranty covers the following electrical components:

1. Workmanship
2. Harnesses
3. Connectors

2 years or 30,000 miles (whichever comes first) conversion warranty
All other items and installation of accessory equipment are warranted free of defects in material and workmanship for two years from the date of manufacture (found on the Final Stage Manufacturer's Certification sticker) or 30,000 miles, whichever comes first.

5- year paint warranty
Paint will not delaminate, peel, or discolor for a period of five years. NOTE: Damage as a result of chemical de-icing agents, abrasive polishes and cleaning agents, heavy-duty pressure washing, abuse, accidents, acid rain, corrosion, rust, or acts of nature are NOT covered under this warranty.

Actions to Void Warranty
Any one of the following actions will void your Braun Northwest warranty:

1. Remounting/repair by anyone other than Braun Northwest or its authorized remount/repair facility
2. Overloading beyond applicable weight and/or electrical rating
3. Use of modular body for any purpose other than that for which it was originally designed and built

Transfer of Ownership
The warranty may be transferred to subsequent owner(s) provided that the new owner, within 60 days of transfer of ownership, has the vehicle inspected by Braun Northwest or an authorized distributor and completes and files warranty revalidation forms available from Braun Northwest. This process must be completed for each transfer. A warranty transfer charge of $500 must accompany each warranty revalidation request. All conditions of this warranty apply.

Exclusions and Limitations: This warranty is provided in place of any implied warranty of merchantability and any implied warranty of fitness, which are hereby excluded. Your right to repair or replacement of defective parts on the terms expressly set forth herein is your exclusive remedy, and neither Braun Northwest nor any of its distributors will be liable for any damages, whether ordinary, incidental or consequential under this warranty. Any remedy of consequential damages, including economic loss, and any remedy of incidental damages are hereby excluded. Purchaser's non-compliance with any part of this specific limited warranty will immediately render the total warranty null and void and nonenforceable.

Specific Legal Rights: This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.
Name:

BRAUN NW inc.
150 North Star Drive / PO Box 1204 / Chehalis, WA 98532 / 360.748.0195 / 800.245.6303 / fax 360.748.0256

Remount Specific Limited Warranty

Your Braun Northwest remount is warranted to be free of defects in both material and workmanship and will remain so under normal use and service with regular maintenance for the time and mileage limits outlined below. Once you submit a warranty claim in writing, Braun Northwest will determine the best method to facilitate the repair.

This warranty applies only to parts and equipment provided by Braun Northwest. For warranty issues regarding the chassis or special options, consult the original equipment manufacturer's warranty.

1 year or 24,000 miles (whichever comes first) limited electrical warranty
The warranty covers the following items, **if installed new at the time of your remount:**

1. Switches, circuit breakers, relays, and harnesses
2. Solenoids for battery, accessory, and module disconnect

The above materials and labor are warranted for one year from the date of remount (as noted on the Final Stage Manufacturer's Certification sticker) or 24,000 miles, whichever comes first.

Conversion Warranty
All other items and accessory equipment supplied by and installed by Braun Northwest at the time of the remount shall be warranted to be free of defects for one year from the date of the remount (as noted on the Final Stage Manufacturer's Certification sticker) or 24,000 miles, whichever comes first.

Actions to Void Warranty
Any one of the following actions will void your Braun Northwest warranty:

1. Remounting/repair by anyone other than Braun Northwest or its authorized remount/repair facility
2. Overloading beyond applicable weight and/or electrical rating
3. Use of modular body for any purpose other than that for which it was originally and specifically designed and built.

Exclusions and Limitations
This warranty is provided in place of any implied warranty of merchantability and any implied warranty of fitness, which are hereby excluded. Your right to repair or replacement of defective parts on the terms expressly set forth herein is your exclusive remedy, and neither Braun Northwest nor any of its distributors will be liable for any damages, whether ordinary, incidental or consequential under this warranty. Any remedy of consequential damages, including economic loss, and any remedy of incidental damages are hereby excluded. Purchaser's non-compliance with any part of this specific limited warranty will immediately render the total warranty null and void and nonenforceable.

Specific Legal Rights
This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Our Green Story
Braun Northwest has embraced the simple principles of reduce, reuse, recycle since our inception in 1986. Here's why you can feel good about your vehicle and the eco-conscious processes that created it.

Your Vehicle
Braun Northwest designs and custom builds vehicles to last, so our customers need to replace them less frequently. This standard of quality minimizes sourcing of raw materials as well as the CO_2 emissions associated with running our production facility.

Your module is so well built it will outlast several chassis. Rather than constructing an entirely new vehicle, you can remount your existing module on a new chassis two or even three times. Remounts reduce environmental impact and save you money, generally costing about 30% less than purchasing a new vehicle.

Eventually, after years of reliable performance, your module will need to be retired. Fortunately, when that time comes, 90% of the materials in it can be recycled.

Our Facility
Braun Northwest continuously identifies eco-conscious ways to operate. Our goal is to protect the environment through economically sustainable practices.

Recently, we upgraded all lighting in our facility to high-efficiency florescent fixtures operated by occupancy sensors. This initiative reduced our lighting energy consumption by 75%. We also streamlined our ventilation system to reduce its energy consumption by 25%. A more efficient compressed air system reduced our 65-amp compressor's run time from nine hours a day to just 45 minutes each day.

In addition to using low VOC paint, Braun Northwest maintains paint booths that capture 98% of chemicals that would otherwise be released into the atmosphere. This meets the highest standard set by the EPA.

We continue to refine our waste stream management to recycle as many materials as possible, including cardboard, steel, stainless steel, copper wire, and aluminum—totaling more than 250,000 pounds annually.

To be good stewards of the land around us, we manage water retention and distribution on our property and adjacent properties. Our use of an industrial sweeper dramatically reduces the amount of debris from our parking lot going into our storm drains. Filters in the drains capture remaining sediment and oil to prevent harming our surrounding ecosystems.

Passing the Savings on to You
Braun Northwest will continue to annually evaluate efficiencies and implement environmentally friendly practices that are economically sustainable. Our green practices not only protect the environment, they help us keep costs down and pass the savings on to you.

BUSINESS LICENSE

STATE OF
WASHINGTON
Profit Corporation

Issue Date: Aug 21, 2020
Unified Business ID #: 600637270
Business ID #: 001
Location: 0001
Expires: Aug 31, 2021

BRAUN NORTHWEST, INC.
150 NORTHSTAR RD
CHEHALIS, WA 98532-8799

UNEMPLOYMENT INSURANCE - ACTIVE
MINOR WORK PERMIT - ACTIVE
MOTOR VEHICLE DEALER #00991 - ACTIVE
VEHICLE TRANSPORTER #08880 - ACTIVE
INDUSTRIAL INSURANCE - ACTIVE
TAX REGISTRATION - ACTIVE
VEHICLE MANUFACTURER #08553 - ACTIVE

CITY ENDORSEMENTS:
SPOKANE GENERAL BUSINESS - NON-RESIDENT #T12029741BUS - ACTIVE

DUTIES OF MINORS:
Ages 16-17: Clerical work, empty trash, sweep floors, wash windows. *MINOR MAY NOT WORK AT HEIGHTS GREATER THAN 10 FT OFF THE GROUND OR FLOOR LEVEL.*

LICENSING RESTRICTIONS:
It is the business's responsibility to comply with minor work permit requirements. See WAC 296-125-030 and WAC 296-125-033 for Non-Agricultural and WAC 296-131-125 for Agricultural guidelines and restricted activities.

Occupations involving exposure to substances which are carcinogenic, corrosive, highly toxic, toxic sensitizers, or that cause reproductive health effects is prohibited for minors under 18. WAC 296-125-030(25)

This document lists the registrations, endorsements, and licenses authorized for the business named above. By accepting this document, the licensee certifies the information on the application was complete, true, and accurate to the best of his or her knowledge, and that business will be conducted in compliance with all applicable Washington state, county, and city regulations.

Vicki Smith
Director, Department of Revenue

STATE OF WASHINGTON

UBI: 600637270 001 0001

Expires: Aug 31, 2021

BRAUN NORTHWEST, INC.
150 NORTHSTAR RD
CHEHALIS, WA 98532-8799

UNEMPLOYMENT INSURANCE - ACTIVE
INDUSTRIAL INSURANCE - ACTIVE
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VEHICLE TRANSPORTER #08880 - ACTIVE
SPOKANE GENERAL BUSINESS - NON-RESIDENT #T12029741BUS - ACTIVE

Vicki Smith
Director, Department of Revenue

gal.0002

DETACH THIS SECTION FOR YOUR WALLET

BUSINESS LICENSE

STATE OF
WASHINGTON
Profit Corporation

Issue Date: Aug 21, 2020
Unified Business ID #: 600637270
Business ID #: 001
Location: 0002
Expires: Aug 31, 2021

BRAUN NORTHWEST, INC.
NORTH STAR EMERGENCY VEHICLES
150 NORTHSTAR RD
CHEHALIS, WA 98532-8799

TAX REGISTRATION - ACTIVE

MOTOR VEHICLE DEALER SUBAGENCY #00991 - ACTIVE

CITY ENDORSEMENTS:
BELLINGHAM GENERAL BUSINESS #018183 - ACTIVE

REGISTERED TRADE NAMES:
NORTH STAR EMERGENCY VEHICLES

This document lists the registrations, endorsements, and licenses authorized for the business named above. By accepting this document, the licensee certifies the information on the application was complete, true, and accurate to the best of his or her knowledge, and that business will be conducted in compliance with all applicable Washington state, county, and city regulations.

Vicki Smith
Director, Department of Revenue

STATE OF WASHINGTON

UBI: 600637270 001 0002

BRAUN NORTHWEST, INC.
NORTH STAR EMERGENCY VEHICLES
150 NORTHSTAR RD
CHEHALIS, WA 98532-8799

TAX REGISTRATION - ACTIVE
MOTOR VEHICLE DEALER SUBAGENCY #00991 - ACTIVE
BELLINGHAM GENERAL BUSINESS #018183 - ACTIVE

Expires: Aug 31, 2021

Vicki Smith
Director, Department of Revenue

gal0002

DETACH THIS SECTION FOR YOUR WALLET

BUSINESS LICENSE

STATE OF WASHINGTON
Profit Corporation

Issue Date: Aug 21, 2020
Unified Business ID #: 600637270
Business ID #: 001
Location: 0003
Expires: Aug 31, 2021

BRAUN NORTHWEST, INC.
NORTH STAR
150 NORTH STAR DR
CHEHALIS, WA 98532-8799

TAX REGISTRATION - ACTIVE

MOTOR VEHICLE DEALER SUBAGENCY #00991 - ACTIVE

CITY ENDORSEMENTS:
BAINBRIDGE ISLAND GENERAL BUSINESS #42379 - ACTIVE

This document lists the registrations, endorsements, and licenses authorized for the business named above. By accepting this document, the licensee certifies the information on the application was complete, true, and accurate to the best of his or her knowledge, and that business will be conducted in compliance with all applicable Washington state, county, and city regulations.

Vicki Smith
Director, Department of Revenue

STATE OF WASHINGTON

UBI: 600637270 001 0003

BRAUN NORTHWEST, INC.
NORTH STAR
150 NORTH STAR DR
CHEHALIS, WA 98532-8799

FOLD HERE

TAX REGISTRATION - ACTIVE
MOTOR VEHICLE DEALER
SUBAGENCY #00991 - ACTIVE
BAINBRIDGE ISLAND GENERAL
BUSINESS #42379 - ACTIVE

FOLD HERE

Expires: Aug 31, 2021

Vicki Smith
Director, Department of Revenue

gaL0002

DETACH THIS SECTION FOR YOUR WALLET

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 03/31/2020

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Insurance Partners, LLC PO Box 699 Lake Oswego OR 97034-0066	CONTACT NAME: Sharon Cresalla, ARM PHONE (A/C, No, Ext): (503) 210-2300 FAX (A/C, No): (503) 210-2323 E-MAIL ADDRESS: scresalla@insurancepartners.biz
INSURED Braun Northwest, Inc. P. O. Box 1204 Chehalis WA 98532	INSURER(S) AFFORDING COVERAGE — NAIC # INSURER A: Charter Oak Fire Ins Co — 25615 INSURER B: Travelers Indemnity (IND) — 25658 INSURER C: Travelers Property Casualty Ins Co — 36161 INSURER D: INSURER E: INSURER F:

COVERAGES **CERTIFICATE NUMBER:** 2020-21 Master **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☒ OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: ☒ POLICY ☐ PRO-JECT ☐ LOC OTHER:			6307K712297	03/31/2020	03/31/2021	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG WA Stop Gap	$ 1,000,000 $ 300,000 $ 5,000 $ 1,000,000 $ 2,000,000 $ 2,000,000 $ 1,000,000
B	AUTOMOBILE LIABILITY ☒ ANY AUTO ☐ OWNED AUTOS ONLY ☐ SCHEDULED AUTOS ☐ HIRED AUTOS ONLY ☐ NON-OWNED AUTOS ONLY ☒ GARAGE			AD7K718020	03/31/2020	03/31/2021	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 1,000,000 $ $ $
C	☒ UMBRELLA LIAB ☒ OCCUR ☐ EXCESS LIAB ☐ CLAIMS-MADE ☐ DED ☒ RETENTION $ 0			CUP7K743587	03/31/2020	03/31/2021	EACH OCCURRENCE AGGREGATE	$ 15,000,000 $ 15,000,000 $
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y/N ☐ If yes, describe under DESCRIPTION OF OPERATIONS below	N/A		UB7K741686	03/31/2020	03/31/2021	☒ PER STATUTE ☐ OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ 1,000,000 $ 1,000,000 $ 1,000,000
B	Garage & Dealers Comp & Coll Deductibles			AD7K718020	03/31/2020	03/31/2021	Limit	$500,000 $1,000/$1,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

EVIDENCE OF COVERAGE.

CERTIFICATE HOLDER

Braun Northwest, Inc.
PO BOX 1204
Chehalis WA 98532

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Greg L. Horner

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Ford Motor Company

Is proud to recognize

Braun Northwest, Inc.

as a participant in the

Ambulance

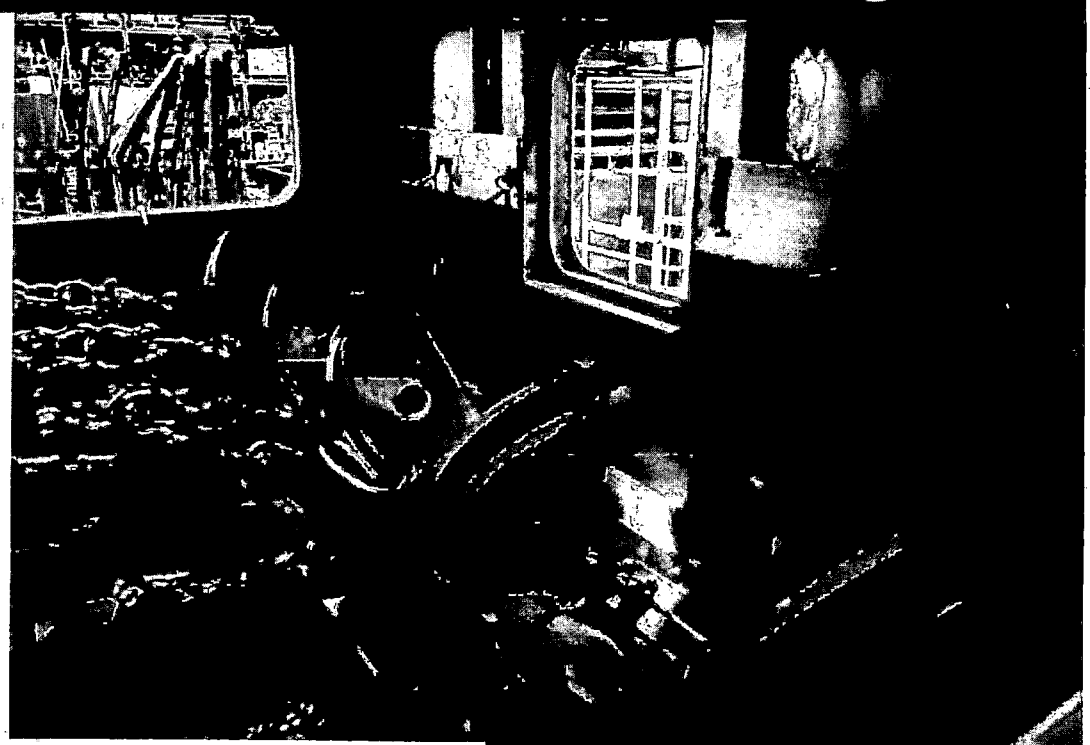
Qualified Vehicle Modifier Program

QVM QUALIFIED VEHICLE MODIFIER

Randy M. Freiburger -SVE Quality Programs Mgr.

October, 2020

Braun Northwest Testing



Braun Northwest

8/8/2019

From the time NIOSH began the first crash testing of ambulances, Braun Northwest has been involved in the process of setting the ambulance crash test parameters and developing the SAE recommended practices that contain the crash-test-related testing protocol for ambulances.

Rather than having ambulance manufacturers conduct independent crash testing based upon arbitrary test scenarios, it is much more meaningful to test to standards that have been validated and accepted in the industry.

The static and dynamic testing requirements incorporated in the ambulance-specific SAE recommended practices are the culmination of six years of coordinated industry effort to use actual crash test data to develop test standards that accurately replicate forces encountered in actual crashes. Those recommended practices are now incorporated into all three of the national ambulance standards: GSA KKK-A-1822F, NFPA 1917, and CAAS GVS V2.0.

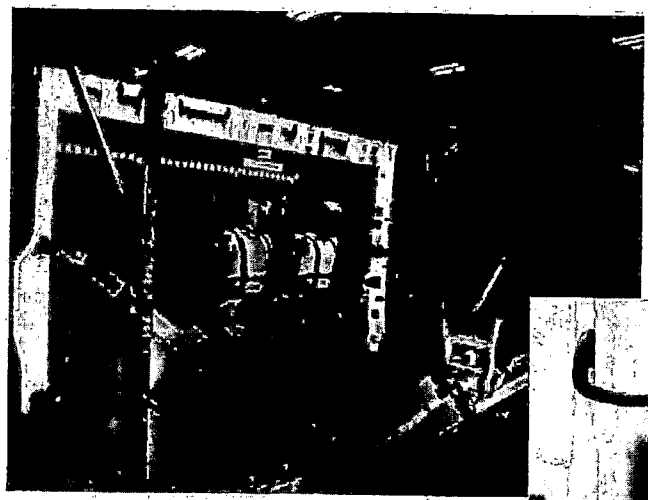
To provide best customer safety and value, Braun Northwest has not only supported but also actively participated in industry efforts to standardize dynamic and static test requirements.

- Braun Northwest has been a participant and leader in the Ambulance Manufacturer's Division (AMD) of the National Truck Equipment Association (NTEA) for more than 20 years. In this capacity we work to positively shape the standards used throughout the industry for ambulance construction.
- As a member of the AMD Technical Committee,
    - We worked with the National Institute of Occupational Safety and Health (NIOSH) to draft and refine the SAE recommended practices now referenced by all three national ambulance standards.
    - We have worked with the General Services Administration (GSA) of the federal government to refine and update the GSA ambulance standard, KKK-A-1822F.
    - We work with AMD to refine and update the AMD Standardized Test Methods.
- Braun Northwest holds a seat on the technical committee responsible for writing and revising the NFPA 1917 Standard for Automotive Ambulances. In that capacity, we have become intimately familiar with the standard and the rationale behind its requirements.
- Braun Northwest was an active participant in the revision process for CAAS GVS V2.0.

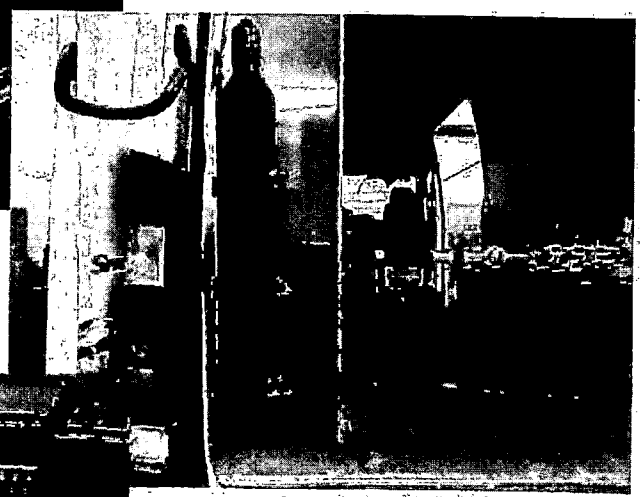
At Braun Northwest, testing never stops. In addition to testing to the applicable FMVSS and AMD test methods we have successfully tested to the following SAE recommended practices:

- SAE J3026 Occupant Restraint
- SAE J3043 Equipment Mounts
- SAE J3057 Body Structure Test
- SAE J3058 Interior Storage Compartment Integrity
- SAE J3059 Occupant Excursion
- SAE J3102 Floor Structure/Cot Retention

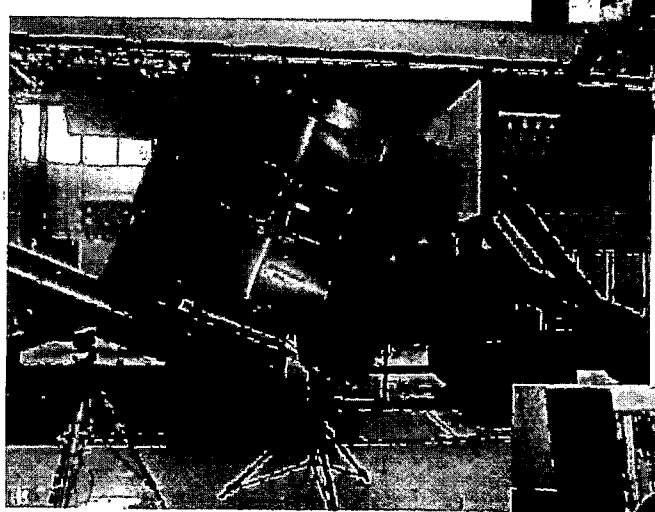
Contact your Braun Northwest sales representative to visit the manufacturing facility and learn more about how Braun's North Star emergency vehicles are built with quality from the ground up!



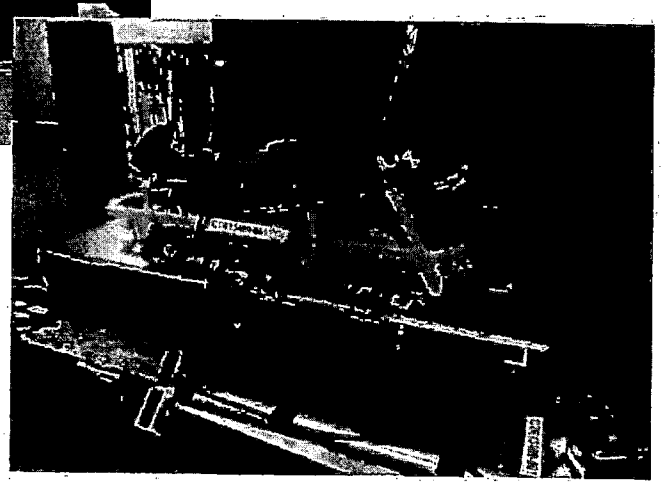
SAE J3026 Test



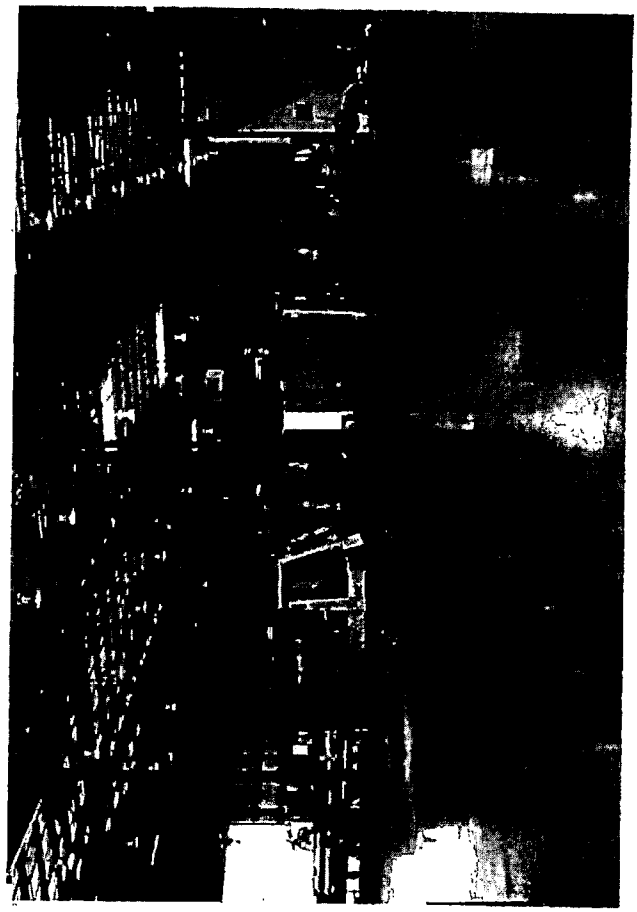
SAE J3043 Static Test

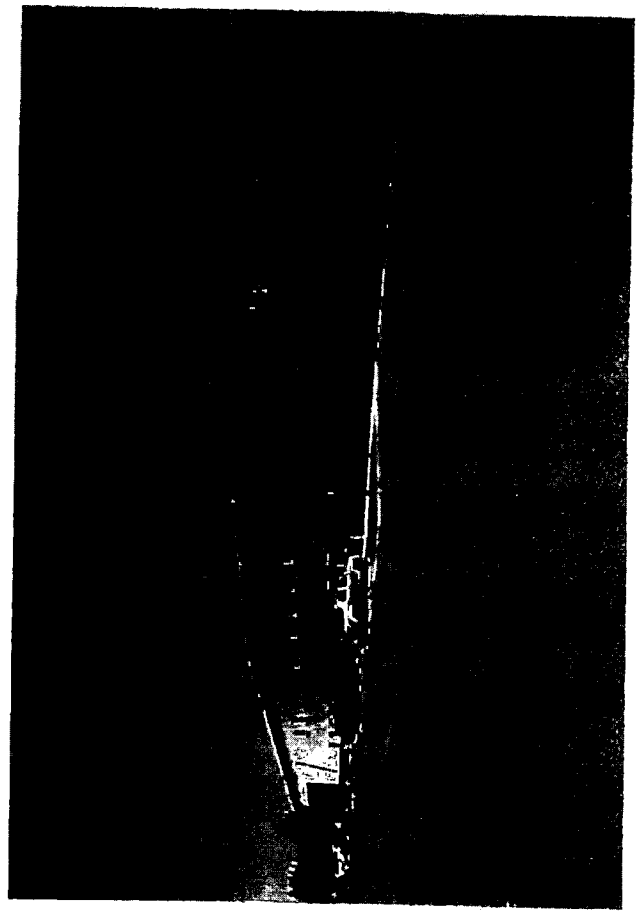


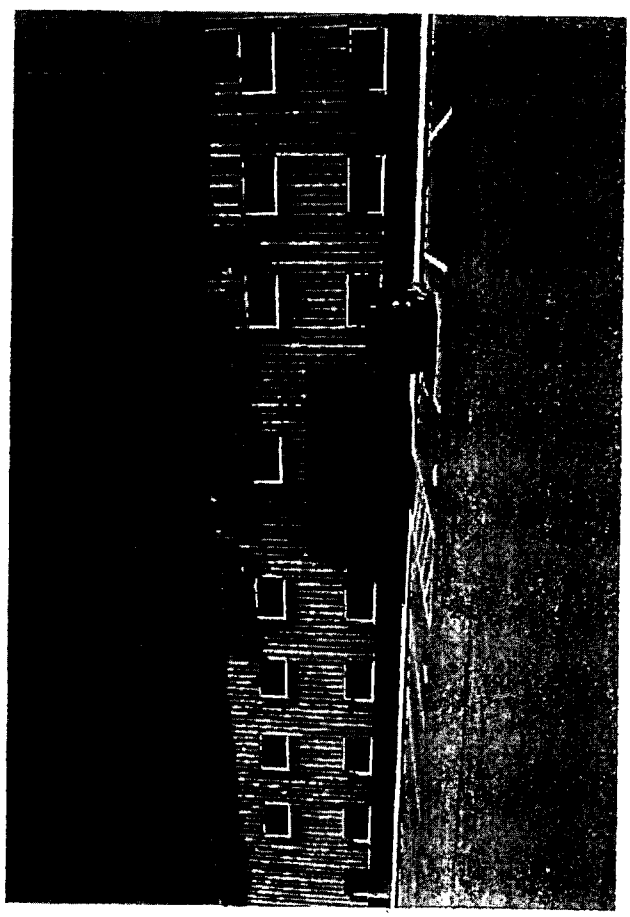
SAE J3057 Test

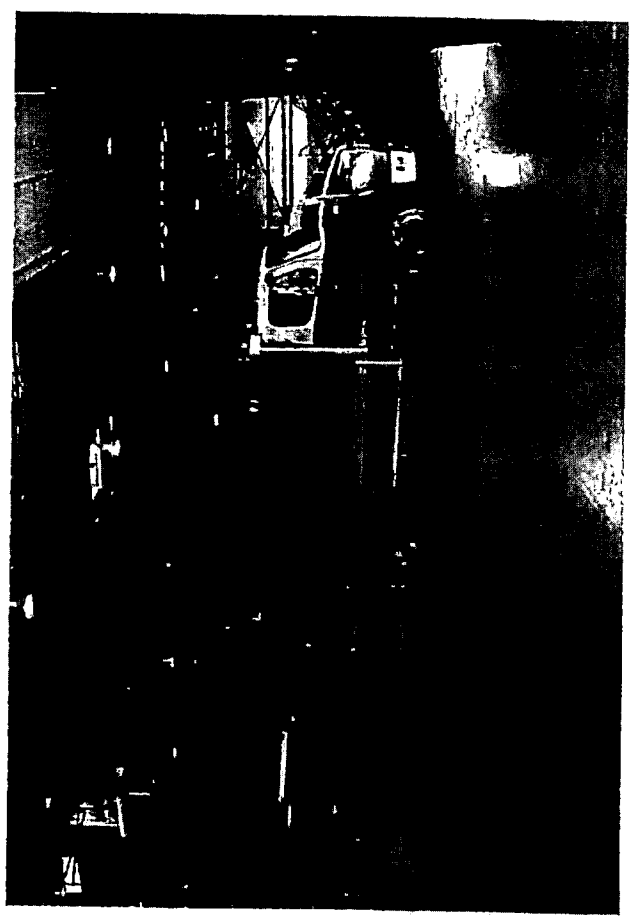


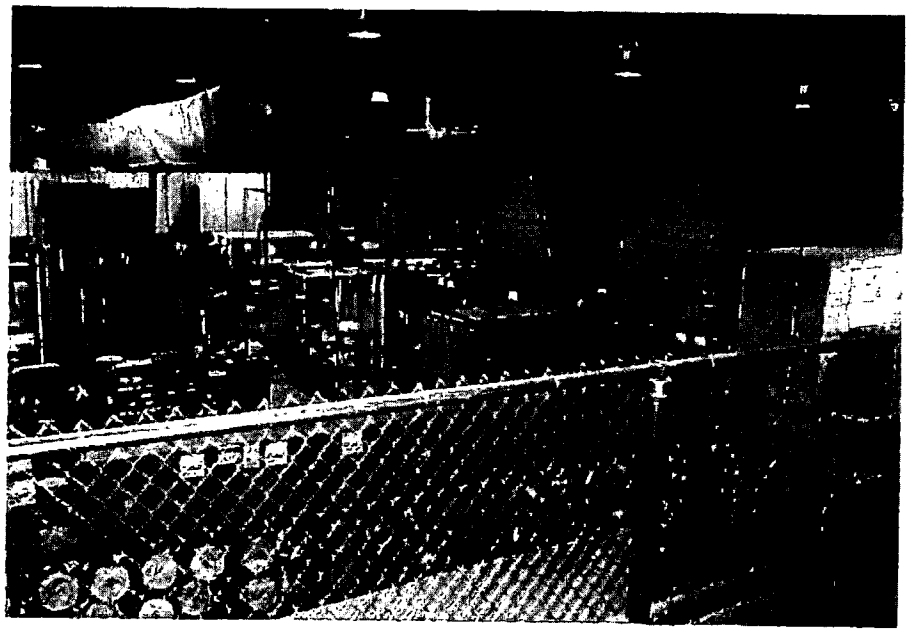
SAE J3102 Test

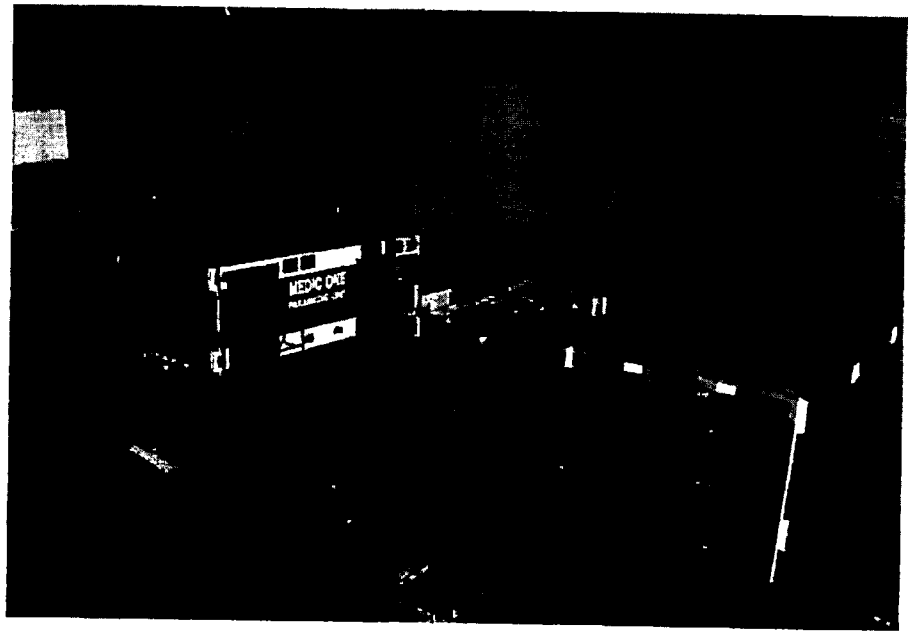


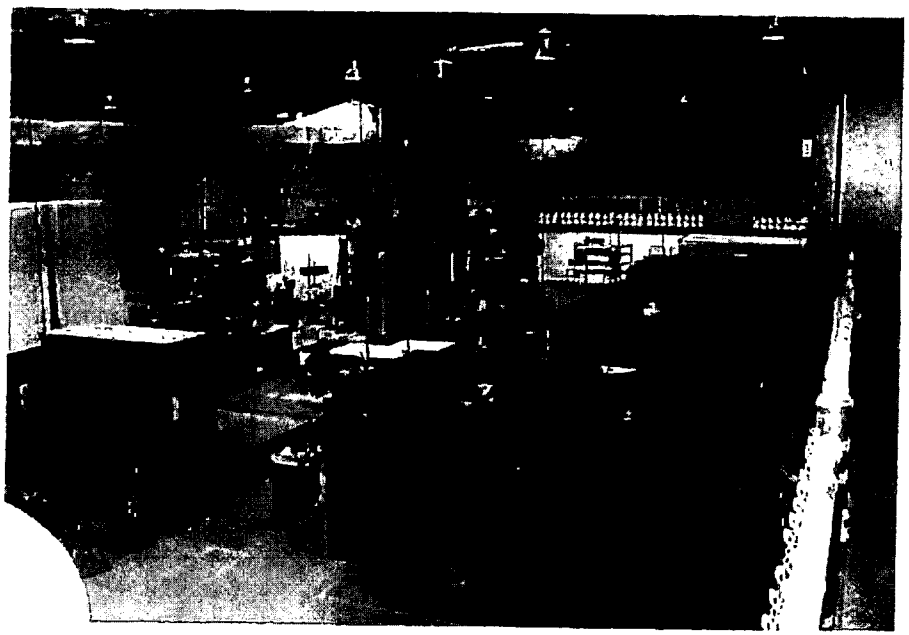


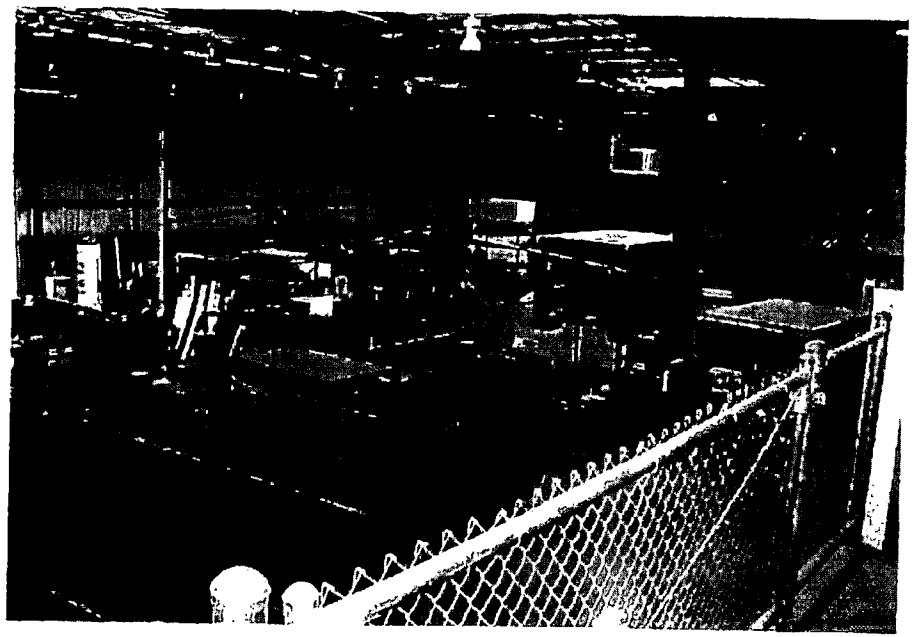


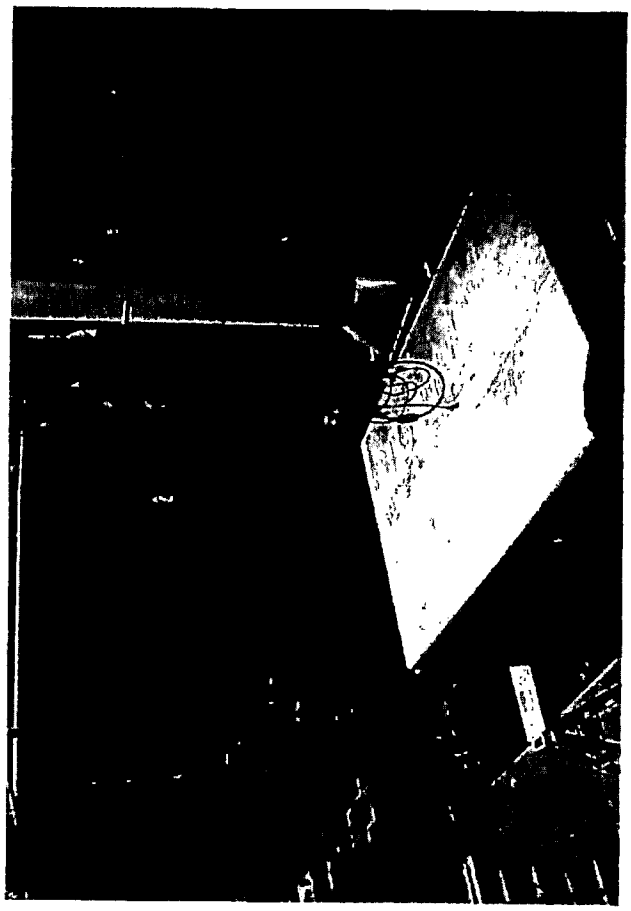




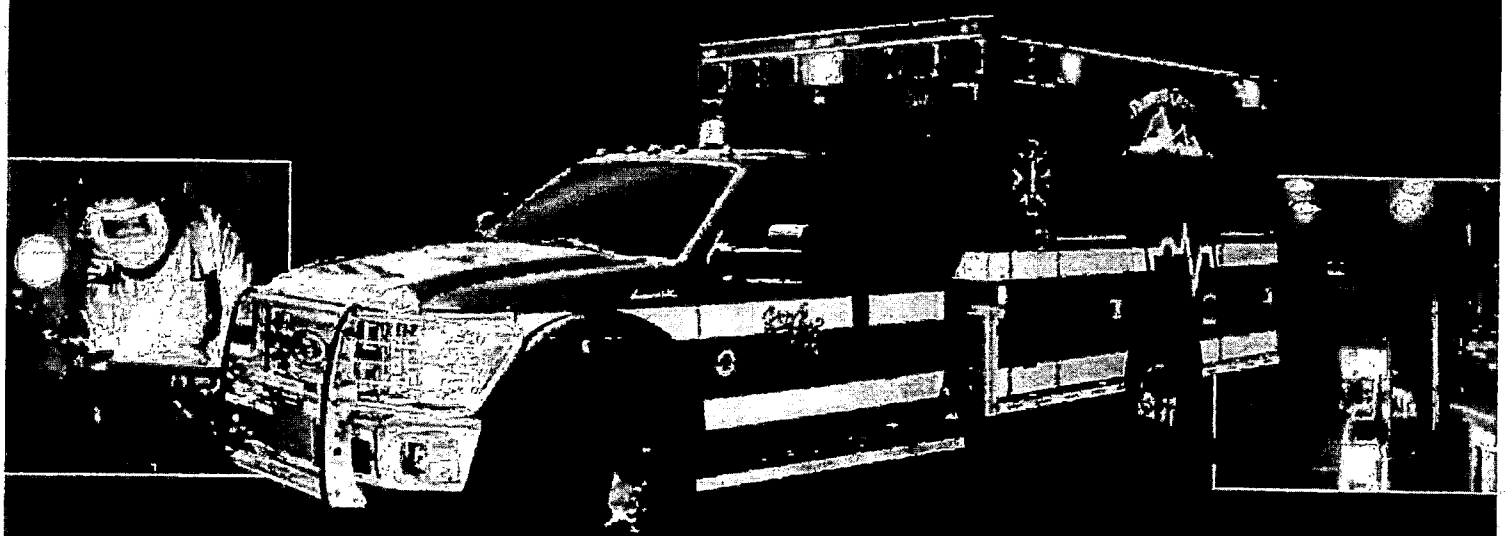

MEDIC ONE







BRAUN NW inc.



NORTH STAR

www.braunnw.com

150 North Star Dr. PO Box 1204 Chehalis, WA 98532
DTF: 800.245.6303 TEL: 360.748.0195 FAX: 360.748.0256

GSA

Like Us

HGACBuy

FELD FIRE
"We've got you covered."

February 15, 2021

Proposal for a Wheeled Coach Type 1 Ford F550 Diesel 4x4 Ambulance

DATE: February 15,2021

This proposal has been prepared for:

Independence Fire and EMS

We hereby propose to furnish to you, subject to proper execution of a signed contract by you and Feld Fire, the following ambulance and equipment that was built in accordance with the attached Wheeled Coach specifications provided with this proposal.

Upon completion of contract, one (1) Wheeled Coach Type 1 Ford F550 4x4 diesel ambulance as specified by the department for One Hundred Ninety Two Thousand Six Hundred Fifteen Dollars and Zero Cents ($192,615.00). Delivery is running 120 days from receipt of chassis. The above price includes the trade in value of the 2015 pending inspection at a local service center. If there would be a Stryker Cot and Power Load that would be traded with the unit there would be additional dollars for that as well. We will send an updated PDF price proposal that reflects that price but due to the weather are wanting to get the bid book in transit.

We thank you for the opportunity to bid on your ambulance and look forward to working together in the future.

Best Regards,

Mindie Simons

Apparatus Manager, Feld Fire

712-830-7719

A division of **ED M. FELD EQUIPMENT CO., INC.**
113 North Griffith Road · Carroll, Iowa 51401 ·T 800 568 2403 · F 712 792 6658 · www.feldfire.com
1330 NW Jefferson St., Grain Valley, MO 64029 T 816-443-2738 F 816-443-2864
10403 Baur Blvd St E., Olivette, MO 63132

FELD FIRE
"We've got you covered."

February 15, 2021

Proposal for a Wheeled Coach Type 1 Ford F550 Diesel 4x4 Ambulance

DATE: February 15,2021

This proposal has been prepared for:

Independence Fire and EMS

We hereby propose to furnish to you, subject to proper execution of a signed contract by you and Feld Fire, the following ambulance and equipment that was built in accordance with the attached Wheeled Coach specifications provided with this proposal.

Upon completion of contract, one (1) Wheeled Coach Type 1 Ford F550 4x4 diesel ambulance as specified by the department for Two Hundred Two Thousand Six Hundred Fifteen Dollars and Zero Cents ($202,615.00). Delivery is running 120 days from receipt of chassis. The above price does not include the trade in value of the 2015. We will send an updated PDF price proposal that reflects that price but due to the weather are wanting too get the bid book in transit.

We thank you for the opportunity to bid on your ambulance and look forward to working together in the future.

Best Regards,

Mindie Simons

Apparatus Manager, Feld Fire

712-830-7719

FELD FIRE™
"We've got you covered."

About Us

Feld Fire is a leading distributor of the latest brands of firefighting equipment and search and rescue gear including Scott Safety, Amkus Rescue, Paratech, Bauer, Cairns helmets, Shelby & Veridian Fire Gloves, Wildland Fire Equipment, and more. For the past 70+ years, we have been a reputable source for turnout gear, fire boots, fire hoses and nozzles, fire pumps, and fire apparatus equipment.

Our company was originally founded in 1945 by Ed M. Feld. Beginning primarily as a Western Iowa Fire Equipment service and distribution center, Ed M. Feld Equipment Co. (Feld Fire) has grown over the years and now has sales reps covering Iowa, Nebraska, Minnesota, South Dakota, Illinois, Missouri, and Kansas. We have also been rapidly growing our online e-commerce presence that has expanded our sales to all of North America.

Our mission is to be the best single source supply center for any and all Fire, Rescue & Safety needs. To achieve this goal, we continue to acquire distribution rights for the best quality firefighting and rescue equipment in the industry. We have recently expanded our capabilities in the manufacturing arena and are continuing to add more service reps to offer complete service for all items in the Fire, Rescue and Safety Industry. To help our growth we now have 3 Service and Sales facilities to locally handle all of your Fire & Safety equipment and apparatus needs!

Feld Fire – Iowa **113 N. Griffith Rd.** **Carroll, IA 51041**	**Feld Fire – Missouri (KC)** **1330 NW Jefferson St.** **Grain Valley, MO 64029**	**Feld Fire – Missouri (St Louis)** **10403 Baur Blvd, Ste E** **Olivette, MO 63132**

We strive to achieve 100% satisfaction with all of our current and future customers by offering them the best fire gear and safety products at great prices. We provide continuous service after the sales, and provide vast amounts of information at your fingertips via our web presence.

We're not afraid to talk to you. Need help or just don't like placing orders over the internet? Contact us at 1-800-568-2403 (US) or 1-712-792-3143. We look forward to hearing from you.

FELD FIRE
"We've got you covered."

Location and Capabilities for Service

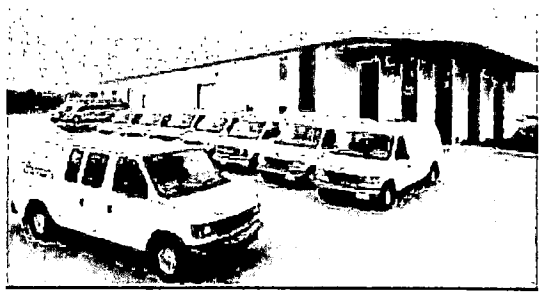
Feld Fire is founded on the principals of Service after Sale. This was instilled in our culture by our founder Ed M. Feld over 75 years ago and we continue to enhance this portion of our business as a family owned and operated Fire & Safety Solution provider.

Feld Fire is an Authorized Service Center for Spartan Chassis, Spartan ER vehicles and Smeal Fire. We carry ample stock of many of the parts required for these builds specifically as well as over $2mil in inventory between our 3 locations. This includes but is not limited to Akron Brass, Whelen Lighting, Weldon Electronics & Lighting, Task Force Tips, Class 1, Elkhart Brass to name a few. We carry many of the parts and service kits from each of these mfg at all of our locations.

Our mobile and in-house service techs carry an array of EVT, Spartan Chassis, International Chassis and Freightliner Chassis certifications to ensure quality work performed by trained technicians. Our techs are also constantly training to achieve more certifications to stay on top of the changing service needs of the apparatus we work on.
Current EVT certifications amongst our Mobile Service Techs we have the following:

- F-1 Maintenance, Inspection & Testing
- F-2 Design & Performance Standards and Preventative Maintenance of Fire Apparatus
- F-3 Fire Pumps and Accessories
- F-4 Fire Apparatus Electrical Systems

Our capabilities include:
Carroll Facility



FELD FIRE
"We've got you covered."

Our most recent expansion is a 5500 square foot office and service center with (2) service bays located at 10403 Baur Blvd, Olivette, Missouri.

We have (1) full time technician on staff at that location Monday through Friday as well as mobile capabilities and 24-hour care available 365 days per year as well as 24 hour technical service care through Spartan and Wheeled Coach.

There are currently actions under way to expand our service department for even better care.

EQUAL EMPLOYMENT OPPORTUNITY POLICY
AFFIRMATIVE ACTION INVITATION

It is the policy of Wheeled Coach Industries, Inc. (hereafter WCI) not to discriminate, and to take affirmative action to employ, and to treat in employment, all persons, regardless of age, race, color, creed, sex, sexual orientation, religion, marital status, national origin, citizenship status, genetics, disability, or veteran status to include Vietnam era veteran status.

This policy shall apply to all employment actions, including but not limited to recruitment, hiring, upgrading, promotion, transfer, layoff, recall, termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship.

WCI invites all employees and applicants seeking employment to self-identify and maintain these records. We encourage self-identification, which is voluntary, confidential, and will not adversely effect personnel decisions for employees and applicants for employment. Self-identification assists WCI to make affirmative action decisions and allow accommodation to qualified individuals when needed.

As a federal contractor, WCI complies with Executive Order 11246, as amended, Section 503 of the Rehabilitation Act of 1973, as amended, and the Vietnam Era Veterans' Readjustment Assistance Act of 1974, as amended, 38 U.S.C. 4212 (formerly 2012), and their implementing regulations at 41 CFR Chapter 60.

As President of WCI, I am committed to the principles of Equal Employment Opportunity and Affirmative action. We do not accept, condone, or tolerate any form of discrimination or harassment in the workplace. In order to ensure its dissemination and implementation throughout all levels of the company, I have elected Brian Lehman, Human Resource Director, as the Affirmative Action Officer for WCI.

In furtherance of our policy of Equal Employment and Affirmative Action, WCI has developed a written Affirmative Action Program which sets forth the policies, practices, and procedures which ensure that a nondiscriminatory work environment is maintained. This Affirmative Action Plan for persons with disabilities, special disabled veterans, and Vietnam era veterans is available for inspection by any employee or applicant seeking employment, during normal business hours, in the Human Resources Department. Interested persons should contact Brian Lehman, Human Resources Director, for assistance.

Robert L. Collins
President
Wheeled Coach Industries, Inc.

ATTACHMENT K
DRUG-FREE WORKPLACE CERTIFICATION

Preference shall be given to businesses with drug-free workplace programs. Pursuant to Section 287.087, Florida Statutes, whenever two or more competitive solicitations that are equal with respect to price, quality, and service are received by the State or by any political subdivision for the procurement of commodities or contractual services, a response received from a business that certifies that it has implemented a drug-free workplace program shall be given preference in the award process. Established procedures for processing tie responses will be followed if none of the tied providers has a drug free workplace program. In order to have a drug-free workplace program, a business shall:

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.

2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.

3. Give each employee engaged in providing the commodities or contractual services that are under proposal a copy of the statement specified in Subsection (1).

4. In the statement specified in Subsection (1), notify the employees that, as a condition of working on the commodities or contractual services that are under proposal, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 894, Florida Statutes, or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.

5. Impose a sanction on any employee who is so convicted or require the satisfactory participation in a drug abuse assistance or rehabilitation program as such is available in the employee's community.

6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of applicable laws, rules and regulations.

As the person authorized to sign the statement, I certify that this firm complies fully with the above requirements.

WHEELED COAH INDUSTRIES
BUSINESS NAME

PROVIDER'S SIGNATURE

CERTIFICATE OF LIABILITY INSURANCE

11/1/2019

DATE (MM/DD/YYYY) 6/27/2019

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Lockton Companies Three City Place Drive, Suite 900 St. Louis MO 63141-7081 (314) 432-0500	CONTACT NAME: PHONE (A/C, No, Ext): FAX (A/C, No): E-MAIL ADDRESS:	
	INSURER(S) AFFORDING COVERAGE	NAIC #
INSURED 1373880 Wheeled Coach Industries, Inc. 2737 N. Forsyth Road Winter Park FL 32792	INSURER A : Great American E & S Insurance Company	37532
	INSURER B : Travelers Property Casualty Co of America	25674
	INSURER C : AXIS Surplus Insurance Company	26620
	INSURER D :	
	INSURER E :	
	INSURER F :	

COVERAGES ALLSP CERTIFICATE NUMBER: 15871816 REVISION NUMBER: XXXXXXX

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: X POLICY PRO-JECT LOC OTHER:	N	Y	PL1744639-02	7/1/2019	11/1/2020	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG $	$ 1,000,000 $ 300,000 $ XXXXXXX $ 1,000,000 $ 4,000,000 $ 4,000,000 $
B	AUTOMOBILE LIABILITY X ANY AUTO OWNED AUTOS ONLY HIRED AUTOS ONLY SCHEDULED AUTOS NON-OWNED AUTOS ONLY	N	N	TC2J-CAP-8E082581-TIL-19	7/1/2019	11/1/2020	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) $	$ 1,000,000 $ XXXXXXX $ XXXXXXX $ XXXXXXX $ XXXXXXX
C A	UMBRELLA LIAB X OCCUR X EXCESS LIAB CLAIMS-MADE DED RETENTION $	N	N	P-001-000123735-01 XSL744640-02	7/1/2019 7/1/2019	11/1/2020 11/1/2020	EACH OCCURRENCE AGGREGATE Excess Liab,	$ 5,000,000 $ 5,000,000 $ 5,000,000
B B B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y/N N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N/A	N	TC2JUB-118D4882-19 (AOS) TRJUB-118D4901-19 (AZ,MA,W) TWXJ-UB-8E082206-19 (OH)	7/1/2019 7/1/2019 7/1/2019	11/1/2019 11/1/2019 11/1/2019	X PER STATUTE OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ 1,000,000 $ 1,000,000 $ 1,000,000
B	Garage Keepers Liability	N	N	TC2J-CAP-8E082581-TIL19	7/1/2019	11/1/2020	Blanket $5,000,000 by location	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

THE AUTOMOBILE LIABILITY POLICY INCLUDES PERSONAL INJURY PROTECTION (PIP) IN THE AMOUNT OF $10,000 AGGREGATE LIMIT PER PERSON. 16 DEALER PLATES ARE PROVIDED UNDER THIS COVERAGE. WAIVER OF SUBROGATION APPLIES UNDER GENERAL LIABILITY AS REQUIRED BY WRITTEN CONTRACT.

CERTIFICATE HOLDER

15871816
DEPARTMENT OF HIGHWAY SAFETY & MOTOR VEHICLES
NEIL KIRKMAN BUILDING, MS-65, ROOM A312
TALLAHASSEE FL 32399

CANCELLATION See Attachment

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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LICENSE CERTIFICATE

STATE OF FLORIDA
DEPARTMENT OF HIGHWAY SAFETY AND MOTOR VEHICLES
DIVISION OF MOTORIST SERVICES

REV AMBULANCE GROUP ORLANDO, INC.
2737 FORSYTH RD
WINTER PARK, FL 32792-6673

License

LICENSE NUMBER
MV/1118730/1

PRIMARY LOT

FOR A MANUFACTURER OF MOTOR VEHICLES

EFFECTIVE DATE
08/20/2019

EXPIRATION DATE
09/30/2021

VOID IF ALTERED

THIS CERTIFIES, THAT

REV AMBULANCE GROUP ORLANDO, INC.
WHEELED COACH

AT 2737 NORTH FORSYTH ROAD
WINTER PARK, FL 32792

IS HEREBY LICENSED UNDER THE PROVISIONS OF SECTION

320.60-320.70, FLORIDA STATUTES TO CONDUCT AND CARRY ON BUSINESS AS A MANUFACTURER OF MOTOR VEHICLES IN THE STATE OF FLORIDA

GIVEN UNDER MY HAND AND SEAL THE ABOVE DATE WRITTEN.

Julie W. Gentry
BUREAU CHIEF

Robert R. Kynoch
DIRECTOR

HSMV 84103 (REV. 2/11)S

STATE OF FLORIDA

ADVERTISEMENT FOR BID

The City of Independence, Kansas, is accepting bids for a new ambulance for the City's Fire-EMS Department, meeting or exceeding the attached specifications.

Bids will be in the office of the City Clerk, 811 W. Laurel Street, Independence, Ks. 67301, on or before 2:00 p.m. Thursday, February 18th. Bids shall be enclosed in a sealed envelope plainly marked on the outside "Ambulance". If bid is mailed, original envelope shall be enclosed in a separate envelope addressed to the City Clerk, also plainly marked on the outside as stated above. E-mail or fax bids will not be accepted. The apparent low bid will then be presented to the Independence City Commission at their next regular meeting for their formal action, subject to secured funding.

The city reserves the right to accept or reject any or all bids or to waive any irregularities should any occur as may best benefit the City. The City Manager may require that no bidder may withdraw a bid for a period of up to forty-five (45) days after the date and hour set for opening bids, but that a bid may be withdrawn up to twenty-four (24) hours prior to expiration of the deadline for submitted bids.

Lacey Lies

Lacey Lies, Director of Finance

01/28/2021

Date

CITY OF
INDEPENDENCE
KANSAS

SPECIFICATIONS & BID SHEET

DELIVERY INCLUDED TO:
CITY HALL
811 W LAUREL ST
INDEPENDENCE, KS 67301

FOR QUESTIONS, PLEASE CONTACT:
DAVID COWAN, PUBLIC SAFETY
DAVIDC@INDEPENDENCEKS.GOV
(620) 332-2528

Shawn Wallis, Fire-EMS Chief
shawnw@independenceks.gov
620.332.2504

CITY OF
INDEPENDENCE
KANSAS

"Delivering Excellence"

Bid Specification Requirements

Bids will be sent on January 28, 2021, to prospective bidders

Bids must be returned to the City of Independence by:

February 18th, 2021, at 2:00 p.m.

Mail to:

City of Independence
Attn: Ambulance Bid
811 W. Laurel Street
Independence, Ks. 67301

Bid packages must be a submitted proposal, including all requested information in this bid, as outlined in the next couple of pages (Bid Requirements). The City of Independence will reject any bids received after 2:00 p.m. on February 18, 2021. For confirmation of receipt, please contact David Schwenker, City Clerk at davids@independenceks.gov or 620.332.2500 option 3.

STRATEGIC VISION: *Customer Service Excellence – Continuous Improvement – Teamwork*

CITY OF
INDEPENDENCE
KANSAS

"Delivering Excellence"

BID SUBMISSION REQUIREMENTS

1. This unit shall be a Type I modular ambulance on a Ford F-550 Super Duty XLT, 193' wheelbase, in accordance with specifications KKK-A-1822F.

2. This ambulance and equipment shall be delivered to this agency in Independence, Kansas with all delivery fees to be paid by the supplier by TBA by manufacturer for 2021 delivery.

3. Each bidder is required, before submitting the proposal, to be thoroughly familiar with the specifications contained herein. It will be the responsibility of the bidder to determine whether the vehicle specified meets the requirements of applicable state law, and the requirements of applicable KKK-A-1822F specifications

4. The following definitions shall apply to the specifications:
    a. The first stage manufacturer is the original equipment manufacturer that built the specified chassis, and its components.
    b. The second stage manufacturer is the company that will produce the ambulance conversion and required modifications to the O.E.M. chassis for delivery to this agency.

5. The bid process shall be valid for a minimum of 60 days from the date of the bid opening or as otherwise specified on the bid proposal form.

6. Full payment will be made when the unit is received, inspected, found to comply with the procurement specifications, found to be free of damage, and properly invoiced.

7. Bids received shall be evaluated by the purchaser. This evaluation will be based on the following criteria:
    a. Completeness of the proposal;
        i. The degree to which it responds to all requirements, and requests for information contained herein
        ii. Exceptions will be judged by the purchaser.
    b. Bid proposals that do not comply with the prescribed specifications will not be accepted.
    c. The bidder shall submit documentation that the second stage manufacturer is a current member of the Ford QVM (Qualified Vehicle Modifier) program even if an alternate chassis is bid.

8. The purchaser reserves the right to waive any irregularities, informalities, and technicalities in the procedure.

CITY OF
INDEPENDENCE
KANSAS

"Delivering Excellence"

9. Warranty: Printed warranty statements for the ambulance body structure, the ambulance electrical system, the ambulance paint finish, and the general ambulance conversion must be submitted with the bid proposal.

10. All warranties shall begin at the acceptance of the vehicle by this agency.

11. Since it is the purpose of these specifications to provide a modular body that will provide many years of service, the manufacturer of the vehicle bid shall warranty the structural integrity of the modular body for the life of the vehicle ownership by this agency. This warranty shall be in writing and shall be included with the bid proposal. Bidders who fail to meet this requirement shall not be considered as responsive.

12. Each bidder must be able to provide an efficient response to ambulance service needs. Within one business day after the receipt of a verbal, or written notification that warranty service is required, the ambulance supplier shall respond with a verbal statement of the plan to accomplish the repair.

13. The bidder shall state below the location of the ambulance manufacturer's parts, and service facility nearest the purchaser location:

FELD FIRE
13330 NW JEFFERSON
GRAIN VALLEY, MO 64029

TELEPHONE: (712) 792-3143 FAX: 712-792-4058
EMAIL: MINDIE@FELDFIRE.COM

14. The bidder shall state below any additional repair and logistical support that would be available above the requirements of these specifications. These services may be used as an additional basis for a contract award.

FELD FIRE - MOBILE SERVICE
13330 NW JEFFERSON
GRAIN VALLEY, MO 64029

15. Delivery: Delivery for this truck is by TBA by manufacturer for 2021 delivery and will weigh heavily in the determination of the bid award, the delivery schedules that are submitted by the bidder and agreed upon by this agency shall automatically become binding upon the successful bidder.

CITY OF
INDEPENDENCE
KANSAS

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16. By signing this bid, the bidder agrees that his bid is made without any understanding, agreement, or connection with any other person, firm, or corporation making a bid for the same purpose and that his bid is in all respects fair and without collusion or fraud.

17. Each bidder must furnish all information requested in this bid specifications. In addition, the bidders shall supply at least one complete set of drawings, descriptive literature, and complete manufacturer specifications covering the vehicle model offered. A copy of the purchaser specifications shall be returned with all sections responded to, and specifically indicating all detail deviations from this bid specification. That specification response will form the contract between the bidder and the purchaser.

18. Any area where these bid specifications are not met exactly must be identified in writing and referenced by proposal paragraph number. Details concerning the exceptions must be clearly explained. Each exception will be considered by the purchaser as the degree of impact by the proposed on the vehicle design requested and will be evaluated on their merit at the discretion of the purchaser. Bid proposals not meeting this comparison requirement will be rejected.

19. Patents, and royalties: The bidder, without exception, shall indemnify and save harmless the purchaser and its employees from liability of any kind due to any copyright, patent, or protected process infringement used in the performance of this contract. If the bidder uses any design, device, or materials covered by letters of protection, it is mutually agreed and understood without exception that the bid prices shall include all royalties or costs arising from the use of such design, device, or materials in any way involved in the work.

20. In the event clarification is requested on the content of this specification, the question shall be sent by email to:

Independence Fire-EMS
davidc@independenceks.gov & shawnw@independenceks.gov

Clarification or corrections to these specifications shall not be valid unless they are in written form and signed by the Director of EMS of this agency, or an assigned authority.

21. The bidder must be legally licensed to sell motor vehicles in the State of Kansas. The bidder must submit a copy of their dealer license provided by this State. This is a legal requirement of this State, and proposals submitted by bidders that do not comply with this requirement will be rejected.

CITY OF
INDEPENDENCE
KANSAS

"Delivering Excellence"

22. THIS BID IS GOOD FOR 60 DAYS FROM **February 18, 2021**. THE BID OPENING DATE. CITY OF INDEPENDENCE RESERVES THE RIGHT TO ADD OR DELETE OPTIONS AFTER THE BID IS AWARDED, AND EXPECTS APPROPRIATE CREDIT OR DEBIT FOR SAID OPTIONS. CITY OF INDEPENDENCE RESERVES THE RIGHT TO ACCEPT OR REJECT ANY OR ALL BIDS OR TO WAVIE ANY IRREGULARITIES SHOULD ANY OCCUR AS MAY BEST BENEFIT THE CITY OF INDEPENDENCE.

1. Base bid for requested ambulance $ 202,615.00
2. Trade-In value of 2015 Ambulance ($_____)
3. Total Price with trade: $_____

Pictures and information available on trade-in by request or can be seen by appointment.
Exceptions to the bid:

1. NOTED IN CLARIFICATIONS
2. 2 EXCEPTIONS BY PAGE #
3. _____
4. _____
5. _____

If further space is needed, please attach additional pages.

Delivery Date: 120 DAYS **Required: TBA by manufacturer for a 2021 delivery**
FROM RECEIPT OF CHASSIS

I hereby certify that the bid submitted by this company is for an ambulance that will meet all of the requirements set forth in these specifications, including all equipment specified, except where exceptions are indicated on a separate piece of paper. Enclosed with our bid is an explanation of what we propose to furnish in lieu of the specified requirements where we have indicated any exceptions. This copy of the specifications and our list of exceptions, if any, shall be considered to be the accurate contract vehicle description upon our award.

FELD FIRE
Company Name

13330 NW JEFFERSON | GRAIN VALLEY | MO
Address | City | State

64029 | 7127923443 | (712)830 7719
Zip | Phone | (Alt) Phone

Sales Representative Signature | MINDIE SIMONS Printed Name

2-15-21
Date

STRATEGIC VISION: *Customer Service Excellence – Continuous Improvement – Teamwork*

INDEPENDENCE FIRE DEPARTMENT
2021 Ford *"F-550"* w/ 4WD
AMBULANCE SPECIFICATION

INDEX

-1-

3.9	110 VOLT AC SYSTEM
3.8	12 VOLT DC OUTLETS11

-A-

1.13	ALTERNATORS
10.3	AMD MEMBERSHIP
8.3	ANTENNA PRE-WIRE
1.3	AUXILIARY POWERTRAIN CONTROL (APC)
1.9	AXLE, REAR

-B-

3.4.5	BACKUP ALARM OVERRIDE
1.12	BATTERIES
6.0	**BODY FINISH**
1.7	BRAKES
4.2.2	BULKHEAD CABINETS
5.3	BUMPER, REAR STEP

-C-

4.2	CABINETS, INTERIOR
4.2.1	CABINETS, LEFT WALL
1.0	**CHASSIS**
4.12	CLIMATE CONTROL
3.16	CLOCK, PATIENT COMPARTMENT
3.4	CONTROL PANEL PODS BUTTONS
1.18	COOLING SYSTEM, ENGINE
4.10	COT MOUNT
4.3.1	CPR SEAT CABINET
3.4.6	CURBSIDE SCENE LIGHTS "ON" WITH CURBSIDE DOOR

-D-

8.1	DECALS, NO SMOKING & OXYGEN EQUIPPED
6.2	DECALS, STAR-OF-LIFE
2.1	DIMENSIONS, EXTERIOR
2.2	DIMENSIONS, INTERIOR
5.4	DOORSTEP, SIDE

2.8 DOORS, EXTERIOR COMPARTMENT AND ENTRY
3.12 DOOR SWITCHING

-E-

3.7 ELECTRICAL SERVICE CABINET
3.0 ELECTRICAL SYSTEM
3.1 ELECTRICAL SYSTEM COMPONENTS
3.5 ELECTRICAL WIRING
3.4.2 EMERGENCY MASTER BUTTON
1.2 ENGINE
5.0 EXTERIOR BODY
5.6 EXTERIOR COMPARTMENT CONFIGURATION
2.7 EXTERIOR COMPARTMENT CONSTRUCTION

-F-

3.4.3 FLASHER
4.1 FLOOR, PATIENT COMPARTMENT
2.6 FLOOR SUB-STRUCTURE
10.5 FORD POOL PROGRAM
10.2 FORD QVM PROGRAM
1.10 FUEL TANK

-G-

1.4 GAUGES AND METERS
2.3 GENERAL CONSTRUCTION
4.8 GRAB HANDLES, DOORS
4.7 GRAB RAIL, OVERHEAD
3.6 GROUNDING SYSTEM

-H-

4.5 HEADLINER
1.17 HEATER AND AIR CONDITIONER, CHASSIS

-I-

4.11 INSULATION
8.2 I.V. HOLDERS

-K-

10.1 KKK-A-1822-F CERTIFICATION

-L-

2.9	LICENSE PLATE HOLDER
5.7	LIGHTING, DOT
3.10	LIGHTING, EMERGENCY
3.15	LIGHTS, PATIENT COMPARTMENT
3.19	LOW VOLTAGE ALARM

-M-

1.19	MIRRORS, OUTSIDE
1.22	MISCELLANEOUS CHASSIS ITEMS
8.0	**MISCELLANEOUS EOUIPMENT**
2.0	**MODULE CONVERSION**
3.4.1	MODULE POWER BUTTON

-O-

5.6	OXYGEN COMPARTMENT
4.14	OXYGEN OUTLETS

-P-

6.1	PAINTING PROCEEDURE
4.6	PANELING, INTERIOR
3.4.4	PARK OVERRIDE
4.0	**PATIENT COMPARTMENT**
7.0	**PAYLOAD**
7.1	PAYLOAD

-R-

3.4.8	REAR SCENE LIGHTS "ON" IN REVERSE
3.4.7	REAR SCENE LIGHTS "ON" WITH REAR DOORS OPEN
5.1	REAR WHEEL WELL TRIM
10.0	**REQUIREMENTS OF THE MANUFACTURER**
10.4	REMOUNTING AND REFURBISHING
2.4	ROOF
5.2	RUB RAILS
1.21	RUNNING BOARDS AND MUD FLAPS
1.23	REMOTE ENTRY

-S-

3.11	SCENE LIGHTS
4.3.2	SEAT, CPR
4.3	SEAT, EMT/ATTENDANT
1.16	SEATS, DRIVER'S COMPARTMENT
4.13	SHARPS CONTAINER
2.5	SIDE WALLS
3.13	SIREN AND SPEAKERS
3.14	SPOTLIGHT
1.5	SPRINGS, AXLE RATINGS & SHOCKS
4.2.4	SQUAD BENCH
4.2.3	SQUAD BENCH CABINETS
4.9	STAINLESS STEEL SIDE WALL
1.6	STEERING
5.5	STONE SHIELDS
3.17	SUCTION - ON BOARD
3.20	SWITCH CONSOLE, DRIVER'S
3.20.1	SWITCH CONSOLE, PATIENT COMPARTMENT

-T-

1.8	TRANSMISSION
1.20	TRIM PACKAGE, CAB

-U-

4.4	UPHOLSTERY

-V-

1.1	VEHICLE AND WHEEL BASE
3.18	VENTILATION
3.3	VOLTMETER

-W-

3.2	WARNING DISPLAYS
9.0	**WARRANTY**
9.1	WARRANTY
1.11	WHEELS AND TIRES
1.14	WINDOWS, CAB
1.15	WINDSHIELD WIPERS
8.4	WIRING SCHEMATICS

INDEPENDENCE FIRE DEPARTMENT
2021 FORD *"F-550"* w/ 4WD
AMBULANCE SPECIFICATIONS

1.0 CHASSIS

1.1 VEHICLE AND WHEELBASE
2021 Ford F-550 Super Duty XLT chassis with 4-wheel drive and dual rear wheels, 193-inch wheelbase, 108-inch cab to axle, Ford Ambulance prep package 47A.

COMPLY? .....YES X NO _____

1.2 ENGINE
Ford 6.7-liter Power Stroke Turbo Charged V-8 Diesel with OEM engine block heater.

COMPLY? .....YES X NO _____

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

COMPLY? .....YES X NO _____

1.4 GAUGES AND METERS
Speedometer, odometer, fuel gauge, temperature, oil pressure, digital voltmeter, engine hour meter.

COMPLY? .....YES X NO _____

1.5 SPRINGS, AXLE RATINGS, & SHOCKS
Maximum GVWR – 18,000 lbs. GVWR
Front: Monobeam with coil springs, shock absorbers and stabilizer bar.
Rear: Liquid Spring Suspension with auto dump feature that lowers the rear of the unit to allow for ease of cot loading when the rear doors are open.
COMPLY? .....YES X NO _____

1.6 STEERING
Power steering with tilt wheel and cruise control.

COMPLY? .....YES X NO _____

1.7 BRAKES
Heavy duty, hydro-boost assisted type, 4-wheel anti-lock disc brake system.

COMPLY? .....YES X NO _____

1.8 TRANSMISSION
Torqueshift ™ heavy duty 6-speed Select Shift transmission with external oil cooler.

COMPLY? .....YES X NO _____

1.9 AXLE, REAR
4.10 gear ratio w/ limited slip axle.

COMPLY? .....YES X NO _____

1.10 FUELTANK
Single tank w/ 40-gallon capacity.

COMPLY? .....YES X NO _____

1.11 WHEELS AND TIRES
Seven (7) LT 225/70RX19.5G Steel Belted Radial tires, BSW all season tread. The spare tire will be mounted in the left rear exterior compartment. Stainless steel wheel inserts with valve stem extensions will be provided. The valve stem extensions are to be steel braided lines that are held in place with stainless steel brackets. These brackets are to be located in such a way as to provide easy access to both the inside and outside rear tires valve stems for the checking of tire pressure and for the addition of air when required.

COMPLY? .....YES X NO _____

1.12 BATTERIES
Two 750 CCA mounted in the engine compartment and wired parallel in OEM configuration that complies with Ford QVM and KKK-A-1822-F requirements. Batteries will be wired so that both will always be used for starting and controlled by a power cut off switch. The Ford ignition key activates the cutoff switch. Power can be provided to the module without the engine running by turning the ignition key to accessory position.

COMPLY? .....YES X NO _____

1.13 ALTERNATORS
Dual Ford OEM alternators with internal regulators. One 200-amp alternator and one 150-amp alternator for a combined for a total of 350 amps

COMPLY? .....YES X NO _____

1.14 WINDOWS, CAB
Tinted safety glass is installed in all exterior windows. Ford OEM power operated windows.

COMPLY? .....YES X NO _____

1.15 WINDSHIELD WIPERS
Two speed electric, with washer and adjustable intermittent cycle.

COMPLY? .....YES X NO _____

1.16 SEATS, DRIVER'S COMPARTMENT
Deluxe clothe OEM High Back Captain's Chairs, seat belts and shoulder harnesses.

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

COMPLY? .....YES X NO _____

1.17 HEATER AND AIR CONDITIONER
OEM heavy duty, high output.

COMPLY? .....YES X NO _____

1.18 COOLING SYSTEM, ENGINE
Heavy-duty liquid system using a 50/50 mix of permanent type antifreeze and water for protection to -40 Fahrenheit.

COMPLY? .....YES X NO _____

1.19 MIRRORS, OUTSIDE
OEM heated mirrors with power adjustment and built-in 2" x 6" convex mirrors, dual direction breakaway mounting arms with telescoping width adjustment.

COMPLY? .....YES X NO _____

1.20 TRIM PACKAGE, CAB
XLT Trim Package; full stainless-steel wheel simulators, chrome front bumper and grill. Color keyed door trim with map pockets, rubber floor mat, padded sunvisors, courtesy and dual dome lights, AM/FM Stereo Radio w/digital screen / GPS Navigation /dual cab speakers. Power door locks, cruise control, tilt steering wheel, and power adjustable brake and accelerator pedals.
COMPLY? .....YES X NO _____

1.21 RUNNING BOARDS AND MUD FLAPS
Heavy-duty aluminum Diamond Plate running boards will be installed from the back of the front wheel opening to the front of the module box. They will include mudguards to protect the chassis and module. Rubber mud flaps will be installed behind the dual rear wheels.

COMPLY? .....YES X NO _____

1.22 MISC. CHASSIS ITEMS
Jewel effect daytime running headlights, dual pitch horn, reduced sound level exhaust, OEM standard undercoating, step-well pad and factory supplied jack and tire tools, dual air bags.

COMPLY? .....YES X NO _____

1.23 REMOTE ENTRY

Remote Entry & anti-theft with two key Fobs' shall be included. The Module entry door locks will also be controlled by the factory Ford key fob. A hidden unlock switch will be installed in the chassis grill.

COMPLY? .....YES X NO _____

2.0 MODULE CONVERSION

2.1 DIMENSIONS, EXTERIOR

Overall vehicle length	316.0 inches
Overall vehicle height	113.5 inches
Overall module body length	176.0 inches
Overall module body height	95.0 inches
Overall module body width	96.0 inches

COMPLY? .....YES X NO _____

2.2 DIMENSIONS, INTERIOR

Length forward door to rear door	170.25 inches
Width interior wall to wall	92.0 inches
Width of aisle	49.0 inches
Height floor to ceiling	74.0 inches
Loading height	34.5 inches

NOTE: "Kneeling" rear suspension required for load height in KKK and NFPA limits.

COMPLY? .....YES X NO _____

2.3 GENERAL CONSTRUCTION

The entire body will be a welded and **SEAMLESS** one-piece body **(No Exceptions)**. The entire perimeter and around all openings of the body shall be fully welded and ground smooth thus eliminating any joints or seams. The use of tongue and groove method of construction that requires the use of a seam sealer is not acceptable. This is to prevent the cracking of paint at these areas resulting in a buildup of road dirt and grime and the eventual development of corrosion along the tongue and groove seams.

COMPLY? .....YES X NO _____

The aluminum skin, the roof and side panels, shall be permanently fastened to the framework using Lord 406/19 Acrylic Adhesive. Adhesive is applied to the sidewall skin to prevent warp age, oil canning and metal deflection associated with the welding of the sidewall skin to the structural framework. The use of double back adhesive tape is prohibited to eliminate the possibility of the adhesive tape failing to maintain a bond to the external skin.

COMPLY? .....YES _____ NO X

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

COMPLY? .....YES X NO _____

The roof panel shall be a single sheet of aluminum. Covering the roof of the exterior body with sectional pieces of aluminum panels is prohibited. This is to eliminate the necessity for joints or seams where these panels join.

COMPLY? .....YES_X_NO _____

The wall and roof support framework shall be .125" 6061-T6 extruded aluminum box beams and extrusions spaced on 12" centers or less. There shall be no frame members spaced at a distance in excess of 12". The roof support framework shall additionally include .125" 6061-T6 extruded 1" x 2" aluminum box beams running the full length of the roof. The frame and skin shall be fully welded with no rivets.

COMPLY? .....YES_X_NO _____

The exterior of the body will be finished smooth with 45-degree **SEAMLESS** beveled extruded corners presenting a modern and dynamic appearance. The outer wall thickness of the extruded corners shall be .250" to provide additional protection at all corners. The body will be designed and built to provide impact and penetration resistance, with appropriate channel reinforcing to assure rigidity.

COMPLY? .....YES_X_NO _____

All parts of the body and attachments will be fastened together with rust resistant fasteners in a manner that will preclude loosening of any bolts and screws, and the cracking of welded joints. The exterior body panels will be made of not less than 0.125" thick metal and be reinforced at all points where equipment will be attached. Additional plating will be added in the Street side and curbside walls for future installation of 6-point seatbelts.

COMPLY? .....YES_X_NO _____

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

COMPLY? .....YES_X_NO _____

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

COMPLY? .....YES_X_NO _____

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

COMPLY? .....YES_X_NO _____

2.4 ROOF

The roof surface shall be **SEAMLESS** and **CROWNED** and of **ONE PIECE** of .125" aluminum (3003-H14). The use of any type of sealer or caulking material is strictly forbidden. There shall be no lip or protrusion on the roof that could result in the entrapment of any water or moisture.

COMPLY? .....YES X NO _____

The perimeter of the roof shall be constructed of 45-degree **SEAMLESS** beveled extrusions that eliminate any lip or protrusion providing a smooth finish. The outer wall thickness of the roof perimeter extrusions shall be .250" to provide additional protection at all perimeter corners.

COMPLY? .....YES X NO _____

The roof under structure will be fabricated from extruded aluminum box beams (6061-T6). The under structure will be constructed by welding 1" x 2" x .125" box beams lengthwise and by welding 2" x 2" x .125" box beams, spaced on 12" centers or less, crossways forming a cross sectional grid roof support framework. The complete roof will be treated with a sound-deadening barrier. The roof panel shall be fully perimeter welded and adhesive bonded to the roof under structure with Lord 46/19 Acrylic Adhesive. The use of skip or intermittent welding of the roof perimeter is unacceptable.

COMPLY? .....YES_____NO X

2.5 SIDE WALLS

The body sidewall skin shall be constructed of .125" aluminum (3003 H14). The sidewall under structure will be fabricated by welding 2" x 2" x .125" extruded aluminum box beams vertically, spaced no further than on 12" centers. The vertical tubing will join and be welded to roof supports (2" x 2" x .125" extruded aluminum box beams) to form an interlocking grid between the sidewall and the ceiling. The complete sides will be treated with a sound-deadening barrier. The body sidewall skin shall be fully welded around the entire perimeter and all body openings and adhesive bonded to the sidewall framework with Lord 406/19 Acrylic Adhesive. The curbside of the module, forward of the rear wheel will have a 4" skirt drop.

COMPLY? .....YES_____NO X

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

COMPLY? .....YES X NO _____

2.6 FLOOR SUB-STRUCTURE

The floor shall be at the lowest level permitted but not more than 34 ½ inches from the ground with **NO MODIFICATION TO THE FORD OEM CHASSIS SUSPENSION.**

COMPLY? .....YES X NO _____

The floor sub-structure shall consist of two (2) 1/4" walls 2" x 2" aluminum tubes running at the outer edge for the full length of the floor and the chassis frame rails. There shall then be sixteen (16) 1 ½" x 1 ½" x ¼" walls 1 ½" x 2" aluminum tubes running the width of the floor and fully welded to the outer tubes. This sub-structure frame is to mount on top of the Chassis frame rails via the 12 OEM Pucks. 2 Full-Length Plates measuring ¾" x 6" shall be welded to the underside of the 1 ½ x 1 ½ tubes, one left and one right. The outer edges of these plates

shall be welded to the 2 x 2 primary box beams. These plates shall be bolted, via OEM rubber mounts, to gusseted steel brackets bolted to the OEM frame. There shall be twelve (12) rubber mounts attaching the body to the frame.

COMPLY? .....YES_X_ NO _____

2.7 EXTERIOR COMPARTMENT CONSTRUCTION

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

COMPLY? .....YES_X_ NO _____

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

COMPLY? .....YES_X_ NO _____

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

COMPLY? .....YES_X_ NO _____

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

COMPLY? .....YES_X_ NO _____

2.8 DOORS

The corner of each door frame shall be ¼" Cast Aluminum inserted & welded to horizontal & vertical extrusions. This Cast part shall ensure superior strength as well as uniform fit & finish.

COMPLY? .....YES_X_ NO_____

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

COMPLY? .....YES_X_ NO _____

All doors shall be constructed of. 125 aluminum and 2 ½" thick.

COMPLY? .....YES_X_ NO _____

The inner panel on all exterior compartment and entry doors will be fastened to the extruded doorframe and recessed into the door frame extrusion for a flush finish. Surface mounting of

any interior door panels are not allowed. All fasteners used for the mounting of the interior panels are to have a rubber grommet affixed to the underside of the screw head to prevent the fastener screws from loosening and backing out of the extrusion. The interior door panels shall be readily removable for access to the interior of the door and the latching mechanism.

COMPLY? .....YES_X_NO _____

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

COMPLY? .....YES_X_NO _____

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

COMPLY? .....YES_X_NO _____

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

The door linkage rods' connecting the door handles and the rotary latches are to be 5/32 steel rods threaded on the turn buckle end. They shall be straight direct pull rods with no bends built into the rods allowed. Adjustments to the entry door linkage rods are to be provided by a turnbuckle located above and below and adjacent to each interior door handle.

COMPLY? .....YES_X_NO _____

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

COMPLY? .....YES_X_NO _____

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

COMPLY? .....YES_X_NO _____

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

COMPLY? .....YES_X_NO _____

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

COMPLY? .....YES_X_NO _____

All compartment doors will be equipped with a gas strut door stay that holds the door at 90 degrees to the body when open. All gas struts are to be mounted in such a way as to allow for easy access in the event that replacement or repair is required.

COMPLY? .....YES_X_NO _____

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

COMPLY? .....YES_X_NO _____

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

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

COMPLY? .....YES_X_NO _____

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

COMPLY? .....YES_X_NO _____

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

COMPLY?..... YES_X_NO _____

Rear and side patient compartment doors shall have dark tinted safety glass windows encased in extruded aluminum frames. Each rear door shall have an 18.5" x 17.5" fixed window. The side door shall have an 18.5" x 17.5" slide opening window with screen and window lock.

COMPLY?..... YES_X_NO _____

Right side entry door opening 77"H X 31" W **(Note: Door forward layout)**
Rear entry door opening (double door): 62.5"H X 48" W

COMPLY? .....YES_X_NO _____

2.9 LICENSE PLATE HOLDER

Installed in the center of the rear kick plate above the rear step bumper there shall be a Cast Products license plate holder. There are to be two LED lights mounted in the holder.

COMPLY? .....YES_X_NO _____

3.0 ELECTRICAL SYSTEM

3.1 ELECTRICAL SYSTEM COMPONENTS

A Weldon V-MUX 100% solid-state microprocessor based multiplex system will be installed to control the electrical functions. The system will provide diagnostics lap top plug-in capability. The front console shall contain fifteen (15) PODS buttons with an OLED, text display. The rear panel shall contain twelve (12) PODS buttons. PODS buttons are flexible to be used as latching, multi-level or momentary buttons. A Weldon High Content Node (S) shall be provided. There could be one or more depending upon demand requirements.
A Hanscom camera system will be included with a rear facing camera mounted to the exterior rear of the module along with a forward-facing interior camera mounted above the rear doors. A Hanscom display will be installed in the chassis cab.

A custom chassis console will be provided with dual drink holders. (Design upon bid award)

Comply .....YES_X_No____

3.2 WARNING DISPLAYS

A digital OLED display and audible alarm will be integrated into the cab console and programmed through the multiplex system to provide visual and audible indications for:

Outside storage compartment "door open" warnings
Module Curbside and Rear "Door Open" Warning
Low voltage alarm
System Voltage
System Errors

Comply.....YES_X_No____

3.3 VOLTMETER

The OLED display on the console will display system voltage

Comply .....YES_X_No____

3.4 CONTROL PANEL PODS BUTTONS

A console panel will be mounted in the cab and a rear panel will be mounted in the access door to the electrical service cabinet in the action area. The PODS buttons will control all Emergency Warning functions as well as being able to control the Patient Compartment lighting and module heat/ac functions.

The PODS buttons will have dimmable perimeter backlighting for easy identification and a red LED will light up when turned on.

Comply.....YES X No____

3.4.1 MODULE POWER BUTTON

A module power button for the electrical system will be provided on the front panel.

Comply.....YES X No____

3.4.2 EMERGENCY MASTER BUTTON

A single emergency master button will be supplied for activating all the emergency warning lights and will be provided on the front console panel. The emergency master button will activate the module power automatically.

Comply.....YES X No____

3.4.3 FLASHER

The flasher will be provided within and programmed by the multiplex electrical system.

Comply.....YES X No____

3.4.4 PARK OVERRIDE

A park override PODS button, located on the Front Console Panel, will reactivate all lights disabled when the transmission is placed in the neutral/park position.

Comply.....YES X No____

3.4.5 BACKUP ALARM OVERRIDE

The Front Console Panel will have a PODS button to disable the backup alarm. This override will automatically reset to "Enabled" when the vehicle is removed from Reverse.

Comply.....YES X No____

3.4.6 CURBSIDE SCENE LIGHTS "ON" WITH CURBSIDE DOOR

The curbside scene lights will be programmed to activate when the curbside door is in the open position.

Comply.....YES X No____

3.4.7 REAR SCENE LIGHTS "ON" WITH REAR DOORS OPEN

The rear scene lights will be programmed to activate when the rear doors are in the open position.

Comply .....YES X No____

3.4.8 REAR SCENES "ON" IN REVERSE

The system will be programmed to provide activation for the rear scene lights, and the rear side scene lights, when the transmission selector lever is placed into the "reverse" position.

Comply..... YES X No____

3.5 ELECTRICAL WIRING

All of the vehicle's electrical equipment will be served by circuits separate and distinct from the chassis electrical system. All circuits shall be rated to carry 125% of its maximum load. All electrical wiring will be run in grease, oil, heat and moisture resistant looming. Harnesses will be fastened with vinyl-clad clamps and grommeted at any area they contact a metal edge.

Every load carrying wire will be a minimum of 14-gauge and will be color-coded and heat embossed with its function every 6 inches. There will be at least a 6-inch service loop of wire at the point of attachment to each component. All electrical connections will be machine crimped; the use of Scotch-locks is strictly prohibited.

COMPLY? ..... YES X NO _____

3.6 GROUNDING SYSTEM

Due to the fact that most electrical problems in all 12-volt systems, but especially in emergency vehicles are due to problems with bad grounds, the body will be grounded to the chassis frame with 2 heavy duty braided grounding straps. In addition, there will be grounding straps from the engine block to the body and frame. There is to be a Major Ground Buss Bar in the electrical panel that is connected to the ground straps and frame, and then each individual circuit will have its own ground wire run to that ground buss bar. This will greatly improve the grounding of all circuits in the vehicle and insure less electrical problems.

The Weldon HC NODES shall be ground directly to the chassis batteries to eliminate any interference or possible loss of ground which would result in the shutdown of the entire NODE.

COMPLY? ..... YES X NO _____

3.7 ELECTRICAL SERVICE CABINET

The electrical service panel will be mounted in the electrical service cabinet above the action area and will be easily accessible by activating a single latch allowing the Button POD Panel section to swing down. The V-Mux Node(s) will be located in an easily accessible location in the electrical service cabinet for service technicians to perform troubleshooting and service work. This cabinet must be solely for the electrical system components with a large enough door opening to perform work on the systems completely without removing them from the cabinet.

Under no circumstances will any of the electrical systems be mounted in any exterior compartment. **NO EXCEPTIONS**

COMPLY? ..... YES X NO _____

3.8 12V DC OUTLETS

There shall be two (2) Cigar style 12V DC outlets, one located in the action area, and one above the right In/Out ALS compartment counter.

COMPLY? .....YES X NO _____

3.9 11OV AC SYSTEM

There shall be a weatherproof 11OV- 125V male Kussmall receptacle rated at 20 amps with a spring-loaded cover assembly located on the front left corner of the module body for incoming 110-volt power. This receptacle shall be labeled. It shall be wired through one 15-amp circuit breaker. A shoreline indicator will be included above the shoreline outlet. The circuit shall include (1) 110-volt/USB interior receptacle located in the action wall area, (1) one rear of the CPR seat above the rear counter, (1) one the bench wall above the In/Out countertop, (1) six outlet power strip inside the In/Out compartment and (1) in the chassis cab behind the passenger street. All outlets shall illuminate per KKK-A-1822-F.

A Vanner Inverter/Conditioner w/remote switch, Model 20-1050-CUL will be supplied

COMPLY? .....YES X NO _____

3.10 LIGHTING, EMERGENCY

The unit shall be equipped with the following warning lights:

14) Whelen 900 Series 9 x 7 red/blue split LED lights as follows:
- 6) Facing forward
- 4) Facing rearward
- 2) Facing right
- 2) Facing left

1) Whelen Series 9 x 7 clear LED light installed top center forward.
1) Whelen Series 9 x 7 amber LED light installed top center rearward.
2) Whelen 500 Series red LED lights mounted in the Front Fenders.
3) Whelen 500 Series red LED lights mounted in lower corners of entry doors.
4) Whelen 500 Series 500 red LED's in Chrome Housings in the Grill.
6) Whelen LED Strip lights installed in the rub rails. (3) per side.

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

COMPLY? .....YES X NO _____

3.11 SCENE LIGHTS

There shall be four (4) LED Whelen 900 Series 9 x 7 with 13-degree tilt built into the lenses mounted two (2) lights on the left side and two (2) lights on the right side. There shall be two (2) LED Whelen Series 9 x 7 with 13-degree tilt built into the lenses mounted on the rear. A separate switch on the driver's switch panel shall control each pair. In addition, the right side and rear scene lights shall activate when the right side or rear doors, respectfully, are open.

COMPLY? .....YES X NO _____

3.12 DOOR SWITCHING

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

COMPLY? .....YES_X_ NO _____

3.13 SIREN AND SPEAKERS

Two (2) - Sirens shall be installed Whelen Model 295 SL SA-1 with Wail, Yelp, Hi/Lo and Phaser sounds, the second siren may be switch controlled with wail/yelp. Dual Cast Products Siren Speakers shall be mounted outboard in the face of the Chrome Front Bumper, below the Headlights, in cast aluminum housings. One speaker per siren.

COMPLY? .....YES_X_ NO _____

3.14 SPOTLIGHT

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

COMPLY? .....YES_____ NO _X_

3.15 LIGHTS, PATIENT COMPARTMENT

The ceiling headliner shall contain eight (9) Whelen High - Low intensity LED dome lights. The left and right banks of lights shall be switched separately. In addition, the left bank high mode can be switched from the drivers switch panel and will be activated by opening of the side or rear entry doors. There shall be a timer switch installed in the right wall above the In/Out cabinet countertop. The timer switch will allow the left bank of Dome Lights to turn on even when the master switch is in the off position.

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

COMPLY? .....YES_X_ NO _____

3.16 CLOCK, PATIENT COMPARTMENT

A battery-powered Atomic Digital Clock w/Indoor Temp. & Date. 12/24 Hour display, Automatic updates for time (including DST), month, day, date Calendar.

COMPLY? .....YES_X_ NO _____

3.17 SUCTION - ON BOARD

An SSCOR/Board On Board suction system with an Impact E-12 Suction Pump shall be provided and mounted on the back wall above the action area counter top just forward of the CPR Seat.

COMPLY? .....YES_X_ NO _____

3.18 VENTILATION

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

COMPLY? .....YES_X_ NO _____

3.18 a AIR HORNS

Buell air horns with (2) mounted trumpets, air compressor, and air reserve tank. Air horn activated by rocker switch on the console. Trumpet location to be determined with award.

3.19 LOW VOLTAGE ALARM

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

COMPLY? .....YES X NO _____

3.20 SWITCH CONSOLE, DRIVER'S

There shall be a switch console mounted in the center of the cab floor between the seats in such a way as to not interfere with access to the dash yet easily accessible to the driver. The console shall be easily removable to allow access for service. There shall be space provided for the installation of radios below the Weldon V-Mux Switch Panel. The switch panel shall be esthetically appealing and incorporate as follows:

Top Row:
"E" Master Switch / Primary/Secondary / Light Bar / Heat - AC / Patient Domes / Mod Power

Second Row:
"OLED" Display Screen / Back up Alarm Disable / Voltage Alarm Disable

Third Row:
Door Ajar Light / Compartment Ajar Light

Bottom Row:
Emitter / Siren - Horn / Left Scenes / Rear Scenes / Right Scenes

COMPLY? .....YES X NO _____

3.20.1 SWITCH CONSOLE, PATIENT COMPARTMENT

There shall be (2) rear control panels in the patient compartment. (1) one in the action area, (1) one on the bench wall. The following switches shall be in the rear control panel, which shall be hinged for easy access to components. They shall be mounted in a double row at an angle facing the center of the cot and the squad bench.

Top Row:
Mod Power / Left Domes / Right Domes / O2 Light / Attendant Light

Bottom Row:
Inverter / Suction / Exhaust Fan / HVAC Fan Speeds / Heat - AC

COMPLY? .....YES X NO _____

All switches in front and rear panels shall be Weldon Button Pod switches that are permanently marked by function, illuminate when activated and backlit for night visibility.

COMPLY? .....YES X NO _____

4.0 PATIENT COMPARTMENT

4.1 FLOOR, PATIENT COMPARTMENT

The sub floor shall consist of .090" thick 3003 H14 corrosion resistant aluminum sealed watertight. Over the aluminum sub-floor there shall be a sheet of ¾", 13 ply, exterior grade plywood that is caulked and sealed.

COMPLY? .....YES X NO _____

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

COMPLY? .....YES X NO _____

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

COMPLY? .....YES X NO _____

4.2. CABINET'S, INTERIOR

All interior cabinets shall be built using ¾" cabinet grade, finished both sides, 7 ply, solid core, birch plywood. The use of plywood of any lesser quality or thickness is strictly prohibited.

COMPLY? .....YES X NO _____

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

COMPLY? .....YES X NO _____

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

Interior cabinets to be lighted with On/Off switch in control panels.

COMPLY? .....YES X NO _____

4.2.1 CABINETS, LEFT WALL

Cabinets shall be designed as per drawings with a one-piece molded Fiberglass countertop for the attendant in the action area and rear of the CPR seat. Storage cabinets shall be located in the left rear, above the CPR seat, and above the action area. The cabinet above the action area will have the same angle front to back as the cabinet with the switch panel. Cabinets fore and aft of the CPR seat to be angled. (2) Two cabinet to have tilt up speed load cabinet windows. Track type adjustable shelving in interior cabinets.

(2) Two pull out drawers for general storage installed fore and aft of the CPR seat. (1) 20" W x 7" T forward of the CPR seat and (1) 20" W x 4" T rear of CPR seat.

COMPLY? .....YES X NO _____

The action wall shall house the technician's console, two oxygen outlets, vacuum outlet, aspirator collection bottle, climate control thermostat and fan control, one 12-volt connection and one lighted 11OV/USB duplex outlet. The upper action wall area shall be hinged for ease of access. The action area counter to be extended to 73".

A locking narcotics cabinet will be installed in the action area

COMPLY? .....YES_____NO X

4.2.2 BULKHEAD CABINETS

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

The bulkhead shall incorporate a pass-through Plexiglas sliding window from the rear patient compartment to the front cab. This window shall be sealed and weatherproof via a flexible rubber boot connection between the cab and the modular body.

COMPLY? .....YES X NO X

4.2.3 SQUAD BENCH CABINETS

Cabinets shall be mounted at the ceiling level directly over the entire length of the squad bench. They shall have "flip-up" Plexiglas doors. There must be a minimum of 43" from the bottom of these cabinets to the top of the squad bench. An angled switch panel shall be installed forward of the bench. A 26" W x 14" T X 21" D cabinet with a tip up door and Southco latch will be installed above the In/Out cabinet.

A (4) slot glove storage will be installed above the side entry door.

A custom In/Out cabinet will be installed forward of the squad bench, it shall include a fiberglass counter top, adjustable shelf and a slid-out drawer that slids toward the rear.

COMPLY? .....YES X NO _____

4.2.4 SQUAD BENCH

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

COMPLY? .....YES_____NO X

4.3 SEAT, EMT / ATTENDANT

An attendant seat shall be located at the head of the primary cot. It shall be a high back deluxe seamless vinyl captain's chair with an integrated child safety seat mounted on a swivel base as approved by the seat manufacturer. Seat belt shall be included for attendant safety.

COMPLY? .....YES X NO _____

4.3.1 CPR Seat Cabinet

A single cabinet shall be mounted at the ceiling level directly over the entire length of the CPR seat. It shall have a "flip-up" style Plexiglas door. There must be a minimum of 43" from the bottom of this cabinet to the top of the CPR seat cushion.

COMPLY? .....YES X NO _____

4.3.2 SEAT, CPR

A sidewall seat will be mounted in the center of the left wall. This seat will be comprised of three molded/contoured seamless vacuum formed vinyl cushions. A seat belt shall be provided for attendant safety. Cushions shall be vacuum-formed seamless. One-inch cushions shall be installed on three sides of head area.

COMPLY? .....YES X NO _____

4.4 UPHOLSTERY

All door panels, seat cushions, and protective pads shall be constructed of fire-retardant foam, covered with minimum 40-ounce vinyl. All seat and back cushions in the patient compartment shall be vacuum-formed seamless.

COMPLY? .....YES X NO _____

4.5 HEADLINER

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

COMPLY? .....YES _____ NO X

4.6 PANELING, INTERIOR

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

COMPLY? .....YES X NO _____

4.7 GRAB RAIL, OVERHEAD

A full-length yellow handicap style 1 1/2" diameter grab rail shall be installed on patient compartment ceiling. This rail shall be capable of supporting a minimum of 300 pounds. This Rail shall be treated with Agion Anti-Bacterial Coating.

COMPLY? .....YES X NO _____

4.8 GRAB HANDLES, DOORS

All entry doors will have a matching yellow heavy-duty stainless-steel handicap style 1 1/2" "V" bar grab handle that will be securely mounted slightly below the window. These Bars shall be treated with Agion Anti-Bacterial Coating.

A yellow 12" grab bar will be installed inside of the side entry and rear doors to allow ease of entry.

COMPLY? .....YES X NO _____

4.9 STAINLESS STEEL WALL

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

COMPLY? .....YES X NO _____

4.10 COT MOUNT

A Stryker floor plate shall be installed. A Stryker Mass casualty kit, Antlers and cot latch will be supplied.

COMPLY? .....YES X NO _____

4.11 INSULATION

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

COMPLY? .....YES X NO _____

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

COMPLY? .....YES X NO _____

4.12 CLIMATE CONTROL

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

COMPLY? .....YES_____NO X

The unit shall be a Pro-Air with 32,000 BTU cooling capacity and a 35,000 BTU heating capacity. The blower motor shall have permanent magnets and be capable of delivering 630 CFM of airflow. It must be removable without removing entire heat/cool unit and without disconnection of any coolant lines. The unit must include an auxiliary HVAC underskirt condenser. **NO EXCEPTIONS**

COMPLY? .....YES_____NO X

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

COMPLY? .....YES X NO _____

4.13 SHARP'S CONTAINER

Drop-in Sharp's/Waste access will be installed at the head of the bench with access to containers through a swing out door under the bench lid for ease of replacing.

COMPLY?..... YES_____NO X

4.13 a ADU UV-C AIR AND SURFACE DISINFECTION LAMP

SHALL BE RECESSED MOUNTED IN THE CEILING HEADLINER WITH CONTROLS MOUNTED IN THE CAB OF THE AMBULANCE.

4.14 OXYGEN OUTLETS

Oxygen system shall be plumbed with conductive hose from oxygen compartment to (2) two Puritan-Bennett Ohio style oxygen outlets in the action area, (2) two in the ceiling above the cot and a third over the In/out counter on the bench wall.

COMPLY? .....YES X NO _____

5.0 EXTERIOR BODY

5.1 REAR WHEEL WELL TRIM

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

COMPLY? .....YES X NO _____

5.2 RUB RAILS

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

COMPLY? .....YES X NO _____

5.3 BUMPER, REAR STEP

The rear step assembly shall be constructed of 1 ¾" X 1 3/4" tubular steel frame bolted to the chassis frame. The center section shall be non-skid grip strut aluminum and shall "Flip-Up" to allow adequate clearance of the Cot Wheels while Cot is being loaded. The ends shall be constructed of diamond plate end caps with 18" X 4" X 4" heavy-duty rubber dock bumpers.

COMPLY? .....YES X NO _____

5.4 DOORSTEP, SIDE

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

COMPLY? .....YES X NO _____

5.5 STONE SHIELDS

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

COMPLY? .....YES X NO _____

5.6 EXTERIOR COMPARTMENT CONFIGURATION

NOTE: See Drawings for Exact Compartment Location and Dimensions

#1 OXYGEN / BACKBOARD COMPARTMENT

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

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

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

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

COMPLY? .....YES__X__ NO _____

#2 GENERAL STORAGE COMPARTMENT

This compartment shall be located street side between the #1 compartment and the left side drive wheels and is to be used for general storage. There is to be a double door on this compartment.

There shall be a full width, full depth aluminum "pan" style storage shelf installed in the compartment. The shelf is to be mounted on two (2) sets of infinitely adjustable uni-strut tracks at each end of the shelf with rubber matting covering the topside of the shelf.

COMPLY? .....YES__X__ NO _____

#4 SPARE TIRE COMPARTMENT

The spare tire shall not be mounted in a compartment but delivered with the truck. The cabinet shall have an adjustable shelf centered in the cabinet for general storage.

COMPLY? .....YES__X__ NO _____

#5 CURBSIDE BACKBOARD COMPARTMENT

The right rear curb side exterior compartment shall be a single door full height vertical compartment for the purpose of storing a minimum of two (2) backboards, and miscellaneous other related equipment. The compartment is to be divided equally with an aluminum divider. There shall be a shelf located on the forward side of the divider approximately 5' above the floor. This compartment to have In/Out Access through a 3/8" plexi door.

COMPLY? .....YES X NO _____

#7 ALS IN/OUT ACCESS

There shall be a single 49" tall x 29" W door located just rear of the side entry door (curbside) allowing for In/Out access to the ALS interior cabinet.

COMPLY? .....YES X NO _____

5.7 LIGHTING, DOT

The vehicle shall be equipped with jewel affect daytime running headlights and two amber park/turn lights on the front. The Module Body shall have at least 11 Innovative Brand LED clearance lights with "each light having four (2) LED's and grounded via a ground wire". Each top front corner shall have amber lights mounted on the front and side of each corner.

There shall be three red lights at the top rear center of the module. Each top rear corner shall have red lights mounted on the rear and side of each corner. There shall be three amber lights mounted on the center front of the cab roof.

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

All lights shall be as per I.C.C. requirements.

COMPLY? .....YES X NO _____

6.0 BODY FINISH

6.1 PAINTING PROCEDURE

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

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

COMPLY? .....YES X NO X

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

COMPLY? .....YES X NO X

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

COMPLY? .....YES X NO X

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

COMPLY? .....YES X NO X

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

COMPLY? .....YES X NO X

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

COMPLY? .....YES X NO _

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

COMPLY? .....YES X NO _____

6.2 PAINT & GRAPHICS DESIGN

The unit is to match the paint and graphics of the current Independence Fire Department fleet.

Chevrons will be included on smooth aluminum plates to the lower portion of the module entry doors.

COMPLY? .....YES X NO _____

7.0 PAYLOAD

7.1 PAYLOAD

There shall be a minimum of 5,000 lbs. of usable payload. Weight determination shall be made with standard unit, full complement of fuel, fluids and spare tire. Any optional equipment shall be deducted from payload.

COMPLY? .....YES X NO _____

8.0 MISCELLANEOUS EQUIPMENT

8.1 DECALS, NO SMOKING & OXYGEN EQUIPPED

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

COMPLY? .....YES X NO _____

8.2 I.V. HOLDERS

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

COMPLY? .....YES Y NO _____

8.3 ANTENNA, POWER & GROUND PRE-WIRE

(3) two pre-wire antenna coaxial cables delivered to the drivers switch console. There shall be a raceway provided to be able to run radio cable from the cab to the patient compartment. (3) NMO style antenna mounts will be installed in the module roof.

(3) Power and grounds will be installed for power of two-way radios.

COMPLY? .....YES Y NO _____

8.4 WIRING SCHEMATIC

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

COMPLY? .....YES Y NO _____

STEREO SPEAKERS

Stereo Speakers will be installed in the rear area of the headliner tied into the factory chassis stereo system with a volume control installed in the action area.

COMPLY? .....YES Y NO _____

9.0 WARRANTY

9.1 WARRANTY COVERAGE (See Warranty Certificate for Details)

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

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

COMPLY? .....YES Y NO _____

10.0 REQUIREMENTS OF THE MANUFACTURER

10.1 KKK-A-1822-F CERTIFICATION

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

COMPLY? .....YES Y NO _____

10.2 FORD QVM PROGRAM

This unit shall meet all Ford QVM Program requirements and the manufacturer shall be a current member in good standing of the Ford QVM Program.

COMPLY? .....YES Y NO _____

10.3 AMD / NTEA MEMBERSHIP

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

COMPLY? ..... YES X NO _____

10.4 REMOUNTING AND REFURBISHING

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

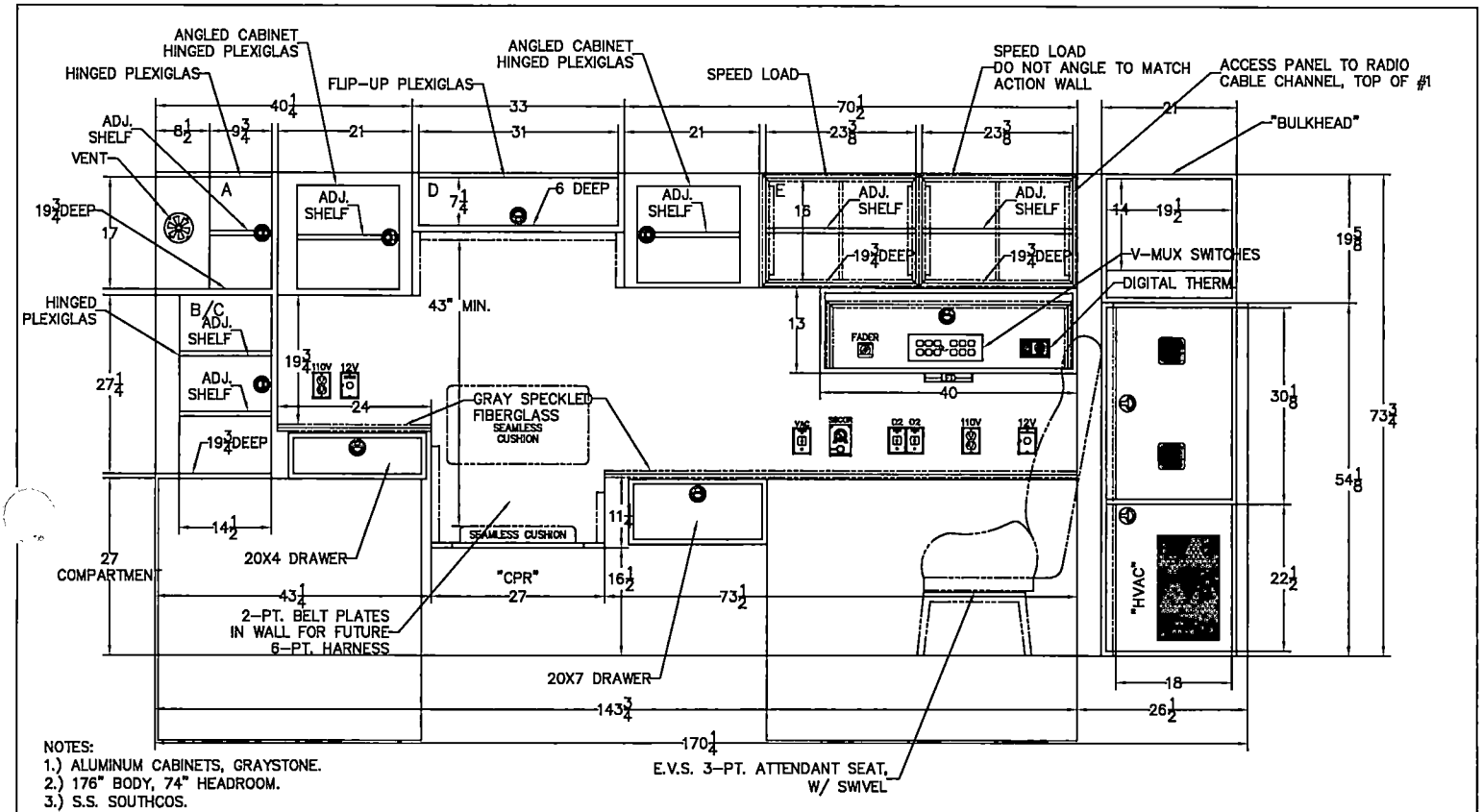
COMPLY? ..... YES X NO _____

10.5 FORD POOL ACCOUNT PROGRAM

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

COMPLY? ..... YES X NO _____

POSITIVELY NO EXCEPTIONS ALLOWED TO SECTION'S 9.1 THROUGH 10.5



NOTES:
1.) ALUMINUM CABINETS, GRAYSTONE.
2.) 176" BODY, 74" HEADROOM.
3.) S.S. SOUTHCOS.
4.) LED STRIP-LIGHTS IN ALL CABINETS.

NOTES: THIS DRAWING IS NOT TO SCALE.
CHARACTERISTICS AND DIMENSIONS OF FINISHED PRODUCT MAY VARY.

NOTES: CABINET DEPTHS REPRESENT DIMENSION FROM INSIDE REAR TO FRONT FACE OF CABINETS, WITHOUT TRIM. ACTUAL WORKING DEPTH WILL BE LESS THAN DIMENSION SHOWN UNLESS OTHERWISE SPECIFIED.

Stock/Job#:	Drawing#	Cust. App'v/Date#	Deal'r App'v/Date:
J2851	J2851-101		

Osage Dealer: E.S.S.

End Customer: MO DEMO

Osage Industries, Inc.
TWIN RIDGE ROAD P.O. BOX 718 LINN, MO. 65051

Drawn By:	Date:	Scale:
S.A.H.	10-21-19	NOT TO SCALE

Drawing Description: STREETSIDE INTERIOR TYPE-I SUPER-WARRIOR

Revision# 1

Rev.#	Revision Description	Date	Rev'd	App'vd
3				
2	REVISION DRAFT	08-06-20	SAH	
1	PRODUCTION DRAFT	10-21-19	SAH	.

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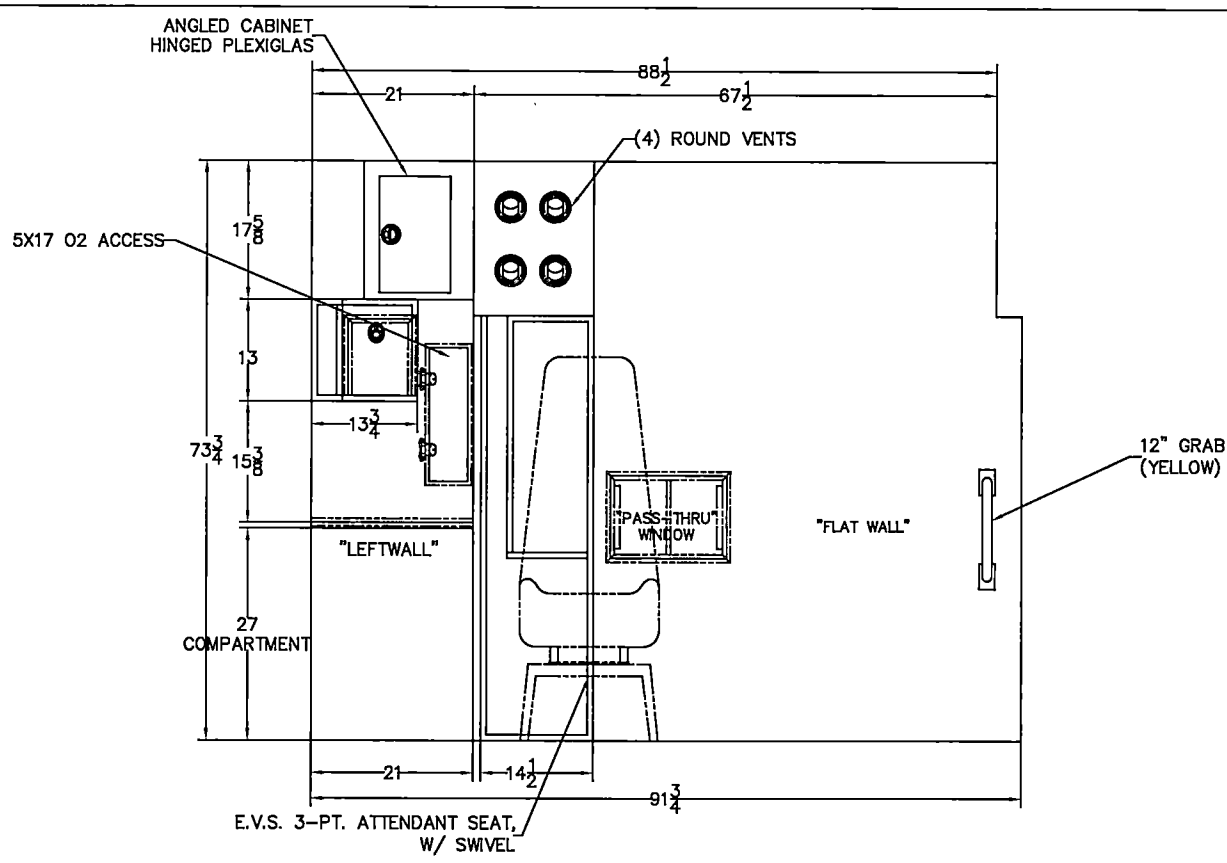

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Rev.#	Revision Description	Date	Rev'd	App'vd
3				
2				
1	PRODUCTION DRAFT	10-21-19	SAH	.

Stock/Job#:	Drawing#	Cust. App'v/Date#	Deal'r App'v/Date:
J2851	J2851-102		

Osage Dealer: E.S.S.
End Customer: MO DEMO

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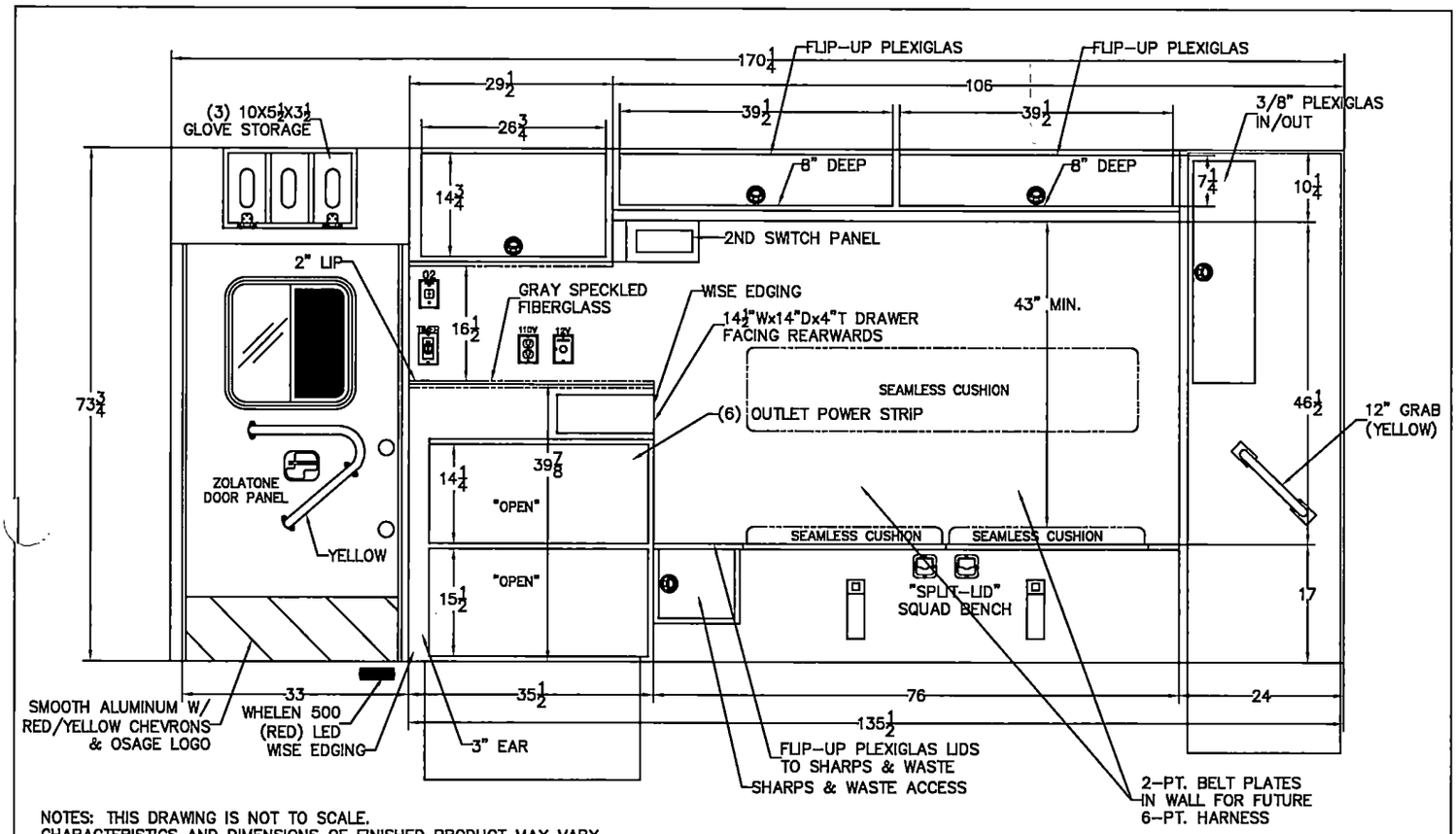
Drawing Description:
FORWARD INTERIOR
TYPE-I SUPER-WARRIOR

Revision#: 1



NOTES: THIS DRAWING IS NOT TO SCALE.
CHARACTERISTICS AND DIMENSIONS OF FINISHED PRODUCT MAY VARY.

NOTES: CABINET DEPTHS REPRESENT DIMENSION FROM INSIDE REAR TO FRONT FACE OF CABINETS, WITHOUT TRIM. ACTUAL WORKING DEPTH WILL BE LESS THAN DIMENSION SHOWN UNLESS OTHERWISE SPECIFIED.

Rev.#	Revision Description	Date	Rev'd	App'vd
3				
2	REVISION DRAFT	08-06-20	SAH	
1	PRODUCTION DRAFT	10-21-19	SAH	.

Stock/Job#: J2851	Drawing# J2851-103	Cust. App'v/Date#	Deal'r App'v/Date:
Osage Dealer: E.S.S.	Osage Industries, Inc.		
End Customer: MO DEMO	TWIN RIDGE ROAD P.O. BOX 718 LINN, MO. 65051		
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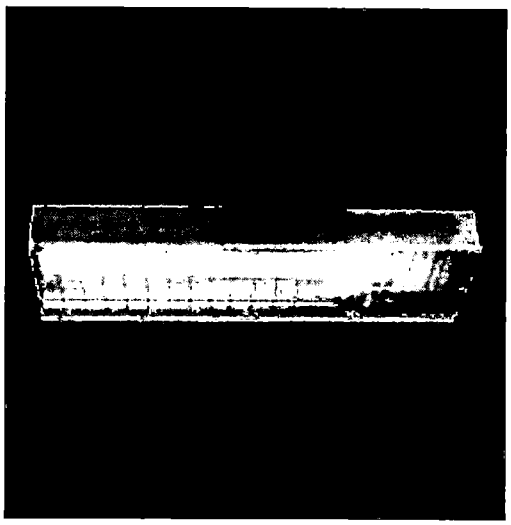
EvergreenUV
Environmental Disinfection

ADU-136-PB
UV-C Air & Surface Disinfection Lamp

Advanced High Level Disinfection for EMS - Protects Crews & Patients



A NAEMT survey of 1,356 Medics published in EMS World reported that 50% have been exposed to an infectious disease and 21% have contracted an illness from a patient.

Kills CoVid-19 Coronavirus to 99.9999% in Under 2 Minutes

The ADU-136 has powerful high UV-C germicidal output and can be recess or surface mounted and kills CoVid-19 Coronavirus in just seconds.

Kills CoVid-19, C.diff, MRSA and
all known bacteria, virus, mold, protozoa and yeast.

The ADU-136 Delivers Safe Rapid Disinfection:

UV-C is a natural disinfectant and requires NO dissipation time.

No chemicals, ozone, aerosols, vapors, toxins or out-gassing.

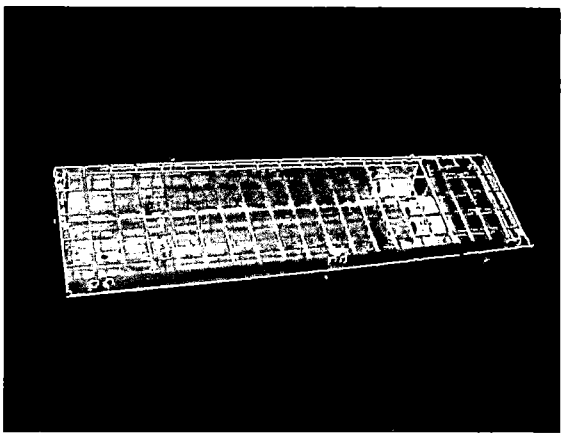
Meets the Required EPA Code and Made in the USA.

Distributed by: EA Medical, LLC • 800-339-9393 • uvc@eamed.com
www.eamed.com • 10541 State Highway 81 • Canton, MO 63435

EvergreenUV
Environmental Disinfection

ADU-136-PB
UV-C Air & Surface Disinfection Lamp

Advanced High Level Disinfection for EMS - Protects Crews & Patients



ADU-136-PB Features and Specifications:

- **Can be factory installed in new ambulances and in remounts.** Recess or surface mounting options.
- Rugged Stainless Steel and Aluminum construction with Welded-Wire protective cage over bulb.
- **Mirror aluminum specular reflectors for increased UV efficiency.**
- **9000 hour lamp life.** Philips Germicidal Sterilamp® twin-tube bulb for reliable lamp availability and cost efficient replacement, TUV 36W, has no more than 4.5 mg mercury.
- ADU-136 features one (1) 36W Philips Chill-Corrected Germicidal UV Lamp providing 30 linear inches of UV-C tubing for maximum UV-C power and time efficiency.
- **All new digital front facing push button control box with built-in delayed-start timer** can be mounted in the crew cab or back of ambulance, or in a closed panel box outside the ambulance.
- **Rated UV-C energy output 145 µW/cm² per second; 8,700 µW/cm² per minute @1 meter.**
- 120V AC 60 Hz operation through on-board power inverter or land-line access. Nominal electrical output 36 watts. Draws .78 amps @ 120 volts ac.
- Dimensions: Light fixture 20-3/8" (length) x 5-1/4" (width) x 2-1/2" (depth)
  Control box 7" (width) x 5" (height) x 3" (depth)
- **Made in the USA by Evergreen UV LLC, EPA Establishment No.91347-TN-001.** (Lumalier by Evergreen UV LLC)
- Warranty - Ballast has a 5 year non-prorated warranty. Lamp has a 1 year warranty against manufacturing defects.

This UV-C disinfection lamp is designed for use in UNOCCUPIED spaces.
UV-C can cause temporary damage and discomfort to unprotected skin and eyes.

ADU-136-PB (rev.061720). Specifications subject to change without notice.

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Exceptions and Clarifications

Pg 8 – 2.1 Exterior Dimensions – our standard size is 95" – we can build 96" in width for an additional $1500.00

Pg 10 – 2.4 (third paragraph) – I have included literature on the construction of our bodies along with our crash test. We use VHB tape along with welds. We use a single piece of .125 aluminum on all sides. Wheeled Coach and REV produce around 1600 ambulances a year, the use of this VHB tape along with our welds produces smooth, tight sides that allow our bodies to be remounted many times. We do not use adhesive. Here is the link that shows how well our bodies handle a side impact roll over. https://www.youtube.com/watch?v=9VtGqxz1EY4

Pg 18 – 3.14 Spotlight – Wheeled Coach offers a 200,000 candlepower spotlight, if you would prefer more, we offer a 750,000 for $165.00 more

Pg 21 – 4.2.1 Action area length – the length of the action area is 62.75" in length.

Locking narcotics box – this can be located on any cabinet – we have chosen it on angled L1.

Pg 21 – 4.2.3 (first paragraph) Stainless Steel Squad Bench – Building the squad bench in stainless steel will not pass engineering due to weight distribution and safety. We can build all the interior out of aluminum and paint it if you would prefer (all cabinets and squad bench) at a cost of $9500.00

Pg 22 – 4.5 Headliner – our headliner has a continuous hinge that runs the length of our trough. This opens and allows for easy access into the wiring harness, it is made out of PVC and it not able to be padded. See photos. We do offer a LED lighting feature for the sides of the trough the runs around $675.00, it is available in all white, white or blue, and red or blue, it also has 2 levels of light.

Pg 23 ADU UV-C Air and Surface Disinfection Light – Wheeled Coach uses Hoseline's UV light that is inside our HVAC unit and purifies all air as it passes through the light.

Pg 40 – Patient Compartment Climate – we use 12V Free Flow HVAC System and it is located at the ceiling level behind the attendant seat and above the pass thru. We do not locate vents near the floor due to bodily fluids and the cleanability of the ambulance along with keeping the HVAC clean and dry. Our HVAC is a free flow system that cools and heats within 30 seconds operating at 37,000 BTUs. We have the option to have ducts or no ducts.

Pg 46 – Paint – Our paint process is the same but we use Sikkens brand Paint at Wheeled Coach and for all REV Fire and Ambulance Apparatus'. We have a 5-year warranty on our paint, please review the coverage in the warranty section, it is quite extensive in coverage. There is an option to go non prorated at $12,000.00 but we have not needed this in the last 11 year we have personally been the Wheeled Coach dealer– the Sikkens paint is incredible! It allows us to remount many times!

We have also included the literature on our CoolBar – it is an option to add on your unit, provides a clean, attractive cover for the condenser. We have our newest demo coming in early April, if you would like to see it, please let us know and we will bring it to you.

FELD FIRE™

"We've got you covered."

Short Form Specifications

Wheeled Coach®

REV GROUP

QUOTATION

Feld Fire

Independence Fire Dept
Lacey Lies
811 W. Laurel Street
Independence, KS 67301

Independence Fire Dept
Lacey Lies
811 W. Laurel Street
Independence, KS 67301

Quote No: 10220-0001
T1 - 170: 210160 STD Model: Type 1 Ford - 170"Module - #1170F
T1 - 170: 0990032STL Ford, F-550,193"WB,4x4, XLT, 170" , #1170F
T1 - 170: 200011 STD Type 1 Ford - 170" Module - #1170F

02/15/2021

PART NO	S	DESCRIPTION	QTY	ID
		== Ford, F-550,193"WB,4x4, XLT, 170" , #1170F - 621.033 01/04/21 ==	**1**	**WC**
		PROPOSAL TYPES	**1**	**WC**
00-02-0100		RFP - Request for Proposal A request for proposal (RFP) is issued at an early stage in a procurement process, where an invitation is presented for suppliers, often through a bidding process, to submit a proposal on a specific commodity or service. The RFP process brings structure to the procurement decision and is meant to allow the risks and benefits to be identified clearly up front	1	WC
00-02-0800		Other (Not Applicable)	1	WC
		CHASSIS:	**1**	**WC**
00-10-6167		Ford, 2021 F-550, 4x4 XLT, 6.7L 193" WB, 18,000GVW 2021-1 193" wheelbase Autothrottle OEM Ford Alternator OEM Ford Mirrors, OEM, Heated/Remote Cab seats OEM Captains chairs(no armrests) New for 2020- Sync 3 -Enhanced voice recognition communication and entertainment system - 8" LCD Capacitive Touchscreen in center stack w/swipe Capability - Pinch to Zoom capability -AppLink - 911 assist - Apple carPlay and Andriod Auto - Smart-charging USB-C Ports (2) Audible Lane Departure Warnings (Reqs- Pre-Collision assist w/Automatic Emergency Braking and Forward Collision Warning)	1	WC

PART NO	S	DESCRIPTION	QTY	ID
00-91-0000		Domestic Chassis	1	WC
05-00-0250		Conversion, BOM, Type 1, 170 Module, F550 4x4 21-1	1	WC
		Includes Liquid Spring Rear Suspension		
		CAB TO MODULE MOUNTING:	**1**	**WC**
10-10-1001		Bellows, Passthru, Unigrip, F1 2008+, Std	1	WC
		With Aluminum cab insert.		
		CHASSIS ADD-ONS:	**1**	**WC**
1A-10-0050		Wheeled Coach Stainless Grille Logo, with reflective backing Specify blue reflective or Red reflective behind cut out.	1	WC
1F-30-7556		Rear Suspension - Liquid Spring- 2017+ F550, 18k GVWR, 4x4 Dump Feature activated by the Left rear access door. Override switch to be on right rear entry door Ignition switch Hot, Standard.	1	WC
		Per KKK, the rear suspension shall only lower the module when the vehicle is in park and the parking brake is set.		
1F-30-9000		Switch, (1), Momentary, Dump to be on right rear entry door.	1	WC
2F-71-7103		Cab Flooring, Black Rubber, 2009+, F350/450, OEM	1	WC
		HEATING/AIR CONDITIONING:	**1**	**WC**
5U-10-SR01	X	Evergreen ADU-136-pb unit Evergreen ADU-136-PB installed in the ceiling with controls in the cab - We do not use this product but do offer a UV light that is installed through our HVAC unit that purifies the air as blows out into the patient mod. The air passes through the UV light.	1	
5U-10-SR02	X	Hoseline UV Light inside HVAC Wheeled Coach UV lighting package	1	
5U-12-5000		Hoses, Heater, No Max, to Rear, STD	1	WC
5U-70-0136		Heat/AC, F1, 2011+, Pureair, w/Top Mount Cond (new code)	1	WC
		with thermostat in action area		
		External condenser mounted on front of module With painted condenser bracket. Specify paint code _____		

PART NO	S	DESCRIPTION	QTY	ID
5U-80-3020		Air Conditioning Face Plate, Brushed Stainless Steel with Logo	1	WC
5U-90-1165		Heat/Air Conditioner Located Center over WT/PT, ILOS	1	WC
		HVAC evaporator relocated to front		
		bulkhead above the pass thru/walk Thru		
5U-92-1050	X	CM5000 dual thermostats	1	
		BATTERY SWITCHES:	**1**	**WC**
60-22-1030		Battery Sw, 5min Timer, F1, Fig 5B, Batt under Hood	1	WC
		Activated thru OEM ignition switch timer function upon		
		ignition "off".		
		Momentary rocker switch, on driver's side of cab console,		
		to function as timer shutoff and also reactivate timer.		
		(2) OEM batteries under hood		
		ONLY Module power is turned on/off.		
		Chassis power is NOT turned off.		
		CONSOLES:	**1**	**WC**
7U-10-0602		Console, Center, Pass-thru, Mica Finish, F1, CN11	1	WC
7U-10-7000		Console, A/A, Wood, Angled	1	WC
7U-10-SR01	X	custom console with drink holders	1	
		SR# 221127F		
		BULKHEAD CABINET:	**1**	**WC**
TF-50-1000		Bulkhead, Unigrip, Pass Thru,153/170x67, Ford	1	WC
		With Sliding Lexan Pass-thru Window		
		WHEELCOVERS:	**1**	**WC**
X5-10-3901		Covers,Wheel,Phoenix,F450,4X2/4x4,1153/1170	1	WC
		with Air Max Valve Extenders, std		
		== Type 1 Ford - 170" Module - #1170F - 621.033 01/04/21 ==	**1**	**WC**
00-05-0100		This unit built in accordance with KKK-A1822-F CN 10 cabinetry	1	WC
		Requirements		
		This unit as specified meets all requirements of KKK-A1822-F Change notice		
		10.		
		All cabinets shall be labeled as to their capacity Rating.		
35-05-0055		Type 1 - 170" Module - Standard Model Series	1	WC
35-05-0060		Type 1 - 170" Module General Body Construction Spec	1	WC
35-05-0065		Type 1 - 170" Module Vehicle Body Structure Spec	1	WC
35-05-2000		INTERIOR CABINETS -Duralite Construction, Wood, CN10	1	WC
		compliant		
		All cabinets shall be labeled with their Rated Weight Capacity.		

PART NO	S	DESCRIPTION	QTY	ID
		MODULE BODIES:	**1**	**WC**
35-10-0068		Aisle Space, 50 inches, STD, Type 1, Std Model Only (49-50" actual)	1	WC
		Requires stainless steel wheelwell covers attached to squad bench and basewall cabts that will protrude up to 1.5" into aisleway on each side.		
35-10-0320		Module Skins, 0.125 inch	1	WC
35-10-0502		Headroom, 72 in. Type 1 - 170" module, #1170F/D	1	WC
35-10-0502	X	Headroom, 74in. Type 1 - 170" module, #1170F/D SR# 221127F	1	
35-10-0990		Add Dogleg in Compt "E" for Recessed Suction in Face of A/A	1	WC
35-11-0200		Drop Skirt, 4 inches forward of rear wheels, Both sides	1	WC
35-12-0150		Curbside Entry Door, Moved forward of Compartment "A" "Must use 5x10 sheet to eliminate seams in Bulkhead"	1	WC
37-00-0350		Coating, Polyurethane, Per compartment (1) Each light gray	6	WC
37-00-0360		Coating, Polyurethane, Rear Bumper Supports	1	WC
37-00-0425		Compartments, .125 Aluminum ILOS	1	WC
		Machine stamped louvers located above the floor line for venting.		
37-00-0600		Compartments, Sweepout - Compartments "A" & "F" are standard sweep out	6	WC
37-00-0710		Duraseam Doors, with Hidden Jambs - Magnetic door switches, Standard	1	WC
39-A0-0478		A, Compt, Single 1/2 Ht Door,Aft of CS Door Forward, 72" HR,	1	WC
39-B1-0155		B1, Compt, Std, 170" Module, 72" HR, #1170F/D	1	WC
39-B1-SR01	X	delete B1	1	
39-B2-0177		B2, Compt, Std, 170" Module, 72"H.R, #1170F/D	1	WC
39-D0-0355		D, Compt, 3/4, 170" Module, 72" H.R, #1170F/D With Double Doors	1	WC
39-E0-0105		E, Compt, Std, 170" Module, #1170F/D With Double Doors	1	WC
39-F0-0305		F, Compt, Std, Full Height, 170" Module, 72" H.R, #1170F/D	1	WC
39-F0-0610		Without Dogleg for Stairchair in Compt "F"	1	WC
		FUEL FILL HOUSING:	**1**	**WC**

PART NO	S	DESCRIPTION	QTY	ID
3A-10-1000		Housing, Fuel Fill, Cast, F1/C1/D1/M2	1	WC
		EXTERIOR DIVIDERS:	**1**	**WC**
3F-10-1101		Divider, Vertical, B2, 3/16" Thick, Recessed Adj Track,Std Model only	1	WC
		(divider to be full depth if a shelf is requested) - shelf is requested and located at 5' off floor		
		compt "B2", centered.		
3F-10-1500		Divider, Vertical, (1), LF, O2 Height	1	WC
		SHELF- COMPARTMENT "A"/RF CABINET:	**1**	**WC**
3F-20-1000		Shelf, Adjustable,(1), RF Cabt Custom	1	WC
		(1) RF Compt "A"/cabt "E1" area, centered.		
		(change to cabt "E2" for Pureair 1 cabt)		
3F-30-1000		Shelf, Custom, Adj, Cmpt "B", (1)	1	WC
		located forward of divider		
		SHELF- COMPARTMENT "D":	**1**	**WC**
3F-40-3001		Shelf, Custom, Adj, Cmpt "D", (1), Std Model only	1	WC
		at bottom of cabt "H" inside/outside access opening.		
		SHELF- COMPARTMENT "E":	**1**	**WC**
3F-50-0100		Shelf, Fixed, Cmpt E, for Electrical storage, w/ Divider	1	WC
		Area to right of divider will be used for bio-waste in A/A if selected. If no bio-waste, area to be left open for addt'l customer storage.		
3F-50-2000		Shelf, Custom, Adj, Cmpt "E", (1)	1	WC
		WINDOWS:	**1**	**WC**
3P-10-5201		Window,Upper,CS/Slider,Rr/Fixed,Priv Tint,PAN,Std Model only	1	WC
		MODULE ENTRY DOOR HANDLES:	**1**	**WC**
3U-30-8000		Handles, Patient Entry, Trimark Black/Chrome "SafePass" STD	1	WC
		EXTERIOR COMPT DOOR HANDLES:	**1**	**WC**
3U-40-0510		Handle, Module Compt, Trimark, Black/Chrome, STD	6	WC
3U-40-0514		Latch, Paddle, Trimark, For Trailing Door	1	WC
		compts "D" &/or "E"		
3U-60-0100		ELECTRIC DOOR LOCK PACKAGE OPTIONS: Click to add	1	WC
3U-60-0500		Circuit, OEM Door Lock to activate Mod Doors(not Dodge)	1	WC
3U-60-1390		Door Locks,Electric, Trimark, (1)DOOR, Entry Door	2	WC
		Module entry doors.		
3U-60-1400		Door Locks,Electric, Trimark, (1)DOOR, Compt Door	6	WC
		All module compts(except battery compt) .		
		(unless other specified)		

PART NO	S	DESCRIPTION	QTY	ID
		ELECTRICAL LOCKS SWITCHING:	**1**	**WC**
3U-60-1500		Switch,Momentary Rocker,Activate Elect Door Locks	1	WC
		Installed on C/S wall at head of S/B. (unless otherwise specified)		
3U-60-1900		Switch, Stealth, Cab Doors In grille on passenger's side.	1	WC
3U-60-3000		Relay Control Circuit, Electric Locks (Use dropdown menu to pick #3U-60-2950 if keyless entry is required)	1	WC
3U-60-3002		Intermotive CAN module for 2017+ Ford F-series Required for Stealth switch operation on F series.	1	WC
3U-60-5200		Circuit, OEM Door Lock to activate Mod Doors (Not Dodge)	1	WC
		DOOR HOLD OPENS:	**1**	**WC**
40-10-1611		Hold Opens,Rr Doors,Cast,Grabber (2), 5.5", Std Model only - Installed so doors will open as wide as possible - Mount at Bottom of doors.	1	WC
40-10-7200		Hold Open, Gas Strut, Ext Compt, 30lb, Std	6	WC
40-10-7205		Hold Open, Gas Strut, RF Compt, 30lb, Std	1	WC
40-10-7750		Holdopen, Gas Strut, CS Entry Door, 35# Standard. New Code Per ECN 1823	1	WC
		DOOR PANELS:	**1**	**WC**
45-10-4520		Panels, Entry, Durasafe, Stainless Steel, w/ Chevrons, Reflective Logo, STD - Durasafe Design - Aluminum Center Panels covered: white/red reflective tape - Logo to be cut in the lower entry door panel with a reflective 3M material (to match the chevron on the lock box) attached to an aluminum panel behind the logo.	1	WC
		FENDER FLARES:	**1**	**WC**
4A-10-3001		Flare, Fender, Bright Finish, Std Model only	1	WC
4A-10-SR01	X	stainless steel wheel well trim sr#221127F	1	
		BUMPERS:	**1**	**WC**
4F-10-1101		Bumper,Rear,w/ Skids & Flip Up,F1/C1,w/LED DOT lts,Std Model	1	WC
		w/ Gator Grip on flip up step.		

PART NO	S	DESCRIPTION	QTY	ID
		RUNNING BOARDS:	**1**	**WC**
4K-10-2112		Running Boards, Standard, 2017+ F450, w/ Gator Grip, #1153F/1170F	1	WC
		SKIRTRAILS	**1**	**WC**
4U-10-9250		Skirtrails,Extruded "C" channel (E-one Style) ILOS	1	WC
4U-10-9500		Tape, Reflective, White, For Extruded Skirtrails	1	WC
4U-10-9600		Lights, Skirtrail, Whelen Strip (3 each side) Red/ White/ Red	1	WC
		STONE GUARDS (FRONT):	**1**	**WC**
4U-11-5000		Stone Guard, Front, Dia Plate, 16.5" High	1	WC
		KICKPLATES (w/STD. REAR STONEGUARDS):	**1**	**WC**
50-10-0A05		Kickplate, Under-Ride Bumper, w/ Tag recess and (2) 600 series lights	1	WC
55-10-3050		Holder, License Plate, Cast, LP0002-1, For Underride Bumper	1	WC
		- in rear kick plate, centered		
		Includes (2) Whelen OS LED lights		
		SILL PROTECTORS	**1**	**WC**
55-30-4001		Sill Protectors, Stainless, All Compts, Std Model only	1	WC
55-90-6100		Thresholds, Stainless Steel, Painted with Black Poly-urea coating-	1	WC
		Standard		
		Curbside and rear entry floor thresholds shall be stainless steel coated on the upper side with a black poly-urea coating to help prevent slipping.		
		MUD FLAPS:	**1**	**WC**
5A-10-1001		Mud Flaps, Rear, W/Logo, Std Model only	1	WC
		PAINT/BELTS:	**1**	**WC**
5F-10-0800		Paint, OEM White Sikkens Crossover Codes	1	WC
		Ford white: FA91:YZ		
		2019 & up Dodge white : RAM88:GW7		
		2018 Dodge: FLNA40738		
		Chevy white: FLNA40738		
		C4500- 5500 2019-2020 FLNA 41383		
		International 4300-4400 white: NAV9212- Check chassis spec		
		Freightliner white: CHA88:GW6-Check chassis spec		
5F-10-1800		Paint Belt, Belt Line Down, Red or Metallic Upcharge	1	WC
		Color: _____		
		Sikkens paint code #_____		
		Send sprayout for approval to:		
		_____		
		_____		
		_____		
		_____		
		Do Not paint unit until sprayout is approved !!!!		

PART NO	S	DESCRIPTION	QTY	ID
		PINSTRIPE: - PER ROLL	**1**	**WC**
5K-10-2500		Pinstripe, White, Reflective, 1 In	2	WC
5K-10-5100		Pinstripe, Black, Non-Reflective, 1/4 In	1	WC
5K-10-6500		Pinstripe,Reflective White 4 inch	1	WC
5K-12-SR01	X	Lettering, Logo, Star of Life	1	
		DECAL PACKAGES INSTALLED:	**1**	**WC**
5P-10-5001		Roof Star, White Border, Installed, Std Model Only	1	WC
		ELECTRICAL SYSTEM: Circuitboard	**1**	**WC**
		COAX CABLES/ANTENNAS:	**1**	**WC**
65-10-3001		Coax Cable, RG58/U, (1), Additional, Std Model only - From module roof port Dome #7 to behind the passenger seat Standard - with 6' pigtails	1	WC
65-30-1000		Coax Cable, RG58/U, (1) Each, Standard, Terminate: - From module roof Dome #3 to behind passenger seat standard - with 6' pigtails	1	WC
65-30-1500		Coax Cable, RG58/U, (1) Each, Additional,Terminate: From module roof Dome number:3 Coax to Terminate: - with 6' pigtails	1	WC
		12VDC POWER SOURCES & OUTLETS:	**1**	**WC**
6A-22-200E		Outlet, Cigar Lighter, STD, (2), A/A - on standard 20-amp ignition hot circuit. ("elect batt sw")	1	WC
6A-22-2500		Outlet, Cigar Lighter, IATS, (1) located in the ALS E2 cabinet	1	WC
6A-22-5275		Outlet, Kussmaul, USB Dual Port, 5VDC, 4.8 Amp output, 091-219-5 Located in the cab switch panel per Electrical Engineering	1	WC
6A-22-5275		Outlet, Kussmaul, USB Dual Port, 5VDC, 4.8 Amp output, 091-219-5 Located in the Action area switch panel . Standard.	1	WC
		POWER SOURCE, 12 VDC	**1**	**WC**
6A-23-0910		Power Source, 12VDC, 20A, Ignition/Shoreline Hot 20amp 12 volt DC circuit ran to two locations, (1) pre-wire coil and tagged in action area and (1) pre-wire coil and tagged behind driver's seat.	1	WC
6A-23-1201		Power Source,12 VDC,15 Amp (+-), Std Model only - Ignition hot, terminating in cab console - with 6 foot tails (hot and ground).	1	WC
6A-23-3001		Power Source,12 VDC,30 Amp (+-), Std Model only - Constant Hot, to terminate behind the passenger seat	1	WC

PART NO	S	DESCRIPTION	QTY	ID
		- with 6 foot tails (hot and ground).		
6E-10-4500	X	Camera - Exterior Back-up, Rostra Rear Doors for F-series Install (1) Rostra white IR color camera - exterior mounted and connected to vehicles OEM display	1	
6E-10-SR02	X	Patient Module camera SR 221127F Interior Patient Module Camera with screen in cab SV-711-KIT 7" Monitor w/ Power Harness SV-711 7" mon w/2 cam input SV-LCDBA3.7M Power Harness for the LCD56BA/70BA CAM 1 -- Patient Compartment Camera w/ 21ft cable 41-2.8MIR-WT interior camera w/mic & IR 2.8 mm white SV-512B 21' (6.5meter) VIDEO CABLE	1	
		SHORELINE INLETS:	**1**	**WC**
6F-80-5400		Shoreline Indicator Light, 125 VAC, LED, Green near shoreline inlet	1	WC
6F-90-4101		Super Auto Eject,20 amp, ILOS, White, Std Model Only - with white cover; mounted above compartment "E"	1	WC
		125 VAC OUTLETS:	**1**	**WC**
6K-40-1000		Outlet, 125 VAC, Duplex, (2), STD - (1) outlet in action area - (1) outlet in the telemetry area. (change to cabt "E2" for Pureair 1 cabt)	1	WC
6K-40-1500		Outlet, 125 VAC, Duplex, in A/A, IATS	2	WC
6U-10-5000		Battery Charger, Conditioner, Progressive Dynamics, PD9130 Charger/Conditioner mounted in Comp "E"	1	WC
		INVERTERS:	**1**	**WC**
7F-10-9000		Inverter/Charger, Vanner 20-1050CUL-DC - Mounted on fixed shelf or ceiling in Compartment "E"	1	WC
		GAUGES/METERS:	**1**	**WC**
D0-10-1200		Meter, Analog, Volts, F1	1	WC
D0-10-6500		Alarm, Low Voltage, Audio/Visual Light in cab console and Buzzer in cab.	1	WC
		SEQUENCING/LOAD MANAGEMENT:	**1**	**WC**
DA-10-4000		Switch, Emergency Master,Non Seq	1	WC
		SIREN SPEAKERS:	**1**	**WC**
DF-10-1243		Siren Speakers, Cast SAD/PSAD3827-20FSD-1, F-Series 2020, Std Thru Front Bumper	1	WC

PART NO	S	DESCRIPTION	QTY	ID
		SIRENS:	**1**	**WC**
DK-10-1400		Siren, Whelen, WS-295-SLSA1, Standard	1	WC
DK-10-1400	X	additional siren with switch	1	
		The ambulance shall be equipped with hands free electronic siren with silent testing. The siren shall be a Whelen WS-295-SLSA1. customer requests these to be installed and wired one per speaker. needs a switch. SR# 221127F	2 of	
		AIR HORNS:	**1**	**WC**
DP-10-3000		Airhorn,Buell 5440 Comp, 12"&15" Horns mount compressor on fixed shelf in compt "E"	1	WC
		SWITCHING OPTIONS FOR AIR HORNS & SIRENS:	**1**	**WC**
DP-11-1000		Switch, Siren/Horn Thru Horn Ring	1	WC
		AUDIBLE ALARMS:	**1**	**WC**
F0-11-3501		Alarm, Back-Up, Auto Reset, Std Model only	1	WC
		VEHICLE EXTERIOR LIGHTING	**1**	**WC**
		WHELEN 45KKK ADVANTAGE PLUS LIGHT BAR	**1**	**WC**
		WARNING LIGHTS	**1**	**WC**
		WHELEN SUPER LED 9L SINGLE ROW FLASHING LIGHT T1,3,9:	**1**	**WC**
FU-39-0116		Light, 9L, Single Row Super LED, Whelen, Amber, Clear Lens,ILOS, 90A02FCR	1	WC
FU-39-0118		Light, 9L, Single Row Super LED, Whelen, Clear ,ILOS, 90C02FCR (1) on Front Center location	1	WC
		WHELEN SUPER LED 9L FLASHING LIGHTS T1,3,9:	**1**	**WC**
FU-40-0127		Light, 9L, Super LED, Whelen, R/B,Clear Lens,ILOS, 90RB5FCR	14	WC
		5 SERIES(LIN6) NON-SPLIT LED LIGHTS:	**1**	**WC**
H4-06-5702		Light,5L LIN6,Whelen,Red,Red Lens,50R02ZRR, Std, F1/D1 Only (new code) (2) as grille lights (Dodge & Ford) (2) as front intersection lights (Dodge only) wired thru external flasher, std.	2	WC
H4-06-5705		Light, 5L LIN6, Whelen, Red, Red Lens,50R02ZRR, IATS on all entry doors in the lower corners Specify location, switching and lighthead flash pattern.	3	WC
		WHELEN 5E FLANGES/HOUSINGS:	**1**	**WC**
H4-10-0030		Flange, 5L Series, #5FLANGEC, (1) (requires cutout)	3	WC
H4-10-0044		Housing, 5L Series, #5LSMAC, (1),Std, F1/D1 Only chrome	2	WC

PART NO	S	DESCRIPTION	QTY	ID
H4-10-0045		Housing, 5L Series, #5LSMAC, (1)	3	WC
		INTERSECTION LIGHTS, FORD & Chevy Type 1, WHELEN	**1**	**WC**
H5-59-500E		Light, Whelen, LINZ6R, LED-Red, Std with chrome flanges	2	WC
		(2) as Grille Lights (mounted under Chevrolet banner0 with Backing plates. (2) front intersection lights		
		CORNER CAP LIGHTS	**1**	**WC**
HF-11-6049		Corner Cap Lts,Multi-LED,(2)Amber(2)Red w/Flashers,Std Model - High intensity flashers; thru separate switch	1	WC
		CLEARANCE LIGHTS:	**1**	**WC**
HF-12-9100		Light, Clearance, Amber LED, ILOS	3	WC
HF-12-9601		Light, Clearance, Red LED, Std Model only - On rear as clearance lights.	3	WC
		SCENE AND LOAD LIGHTS	**1**	**WC**
HK-20-110		Light, LED, Whelen, Clear, #9SC0ENZR, 24 LED, ILOS, (1) W/ Chrome Flange (new code)	4	WC
		(2) each side as scene lights		
HK-20-130		Light, LED, Whelen, Clear, #9SC0ENZR, 24 LED, ILOS, (1) W/ Chrome Flange (new code)	2	WC
		(2) on rear as load lights		
HK-20-7100		Scene Lights, C/S, Activated W/C/S Door	1	WC
HK-20-7200		Switch, ILOS, (1), (3) Position,Scene Lights	1	WC
HK-20-7400		Rear Scene Lts Activate W/Rev Gear. Rear load lights wired to reverse standard.	1	WC
		WARNING LIGHT FLASHERS	**1**	**WC**
HU-24-6400		Flasher, Vanner, 9860GCPE, Standard Flash Pattern will be Dual Burst unless otherwise Noted Rated at 140 total amps with one flasher for Halogen, LED and Selectable lamps.	1	WC
		(Available flash Patterns are Single Burst, Dual Burst, Triple Burst, and Quad Burst.)		
		Primary shall flash all lights and secondary shall flash top red and amber lights only		

PART NO	S	DESCRIPTION	QTY	ID
		HARNESS LAYOUT:	**1**	**WC**
J5-12-SR01	X	third bank of switches	1	
		One row to control the right domes,left domes, o2 light, attendant light		
		One to control the inverter, suction, exhaust, HVAC fan, Heat/AC		
		221127F		
		V-MUX ELECTRICAL SYSTEMS :	**1**	**WC**
J6-10-0365		V-MUX Electrical System, Touchscreen Vista IV Front and Vista IV Touch, Type 1,3	1	WC
		(1) Touchscreen/Button Vista 4 display in cab		
		(1) Touchscreen only Vista 4 display in A/A		
J6-10-0625		V-Mux, Swivel for Vista Display Mounting	1	WC
		Must Verify with Engineering fit/function/use		
J6-10-2000		V-MUX Electrical System, Engineering Programming	1	WC
		One time fee per contract.		
		STOP/TURN/TAIL LIGHTS:	**1**	**WC**
JA-11-0099		No Flanges or housings, Standard	1	WC
JA-13-8084		Tailight Pkg, Whelen, M6 LED Stop/Tail,Turn Arrow & Max Intensity Backup	1	WC
		- Brake- Steady Burn		
		- Turn Arrow – sequential arrow		
		MODULE OVERHEAD HEADLINER:	**1**	**WC**
JK-10-6510		Headliner, Flat, PVC, w/ Hinged trough cover, 160"+ MAV/T1	1	WC
		12VDC INTERIOR LIGHTING:	**1**	**WC**
JP-10-0611		Lights, Dome, LED, Whelen,White Flng, (4) S/S, (3) C/S, ILOS	1	WC
		NOTE: NO VISABLE FASTENERS OR HOLES.		
JP-10-0621		Light, Dome, LED, Whelen,White Flng,(1) IATS	1	WC
		Location _____?		
		NOTE: NO VISABLE FASTENERS OR HOLES.		
JP-10-7005		Light, Stepwell, Trucklite, 2in, Std	1	WC
JP-10-8020		Light, Kinequip #621224W, LED, In A/A ILOS	1	WC
JP-11-4700		NO lighting recessed into trough cover- Standard	1	WC
		12VDC INTERIOR LIGHTING - FLUORESCENT:	**1**	**WC**
		LIGHTS & MISCELLANEOUS:	**1**	**WC**

PART NO	S	DESCRIPTION	QTY	ID
JR-50-1050		Handheld Spotlight - Sho-Me 200,000 CP	1	WC
JR-50-2800		Light, Compartment, 2" Incandescent, (1) Each	6	WC
JR-50-2880		Lighting, Compt, LED Hi-Brite Flex, ILOS both vertical edges near door jambs, compts "A", "B1", "B2", "D", "E", & "F". Retain 2" O2 light.	1	WC
JR-60-2003		Timer, Momentary Sw,15 Minute, Constant Hot, Std Model only (must have ECX timed battery switch with this option)	1	WC
		Mount switch on C/S wall at the head of the squad bench in the standard location. Switch to allow activation and also deactivation. Wire to fluorescent lights in liner.		
JR-70-0005		Light, in Circuit Board Area, for Electrical Troubleshooting - with integral switch; wired constant hot.	1	WC
		CLOCKS:	**1**	**WC**
L0-10-2550		Clock, Intellitec, Installed	1	WC
		in action area		
		RADIOS STEREOS & SPEAKERS:	**1**	**WC**
LA-10-2500		Speakers, Rear, (2), in Liner, w/ Volume Control	1	WC
		volume control in action area.		
		SUCTION PUMPS:	**1**	**WC**
LP-10-0500		Suction Pump, Standard	1	WC
LP-10-SR01	X	locate suction on action area wall	1	
		INSULATION:	**1**	**WC**
LU-10-1000		Insulation, Fiberglass, Unfaced	1	WC
LU-10-3001		Insulation, Severe Weather Package one inch block foam in modular walls and roof covered with reflective insulation. Under Floor to be Spray Foam insulated after the production assembly process is complete by 24/7.	1	WC
		All edges of reflective insulation on walls and ceiling must be taped, std.		
		GRABRAIL(S)/GRABHANDLES:	**1**	**WC**
N0-10-5000		Grabhandle, 12" Interior, (1) Each, IATS installed near the rear entry doors and the front entry door	3	WC
N0-10-9101		Grabrail,Overhead,117",Handicap Style,Yellow,Std Model Only	1	WC
		Yellow Powder Coat Finish		

PART NO	S	DESCRIPTION	QTY	ID
N0-10-9703		Handrails,(3),Custom "L" Shape,1",Yellow,Entry Drs,Std Model - Yellow Powder Coat Finish Stainless Steel Grab Handles	1	WC
		O2 CYLINDER RACKS:	**1**	**WC**
NA-10-3550		Rack, Multiversal, #QR-MV, W/ Straps (Uni-strut track mounting is now std)	1	WC
		Specify O2 bottle size.		
NA-10-6502		Track, Unistrut for Oxygen Rack -Standard per ECN	1	WC
		O2 SYSTEMS COMPLETE:	**1**	**WC**
NF-50-1001		O2 Sys,LF,(2)O2/(1)Vac Port A/A,(1)O2 C/S, Std Model only Ohio style (2) oxygen outlets in action area (1) vacuum port in action area (1) oxygen outlet curbside wall at head of squad bench	1	WC
NU-56-1950		02 Outlet, Additional, Ohio, Passive, Mods	2	WC
		LOCATION: 2 o2 outlets located above the cot		
		O2 SYSTEM PARTS:	**1**	**WC**
P0-59-7500		Regulator, Oxygen Cylinder, Preset 50PSI, Installed	1	WC
		SUCTION CONTAINERS:	**1**	**WC**
PA-10-7003		Regulator/Holder, SSCOR 23002 with Canister clip-CN 10 Compliant Conforms to J3043 requirements	1	WC
		COT MOUNTS:	**1**	**WC**
PF-26-3100		Cot Mount, Stryker #6377, Dual Position - Change Notice 8- NOT COMPLIANT Specify cot model _____	1	WC
PF-36-0000		Non-Compliance to SAE J3027 Patient Cot Mount Notice SPECIAL NOTE: The Litter Fastener/Anchorage you have selected for this order does not meet the performance requirements of the SAE J3027 Recommended Practice for Ambulance Litter Integrity, Retention and Patient Restraint. Section 3.11.6 of KKK-A-1822F as revised July 1,2015 specifically relates to Litter Fasteners and Anchorage and requires the installed fastener for wheeled cots to meet the performance requirements of SAE J3027 Recommended Practice for Ambulance Litter Integrity, Retention and Patient Restraint.	1	WC
		IV HOOKS:	**1**	**WC**
PP-20-1000		IV Hook, Perko, (1), W/Straps, STD curbside and streetside standard locations	2	WC

PART NO	S	DESCRIPTION	QTY	ID
PP-20-8500		IV Hook, Cast, Fold Down Recessed, ILOS	2	WC
		KICK PLATES STAINLESS STEEL, ON CABINETS:	**1**	**WC**
PU-10-2050		Kickplate, Full Height Brushed Stainless Steel,, On Face of Basewall To the action area height, under the CPR side seat and cabinet "H" installed)	1 (If	WC
R5-10-8000		Wrench, Oxygen, Tethered, Mods	1	WC
		in oxygen compt.		
R5-11-5710		Seatbelt, Assy, (4 Point), Per4Max, Black, (1) Each - CN-8 Above the Lid installation	3	WC
		(1) for CPR side seat (if Required)		
		(2) for squad bench (Standard)		
R5-11-5810		Restrain Belts, Squad Bench (3) Standard	1	WC
		MODULE INTERIOR	**1**	**WC**
RU-05-0000		Interior Cabinets - Duralite Construction, Wood -CN 10 Compliant	1	WC
		MICA COLOR:	**1**	**WC**
RU-10-3001		Mica, Light Gray Gloss, Std Model only	1	WC
		SUB FLOORING:	**1**	**WC**
RZ-99-0050		Flooring, Wood, Type 1, Std	1	WC
		FLOORING:	**1**	**WC**
T0-11-8201		Flooring, Lonplate II,Gunpowder Grey #424TX, Std Model only	1	WC
		SEAMLESS 1880 COMFORT CHILD SAFETY SEATS:	**1**	**WC**
T5-10-0110		Seat, Attendant, EVS 1880, Child safety, Comfort, Gunmetal, Per4Max Belt-Black	1	WC
T5-11-4750		Attendant's Seat Base, EVS Swivel 2 Pos	1	WC
		SEAMLESS UPHOLSTERY:	**1**	**WC**
T5-25-0500		Uph, Smless, Gunmetal,No Bio,No Post & Wheel	1	WC
		CUSHIONS:	**1**	**WC**
T5-40-2106		Upholstery, Backrest Cushion, EVS, Gunmetal, w/ WC Logo	4	WC
		O2 DOOR:	**1**	**WC**
TK-10-5000		Lexan Flap W/Hinge	1	WC
		GLOVE HOLDERS:	**1**	**WC**
TN-20-1001		Cabinet, Glove Box Holder,(3),Above C/S door, Std Model only (narrows cabt "E1" on Pureair 1 w/low headroom)	1	WC
		Must use M1 latches for KKK Change notice 10 compliance		
		RIGHT FRONT CABINET:	**1**	**WC**
TU-20-18SR	X	Cab, RF, At head of SB, Mid Ht Cabinet, Custom SR #	1	WC
		Cabinet to have an open front towards the aisle with an adjustable shelf and a drawer that open to the rear towards the squad bench		
		Top to have countertop to match the Action area counter.		

PART NO	S	DESCRIPTION	QTY	ID
		RF CABINET DOORS W/COMBO A/C	**1**	**WC**
TU-21-7250		Door, None, Trim in Aluminum Must use M1 latches for KKK Change notice 10 certification.	1	WC
TU-21-7275		Net, 2" Black webbing with Metal Seat belt Buckles, Over open cabinet Must use M1 latches for KKK Change notice 10 certification.	1	WC
V0-14-2080		Latch, Southco M1, 2IN S/S,(3/4" door) Locking, (1), -CN 10 -Rated at 10lbs (self latching) Flush Mount. Locking	1	WC
		SQUAD BENCH:	**1**	**WC**
V5-20-3802		Squad Bench, Bio-Waste @ Head, 170", Std Model only	1	WC
		LID 170 INCH BOX:	**1**	**WC**
V5-64-2000		Lid, Squad Bench, 50/50 W/Bio-Waste Must use M1 latch for CN 10 on Biowaste door	1	WC
		HARDWARE:	**1**	**WC**
V5-80-1005		Handle, Trimark, Squad Bench, STD	2	WC
V5-80-1800		Prop, Lid, Jedco, 90/180 Deg, 8in,	2	WC
		CURBSIDE SPLINT CABINET 160-170 inch Module	**1**	**WC**
VA-40-4530		CS Splint,7in Deep,2 Sect,Gray Lexan Flapglass, 170 Module Note: TO meet KKK requirement for space between cushion on squad bench and bottom of splint cabt. Gray Lexan Flap glass with Friction hinges to keep open, M1 latches for closure Must use (2) M1 latches on each door for CN 10 certification	1	WC
VA-40-SR01	X	cabinet above the monitor tower cabinet 26.75w x 14.75h located above the monitor tower at the head of the squad bench	1	
		CURBSIDE REAR CABINET:	**1**	**WC**
VF-20-20SR	X	Cabinet, Curbside Rear, Custom SR #inside outside access door	1	WC
		CABINET H, BASEWALL 170", T1/T3	**1**	**WC**
VH-H2-SR0	X	H, Cabinet, Custom SR # H cabinet to be as far reward as possible with a hinged left lexan door and 3 adjustable shelves 14.5 w x 27.25 H - no inside out side on D compartment bottom of cabinet starts roughly at 27" up from floor	1	WC

PART NO	S	DESCRIPTION	QTY	ID
		CABINET I, BASEWALL 170", T1/T3	**1**	**WC**
VH-I2-0400		I, Cabinet, Deleted	1	WC
		CABINET M, BASEWALL 160" & 170", T1/T9	**1**	**WC**
VH-M2-030		M, Cabinet, deleted	1	WC
		CABINET O, BASEWALL 160-170", T1/T3	**1**	**WC**
VH-O1-SR0	X	O, Cabinet, Custom	1	WC
		SR #O cabinet to be a single drawer 20" w x 4" h. raised to be 27" off floor at bottom of drawer		
		CABINET CPR, BASEWALL, 149"-170", T1 & T3	**1**	**WC**
VH-Q0-SR0	X	CPR, side seat, Custom	1	WC
		SR #slide the seat rearward to accomodate for a 73" action area CPR seat to be 27" in width		
VH-R1-0105		"U" Barrier Bar, Padded, 6 7/8 x 7 1/2, 1.5 inch SS, CPR Seat, Gunmetal	1	WC
		Mounted at the front of the CPR side seat vertically in line with the Padded head cushion on the "L" cabinets.		
		CABINET J, STREETSIDE UPPER 170", T1/T3	**1**	**WC**
VI-J2-0300		J, Cabinet, 72" H.R.	1	WC
		CABINET K, STREETSIDE UPPER 160-170", T1/T3	**1**	**WC**
VI-K1-SR00	X	K, Cabinet, Custom	1	WC
		SR #221127F Angled K to match the angled L cabinet		
		CABINET L, STREETSIDE UPPER 160-170", T1/T3	**1**	**WC**
VI-L1-0356		L,Cabts,L1 in Angled Area,L2 std,Full F,72"HR,Std Model only	1	WC
		BASEWALL DOORS:	**1**	**WC**
VK-15-3060		Cab H, Hinged Framed Clear Polycarbonite - CN 10 Compliant	1	WC
VK-16-5020		Cab O, Gray Polycarbonite Slider - CN 10 Compliant	1	WC
		TELEMETRY AREA WORK SURFACE	**1**	**WC**
VP-10-5461		Telemetry Tray, Poured, Gray	1	WC
		ACTION AREA WORK SURFACE	**1**	**WC**
VP-10-5918		A/A Tray, 160"-170",W/O Bio,Poured, Gray, MAV/1170F/1170D (new code)	1	WC
		It will be necessary for the right end of poured tray to be cut off. There will be no raised ledge on right end of poured tray. Caulk/sealant to be applied.		
		ACTION AREA 165/170 INCH BOX:	**1**	**WC**
VP-15-7020		Cab,A/A, No Biowaste, w/ Recessed Suction, 170" Type 1	1	WC
		Recessed suction in aisle facing cabinet face under action area tray.		
VP-15-SR01	X	Drawer in the action area	1	
		drawer to be around 20" w x 7" high to the forward side of the CPR seat		

PART NO	S	DESCRIPTION	QTY	ID
VU-14-4000		Shelf, Interior, Adj, in Cabinet:	1	WC
VU-14-4000		Shelf, Interior, Adj, in Cabinet:	1	WC
VU-14-4000		Shelf, Interior, Adj, in Cabinet:	1	WC
VU-14-4000		Shelf, Interior, Adj, in Cabinet:	1	WC
VU-14-4001		Shelf Track, Cabt, #HA24663, Upgrade, Std Model only ("C" channel/exterior shelf style track) **This option may require quantity adjustment**	4	WC
VU-15-2020		Cab "J" Gray Polycarbonate Slider -CN 10 Compliant	1	WC
VU-15-4020		Cab "K" Gray Polycarbonate Slider- CN 10 Compliant	1	WC
VU-15-9000		Cab "L1" Wood Door hinged on right.	1	WC
VU-16-3020		Cab "L2" Gray Polycarbonate Slider -CN 10 Compliant	1	WC
		SHIP LOOSE ITEMS:	**1**	**WC**
YY-00-0001		Bracket, Spare Tire Mounting, Ship Loose	1	WC
YY-10-6400		Ship Loose, W.C. Standard Items	1	WC
YY-13-3000		Spare Tire, OEM only, Ship Loose	1	WC
		WARRANTIES	**1**	**WC**
ZZ-10-0201		Warranty, Paint, 60 month Prorated, Standard	1	WC
ZZ-10-0350		Warranty, Structural, 20 Years, Std., Mods	1	WC
ZZ-10-0351	X	5 year non prorated warranty	1	
ZZ-10-0601		Warranty, Limited Electrical	1	WC
ZZ-10-0701		Warranty, Cabinet Construction	1	WC
ZZ-10-2200		Warranty, Extended, 3 Year/36K Miles, Types 1, 3, 9	1	WC
ZZ-ZZ-0200		End Of Order	1	WC

Long Form Specifications

Feld Fire

Wheeled Coach® RSVGROUP

Other (Not Applicable)

CHASSIS:

A1.0 SCOPE, PURPOSE AND CLASSIFICATION

A1.0.1 SCOPE

This specification covers a new commercially produced surface emergency medical care vehicle(s), herein referred to as an "ambulance" or "vehicle". This vehicle shall be in accordance with the Ambulance Design Criteria of the National Highway Traffic Safety Administration, United States Department of Transportation, Washington DC. This specification is based on current KKK - A1822 - E revision. It is the intent of this agency to purchase vehicle(s) that are professionally engineered and designed. It is paramount to this agency that vehicle(s) presented be built by a reputable manufacturer with considerable experience in the ambulance manufacturing field. To this end, this agency requires that each manufacturer provide the following:

1] A statement of fact, signed by an officer of the manufacturing company, disclosing that the manufacturer has delivered five hundred (500) ambulances within the last twelve (12) months of the date of this bid.

2] The size and location of manufacturing facilities and number of production staff.

3] Interior pictures to verify plant facilities.

4] A list of on-site engineering staff with educational accreditation.

5] ISO 9001:2008 Certification.

Failure to provide this agency with the documentation required will be deemed non-responsive.

A1.0.2 PURPOSE

The purpose of this document is to provide the manufacturer with a set of specifications and test parameters that will meet the criteria to manufacture a vehicle as set forth by this agency. This agency seeks a vehicle that will deliver "fair value". Fair value is defined by this agency as the manufacturer's ability to provide a safe, functional, and practical ambulance conversion that will work in junction with the chassis specified at a reasonable cost. The specifications within this document are a basis to deliver such a vehicle to this agency. This agency at its discretion shall assess the intangible assets of the manufacturer such as, but not limited to, after quality, delivery support, customer service, parts availability and warranty turn around time.

Feld Fire

Wheeled Coach
REV GROUP

A1.0.3 CLASSIFICATION

This specification calls for the following type of vehicle in accordance with the current KKK-A1822-F revision.

A1.1 GENERAL

This is an engineer, design, construct and deliver type specification meeting the needs of this agency. Attention has been given to the engineering and design aspect of this specification that will attain our goal of fair value. It is the manufacturer's responsibility to deliver a product meeting the criteria as set forth. This agency reserves the right to increase the equipment quantities that are specified. In addition, other agencies will be permitted to purchase equipment under this contract as a result of this specification, unless prohibited under law.

A1.1.1 SITES OF WORK

Other than the chassis, specified accessories, and raw materials such as aluminum, wood, etc.; all shops and sub-shops shall be within the complex(s) that are directly owned and controlled by the primary manufacturer. Any assemblies including, but not limited to, upholstery, fiberglass, cabinetry, electrical, structural and paint application, that are performed or supplied outside of the primary manufacturer's location(s) must be noted. The name, address, and contact person supplying the primary manufacturer with the assemblies must be provided in writing to this agency. Non-disclosure will be sufficient grounds for rejection of bid or termination of contract. Ambulances or chassis' imported for consideration of this specification into the United States under the North America Free Trade Act must provide documentation of compliance with all United States laws applicable. Further, any import ambulance must be independently certified and tested within the United States to meet KKK-A1822-F certification.

A1.1.2 EXAMINATION OF SPECIFICATIONS

It is incumbent on each manufacturer to be thoroughly familiar with the specification contained herein. The specification will require a "YES" or "NO" or when requested a definitive answer to each section or subsection. Sections or subsections not marked with a "YES" or "NO" or answered shall be deemed incomplete and considered non-responsive. A "YES" answer constitutes a complete compliance to the section or subsection as written. A "NO" shall indicate noncompliance and does not eliminate a manufacturer from competition. A manufacturer may object or counter to a specific section or subsection. A manufacturer must indicate in writing, as an attachment, the section or subsection in dispute. The manufacturer must include the verbiage as written,

new verbiage presented, explanation of verbiage with consequences and supporting tests and documentation. Failure to comply will be deemed as non-responsive. This agency reserves the right to determine compliance.

A1.1.3 DEFINITIONS: The following definitions shall apply with regards to these specifications.

A1.1.4 PURCHASER: The end user of the equipment specified or the applicable purchasing agency acting on behalf of the end user.

A1.1.5 CONTRACTOR: The individual, firm, partnership manufacturer, or corporation to whom the contract is awarded by the Purchaser and is subject to the terms thereof. For bidding purposes the contractor, vendor, bidder, manufacturer are synonymous.

A1.1.6 EQUAL: This agency supports the design, engineering, quality and materials as specified in this document. This shall not prohibit the bidding of unlike product. However, any deviation from the specification must be marked and submitted per section A1.1.2. Failure to do so shall be deemed non-responsive.

A1.1.7 MANUFACTURER: The manufacturer within this specification shall be considered the "primary manufacturer" of the ambulance conversion. The chassis requirement as set forth in this specification is the responsibility of the primary manufacturer to procure. This agency considers the chassis platform as a conveyance for the ambulance conversion. It is imperative that the primary manufacturers procure the **exact** chassis from the chassis manufacturer. After market modifications by the primary manufacturer to achieve chassis specification will not be tolerated. This agency will require documentation from the chassis manufacturer pertaining to the chassis requirements for this agency. Failure to provide documentation after award and prior to construction may result in the termination of the contract. Expenses to re-bid will be the responsibility of the manufacturer in default.

A2.0 SPECIAL CONDITIONS

A2.1 BIDDERS RESPONSIBILITY AND QUALIFICATION

A2.1.1

It is not the intent of these specifications to call for an unusual or experimental vehicle(s). The primary manufacturer shall have a minimum of 10 years of uninterrupted manufacturing of similar or identical vehicles to the specifications set forth in this bid.

A2.1.2

If requested by the purchaser, the primary manufacturer shall supply upon request a list of fifteen (15) agencies that have purchased similar or identical vehicles within the past year from date of bid. The list will have contact names and phone numbers.

A.2.1.3

For the purpose of this section, if the bidder of record and the primary manufacturer are separate business entities, then each shall be required to submit financial, insurance, and/or licensor to conduct business within this jurisdiction. Failure to provide proper documentation with the bid response may result in any bid being deemed non-responsive.

A.2.1.4

The primary manufacturer shall be ISO 9001:2008 certified. **No Exceptions**.

A.2.1.5

The primary manufacturer shall employ full time a Quality Control Manager whose primary function is to monitor quality. **No Exceptions**.

A2.2 PAYMENT, DELIVERY AND ACCEPTANCE

A2.2.1

A deposit may be remitted with the order not to exceed ten percent (10%) of the total contract amount. This agency reserves the right to issue a binding municipal Purchase Order in lieu of a deposit. The choice to submit either the deposit and/or the binding purchase order will be that of this agency.

Prepayments or progress payments for any part or material after contract award may result in a termination of the award. The contract will be given to the next responsible primary manufacturer. It is the intent of this agency to do business with a company of sufficient financial means to meet the financial burdens necessary complete and delivery the vehicle as specified.

Unless otherwise requested, the primary manufacturer shall arrange over the road delivery of the completed vehicle to this agency's designated local address under the vehicles own power. Costs of transportation and preparation are to be included with the price as bid. The primary manufacturer, may as an option, offer a line item credit for pick up by this agency at their place of manufacture.

Payment in full will be made upon delivery once an inspection of the vehicle by this agencies authorized representative(s) confirms compliance with the specification. The delivery, acceptance inspection, and payment shall take place on the same day. In the event it is deemed necessary for this agency to inspect the vehicle(s) at the primary manufacture location, a temperature controlled inspection area separate from the production facility shall be available.

A2.2.2

All bid prices and conditions must be specified on the Bid Proposal Form.

A2.2.3

Bid prices shall be valid for sixty (60) days. In the unforeseen circumstance that this agency requires the primary manufacturer to extend pricing requirement; then it will be at the discretion of this agency to request in writing from the primary manufacturer any deviation in prices quoted. The primary manufacturer may revise pricing and state in writing reasons for any change and certify the amended pricing for sixty (60) additional days.

A2.3 BID EVALUATION

Bids received shall be evaluated by the Purchaser. This evaluation will be based on the following:

Completeness of the proposal
Manufacturing and Delivery schedule
Primary manufacturer's demonstrated capabilities and qualifications
Primary manufacturer's past performance on similar Bid Proposals
Primary manufacturer's maintainability and recommendations
Primary manufacturer's logistical and service support

A2.3.1

Bid proposals taking total exception to these specifications will not be accepted.

A2.3.2

Bid proposals that do not comply with the prescribed method to take exceptions listed in paragraph A1.1.2 will be rejected without further consideration.

A2.3.3

This agency seeks the highest level of value for the cost. To assure this agency is receiving such value the primary manufacturer must submit evidence of compliance with KKK-A1822-F testing parameters. The testing is to be performed by an independent testing facility and verified by person(s) with the standing of Professional Engineer. If further testing is required by any lawful agency of the Federal or State Government then it shall be incumbent upon the primary manufacturer to provide this agency with certification required.

A2.3.4

This agency also recognizes Ford Motor Company's Qualified Vehicle Modifiers (QVM) accreditation. Therefore, regardless of chassis specifications the primary manufacturer must include with this proposal their current QVM certification.

A2.3.5

Internal testing performed and certified for a primary manufacturer will not be considered by this agency.

A2.3.6

The primary manufacturer may submit certification of all "member in good standing" of any public or private association that may have bearing on this specification i.e. AMD, NTEA.

A2.3.7

To insure that this contract is awarded to a primary manufacturer who has the resources to meet the performance and warranty criteria specified herein, the primary manufacturer shall state in the bid proposal if it is a public or private company. If the primary manufacturer is privately held then it shall include the most current financial statement by a Certified Public Accountant not more than twelve (12) months old, or current financial statement of the parent company. If the primary manufacturer is a publicly held company or wholly owned by a publicly held company then it shall state what stock exchange and under what symbol it is traded under. **Bids not meeting this requirement cannot be accepted.**
Note: In performing the evaluation, only information contained within the primary manufacturer's written proposal will be considered.

A2.4 CONTRACT AWARD

The Purchaser reserves the right to increase the number of vehicles or equipment specified under this contract. If awarded, the primary manufacturer agrees that additional agencies may purchase under the same terms and prices afforded by any contract arising from the bid award, unless prohibited by law.

A2.4.1

The purchaser has the right to waive any informalities, irregularities, and technicalities in procedure.

A2.5 WARRANTY

This agency is concerned with the ability of the primary manufacturer to warrant the conversion after delivery. This agency expects a minimum of a fifteen (15) year modular construction warranty and twelve (12) months and twelve thousand (12,000) mile full warranty on the conversion. In addition, each manufacturer shall submit their various warranties and warranty options, if applicable, with the proposal for evaluation. Also, each primary manufacturer will supply the name and phone number of a contact person in the event this agency requires clarification of the submitted warranty documents.

The primary manufacturer will provide the location of the closest approved warranty center. Indicate to this agency, in writing, to be included with this proposal; the process to initiate and file a warranty claim.

A2.5.1

Due to the high demands on a pre-hospital care vehicle, this agency demands the primary manufacturer have available a twenty-four hour a day technical assist service. This 24/7 service must be staffed by the primary manufacturer's service personnel, include telephone number: _____.

A2.6 DELIVERY

The primary manufacturer will provide in writing to accompany this document a proposed delivery time. The delivery time proposal will include the transit time of the finished vehicle.

A2.7 BID GUARANTY

Bid proposals shall be accompanied by a Surety Bond in the amount of ten percent (10%) of the total price of the bid proposal. The Bid Surety shall be made payable to this agency and conditioned upon the primary manufacturer acceptance of award. In the event of failure or refusal to comply, the Bid Surety may be forfeited as liquidated damages because of such failure of default.

A2.8 PERFORMANCE BOND

This agency reserves the right to seek a one hundred percent (100%) performance and payment bond as a condition of award. A letter must be included from a certified bonding agency stating that a performance bond can be issued on behalf of the primary manufacturer. Failure to comply may be deemed as non-responsive.

A2.9 INDEMNIFICATION AND INSURANCE

This agency seeks to mitigate future liability exposure; therefore, all primary manufacturers will submit their Certificate of Insurance for evaluation. This agency will only consider a primary manufacturer with a minimum of Ten Million United States Dollars ($10,000,000.00 USD) that is based on a **PER INCIDENT** basis. This insurance shall be issued by a company rated "A" or better as reported in the current edition of Bests Key Rating Guide, published by Alfred M. Best Company, Inc. Aggregate liability coverage will not be considered regardless of amount. Failure to comply will be deemed non-responsive.

A2.10 FAMILIARITY WITH LAWS

The primary manufacturer will be familiar with all Federal, State and Local laws, ordinance, code rules and regulations that may in any way effect the work. Ignorance on the part of the primary manufacturer is not acceptable.

A2.11 PRE-CONSTRUCTION CONFERENCE

The successful primary manufacturer shall be required to hold a pre-construction conference with representatives of this agency to finalize construction details. In the event it is deemed necessary by both parties that the conference be held at a location other than at this agency; the following shall occur. The primary manufacturer will provide adequate transportation, lodging, and meals for two (2) designated personnel from this agency. Further, if the location is in an excess of three hundred (300) miles from this agencies location, the transportation shall be by a commercial air carrier. Private or corporate aircraft may not be used.

A2.12 DRAWINGS

The primary manufacturer shall provide a set of drawings that accurately depict the vehicle as specified. The drawings will show all exterior and interior planes with dimensions. Failure to comply will be deemed non-responsive.

A2.13 EMPLOYEE STATEMENT

It is mandated by the United States Government that all employees currently and to be employed during the duration of this contract are not discriminated against because of their race, creed, color, sex, nationality origin and disability. Further, this agency must be satisfied that the primary manufacturer's labor pool is treated in a fair and equitable manner. Therefore, it will be the responsibility of the primary manufacturer to include a human resource statement outlining employment status, working conditions, and benefits.

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A2.14 ANTI-COLLUSION STATEMENT

By signing this bid, the primary manufacturer agrees that this bid is made without any understanding, agreement or connection with any other person, firm or corporation making a bid for the same purpose and this bid is in all respects fair and without collusion or fraud.

Ford, 2021 F-550, 4x4 XLT, 6.7L 193" WB, 18,000GVW 2021-1

3.0 TECHNICAL REQUIREMENTS CAB - CHASSIS

3.1 GENERAL VEHICULAR DESIGN, TYPES, AND FLOOR PLAN

The ambulance and the allied equipment furnished under this specification shall be the primary manufacturer's current commercial vehicle of the type and class specified. The ambulance shall be complete with the operating accessories as specified herein. It shall be furnished with such modifications and attachments as necessary and specified to enable the vehicle to function reliably and efficiently in sustained operation. The design of the vehicle and the specified equipment shall permit accessibility for servicing, replacement and adjustment of component parts and accessories with minimum disturbance to other components and systems.

3.1.2

The ambulance shall be a Type I, Class I, and shall be a chassis furnished with a two (2) door conventional cab. The chassis shall be suitable for subsequent mounting of a modular (containerized), transferable equipped ambulance body conforming to the requirements herein.

3.1.3

The design of the vehicle shall utilize floor plan "A" loading arrangement of patients into the patient compartment. All litters shall be loaded into position with the heads of the patients forward in the vehicle.

3.2 VEHICLE COMPONENTS, EQUIPMENT, AND ACCESSORIES.

The emergency medical care vehicle, chassis ambulance body, equipment, devices medical accessories and electronic equipment to be delivered under this contract shall be standard commercial products, tested and certified, to meet this specification. The vehicle shall comply with all Federal Motor Vehicle Safety Standards (FMVSS) and United States regulations applicable or specified for the year of manufacture. The primary manufacturer shall procure the chassis, components, equipment and accessories as specified and be the current technical data and materials of all suppliers.

3.3 MATERIALS

Materials used in the construction shall be new and meet the quality conforming to this specification. Materials shall be free of defects.

3.4 VEHICLE OPERATION, PERFORMANCE, AND PHYSICAL CHARACTERISTICS

The following is a description of the cab and chassis that will meet the requirements of this specification. In addition, the chassis will comply with paragraphs 3.4.1 through 3.6.14 of Federal Specification KKK-A-1822F.

3.5 CHASSIS MANUFACTURER AND MODEL YEAR

The chassis shall meet the requirements of this specification. It shall be a 2021 Ford.

3.6 MODEL PHYSICAL CHARACTERISTICS

Vehicle:	Ford Chassis Cab	
Body Style:	Super Duty F-550 Dual Rear Wheel	
Drive Train:	Four Wheel Drive	
Model Number body code:	F5G Regular Cab 193" wheel base XLT	
Gross Axle Weight:	Front 7,500 lb.	Rear 12,000 lb.
Gross Vehicle Weight	Rating 18,000 lb.	
Engine Type:	99T 6.7L Diesel V8 with 98R Manual Regen	
Displacement	6.7 liters	
Fuel System	Turbocharged DI	

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SAE net HP	330 @ 2600 RPM
SAE net Torque	750 foot pounds @ 2000 RPM
Wheelbase:	193 inches
Transmission:	10 - speed Automatic, Electronic, w/Overdrive
Rear Axle Ratio:	4:10 Ltd Slip
Tire Size:	LT225/70Rx19.5F, BSW All Season, 2 front, 4 rear
Spare Tire Size:	LT225/70Rx19.5F, BSW All Season
Wheels	All including spare, steel 19.5 x 6.0
Brakes:	4-Wheel ABS System
Engine Block Heater:	Code 41H
Alternators:	Dual HD Alternators, Code 67B
Batteries:	Dual, 78-AH, 750 CCA
Fuel Tank:	Single 40 Gallon, aft of rear axle
Exterior Upgrade Package:	647A
Interior Upgrade Package:	647A
Cab seating:	Code 3- 40/20/40 cloth
Ambulance Prep. Package:	Code 47L
Steering:	Power
Stereo	Sync 3 touchscreen communication and entertainment system\

Running Lights	Day time Running Lights, Code 942
Pedals	Adjustable Gas and Brake Pedals, Code 62M

4.5 ELECTRICAL GENERATING SYSTEM

The vehicle shall be equipped with the OEM supplied dual OEM alternators.

4.6 ENGINE AUTOMATIC HIGH IDLE SPEED CONTROL

The Engine high idle shall be regulated by the OEM supplied high idle speed control. The control shall be mounted in the cab console.

4.7 DRIVER'S COMPARTMENT

The driver's compartment shall be as required by paragraphs 3.9.1, 3.9.2, and 3.9.4 of Federal specification KKK-A-1822-F as well as section 3.0 of this document. The cab shall be equipped with the chassis manufacturer's high back seats. The safety restraint system for the driver and passenger shall be installed by the chassis manufacturer. Modifications or substitutions of the chassis manufacturer's cab seats or restraint system will not be acceptable.

4.8 OUTSIDE REAR VIEW MIRRORS

The vehicle mirrors should be firmly secured, vibration less rear view mirrors totaling at least one hundred and twenty five square inches. The mirrors shall be OEM, manually telescoping trailer tow, power/heated glass, integrated clearance lights and turn signals, and a two-way fold.

Domestic Chassis

Conversion, BOM, Type 1, 170 Module, F550 4x4 21-1

Bellows, Passthru, Unigrip, F1 2008+, Std
CAB PATIENT COMPARTMENT

The modular body shall be attached to the cab chassis by means of a rubber bellows with one hundred and fifty square inches of open viewing area. The back window of the chassis cab shall be replaced with a painted aluminum insert adhered to the to the back of the chassis cab with an industial grade adhesive. This procedure must be in strict compliance with chassis builders guidelines. The entire structure shall be caulked and painted with the process identical as described for the module. The center section of the insert shall incorporate and integral, flange designed to provide a secure installation platform for an expandable rubber boot attaching the cab to the module.

Wheeled Coach Stainless Grille Logo, with reflective backing
GRILLE LOGO

Wheeled Coach Mirror Stainless logo in grille.

Rear Suspension - Liquid Spring- 2017+ F550, 18k GVWR, 4x4
REAR SUSPENSION
This unit shall have a "Liquid Spring" rear suspension installed by the manufacturer. It shall include electronic controls, automatic height control, kneeler, and OEM sway bar. The dump and fill function shall be operated by opening or closing the right rear door entrance door. It shall have both an enable switch and a dump indicator light in the cab console and shall only operate when the vehicle is in neutral or park with park brake set.

CLASS®, or **C**ompressible **L**iquid **A**daptive **S**uspension **S**ystem, is the next generation vehicle suspension system. Utilizing a strut, with a compressible fluid as the spring/damping medium, and its sophisticated on-board microprocessor, **CLASS®** adapts the entire vehicle's response to road variations and the driver. Unlike current steel and air sprung suspension systems, **CLASS®** is the only commercial suspension system that can automatically and instantaneously change the spring stiffness and damping at each wheel over a very broad range with minimal power consumption while the vehicle is being driven and without driver intervention. Changing the spring stiffness and damping at each wheel independently provides the ability to reduce ride harshness while increasing roll and pitch control. The traditional compromises of balancing ride and handling performance in steel and air sprung suspension designs are eliminated. **CLASS®** employs an optimized 5-link suspension configuration that enhances ride and handling versus conventional suspensions. **CLASS®** substantially reduces the impact loading into the vehicle frame and body thereby lowering maintenance costs and extending the vehicle's life.
Aside from operational benefits of improved ride and handling, vehicle manufacturers may also realize benefits. While **CLASS®** is tuned to specific chassis platforms, its software can be tuned to specific applications while using the same common suspension hardware for the chassis platform, thus providing greater utilization of a chassis for a variety of body configurations with each one tuned accordingly. A user friendly driver interface provides a means for minor adjustment of the suspension response to fit operator preferences for certain road conditions.

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Compared to typical air systems, **CLASS** ® is a closed hydraulic system which eliminates the need for extra add-on components such as air dryers and heaters. Additional standard functional features such as load-leveling, suspension "kneeling", and diagnostics are built-in.

Switch, (1), Momentary, Dump
SWITCHING

A Momentary Dump switch shall be installed as directed by this Agency.

Cab Flooring, Black Rubber, 2009+, F350/450, OEM
CAB FLOORING MATERIAL

The OEM cab carpet shall be replaced with an OEM purchased black rubber flooring.

Evergreen ADU-136-pb unit

Hoseline UV Light inside HVAC

Hoses, Heater, No Max, to Rear, STD
HEATER HOSES

Nomax heater hoses shall be installed.

Heat/AC, F1, 2011+, Pureair, w/Top Mount Cond
ENVIRONMENTAL SYSTEMS

The driver's compartment shall be furnished with the environmental package as set forth in section 3.6. This agency is committed to keep safe our staff and patients by technology available in day's market place. Therefore, it shall be incumbent for all primary manufacturers to provide the maximum protection from airborne pathogens and eliminate obnoxious odors that can create discomfort for staff and patients. The patient compartment shall be heated and air conditioned by the following method:

*The air conditioning and heating unit shall be accessible for service through a tilt out access panel in a dedicated environmental cabinet on the bulkhead.

*The air conditioning and heating system shall employ a three stage filtration system.

*The first stage filter shall be one hundred percent Dacron fiber pre filter with an applied microbial system which destroys microorganisms with which it comes in contact.

The filter shall remove particles ten microns and larger at thirty five percent efficiency.

*The second stage filter shall be activated charcoal dispersed over a fiber medium to assist in the removal of odors.

*The third stage filter shall be a high efficiency particulate air filter that removes particles of decimal three (0.3) microns and larger at ninety nine decimal ninety seven (99.97) percent efficiency.

The air delivery and return system must be a sealed system to not allow the passage of air other than through the three stage filter. The conditioned air shall pass through a multi-directional vent capable of dispersing high volumes of conditioned air at low velocity. There shall be a top mount condenser mounted on wedges on the front of the module integrated in the HVAC system to increase the efficiency of the system. The condenser shall be a Hoseline TMC2004. It shall provide 2564 CFM and 45,000 BTU's.

This system must meet KKK - A -1822F performance parameters 3.13.4 and 3.13.5. Testing must be certified with filters in place. Primary manufacturers shall submit drawings and testing documentation from an independent laboratory with this proposal.

Air Conditioning Face Plate, Brushed Stainless Steel with Logo
The air return faceplate shall be brushed stainless steel.

Heat/Air Conditioner Located Center over WT/PT, ILOS
ENVIRONMENTAL SYSTEMS

The main HVAC unit is is to be located above the walk thru or Pass thru area, centered.

CM5000 dual thermostats

Battery Sw, 5min Timer, F1, Fig 5B, Batt under Hood
BATTERY SYSTEM

The vehicle shall be supplied with a dual 12 volt battery system. Two OEM batteries. The battery system shall be wired in accordance with KKK-A-1822-F. The system must meet SAE J541 for starter circuit voltage drop. The batteries shall be activated through the OEM ignition switch. The ignition switch shall only turn off power to the module and not to the chassis circuits. When the ignition is shut off a five minute timer keeps the module

powered up for unloading patients. A momentary rocker switch shall be installed which will disable the timer. It shall be labeled TIMER BYPASS. It shall be located on the side of the center console.

The unit shall be designed with SecureAmp™ Technology (patent pending). This system automatically disables all the parasitic loads at 11.6 Volts , preventing battery drain and subsequent damage to the batteries. The system will reset after the unit is started and the charging voltage reaches 13.6 volts enabeling all loads.

Console, Center, Pass-thru, Mica Finish, F1, CN11
INSTRUMENT CONSOLE

A console shall be installed house the switching panel and radio installation. This console shall be attached under the dash below the line of sight of the driver. The console shall extend the full length of the cab between the driver's and passenger's seats. Provisions shall be made available for storage of convenience items for the crew. An access panel shall be installed on the top of the console facilitate servicing. The switches shall be full size rocker switches with LED on the indicators. The switch assembly shall be 1.97 inches tall by 1.064 inches wide with silver plated copper contacts and a .250 inch spade type terminal. The switch and rocker material shall be a thermal set molding material. The complete switch assembly will be tested to withstand one thousand (1,000) volts RMS dielectric. Documentation of switch testing to be included with the bid. The switches must have a positive "throw" feel and an audible "click" upon activation.

Does your bid comply with this requirement?

Yes ( ) No ( )

Console, A/A, Wood, Angled
ACTION AREA CONSOLE

There shall be a console in the action area of the rear patient compartment house the switches. The console shall be manufactured out of 3/4" Laminated marine grade Plywood and be angled so that the switches will be easily accessible for an EMT in the attendant seat or a CPR seat.

Does your bid comply with this requirement?

Yes ( ) No ( )

custom console with drink holders

Covers,Wheel,Phoenix,F450,4X2/4x4,1153/1170

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WHEEL COVERS

There shall be Phoenix Wheel Covers installed prior to delivery. They shall be model NF19 and shall include the extender kit for the rear wheels, model #AP4.

Does your bid comply with this requirement?

Yes ( ) No ( )

This unit built in accordance with KKK-A1822-F CN 10 cabinetry Requirements
This unit shall be built to the KKK-1822F specifications including the Change Notice 10 changes dated July 1,2017.

As evidence that the modular ambulance body meets the above criteria, the FSAM's shall furnish a certification that the modular ambulance body meets the testing requirements of SAE J3057.

Installed Oxygen cylinder, suction, cardiac monitor, and fire extinguisher mounting devices shall meet the performance requirements of SAE J3043.

1) All interior enclosed stowage devices shall be tested to their rated weight capacity in accordance with the requirements of SAE J3058.
2) Stowage devices shall not come open in transit.
3) Storage for the main oxygen cylinder shall be accessible for replacement from an outside position.
4) The oxygen compartment shall be provided with at least a 9 sq. in. of open vent to dissipate/vent leaking oxygen to the outside of the ambulance.
5) Oxygen cylinder compartment shall not be utilized for storage of any other equipment.
6) All interior enclosed stowage devices shall be labeled with their rated weight capacity.

A complete litter fastener assembly shall be furnished. The installed litter fastener device for wheeled cots shall meet the performance requirements of SAE J3027. The litter fastener device shall be installed according to the litter fastener manufacturer's instructions. The ambulance floor and substructure shall be tested in accordance with the dynamic requirements of SAE J3102.

The ambulance shall have a piped medical oxygen system capable of storing and supplying the minimum requirements in liters of medical oxygen as specified by the purchaser. The installed medical oxygen piping shall be leak tested to 80

PSI. After the successful completion of piping test, the system shall be completely assembled and the flow rate of the outlets tested with the system pressurized at normal working pressure. The system shall be capped then tagged with date and signature of person and firm performing the tests.

Type 1 - 170" Module - Standard Model Series
VEHICLE BODY AND PATIENT AREA

BODY ACCOMMODATIONS

The ambulance body and patient compartment shall be sufficient in size to meet the requirements of paragraph 3.10.1 of Federal Specification KKK-A-1822-F. The interior layout shall be such that a technician can administer life support treatments to at least one person during transport. The modular body shall be (153") one hundred fifty three inches in length and (95") ninety five inches wide.

PATIENT COMPARTMENT INTERIOR DIMENSIONS

Length: As measured from the bulkhead to the inside edge of the rear doors at the floor shall be at least one hundred and forty three inches. There shall be at least (25") twenty five inches but not more than (30") thirty inches of clear space at the head of the primary patient, measured from the face of the backrest of the attendant's to the forward edge of the style one cot.

Width: Shall be measured after the installation of the street side cabinets will be (44 3/4") forty four and three quarter inches between the cabinet wall and the face of the squad bench.

Height: The patient compartment shall provide at least (66") sixty six inches of height over the primary patient area from the floor to the ceiling.

Type 1 - 170" Module General Body Construction Spec
GENERAL BODY CONSTRUCTION

It is the intention of this agency to specify a modular body that is constructed solely of aluminum including side skins, roof skin, all structural box tubing, corner and roof extrusions, tapping plates, gusset plates, retention plates, doors, door extrusions, sub structure moisture barrier and drip rails. The modular shall be engineered, built and warranted by the primary manufacturer. This agency will not accept a proposal from a primary manufacturer, as defined within this document, that supplies a modular from an agency, builder, supplier, other than the primary manufacturer. This section shall be the construction parameters this agency has deemed as fair value. Primary manufacturers that deviate from these specifications may take exception as set forth in section A1.1.2.

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The exterior of the body shall be constructed utilizing a full six sided box framework with a combination of high strength 6061-T1 and 6063-T6 alloy aluminum and having an outer surface of aluminum sheet with a temper and alloy of 5052-H32 for strength, weld integrity and corrosion resistance. The front, sides, and rear of the modular shall be configured from a single sheet of .090 aluminum. The one piece sheets shall be used to maximize integrity against dust, toxic fumes, cracking, and moisture penetration. The openings for doors, warning lights and exterior compartments shall be cut on the horizontal plane with a computer controlled plasma cutter for accuracy and integrity of temper. The roof and side skins shall be installed utilizing a very high bond adhesive to allow absorption of vibration and to eliminate "panning". The skins shall be welded to the interlocking extrusion framework at the outer perimeter of the sheets by a programmable robotic welder using a MIG welding tip and Argon gas.

The roof shall be a single .090 sheet of 5052-H32 alloy aluminum. The roof sheet shall be completely welded to the extruded roof assembly. The use of multi-section roofs shall not be acceptable due to the possibility of cracks causing environmental intrusion.

The roof substructure assembly shall consist of four perimeter roof rail extrusions, lateral roof bows and interconnecting corner caps. The roof rail extrusions shall be engineered and designed by the primary manufacturer and shall be double hollow of 6063-T6 .125 aluminum An integrated roof recess shall be incorporated to create a smooth transition from the one piece roof sheet to the perimeter drip rail. The perimeter drip rail shall be extruded as a design feature of the roof rail extrusion. The roof rail extrusion shall overlay the side skin by one half inch. The roof sheet shall be seam welded to the perimeter roof extrusion. The lateral roof bows shall be two inch by two inch by .125 square extrusions of 6061-T6 alloy aluminum. The structural members shall be located to support the roof skin on fourteen inches between roof bows. The roof bows shall interconnect with the roof rails and be continuously welded at all contact points. The finished roof shall incorporate a machine rolled crown of not less than one and half inches in height to provide additional strength and allow water run off. A one inch by two inch by .125 6063-T6 extrusion shall be secured to the top of the vertical extrusions. The perimeter extrusion shall be welded to the vertical structures with a minimum of six inches of weld. An industrial adhesive shall be applied around the perimeter before the roof assembly is mated to the sill. The roof structure shall be attached to the sill and welded. To insure a complete contact with the industrial adhesive mechanical fasteners shall be employed to cinch the roof structure to the sill.

The corner caps shall be designed to interlock with the roof perimeter, vertical corner extrusions and roof sheet. The corner caps shall be cast aluminum made from matched metal dies to insure a smooth and pleasing appearance. The caps shall act as a stress relief device to absorb energy and disperse the force along the roof extrusions in the event of a collision. The outer edge DOT lights shall be installed as described in section 5.1.

The corners of the modular body shall be designed and engineered by the primary manufacturer and constructed of 6063-T6 alloy aluminum. The corner extrusion shall be double hollow with a minimum thickness of .125 and .250 at the outer corner. The extrusion is designed with a unique forty five degree angled appearance while maintaining very high strength and impact energy absorption. A polyurethane sealer shall be applied to seal the crevice between the corner extrusions and the side assemblies.

The side assemblies shall be reinforced utilizing 6061-T6 alloy aluminum two by two box tubing. The side structures shall frame a perimeter around all door openings and shall be a minimum or .125 in thickness. Intermediate skin stiffeners shall be located to preclude skin deformation. Additional gusset plates shall be .250 inch aluminum and shall be welded at all contact points between the corner assembly and the roof perimeter.

This agency is extremely concerned with purchasing a vehicle from a primary manufacturer who can provide the necessary service after sale. Therefore, as previously stated the modular shall have a fifteen year warranty and be engineered, designed and built by the primary manufacturer.

This agency is extremely concerned that the modular body be designed and built with the highest level of integrity and quality. Documentation and certification that the modular body being proposed meets Static Load Test Code for Ambulance Body Structure AMD Standard 001 must be included with this proposal.

Quality and Safety Documentation.

The ambulance manufacturer responding to this vehicle specification shall demonstrate to this Agency that the ambulance being proposed offers the highest possible quality and safety standards.

To meet this Agency's requirements for quality the Bidder shall provide documentation that the ambulance manufacturer has in place a quality management system that meets the requirements of the International Organization for Standardization (ISO). A copy of the ISO Registration Certificate shall be included in the bid response.

To meet this Agency's requirements for safety standards the Bidder shall provide documentation that the ambulance manufacturer has conducted "dynamic" testing to validate the design, manufacturing processes, materials and workmanship used in the production of the ambulance proposed in response to this specification.

To validate the materials, manufacturing processes, quality management system and workmanship utilized in the installation of seats, seat belts, secondary restraining devices, cabinet construction, oxygen cylinder retention and module to chassis attachment a Hygee sled test shall be performed. This test shall simulate a frontal impact to the ambulance module at a minimal impact force of 20 g. A test report from a third party testing agency

independent of the ambulance manufacturer shall be submitted with the bid response proving compliance to this requirement.

To validate the materials, manufacturing processes, quality management system and workmanship utilized in the construction of the modular body the Bidder shall provide documentation that the ambulance manufacturer has conducted a side impact crash test. The Institute for Highway Safety (IIHS) Crash Test Protocol Version 5 shall be used as a guideline for this testing requirement.

The "target" vehicle (Ambulance) shall be struck by the "bullet" (SUV / Pickup Truck) vehicle at the fore and aft center of gravity of the target vehicle. To comply with the requirements of this specification the bullet vehicle shall be a SUV or pickup truck with a minimum gross vehicle weight (GVW) of at least 4,000 lbs. To provide this Agency accurate data in a "real world" environment the use of a Moving Deformable Barrier (MDB) and cart as the "bullet" vehicle is not permissible.

The "target" vehicle (Ambulance) shall contain instrumented Anthropomorphic Test Devices (crash test dummy) meeting the following requirements and seating locations.

1. Squad Bench Hybrid 3 ATD instrumented with head, chest, and pelvic accelerometers, upper neck load cell, chest potentiometer, and femur load cells.

2. Ambulance Cot - Hybrid 3 ATD instrumented with head, chest, and pelvic accelerometers, upper neck load cell, chest potentiometer, and femur load cells.
3. Street Side CPR Seat - Hybrid 3 ATD instrumented with head, chest, and pelvic accelerometers, upper neck load cell, chest potentiometer, lumbar load cell, and femur load cells.
4. Attendant Seat EuroSID 2 ATD instrumented with head accelerometers, upper neck, abdomen, and pubic load cells, and rib potentiometers.

For the purpose of determining **PASS FAIL** results the Injury Assessment Reference Values (IARVs) from FMVSS 208, FMVSS 214 and the Insurance Institute for Highway Safety (IIHS) shall be used. A test report from a third party testing agency independent of the ambulance manufacturer shall be submitted with the bid response proving compliance to this requirement.

The above requirements are in addition to the current minimum requirements for testing as outlined in KKK-A-1822.

Additionally, all welders employed by the primary manufacturer shall be certified to the American Welding Society Standard AWSD12, and certification documents must be provided if requested.

All body welds shall not only be inspected by the primary manufacturer but shall also be inspected by an outside engineering firm and said firm shall conduct another visual inspection and a dye penetration test designed to reveal any flaws or imperfections in the welds. Documentation on this process must be provided if requested. .

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Type 1 - 170" Module Vehicle Body Structure Spec

VEHICLE BODY STRUCTURE

All parts of the ambulance body, as specified in paragraph 3.10.6 of Federal Specification KKK-A-1822-F, shall, where applicable, be of welded construction. Where fasteners are used in such areas as hinge attachment, hardware attachment, etc., the fasteners shall be ceramic coated aluminum and stainless steel. Any hole drilled into the modular body painted surface shall be coated with an ECK corrosion inhibitor prior to installation of the part. .

Tapping plates of 6061-T6 alloy aluminum varying in widths of one quarter to one half inch shall be welded to the framing to secure the installation of equipment such as; cabinets, benches, partitions, cylinders, cot fasteners, etc. The body and panel joints shall be watertight and all openings between the chassis and modular shall be sealed. In addition a drip rail shall be supplied over each exterior compartment. The drip rail attached in such a manner as to provide for quick and easy replacement. Drips rails attached by mechanical fasteners shall not be used.

BODY MOUNTING

The mounting system shall not cause any chassis frame deformation. There shall be ten mounting points, five o each frame rail. The modular body shall have full perimeter welded sill rails of one half inch by two inch of 6061-T6 alloy aluminum and be attached to the vehicle utilizing one inch by three inch sill plates of 6061-T6 alloy aluminum. The modular body shall be welded to the sill plates at every exposed seam. At all outrigger mounting locations a double compression, neoprene rubber isolator mounts shall be used to minimize chassis vibration transfer to the modular body. The modular body and sill plates shall be attached to the frame rails using three quarter inch grade eight bolts. Any method contrary to QVM which may void the chassis warranty shall not be accepted.

FLOOR

The floor shall be at lowest level permitted by clearances, but not more than thirty three inches from the ground. The floor structure shall consist of two by two by .125 structural box section with 6061-T6 alloy aluminum. The floor structure shall be welded with eight inches of weld at every joint. The openings created for the placement of exterior compartments shall have six inches of weld to insure a smooth surface to fit the compartment in the structure. Tapping plates of one quarter inch and one half inch of 6061-T6 aluminum shall be completely welded both sides to the floor assembly. The finished floor assembly shall be securely welded to the wall structures with eight inches of weld and skipped welded every four inches to the exterior compartments. All critical load points shall be reinforced with one quarter inch by three inch by four inch gusset plates. Above the floor channels there shall be an aluminum moisture shield .050 inches thick. The entire underside of the

modular shall be sealed with a waterproof sealant. All hollow structural shapes or cavities shall be sealed utilizing an approved expandable foam.

The rear patient access shall be equipped with an exterior aluminum threshold mount to the lower door jamb. This threshold will protect the bottom door jamb, in addition the rear patient floor shall have a fourteen gauge stainless steel cot protector.

EXTERIOR STORAGE ACCOMMODATIONS

The exterior compartments shall be constructed of .090 aluminum and shall be formed by a computer controlled brake and shear to decrease the amount of welding to fully enclose the compartment. The compartment therefore, shall be water tight. The compartment shall be welded in place to the side and floor structure with an additional bracket welded to a bracket connecting the exterior wall two with the floor structure. The floor of the exterior compartments shall be at least two inches below the lower door frame lip to help prevent equipment from falling out should a door not be closed. The compartment floor shall be supported from beneath with one by two by .125 6061 T-6 rectangular tubing welded to the underside and the floor structure. All exterior compartments shall be vented above the floor line with machine stamp louvers. The exterior compartment shall be lockable with one key fitting all doors. The compartments shall be equipped with handle and door locks. Each exterior compartment shall be provided with a sealed light to be illuminated upon the door opening. The light shall be activated by a magnetic switch. A door open indicator light shall be visible on the driver's console. The compartment configuration shall be as described.

PATIENT COMPARTMENT SOUND LEVEL

Shall meet the requirements of paragraph 3.13.8 of Federal Specification KKK-A-1822-F.

INTERIOR CABINETS -Duralite Construction, Wood, CN10 compliant

INTERIOR SURFACES

All vertical edges of cabinets shall be of an aluminum extrusion with a ¾ inch radius designed to free the interior of the patient's compartment of all sharp edges or projections. The face and inside of the cabinets shall be covered by a commercial grade laminate, adhered to the cabinet face by a high quality poly vinyl adhesive using a thermal press application. The wood, adhesive and laminate shall be pressed together at 200 degrees for four minutes in a thermal platen press. There shall be no voids of the adhesive between the laminate and the cabinet surfaces.

CABINET CONSTRUCTION

The interior cabinets, squad bench assembly, shelves and doors shall be constructed of Marine Grade Featherply plywood; due to the product's ability to be customized to fulfill the needs of this agency, the additional acoustical and thermal insulation properties, repair ability, and the safety factor of not producing sharp fragments or shards in the event of a serious collision. The thickness of the finished panels used to construct the cabinets, shelves and doors shall be 3/4 inches including mica and adhesive. Any construction materials that provides anything less that 3/4 inch panels in cabinet construction is not acceptable to this agency. .

The squad bench lid shall be attached to the squad bench assembly via a stainless steel piano hinge the entire length of the bench. The squad bench shall be equipped with a locking device to automatically secure the lid upon closing. The patient compartment wall panel (behind the squad bench) and the cab compartment wall panel shall be constructed of 1/4 inch plywood and covered with color coordinating high pressure laminate.

The cabinets shall be constructed using 8 mm dowels placed no farther than 32 mm apart. The dowels shall be a hardwood and pre-glued. There shall also be .063 Aluminum corner gussets and fishplates installed in key points along the cabinet seams for additional strength.

The wood doors on the cabinets shall be flush mounted using continuous stainless steel piano hinge and a 3 mm edge banding. All doors and cabinet openings shall be covered with a 3 mm edge banding with radius edges.

INTERIOR STOWAGE ACCOMMODATIONS

The interior of the patient compartment shall provide but not be limited to a minimum volume of thirty cubic feet of enclosed cabinets. Each cabinet shall be labeled as to it's rated weight capacity. Interior cabinet, shelf and compartment space shall be conveniently located for medical supplies, devices or other equipment. All interior cabinets shall be fully lined inside with high-pressure plastic laminate. The equipment and supplies necessary for airway management shall be within easy reach of the medic at the head of the stretcher. Interior cabinet dimensions are as described.

Interior Cabinets - Duralite Construction, Wood -CN 10 Compliant

INTERIOR SURFACES

All vertical edges of cabinets shall be of an aluminum extrusion with a ¾ inch radius designed to free the interior of the patient's compartment of all sharp edges or projections. The face and inside of the cabinets shall be covered by a commercial grade laminate and adhered to the cabinet face by a high quality poly vinyl adhesive using a thermal press application. The wood, adhesive and laminate shall be pressed together at 200 degrees for four minutes in a thermal platen press. There shall be no voids of the adhesive between the laminate and the cabinet surfaces.

Does your bid comply with this requirement?

Yes ( )

No ( )

RU-05-0000-1 CABINET CONSTRUCTION

The interior cabinets, squad bench assembly, shelves and doors shall be constructed of marine grade plywood; due to the product's ability to be customized to fulfill the needs of this agency, the additional acoustical and thermal insulation properties, repair ability, and the safety factor of not producing sharp fragments or shards in the event of a serious collision. The thickness of the finished panels used to construct the cabinets, shelves and doors shall be 3/4 inches including mica, adhesive, and glue. Any construction materials that provides anything less that 3/4 inch panels in cabinet construction is not acceptable to this agency. NO EXCEPTION.

The squad bench lid shall be attached to the squad bench assembly via a stainless steel piano hinge the entire length of the bench. The squad bench shall be equipped with a locking device to automatically secure the lid upon closing. The patient compartment wall panel (behind the squad bench) and the cab compartment wall panel shall be constructed of 1/4 inch plywood and covered with color coordinating high pressure laminate.

The cabinets shall be constructed using 8 mm dowels placed no farther than 32 mm apart. The dowels shall be a hardwood and pre-glued.

The doors on the upper cabinets shall be surface mounted with European hinges and 3mm edge banding. The doors on the center and lower cabinets shall be flush mounted using continuous stainless steel piano hinge and a 3 mm edge banding. All doors and cabinet openings shall be covered with a 3 mm edge banding with radius edges.

Does your bid comply with this requirement?

Yes ( )

No ( )

RU-05-0000-2 INTERIOR STOWAGE ACCOMMODATIONS

The interior of the patient compartment shall provide but not be limited to a minimum volume of thirty cubic feet of enclosed cabinets. Interior cabinet, shelf and compartment space shall be conveniently located for medical supplies, devices or other equipment. All interior cabinets shall be fully lined inside with high-pressure

plastic laminate. The equipment and supplies necessary for airway management shall be within easy reach of the medic at the head of the stretcher. Interior cabinet dimensions are as described.

Does your bid comply with this requirement?

Yes ( )

No ( )

Headroom, 72 in. Type 1 - 170" module, #1170F/D
INTERIOR HEADROOM

The interior headroom shall be a minimum of 72 inches.

A, Compt, Single 1/2 Ht Door,Aft of CS Door Forward, 72" HR,
COMPARTMENT A

Compartment A is the passenger side forward compartment, Just aft of the CS Access door. The door opening dimensions shall be a minimum of 44 inches high and 26.75 inches wide.

The upper section of the compartment is above floor Level in the module

Curbside Entry Door, Moved forward of Compartment "A"
ENTRY DOOR

The module body shall include moving the CS access door to the forwardmost point on the curbside.

Cab, RF, At head of SB, Mid Ht Cabinet, Custom
RIGHT FRONT CABINET

The right front cabinet shall be a half height cabinet at the head of the squad bench ILOS. The door for the RF cabinet shall face the Aisle.

Door, None, Trim in Aluminum
RIGHT FRONT CABINET DOORS

The right front cabinet shall not have any doors. The opening shall be trimmed with an aluminum extrusion.

Does your bid comply with this requirement?

Yes ( ) No ( )

Net, 2" Black webbing with Metal Seat belt Buckles, Over open cabinet
RIGHT FRONT CABINET DOORS

The right front cabinet shall not have any doors. The opening shall be covered with a Black Cargo netting with Seat belt style buckels.

B1, Compt, Std, 170" Module, 72" HR, #1170F/D
COMPARTMENT B1

Compartment B1 is on the passenger side just behind the rear wheel. The door opening dimensions shall be a minimum of 19.25 inches high and 15 inches wide. The interior dimensions shall be approximately 22.5 inches high and 16.5 inches wide and 18.75 inches deep.

B2, Compt, Std, 170" Module, 72"H.R, #1170F/D
COMPARTMENT B2

Compartment B2 is the passenger side rear compartment. The door opening dimensions shall be a minimum of 81.75 inches high and 22 inches wide. The interior dimensions shall be approximately 85.0 inches high and 24.75 inches wide and 18.5 inches deep.

Cabinet, Curbside Rear, Custom
CURBSIDE REAR CABINET

The curbside rear cabinet shall XXXXX.

Does your bid comply with this requirement?

Yes ( ) No ( )

Squad Bench, Bio-Waste @ Head, 170", Std Model only
SQUAD BENCH CABINET

The squad bench cabinet shall be located on the curb side of the patient compartment over the rear wheel well. The squad bench shall be a minimum of 72 inches long and be constructed of three quarter inch birch. The lid shall be attached to the squad bench assembly via a stainless steel piano hinge the entire length of the bench. The hinge shall attach with fasteners in a vertical position through the face of the lid and not through the edge of

the cabinet and lid. The squad bench shall be equipped with a locking device to automatically secure the lid upon closing. The squad bench shall be furnished with two sets of 6 Point safety belts for seated occupants and three Two point belts for the retention of a cot when positioned on the squad bench. The anchorages for the side facing seat belt assembly shall withstand a minimum of 2,500 pounds force when tested in accordance with FMVSS 210-S5.1. A full length cushion shall be installed on the squad bench lid and on the wall as a back rest. The interior of the squad bench shall provide storage the full length of the bench. At the head of the squad bench shall be a built in trash disposal area. A trash can shall be accessible under a red flip up lid, and a sharpes container's circular opening shall be accessible through a round cutout in the squad bench lid. Both the trash can and the sharpes container may be removed from the squad bench by lifting up a sectioned portion of the squad bench lid.

Does your bid comply with this requirement?

Yes ( ) No ( )

Lid, Squad Bench, 50/50 W/Bio-Waste
SQUAD BENCH LID

The squad bench shall have a full length lid that shall be manufactured from three quarter inch birch. The lid shall be split into two fifty percent sections to allow access to each end of the squad bench separately. The lids shall be covered in color coordinating high pressure laminate.

Does your bid comply with this requirement?

Yes ( ) No ( )

Handle, Trimark, Squad Bench, STD
SQUAD BENCH LATCH

The squad bench lid shall be secured with a paddle handle that latches automatically when the squad bench lid is closed. The latch shall hold the lid secure during transit and shall not open unless the handle is lifted.

Does your bid comply with requirement?

Yes ( ) No ( )

Prop, Lid, Jedco, 90/180 Deg, 8in,
SQUAD BENCH HOLD OPEN

When the squad bench lid is lifted, it shall be held in place by a mechanical hold open.

Does your bid comply with requirement?

Yes ( ) No ( )

CS Splint,7in Deep,2 Sect,Gray Lexan Flapglass, 170 Module
CURBSIDE SPLINT CABINET

A cabinet shall be located above the squad bench near the headliner. The cabinet shall be 7 inches deep, approx 8 inches high and run the length from the curbside door to the rear wall cabinet. The cabinet shall be separated into two equal cabinets with gray Lexan Flapglass doors.

Does your bid comply with this requirement?

Yes ( ) No ( )

D, Compt, 3/4, 170" Module, 72" H.R, #1170F/D
COMPARTMENT D

Compartment D is the drivers side rear compartment. The door opening dimensions shall be a minimum of 58.5 inches high and 32.25 inches wide. The interior dimensions shall be approximately 62 inches high and 36.5 inches wide and 18.5 inches deep.

H, Cabinet, Custom
STREETSIDE REAR MIDDLE CABINET

Cabinet "H" shall be located on the street side of the patient compartment. It shall be the rear most middle cabinet and shall be XXXXX inches high, XXXXX inches wide, and XXXXX inches deep.

Does your bid comply with this requirement?

Yes ( ) No ( )

Cab H, Hinged Framed Clear Polycarbonite - CN 10 Compliant
CABINET "H" DOOR

The door to cabinet "H" shall be a hinged framed clear polycarbonate door. It shall be self latching. This door meets SAE J3058.

Telemetry Tray, Poured, Gray
TELEMETRY TRAY

The top of the telemetry cabinet shall provide a clean work area. The countertop shall be one piece with a one inch lip around the tray. The tray shall be manufactured from molded polyester resin to provide a seamless countertop. The tray shall be topped with a durable top coat of gray gel coat. NO EXCEPTION.

Does your bid comply with this requirement?

Yes ( ) No ( )

O, Cabinet, Custom
STREETSIDE MIDDLE LOWER CABINET

Cabinet "O" shall be located on the street side of the patient compartment. It shall be the middle lower cabinet just below cabinet "M" and shall be XXXXX inches high, XXXXX inches wide, and XXXXX inches deep.

Does your bid comply with this requirement?

Yes ( ) No ( )

Cab O, Gray Polycarbonite Slider - CN 10 Compliant
CABINET "O" DOOR

The door to cabinet "O" shall be a gray polycarbonate slider. The door handles shall be self latching when closed. This door meets SAE J3058.

CPR, side seat, Custom
CPR SIDE SEAT

A CPR side seat shall be located just above the rear street side wheel well. Seamless upholstered cushions shall be located on the bottom and rear wall of the seat area. Cushions shall also be located above the head area for safety.

Does your bid comply with this requirement?

Yes ( ) No ( )

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"U" Barrier Bar, Padded, 6 7/8 x 7 1/2, 1.5 inch SS, CPR Seat, Gunmetal
CPR SEAT BARRIER BAR

A 7 1/2" high x 6 7/8" wide "U" shaped 1.5" stainless steel barrier bar shall be installed even with the upper head strike area forward of the CPR side seat. This bar shall be fitted with a padded upholstery cover to match the units interior. The padding for the bar will be 1" block foam on each side of a PVC cover shaped to fit over the bar.

J, Cabinet, 72" H.R.
STREETSIDE REAR UPPER CABINET

Cabinet "J" shall be located on the street side of the patient compartment. It shall be the rear upper cabinet and shall be 18.5 inches high, 24.25 inches wide, and 19.5 inches deep.

Does your bid comply with this requirement?

Yes ( ) No ( )

Cab "J" Gray Polycarbonate Slider -CN 10 Compliant
CABINET "J" DOOR

The door to cabinet "J" shall be a gray polycarbonate slider. The door handles shall be self latching when closed. This door meets SAE J3058.

K, Cabinet, Custom
STREETSIDE REAR UPPER CABINET

Cabinet "K" shall be located on the street side of the patient compartment. It shall be the rear upper cabinet just above cabinet "M" and shall be XXXXX inches high, XXXXX inches wide, and XXXXX inches deep.

Does your bid comply with this requirement?

Yes ( ) No ( )

Cab "K" Gray Polycarbonate Slider- CN 10 Compliant
CABINET "K" DOOR

The door to cabinet "K" shall be a gray polycarbonate slider. The door handles shall be self latching when closed. This door meets SAE J3058.

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E, Compt, Std, 170" Module, #1170F/D
COMPARTMENT E

Compartment E is on the drivers side just forward of the rear wheel. The door opening dimensions shall be a minimum of 36 inches high and 39 inches wide. The interior dimensions shall be approximately 38.75 inches high and 40.5 inches wide and 18.5 inches deep. The compartment shall have double doors.

Cab,A/A, No Biowaste, w/ Recessed Suction, 170" Type 1
ACTION AREA CABINET

The action area shall provide for easy access to switches located in the action from the attendant seat, squad bench and CPR seat, if applicable. The switches shall be located in an angled cabinet on the back wall of the action area. The suction container shall be recessed into the aisle facing face of the action area cabinet below the tray surface.

Add Dogleg in Compt "E" for Recessed Suction in Face of A/A
There shall be a dogleg in the compartment "E" to allow the suction container on the interior to be recessed into the face of the action area.

A/A Tray, 160"-170",W/O Bio,Poured, Gray, MAV/1170F/1170D
ACTION AREA TRAY

The top of the action area cabinet shall provide a clean work area. The countertop shall be one piece with a one inch lip around the tray. The tray shall be manufactured from molded polyester resin to provide a seamless countertop. The tray shall be topped with a durable top coat of gray gel coat. NO EXCEPTION. This tray is mandatory to facilitate cleaning and contain any fluids or bio.

Does your bid comply with this requirement?

Yes ( ) No ( )

F, Compt, Std, Full Height, 170" Module, 72" H.R, #1170F/D
COMPARTMENT F

Compartment F is the drivers side forward compartment. The door opening dimensions shall be a minimum of 80.5 inches high and 18.25 inches wide. The interior dimensions shall be approximately 81.5 inches high and 18.5 inches wide and 18.5 inches deep.

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Without Dogleg for Stairchair in Compt "F"

L,Cabts,L1 in Angled Area,L2 std,Full F,72"HR,Std Model only
STREETSIDE FORWARD UPPER CABINET

Cabinet "L" shall be located on the street side of the patient compartment. It shall be the forward upper cabinet just above the action area. The cabinet shall be 18 inches high, 39 1/2 inches wide and 17 3/4 inches deep.

Does your bid comply with this requirement?

Yes ( ) No ( )

Cab "L1" Wood Door
CABINET "L1" DOOR

The door to cabinet "L1" shall be a solid wood door hinged on the right.

Does your bid comply with this requirement?

Yes ( ) No ( )

Latch, Southco M1, 2IN S/S,(3/4" door) Locking, (1), -CN 10 -Rated at 10lbs

Cab "L2" Gray Polycarbonate Slider -CN 10 Compliant
CABINET "L2" DOOR

The door to cabinet "L2" shall be a gray polycarbonate slider. The door handles shall be self latching when closed. This door meets SAE J3058.

Headroom, 74in. Type 1 - 170" module, #1170F/D
INTERIOR HEADROOM

The interior headroom shall be a minimum of 72 inches.

Drop Skirt, 4 inches forward of rear wheels, Both sides
DROP SKIRT

The skirt line forward of the rear wheels on both sides of the module shall be dropped 4 inches.

Module Skins, 0.125 inch
MODULE BODY SKINS

The module skins shall all be 0.125 inches thick.

Coating, Polyurethane, Per compartment (1) Each
RUBBER COATING

The interior of the compartments shall be sprayed with a Polyurethane rubber coating in a gray color. The product has high tensile strength, excellent abrasion resistance, superior elongation, high non-skid rating, and excellent UV stability and weathering characteristics.

Coating, Polyurethane, Rear Bumper Supports
RUBBER COATING

The rear bumper supports shall be sprayed with a Polyurethane rubber coating in a black color. The product has high tensile strength, excellent abrasion resistance, superior elongation, high non-skid rating, and excellent UV stability and weathering characteristics.

Compartments, .125 Aluminum ILOS
COMPARTMENT FINISH

The exterior compartments shall be manufactured using .125 aluminum.

Compartments, Sweepout
EXTERIOR COMPARTMENTS

The bottom of compartments C-1 and S-1 shall be flush with the door opening to provide for a sweep out design. Sweep out on compartment F shall allow for ease of loading the oxygen bottle.

Duraseam Doors, with Hidden Jambs
Duraseam Doors

All door frames to be cut to size using a programmable double miter saw to ashore accuracy and repeatability of components. All latch, door pins, switch and tapped hinge holes are to be added to door frame and jamb by means of a programmable milling operation to maintain consistency of all hardware cutout positions.

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The outer face of door shall be formed from one sheet of 5052-H32 aluminum. The door shall be flush with the body side. The outer skin shall be bonded to the door frame with structural adhesive that meets ASTM D 412 tensile strength, elongation, and elastic modulus. Adhesive to utilizes micro spheres to maintain a constant bond thickness around the inside skin edge to seal entire skin to frame. The door frame shall meet exterior skin with a smooth seamless transition. There shall be no seams or crevices on the door or door frame which allows the possibility of corrosion.

Both patient compartment and exterior compartment doors shall be provided with extruded rubber seal system consisting of a hollow cell bulb gasket. The gasket shall insert into an appropriately designed groove in the inner door extrusion. This will provide the best seal possible. Glued on seals or seals that are mounted to the compartment openings are unacceptable as they will easily be torn by loading of equipment stored in the compartments.

All doors shall be attached using minimum ¼-20 stainless steel hex bolts with stainless steel piano hinge with a pin size of at least 0.250 inch in diameter. The hinge must be punched with 0.265 diameter holes for exact fit of door to jamb with ¼- 20 hex bolts. Maintaining the close tolerances allows a replacement door to be fabricated that will match the old door bolt pattern that can be mounted in exactly the same place with the close tolerances.

All compartment doors shall be constructed the same as the entry doors to ensure continued door alignment and matched latching capabilities. All access doors must be encased by a door jamb that is separate from the body skin and bonded in place with the same structural adhesive as described in paragraph two on page one. After jamb is bonded to skin both skin and jamb are to be routed with the same radios as the door skin. After bonding to skin,the jamb is also welded to the 2" X 2" tubular body frame members. The door jamb shall be a 0.125"/0.380 thick 6063-T6 aluminum extrusion

The interior surface of the patient compartment doors (rear and curb side) shall be finished in a safe and attractive manner that harmonizes with the interior finish. The door panels shall be designed to allow removal without disturbing the door latching hardware. The door panels shall be attached using automotive speed clips in conjunction with foam pads to enhance sound deadening. Door panels must be flush fitting not overlay. Doors using pliable materials such as upholstery are prohibited due to greater risk of contamination by blood borne pathogens through stitching or when cut or torn.

The three (3) patient compartment doors shall be fitted with stainless steel, flush fit, "paddle latch" hardware on the interior and an "automotive style" handles on the exterior. The patient compartment doors shall be provided with a keyed lock and the rear doors and side door shall be lockable from the inside without a key per FVMSS. All
patient compartment doors shall have emergency release handles to activate rotary latches in the event of door component failure.

All entry and compartment doors shall be insulated with 2-1/2" thick closed cell block foam insulation.

When the doors are opened, the hinges, latches and door checks shall not protrude into the access area. All patient compartment doors shall employ the same type locking hardware. All door latches shall comply with requirements of FVMSS 206

The locking devices shall be two-stage rotary latches and shall be FMVSS 206 certified .Where applicable there shall be two door latches, one at the top and one at the bottom, controlled by a single locking handle. The Latches shall into an adjustable "Nader "type pin located in the door frame. The Nader pin will utilize a captive nut to provide adjustment and replacement without loss of nut plate. The locking system shall be activated from the locking handle by metal push rods.

The outside door handles shall be a rugged "automotive style" that are near flush with door skin. These handles shall provide adequate clearance for the use of gloves. The hand/ glove clearance area of the handle shall be a minimum of .812" deep and 4.125 long. On the curb side and rear doors, the inside handle shall be a "paddle style" type constructed from stainless steel and shall be equipped with an inside door lock. All exterior storage compartments and module entry doors shall be lockable with the same key.

The compartment and entry doors shall be painted separately from the body. The doors shall then be installed on the painted module jamb. A Corrosion inhibitor shall be applied to both the door frame and jamb side of the hinge leafs. Additional corrosion inhibitor to be applied in all screw holes in both door frame and jamb.

Panels, Entry, Durasafe, Stainless Steel, w/ Chevrons, Reflective Logo, STD

DOOR PANELS

The upper and lower portion of the curbside and rear access door panels shall be brushed stainless steel. The center shall be reflective chevron covered aluminum. The lower panel shall have the Brand logo cut out of the panel and an insert with reflective 3M material installed behind the panel.

delete B1

Housing, Fuel Fill, Cast, F1/C1/D1/M2

FUEL FILL HOUSING

A cast aluminum fuel fill housing shall be installed according to the chassis manufacturers instructions.

Divider, Vertical, B2, 3/16" Thick, Recessed Adj Track,Std Model only

EXTERIOR VERTICAL DIVIDERS

One (1) vertical divider(s) shall be located in compartment B2. They shall be manufactured of 3/16 inch thick aluminum and be painted with scratch resistant gray rubber coating. The divider shall be approximately 11 inches wide and extend from the top of the compartment to the bottom.

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Divider, Vertical, (1), LF, O2 Height
EXTERIOR VERTICAL DIVIDERS

One (1) vertical divider(s) shall be located in the LF compartment as directed by this agency. They shall be manufactured of .188 aluminum and be painted with scratch resistant gray rubber coating. The divider shall be approximately 11 inches wide and extend from the bottom of the compartment to the height of the oxygen bottle.

Shelf, Adjustable,(1), RF Cabt Custom
EXTERIOR COMPARTMENT SHELF

The exterior compartment shelves shall be manufactured from 0.125 inch aluminum. Each shelf shall have a 0.125 inch thick ribbed rubber mat. The shelf track shall be a heavy duty extruded aluminum. There shall be a shelf in the RF Compartment/Cabinet.

Shelf, Fixed, Cmpt E, for Electrical storage, w/ Divider
EXTERIOR ELECTRICAL SHELF

A fixed exterior shelf shall be located in the left center compartment "E" near the top of the compartment. It shall serve the sole purpose of holding electrical equipment.

Window,Upper,CS/Slider,Rr/Fixed,Priv Tint,PAN,Std Model only
STEP WELL AND WINDOWS

The curb side door step well shall have a light recessed into wall one of the step well. It shall be automatically lit when the side and rear doors are opened. The light shall be activated by a switch. The step well shall be finished with a polished aluminum diamond plate. There shall be a window in each of the three patient access doors. The window frame shall be of an extruded aluminum design with a protective anodized finish. The curbside entry door window shall include a sliding window to allow for fresh air when needed. The two rear door windows shall have fixed glass. The glass shall have a privacy tint.

The curbside window shall have the following dimensions: 26 1/2 inches high and 19 1/2 inches wide. The rear windows shall be 22 1/2 inches high and 13 1/2 inches wide.

Handles, Patient Entry, Trimark Black/Chrome "SafePass" STD
PATIENT ENTRY DOOR LATCHES, HINGES AND HARDWARE

When the doors are opened, the hinges, latches and door checks shall not protrude into the patient compartment. All patient doors shall employ the same type of locking hardware. All door latches shall comply with FMVSS

206. The locking devices shall be two stage rotary latches and shall be in accordance with FMVSS. There shall be two door latches, one at the top and one at the bottom, controlled by a single locking handles. The latches shall lock into an adjustable Nader type pin located in the door frame. The Nader will utilize a captive nut to provide adjustment and replacement without loss of the nut plate. The door latching mechanism shall have an upper and lower patented "Emergency Release Latch" to allow egress from the vehicle if a system failure should occur.

The door handles shall be Trimark OEM style handle with a large enough space for gloved hands to operate the handle. The door handles shall be free floating with 1008 cold rolled steel mechanical components with Nitrotec treated wear components. The locks shall be a KeyOne Plus lock cylinder with a reversible key. The KeyOne Plus system allows the lock core to be removed with a special key and allows it to be rekeyed for additional security and keying fleets the same. The rear trailing door shall have a patented side release paddle handle that removes the necessity of reaching inside the patient compartment door. The door entry system shall have been tested to 100,000 cycles.

The locking system shall be from the locking handle by aluminum push rods. The patient compartment doors will be equipped with an inside door lock. All entry doors shall have horizontal aluminum reinforcements welded to the door frame and the entry doors shall have closed cell block foam insulation.

Handle, Module Compt, Trimark, Black/Chrome, STD
COMPARTMENT DOOR LATCHES, HINGES AND HARDWARE

When the doors are opened, the hinges, latches and door checks shall not protrude into the patient compartment. All compartment doors shall employ the same type of locking hardware. All door latches shall comply with FMVSS 206. The locking devices shall be two stage rotary latches and shall be in accordance with FMVSS. There shall be two door latches, one at the top and one at the bottom, controlled by a single locking handles. The latches shall lock into an adjustable Nader type pin located in the door frame. The Nader will utilize a captive nut to provide adjustment and replacement without loss of the nut plate.

The compartment door handles shall be Trimark OEM style handle with a large enough space for gloved hands to operate the handle. The door handles shall be free floating with 1008 cold rolled steel mechanical components with Nitrotec treated wear components. The locks shall be a KeyOne Plus lock cylinder with a reversible key. The KeyOne Plus system allows the lock core to be removed with a special key and allows it to be rekeyed for additional security and keying fleets the same. The compartment door entry system shall have been tested to 50,000 cycles. The door handle shall be mounted to the exterior door panel using mechanical fasteners and rubber gaskets that will eliminate the possibility of electrolysis. All doors shall have closed cell block foam insulation.

ELECTRIC DOOR LOCK PACKAGE OPTIONS: Click to add

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Door Locks,Electric, Trimark, (1)DOOR, Entry Door
POWER DOOR LOCKS

The module entry doors shall include power door locks that enable remote activation.

Door Locks,Electric, Trimark, (1)DOOR, Compt Door
POWER DOOR LOCKS

The six (6) compartment doors shall include power door locks that enable remote activation.

Switch,Momentary Rocker,Activate Elect Door Locks
A momentary rocker switch shall be located as determined by this Agency and enable the power door locks for the compartment and entry doors.

Circuit, OEM Door Lock to activate Mod Doors (Not Dodge)
A circuit shall be installed to enable the power door locks for the compartment and entry doors to be operated off the OEM cab door lock switches.

Intermotive CAN module for 2017+ Ford F-series

Circuit, OEM Door Lock to activate Mod Doors(not Dodge)
OEM DOOR LOCKS

The OEM electric door switches shall lock and unlock the compartment and entry doors.

Switch, Stealth, Cab Doors
A stealth switch shall be located in the grille area unless otherwise specified by this Agency and enable the power door locks for the cab doors. The switch must be weather resistant.

Hold Opens,Rr Doors,Cast,Grabber (2), 5.5", Std Model only
REAR DOOR HOLD OPENS

The rear doors shall be held open by (2) 5.5 inch Cast Grabber. The U shaped piece shall be attached to the door. It shall enter into a rubber insert when the door is in the open position. A corrosion inhibitor shall be applied to the mounting holes prior to installation.

Hold Open, Gas Strut, Ext Compt, 30lb, Std
COMPARTMENT DOOR HOLD OPEN

Six (6) Compartments shall have a 30 pound gas strut in lieu of a spring loaded hold open.

Hold Open, Gas Strut, RF Compt, 30lb, Std
COMPARTMENT DOOR HOLD OPEN

The right front compartment shall have a 30 pound gas strut in lieu of a spring loaded hold open.
Holdopen, Gas Strut, CS Entry Door, 35# Standard.
CURBSIDE ACCESS DOOR HOLD OPEN

The curbside access door shall have a gas strut hold open to hold the door at approximately 90 degrees.

Flare, Fender, Bright Finish, Std Model only
REAR FENDERS

Bright finish aluminum fender flares shall be provided around the rear wheel well openings to provide protection from wheel wash. A corrosion inhibitor shall be applied to the mounting holes prior to installation.

stainless steel wheel well trim

Bumper,Rear,w/ Skids & Flip Up,F1/C1,w/LED DOT lts,Std Model
BUMPERS AND STEP

The chassis manufacturer shall supply the vehicle's front bumper. The rear bumper and step assembly shall be a single unit constructed of ten gauge steel "C" formed channel and .100 inch thick aluminum tread plate as measured at the thinnest point of the tread plate. The center step of the bumper assembly shall be designed to allow it to flip up and out of the way to facilitate patient loading. The flip up section of the of the rear bumper shall be diamond plate to meet the requirements of KKK-A-1822-F specification. The diamond plate flip up step shall be punched with three rows of raised star-shaped holes to create additional non-skid surface. A 1.5" x 2" x 0.125" aluminum box tube shall be welded inside the step full width on the side farthest from the rear of the vehicle. A stainless steel hinge with a center pin of .250 inch shall be used to attach the flip up section of the rear step to the main rear bumper assembly. There shall be eye beam constructed skid plates with tow eyes mounted as part of the frame of the bumper. This assembly shall be bolted to the frame of the chassis with 5/8 inch Grade 8 bolts. There shall be a one half inch clearance between the bumper assembly and the rear of the modular body to allow water drainage and inhibit water collection. There shall be a two inch red LED marker light on the street side and curb side of the bumper assembly. These lights shall be a sealed unit and the

connectors protected with an adhesive heat shrink. The lights shall illuminate with the vehicle head light control.

Running Boards, Standard, 2017+ F450, w/ Gator Grip, #1153F/1170F
RUNNING BOARDS

Diamond plate running boards shall be installed just under the cab doors for both the driver and passenger. The diamond plate step shall be punched with rows of raised star-shaped holes to create additional non-skid surface. The boards shall allow for easy entry into the cab.

Skirtrails,Extruded "C" channel (E-one Style) ILOS
SKIRT RAILS

Skirt rub rails will be installed to protect the lower body and will extend the entire length of the body on the curb and street sides, exclusive of the wheel well area. They shall be made from custom 'C' channel that is cut at 45 degree angles on the ends. The rub rail shall be bolted to the lower side wall panel with ¼" nylon spacers. A corrosion inhibitor shall be applied to the mounting holes prior to installation.

Tape, Reflective, White, For Extruded Skirtrails
SKIRT RAIL REFLECTIVE TAPE

Reflective tape shall be inserted into channel in extruded rubber skirtrail and secured with stainless steel screw at each end. Color shall be white.

Lights, Skirtrail, Whelen Strip (3 each side) Red/ White/ Red
SKIRT RAIL LIGHTING

There shall be three Whelen Strip-Lite Super LED 5MM series 11.5" strip lights per side of the module in the skirt rail. There will be a Red Strip-Lite at the front and rear of the module and a White Strip-Lite just forward of the rear wheels. These lights shall flash when the Primary mode of the emergency warning lights is activated.

Stone Guard, Front, Dia Plate, 16.5" High
FRONT STONE GUARDS

The lower front corners of the patient compartment shall have stone guards attached to the corner extrusion. They shall be diamond plate aluminum and extend from the bottom edge of the corner extrusion up approximately 17 inches. A corrosion inhibitor shall be applied to the mounting holes prior to installation.

Kickplate, Under-Ride Bumper, w/ Tag recess and (2) 600 series lights

REAR KICK PLATE (Under-ride)

Above the rear bumper and below the rear doors, there shall be a full length riser of aluminum diamond plate for a protective kick panel. The kick panel shall be securely fastened with ceramic coated stainless steel screws to inhibit rust that could result from electrolysis and run the full rear width of the module. Pop rivets are not acceptable. This kick panel shall be above the rear bumper height to allow the bumper to ride under the module in case of a minor collision minimizing damage to the module. There shall be a 1/4 inch thick rubber flap secured to the bottom of the kickplate and extending below the top of the bumper to prevent road debris from accumulating on top of the bumper pods.

Holder, License Plate, Cast, LP0002-1, For Underride Bumper
LICENSE PLATE HOLDER

A Cast Products license plate holder shall be installed in the rear kickplate.

Sill Protectors, Stainless, All Compts, Std Model only
COMPARTMENT SILL PROTECTORS

All compartments shall have a stainless steel sill protector. The sill protectors shall be manufactured from 20 gauge stainless steel and cover the bottom door frame protecting it from scratches.

Thresholds, Stainless Steel, Painted with Black Poly-urea coating- Standard
THRESHOLDS

The curbside and rear entry thresholds shall be stainless steel coated on the upper side with a black poly-urea coating to help prevent slipping. This coating shall be a permanent spray on coating not a grip tape adhered to the stainless steel.

Mud Flaps, Rear, W/Logo, Std Model only
REAR MUD FLAPS

Wheeled Coach Logo mud flaps shall be installed just behind the rear tires.

PAINT/BELTS:

PREPARATION FOR PAINTING, COLOR AND MARKINGS

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10.1 Color, Paint and Finish. Ambulance body and all attached equipment exterior surfaces, except polished metal parts, shall be thoroughly cleaned, treated, and coated with a firm primer and preservative with rust inhibiting properties, and painted white to match the OEM chassis. Ferrous metal interior surfaces shall be painted or, when not exposed for painting, shall be treated or coated to resist corrosion.

The final stage manufacturer's painted components shall have a paint film not less than 1.25 mils. thick and a minimum total thickness of 4 mils., including primers. The final film of painted surfaces shall be smooth and uniform, free of grit, streaks, blushing, runs, sagging, blisters, "fish-eyes, "orange peel", pinholes, or other surface irregularities. Exterior finish paint shall not be required on the underbody and inside surface of the body skirting. The modular body shall be painted with an AkzoNobel (or equal) high quality automotive polyurethane acrylic paint.

10.1.1 All modular body doors shall be removed prior to paint and shall be painted separately from the modular body. After painting, the doors are to be re-installed. The doors shall be painted using the same method as the modular body.

10.2 Modular Body Preparation. The entire exterior of the modular body shall be cleaned and prepared for painting according to the following minimum requirements:

10.2.1 Substrate Preparation:

- The modular body shall be thoroughly degreased using an acetone degreaser and the wipe on – wipe off method.
- Any areas that require filling will be first be abraded with 80 grit sandpaper using a DA orbital sander. If any welds require grinding, 24 grit paper shall be used. Any plastic filler used shall be mixed and applied per Manufacturer's instructions. After filler application, the surface shall be prepared using 80 grit sandpaper followed by 120 grit paper using a DA orbital sander.
- A minimum of two (2) coats of Wash primer EMCF shall be applied to all plastic filler areas allowing to flash five (5) minutes between coats.
- The Wash primer shall be sanded with 320 grit sandpaper using a DM orbital sander.
- A fine textured glazing putty shall be used to fill any additional surface flaws, pinholes and/or scratch marks. After curing, the surface shall be sanded with 320 grit sandpaper using a DA orbital sander.
- The substrate shall be sanded with 180 grit sandpaper using a DA orbital sander to remove any final imperfections.
- The modular body shall again be thoroughly degreased using M-600 degreaser and the wipe on – wipe off method.
- All corner extrusions and the top drip rail to be caulked as necessary.

10.2.2 Aluminum Pretreatment. The modular body shall be pretreated with a chromium free conversion coating that is specifically formulated for treating aluminum and its alloys. Prior to the pretreatment application, all diamond plate is to either be removed or properly masked to prevent staining. After application, the modular body shall again be thoroughly degreased using M-600 degreaser and the wipe on – wipe off method.

10.2.3 Wash Primer. The modular body shall be primed with a medium build, chromate-free, self-etching wash primer that offers excellent corrosion resistance without the use of metal preps and conditioners. There shall be a minimum of two (2) medium wet coats applied allowing a five (5) minute flash between each coat. The final coat shall be allowed to flash for 30 minutes. The primer shall be sanded with 320 grit sandpaper using a DA orbital sander or 400 grit dry sandpaper by hand. After sanding,
the modular body shall again be thoroughly degreased using M-600 degreaser and the wipe on – wipe off method.

10.2.4 Sealer. To enhance the adhesion between the substrate and top coat of paint, a transparent sealer/adhesion promoter shall be applied to the modular body. A minimum of two (2) wet coats of sealer shall be applied. The initial coat shall be allowed to flash 10 minutes before the application of the second coat. Once the sealer has cured, the body is the be sanded smooth with 320 grit sandpaper using a DA orbital sander.

10.2.5 Top Coat. The top coat of paint shall be a high solid two-component polyurethane enamel, suitable for automotive refinishing, trucks and equipment. Paint shall provide an easy application with excellent flow along with superior gloss and durability in a two-coat application.

10.26 Final Sand and Buff The entire exterior surface of the module shall be sanded with a minimum 1200 to 1500 grit sand paper and then followed by 3000 grit wet sandpaper. The exterior of the module will then be polished using the 3M 3000 buffing system with 3M Perfect-It III buffing compound to provide a smooth, high gloss final surface finish. This process shall provide a smooth, high gloss finish that is resistant to scratching and chipping. If proper vehicle care is taken.

10.3 Color Standards and Tolerances. Shall be as required by paragraph 3.16.2.1 of Federal Specification KKK-A-1822F.

10.4 Salt Spray Resistance. Shall meet the requirements of paragraph 3.16.3 of Federal Specification KKK-A-1822F.

Paint, OEM White Sikkens Crossover Codes

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Pinstripe, Black, Non-Reflective, 1/4 In
PINSTRIPE

A black non- reflective 1/4 inch pinstripe shall be installed along the paint belt edges.

Pinstripe, White, Reflective, 1 In
PINSTRIPE

A white reflective one inch pinstripe shall be installed along the paint belt edges.

Pinstripe,Reflective White 4 inch
REFLECTIVE STRIPE

A white reflective four inch stripe shall be installed as directed by this Agency.

Lettering, Logo, Star of Life

Roof Star, White Border, Installed, Std Model Only
ROOF TOP MARKINGS

A "Star of Life" of not less that 32 inches and conforming to KKK-1822F section 3.16.4.C shall be installed on the ambulance rooftop.

ELECTRICAL SYSTEM: Circuitboard
ELECTRICAL SYSTEMS AND COMPONENTS

The emergency medical vehicle's electrical system must meet KKK-A-1822-F Section 3.7.1. This agency will specify systems, components, materials, and production methods within this section. However, a failures can occur whether the vehicle is under warranty or outside the warranty parameters. This agency operates the vehicle on a twenty four hours a day, seven day a week (24/7) basis. Therefore, the primary manufacturer will provide a local service facility during regular business hours and a 24/7 support service staffed by trained technicians to assist this agency.

Local service facility_____
_____

24/7 Service assistance, phone number_____

The driver and patient compartment control consoles shall be constructed in a way that the switches and any gauges are easily serviced. They shall be accessible through service panels. These panels will be secured in the closed position in a positive manner, yet can be easily opened for service.

5V-10-0050

The control console gauges shall be internally illuminated and controlled by the headlight switch rheostat. All lights and fixtures installed on the module exterior shall have a corrosion inhibitor applied to all mounting holes prior to installation.

5V-10-0055

The driver and patient console shall incorporate full size "Euro-Style" rocker switches. The switch assembly shall be 1.97 inches tall by 1.064 inches wide with silver plated copper contacts and a .250 inch spade type terminal. The rocker switch shall incorporate a LED indicator lamp and rated at 15 Amps continuous service. The switch and rocker shall be of a thermo set molding material. The complete switch assembly shall be designed to withstand one thousand (1,000) volts RMS dielectric test. The switches shall have a positive "throw" feel and an audible click upon activation and deactivation

5V-10-0060

The rocker switches, as described in section 4.1.3, shall have integrated label lens area that is illuminated by two independent LED's. The LED brightness shall be controlled by the headlight rheostat. The label shall be white legends on black poly carbonate background.

5V-10-0065

The OEM throttle monitor shall be mounted in the primary manufacturer's console. It shall be mounted to be easily accessible to the driver.

5V-10-0070

WARNING INDICATORS

The electrical system shall incorporate a warning light panel in the driver's console. It shall provide indicator lights for showing when a patient compartment door(s), side and rear, are open. This shall be a flashing red LED light. There shall be an exterior compartment "door open" warning light. This shall be a flashing red LED light of the same size.

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5V-10-0075

A battery indicator light shall be provided. It will be a green light located in the warning light panel. It shall illuminate when the battery switch is in the "ON" position. The light shall be steady burn to indicate the batteries have been selected.

5V-10-0080

WIRING INSTALLATION

The ambulance body and accessory electrical equipment shall be served by circuit(s) separate and distinct from the vehicle chassis circuits. Wiring methods must conform to SAE J1292. All wiring provided by the primary manufacturer shall be copper and conform to all the SAE J1127 and SAE J1128 requirements. All low tension primary cable shall have GXL or better insulation. All low tension battery cable shall have SGX insulation. Documentation from the wiring manufacturer that the wire used by the primary manufacturer is in compliance with this requirement shall be submitted with the proposal. Bids not meeting this requirement will not be accepted.

5V-10-0085

The wiring shall be permanently color coded to identify wire function. Wires shall be permanently heat ink embossed with both number and function codes. The function code shall be the descriptive name of the circuit served. The number code shall be the exact purpose of that circuit. This number code shall be completely referenced in a detailed wiring schematic provided with the vehicle. The function and number code shall be embossed at a minimum of four inch intervals the entire length of the wire terminating into all switch and control panels. The use of multi-conductor cable must be function and color coded and shown on the wiring diagram.

5V-10-0090

Wiring shall be routed in conduit or high temperature looms with a rating of 300 degrees Fahrenheit where necessary to protect it. All added wiring shall be located in accessible, enclosed, and protected locations and kept at least six inches from the exhaust system components. Electrical wiring and components shall not terminate or be routed in the oxygen storage compartment except for the oxygen controlled solenoid, compartment light, and switch. All conduits, looms, and wiring shall be secured to the body or frame with insulated metal cable straps in order to prevent sagging and movement which results in chafing, pinching, snagging or any other damage. All apertures on the vehicle shall be properly placed in a grommet and sealed for

passing wiring and conform to SAE 1292. All items used for protecting or securing the wiring shall be appropriate for the specific application and be standard automotive, aircraft marine, or electronic hardware.

5V-10-0095

Circuit connections shall be made on barrier style terminal blocks utilizing binding post screws for positive mechanical connections. minimize the potential for wiring shorts and voltage drops all wiring terminals shall be brass, tin plated, annealed, ETP copper with nylon high heat insulation. Serration's, inside the barrel, provide maximum contact and tensile strength after crimping. Connection shall be machine crimped, to UL standards, with a high quality crimping tool that produces crimps for a given size wire and terminal that are precisely alike in appearance and performance. Crimping pressure must be controlled by a ratchet device on the hand tool or a corresponding pre-calibration in the crimping jaws of an automated machine. Crimping pressure can neither over-stress nor under stress the terminal-barrel-machined dies.

5V-10-0100

No splices shall be permitted except for connection of "pig-tail" devices. Butt splices are permitted for connection of "pig-tail" devices. The use of IDC (**I**nsulation **D**isplacement **C**onnector) connectors, i.e.: "3M Scotchlok" type fasteners, is not acceptable.

5V-10-0105

The various wiring installations as supplied with this vehicle shall be of the automotive "harness" design. For ease of identification and future replacement these harnesses shall be engineered and manufactured in the following sections.

1. Engine compartment harness.
2. Driver's control console harness.
3. Main module harness.
4. Chassis rear lighting harness.

This agency is extremely concerned the primary manufacturer has the ability to control, warranty and replace the harnesses. To that end, the primary manufacturer shall not subcontract the construction of these harnesses.

5V-10-0110

WIRING CRITERIA AND CIRCUIT BOARD

All wiring devices, switches, outlets, etc., except circuit breakers, shall be rated carry a minimum of one hundred and twenty-five percent (125%) of the maximum ampere load for which the circuit is protected. All wires carrying a load of more than 5 amperes shall be a minimum of 16 AWG. There shall be a master electrical component panel located in the vehicle. It is preferred that the master panel be mounted on or near the bulkhead of the patient compartment. Standard circuit breakers, relays, and diodes shall be mounted on a printed circuit board that is easily accessible. All components on the circuit board are to be permanently labeled as to their function.

5V-10-0115

The printed circuit board shall be designed and manufactured as follows: A screen printed board with all circuits fully numbered and labeled. The circuit board shall be a double-sided copper trace printed circuit with a double-sided laminated isolator. The board shall be non-photo image able solder mask over bare copper with hot air leveled solder over non masked copper. Fuse capacity is the beginning factor in calculating trace width to ensure proper current carrying capability. The circuits shall then be oversized as much as space permits for maximum cooling of the board. All holes shall be plated through. The terminal strips shall be mounted on the board for connection of the above mentioned wiring harness. Automotive transient suppressers must be incorporated into circuit board at the point of cable entry to the board. All relays must include built in noise suppression. The suppression must be accomplished with a IN4001 parallel with the coil. The relay must have a 40 ampere continuous contact rating with one form C contact arrangement. Normally open contact must have a maximum initial voltage drop of 200 millivolts at 40 ampere contact load. The relays must withstand 24 VDC for five minutes conducting rated contact current in case of accidental 24 volt jump start condition. Circuit board options must be programmable via jumpers to facilitate addition of options. The color of wire and circuit number must be screened printed at the terminal block connections on the board for rapid identification and relation to schematics.
Documentation that the above requirements are met must be included with the bid document.

5V-10-0120

The printed circuit board shall incorporate red LED indicators for on board diagnostics for input, output, and switching circuits for troubleshooting at a glance.

5V-10-0125

CIRCUIT BOARD CERTIFICATION

The printed circuit board must meet the following specifications:

PORT 5 VOLT DC POWER USB STYLE

The Cab console switch panel shall be furnished with a 5 volt DC, 4.8 ampere capacity, separately protected circuit, with a Dual USB outlet.

Power Source, 12VDC, 20A, Ignition/Shoreline Hot
POWER SOURCE

A 12VDC power source shall power customer supplied portable battery charging devices. It shall be 20 amp and ignition/shoreline switch hot. The power source shall be split into two locations tagged and identified (1) behind driver's seat and (1) behind action area in module.

Power Source,12 VDC,15 Amp (+-), Std Model only
POWER SOURCE

A 12VDC, 15 amp power source shall power shall be installed in a location as determined by this Agency.

Power Source,12 VDC,30 Amp (+-), Std Model only
POWER SOURCE

A 12VDC, 30 amp power source shall power shall be installed in a location as determined by this Agency.

Camera - Exterior Back-up, Rostra Rear Doors for F-series

Patient Module camera

Shoreline Indicator Light, 125 VAC, LED, Green
INDICATOR LIGHT

A Shoreline Indicar Light shall be installed near the shoreline inlet. A green light shall indicate that there is power from the GFI breaker to the shoreline inlet.

Does your bid comply with this requirement?

Yes ( ) No ( )

Super Auto Eject,20 amp, ILOS, White, Std Model Only

SHORELINE INLET

A 20 amp Super Auto Eject shoreline inlet with a GFI and interrupter shall be installed and located above compartment E.

Does your bid comply with this requirement?

Yes ( ) No ( )

125 VAC OUTLETS:
125 VOLT AC UTILITY POWER

125 volt AC utility power must meet KKK - A1822 - E. Utility power shall be as describ-ed in KKK - A1822 - E paragraph 3.7.8.1. Electrical 125 volt AC receptacles shall be as described in KKK - A1822 - E paragraph 3.7.8.2.

Does your bid comply with this requirement?

Yes ( ) No ( )

Outlet, 125 VAC, Duplex, (2), STD
125 VAC OUTLETS

Two 125VAC duplex outlets shall be installed in the patient compartment. One outlet shall be located in the action area, and one outlet shall be located in the right front cabinet.

Does your bid comply with this requirement?

Yes ( ) No ( )

Outlet, 125 VAC, Duplex, in A/A, IATS
ADDITIONAL 125VAC OUTLET

An additional 125VAC duplex outlet shall be installed in the action area.

Does your bid comply with this requirement?

Yes ( ) No ( )

Battery Charger, Conditioner, Progressive Dynamics, PD9130
BATTERY CHARGER

A Progressive Dynamics, PD9130 Auto battery charger shall be installed. It shall be a 12 amp charger/conditioner.

Inverter/Charger, Vanner 20-1050CUL-DC
INVERTER/CHARGER

A Vanner 20-1050CULW inverter charger shall be installed. It shall power the 110VAC outlets. A switch shall be installed in the action area.

Does your bid comply with this requirement?

Yes ( ) No ( )

Meter, Analog, Volts, F1
VOLTMETER

The vehicle shall include a Datcon analog voltmeter. It shall be located in the front center console next to the ammeter.

Does your bid comply with this requirement?

Yes ( ) No ( )

Alarm, Low Voltage, Audio/Visual
LOW VOLTAGE ALARM

The electrical system shall be monitored by a system that provides both an audible and visual warning in case of low voltage in the ambulance. The alarm shall sound if the system voltage at the batteries drops below 11.8 Volts for a 12 Volt nominal system for more than 120 seconds.

Switch, Emergency Master,Non Seq
EMERGENCY MASTER SWITCH

An Emergency Master Switch shall be located in the Engine Cover Console just the right of the Master Switch. The engaged emergency master switch shall turn on all of the emergency lights if the master switch is in the on position.

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Does your bid comply with this requirement?

Yes ( ) No ( )

Siren Speakers, Cast SAD/PSAD3827-20FSD-1, F-Series 2020, Std

Siren, Whelen, WS-295-SLSA1, Standard
SIREN, PUBLIC ADDRESS SYSTEM

The ambulance shall be equipped with hands free electronic siren with silent testing. The siren shall be a Whelen WS-295-SLSA1.

Does your bid comply with this requirement?

Yes ( ) No ( )

additional siren with switch

Airhorn,Buell 5440 Comp, 12"&15" Horns
AIR HORNS

A Buell 5440 air horn system shall be installed with two horns. One horn shall be 12 inches long and one horn shall be 15 inches long. The compressor shall be mounted in compartment E. The trumpets shall be mounted XXXXX.

Does your bid comply with this requirement?

Yes ( ) No ( )

Switch, Siren/Horn Thru Horn Ring
SIREN/HORN SWITCHING

The siren shall be switched through the horn ring.

Does your bid comply with this requirement?

Yes ( ) No ( )

Alarm, Back-Up, Auto Reset, Std Model only
BACKUP ALARM

A backup alarm with a cut off switch shall activate when the vehicle is shifted into reverse. The alarm shall automatically be reset and engage when the vehicle is placed in reverse again. The device must meet OSHA and SAE J994 requirements, and shall be rated (SAE) for Type C or B.

Does your bid comply with this requirement?

Yes ( ) No ( )

VEHICLE EXTERIOR LIGHTING
VEHICLE EXTERIOR LIGHTING REQUIREMENTS

The basic exterior ambulance lighting shall comply FMVSS standard number 108 and the requirement herein and include:

1. Amber front, rear directional signals, red brake and hazard warning lights.
2. Front and rear side marker lights.
3. Back up light(s).
4. Loading lights.
5. Clearance lights
6. Ambulance emergency lights.
7. Flood lights.
8. Spotlight(s)

Note: This agency is concerned for the safety of the patients, crew, and the public sharing the roadways. Therefore, this agency requires the primary manufacturer incorporate recessed DOT marker lights at the highest point of the vehicle. The marker lights shall be visible 360 degrees. In addition each corner marker light shall be visible 180 degrees, also at each corner the marker light lens cover shall be tilted upward on a 45 degree angle be visible above the horizontal plane for 360 degrees. These measures will insure the vehicle will be visible in low light conditions with the headlights in the "on" position. **Bolt on upper clearance lights or clearance lights within the support side extrusions will not be acceptable**. The rear side marker light shall be a minimum of two inches in diameter and shall function as a turn signal indicator as described in KKK - A1822 - E.

Does your bid comply with this requirement?

Yes ( ) No ( )

F3-10-1000

EMERGENCY LIGHTING SYSTEM

The emergency lighting system must provide the vehicle with 360 degrees of visual warn-ing ability The system must display highly perceptible and attention getting signals that function in a modal system and convey the message in the primary mode to clear the right of way. In the secondary mode hazard vehicle stopped on right of way.

Does you bid comply with this requirement?

Yes ( ) No ( )

F3-10-2000

The basic warning light system shall contain twelve red, one clear and one amber light These lights shall function in a dual mode system as shown in KKK-A-1822-F and meet the physical and photo metric requirements of paragraph 3.8.2.1 of that same document. The upper body warning lights shall be identical and mounted at the extreme upper corner areas of the ambulance body below the horizontal roof line, with the single clear light mounted between the two front facing red upper corner lights and the amber light centered above the rear doors. The two red grill lights shall be mounted per KKK-A-1822-F specifications without compromising the chassis manufacturer's air intake into the engine compartment.

Does your bid comply with this requirement?

Yes ( ) No ( )

F3-10-3000

PHOTO METRIC AND PHYSICAL REQUIREMENTS

As specified by KKK-A-1822-F. All emergency light switches shall be labeled as specifi-ed in paragraph 3.7.11 of KKK-A-1822-F, and the primary/secondary mode switch(s) shall have an indicator light to show the driver which mode is activated. All warning light control switches, as described in section 4.3.1 of this document, shall be located in the driver control console and arranged to provide the warning signal modes and combinations as specified in Table 1 of KKK-A-1822-F, page 19. An independent test-ing laboratory will certify that the system meets these requirements. Test documents to be included with this proposal.

Does your bid comply with this requirement?

Yes ( ) No ( )

Light, 9L, Single Row Super LED, Whelen, Clear ,ILOS, 90C02FCR
one (1) Whelen 90C02FCR Clear Single Row Super LED light(s) shall be located as directed by this Agency.

Light, Clearance, Amber LED, ILOS
MARKER LIGHTS

Three amber clearance lights shall be installed on the front roof rail.

Does your bid comply with this requirement?

Yes ( ) No ( )

Light, 9L, Single Row Super LED, Whelen, Amber, Clear Lens,ILOS, 90A02FCR
one (1) Whelen 90A02FCR Amber Single Row Super LED light(s) shall be located as directed by this Agency.

Light, 9L, Super LED, Whelen, R/B,Clear Lens,ILOS, 90RB5FCR
A Whelen 90RA5FCR Red/Amber Super LED light shall be located XXXXX.

Does your bid comply with this requirement?

Yes ( ) No ( )

Light,5L LIN6,Whelen,Red,Red Lens,50R02ZRR, Std, F1/D1 Only
A Whelen 50R02ZRR Red Super LED light shall be installed XXXXX. The lense shall be Red and the LED lights shall be Red.

Does your bid comply with this requirement?

Yes ( ) No ( )

Housing, 5L Series, #5LSMAC, (1),Std, F1/D1 Only
Whelen flanges shall be installed on XXXXX lights.

Does your bid comply with this requirement?

Yes ( ) No ( )

Light, 5L LIN6, Whelen, Red, Red Lens,50R02ZRR, IATS
A Whelen 50R02ZRR Red Super LED light shall be installed XXXXX. The lense shall be Red and the LED lights shall be Red.

Does your bid comply with this requirement?

Yes ( ) No ( )

Housing, 5L Series, #5LSMAC, (1)
Whelen flanges shall be installed on XXXXX lights.

Does your bid comply with this requirement?

Yes ( ) No ( )

Flange, 5L Series, #5FLANGEC, (1)
Whelen flanges shall be installed on XXXXX lights.

Does your bid comply with this requirement?

Yes ( ) No ( )

Light, Whelen, LINZ6R, LED-Red, Std
A Whelen, LINZ6R RED, Super LED Red light shall be installed XXXXX.

Does your bid comply with this requirement?

Yes ( ) No ( )

Corner Cap Lts,Multi-LED,(2)Amber(2)Red w/Flashers,Std Model
CLEARANCE LIGHTS

The primary manufacturer shall incorporate DOT marker lights at the highest point of the vehicle. The marker lights shall be visible 360 degrees. In addition, each corner marker light shall be recessed and visible 180 degrees. Also at each corner, the marker light lens cover shall be tilted upward on a 45 degree angle to be visible above the horizontal plane for 360 degrees. These measures will insure the vehicle will be visible in low

light conditions with the headlights in the "on" position. Bolt on upper clearance lights or clearance lights within the support corner extrusions will not be acceptable. Amber lenses shall be installed on the front corners and Red lenses shall be installed on the rear corners. The light shall be LED and flash at high intensity when activated through a separate switch located on the cab console..

Does your bid comply with this requirement?

Yes ( ) No ( )

Light, Clearance, Red LED, Std Model only
MARKER LIGHTS

Three red clearance lights shall be installed on the rear roof rail.

Does your bid comply with this requirement?

Yes ( ) No ( )

Light, LED, Whelen, Clear, #9SC0ENZR, 24 LED, ILOS, (1) W/ Chrome Flange
EXTERIOR FLOOD LIGHTS

Four Whelen 9SC0ENZR Clear LED lights shall be installed. Flood and loading lights shall not be less than seventy-five inches above the ground and shall not be obstructed by open doors. Two floodlights shall be located on each sides of the vehicle and be firmly fastened to the body surfaces below the roof line. The side flood lights shall be controlled from the cab console and be independently switched.

Does your bid comply with this requirement?

Yes ( ) No ( )

Light, LED, Whelen, Clear, #9SC0ENZR, 24 LED, ILOS, (1) W/ Chrome Flange
EXTERIOR FLOOD LIGHTS

Four Whelen 9SC0ENZR Clear LED lights shall be installed. Flood and loading lights shall not be less than seventy-five inches above the ground and shall not be obstructed by open doors. Two floodlights shall be located on each sides of the vehicle and be firmly fastened to the body surfaces below the roof line. The side flood lights shall be controlled from the cab console and be independently switched.

Does your bid comply with this requirement?

Yes ( ) No ( )

Scene Lights, C/S, Activated W/C/S Door
SCENE LIGHT ACTIVATION

The curbside scene lights shall be activated when the curbside door is opened.

Does your bid comply with this requirement?

Yes ( ) No ( )

Switch, ILOS, (1), (3) Position,Scene Lights
THREE POSITION SWITCH

An additional switch shall be located XXXXX. It shall be a 3 position switch and activate the scene lights.

Does your bid comply with this requirement?

Yes ( ) No ( )

Rear Scene Lts Activate W/Rev Gear.
ADDITIONAL REAR SCENE LIGHTS ACTIVATION

The rear scene lights on both the curbside and street side shall activate when the vehicle is place in the reverse gear.

Does your bid comply with this requirement?

Yes ( ) No ( )

Flasher, Vanner, 9860GCPE, Standard
FLASHER

A Vanner 9860GCPE flasher shall be installed and provide a flash pattern to meet KKK-1822 E specification.

V-MUX Electrical System, Touchscreen Vista IV Front and Vista IV Touch, Type 1,3

The electrical control system shall be the Weldon Technologies, Inc. (WTI) V-MUX Multiplex System. As Weldon is a vendor whose products are available to any apparatus manufacturer, no other electrical control system will be accepted.

CAB CONTROL CONSOLE

The driver's control console shall incorporate soft touch, moisture resistant, push button type switches that are UL listed and CSA approved. The switches and legends shall be displayed on the Vista display screen utilizing a series of "menus" for the control of each function. The Vista display panel shall contain the following features:

HOME DISPLAY

The home menu displays diagnostic menus, Volts, Amps and an overhead view of the apparatus to indicate any door(s), which may be ajar by showing the physical location of the door.

EMERGENCY MASTER DISPLAY

To display the emergency master menu select the appropriate switch on the control console. The emergenc master display allows the user to pre-select warning light applications. Warning lights, which are not allowed such as blocking mode are automatically deactivated when the parking brake is set and re activated when released. The Volts, Amps and Door Ajar displays will remain visible while the emergency menu is in use.

APPARATUS INFORMATION DISPLAY

This display provides critical apparatus information including the apparatus manufacturer, apparatus sales order number, Vehicle Identification Number, chassis fluid capacities and specifications plus the contact phone number for the apparatus manufacture.

DIAGNOSTICS DISPLAYS

There will be multiple diagnostic display screens allowing the multiplexed electrical system to display and monitor critical information and issue warnings for systems that are nearing extremes in their working envelope, examples of this would be high coolant temperature, low oil pressure, low voltage etc.

V-Mux, Swivel for Vista Display Mounting
Vista Display Swivel Mounted

The Vista display shall be mounted on a swivel so that the display can be moved to a better angle for use by driver or offficer.

V-MUX Electrical System, Engineering Programming

third bank of switches

Tailight Pkg, Whelen, M6 LED Stop/Tail,Turn Arrow & Max Intensity Backup
TAILLIGHT PACKAGE

There shall be a Whelen taillight package installed on the rear of the vehicle. The stop/tail lights shall be M6 series LED with signal alert. The turn signals shall be a M6 series LED with sequential arrow shaped design. The backup lights shall be M6 series Max intensity LED.

No Flanges or housings, Standard

Headliner, Flat, PVC, w/ Hinged trough cover, 160"+ MAV/T1
MODULE HEADLINER

The module headliner shall be manufactured out of expanded PVC material. The liner shall be white and installed to allow flush mounting of the interior lighting.

Does your bid comply with this requirement?

Yes ( ) No ( )

NO lighting recessed into trough cover- Standard

Lights, Dome, LED, Whelen,White Flng, (4) S/S, (3) C/S, ILOS
VEHICLE INTERIOR LIGHTING

The basic interior compartment shall be provided with seven overhead dual intensity LED lights. The lights shall be Whelen 80W00EZR. There shall be four lights located over the primary patient stretcher and three over the squad bench. These lights shall be mounted into the patient compartment head liner and shall not protrude

into the patient compartment. The overhead shall have two levels of intensity, a high and low settings. The attendant shall be able to control the level of light via switches in the action area control panel. The dual lighting shall work together or may be separately selected from side to side. The four lights over the primary patient shall illuminate on the low setting when the side modular or rear modular doors are open. Certification shall be provided by an independent testing laboratory with this proposal.

Does your bid comply with this requirement?

Yes ( ) No ( )

Light, Dome, LED, Whelen,White Flng,(1) IATS
VEHICLE INTERIOR LIGHTING (ADDITIONAL)

There shall be one (1) additional Whelen 80W00EZR LED lights installed as directed by this agency.

Does your bid comply with this requirement?

Yes ( ) No ( )

Light, Stepwell, Trucklite, 2in, Std
STEP WELL LIGHT

A step well light shall be provided in the step well area of the modular curb side door and shall be activated upon opening the curb side or rear modular doors.

Does your bid comply with this requirement?

Yes ( ) No ( )

Light, Kinequip #621224W, LED, In A/A ILOS
ACTION AREA LIGHT

A twelve volt direct current LED light with integral switch shall be provided in the attendant action area. The light shall be a Kinequip 621224W.

LIGHTS & MISCELLANEOUS:

Handheld Spotlight - Sho-Me 200,000 CP

11.2 LIGHTING - SPOTLIGHT, HANDHELD

The cab shall be equipped with a spotlight with a coiled cord that is hardwired "On" with Ignition. The handle shall include a momentary switch. The bulb shall be a 12V - 200,000 candle power sealed beam non-glare bulb.

Light, Compartment, 2" Incandescent, (1) Each
ADDITONAL COMPARTMENT LIGHTS

An additional compartment light shall be installed XXXXX.

Does your bid comply with this requirement?

Yes ( ) No ( )

Lighting, Compt, LED Hi-Brite Flex, ILOS

LED Hi-Brite Flex lighting shall be installed XXXXX.

Does your bid comply with this requirement?

Yes ( ) No ( )

Timer, Momentary Sw,15 Minute, Constant Hot, Std Model only
TIMER

An Intermatic 15 minute Timer shall be installed XXXXX. The timer shall be wired constant hot and shall power XXXXX.

Does your bid comply with this requirement?

Yes ( )No ( )

Light, in Circuit Board Area, for Electrical Troubleshooting
ELECTRICAL TROUBLESHOOTING LIGHT

A small light with a switch shall be installed in the circuit board area for troubleshooting. The light shall be wired battery hot.

Does your bid comply with this requirement?

Yes ( ) No ( )

Clock, Intellitec, Installed
CLOCK

An Intellitec clock shall be installed XXXXX.

Does your bid comply with this requirement?

Yes ( ) No ( )

Speakers, Rear, (2), in Liner, w/ Volume Control
STEREO SPEAKERS

Two stereo speakers shall be installed in the liner of the rear patient compartment. There shall be a volume control in the action area.

Does your bid comply with this requirement?

Yes ( ) No ( )

Suction Pump, Standard
SUCTION PUMP

A suction pump shall be installed that shall comply with Federal Specifications KKK-A-1822-F.

Does your bid comply with this requirement?

Yes ( ) No ( )

locate suction on action area wall

Insulation, Fiberglass, Unfaced
ACOUSTIC AND CLIMATE INSULATION

Feld Fire

Wheeled Coach
REV GROUP

The primary manufacturer shall supply an insulating material that is non flammable with a Class A, Class 1 fire rating. It shall be certified to meet the smoke and flammability requirements of FMVSS 302. The exposed walls of the exterior compartments and wheel wells that intrude into the interior of the modular shall be covered with reflective insulating material with a value of R-14. The side, front, rear, walls as well as the ceiling shall be insulated with three inch thick temperature rated un-faced fiberglass with a value of R-11. Fiberglass has been proven to provide excellent sound and thermal barrier over other materials. Fiberglass insulation is safe and widely used in the automotive and construction industry.

Does your bid comply with this requirement?

Yes ( ) No ( )

Insulation, Severe Weather Package
ACOUSTIC AND CLIMATE INSULATION

The primary manufacturer shall supply an insulating material that is non flammable with a Class A, Class 1 fire rating. It shall be certified to meet the smoke and flammability requirements of FMVSS 302. The exposed walls of the exterior compartments and wheel wells that intrude into the interior of the modular shall be covered with reflective insulating material with a value of R-14. The side, front, rear, walls as well as the ceiling shall be insulated with a one inch block foam beneath a full covering of reflective insulation. In addition, spray foam insulation shall be installed under the aluminum floor moisture barrier and between the floor structures.

Grabhandle, 12" Interior, (1) Each, IATS
ADDITIONAL GRABHANDLES

Additional grab handles shall be installed XXXXX. The grab handles shall be 12 inches long and be 7/8 inch diameter stainless steel tube.

Does your bid comply with this requirement?

Yes ( ) No ( )

Grabrail,Overhead,117",Handicap Style,Yellow,Std Model Only
OVERHEAD GRABRAIL

An overhead grabrail shall be installed in the patient compartment head liner. The grabrail shall be yellow powder coated stainless steel and handicapped style with rounded ends. The grabrail shall be a minimum of 117 inches long and shall be mounted in a recess in the liner.

Does your bid comply with this requirement?

Yes ( ) No ( )

Handrails,(3),Custom "L" Shape,1",Yellow,Entry Drs,Std Model
ENTRY DOOR GRAB HANDLES

On each entry door there shall be an L shaped grab handle. The vertical portion of the L shall be close to the hinge of the door and run the full length of the upper window in the door. The horizontal portion of the L shall be located just under the upper window. The grab handles shall be 1 inch diameter brushed stainless steel and handicapped style.

Does your bid comply with this requirement?

Yes ( ) No ( )

Rack, Multiversal, #QR-MV, W/ Straps

Track, Unistrut for Oxygen Rack -Standard per ECN

O2 Sys,LF,(2)O2/(1)Vac Port A/A,(1)O2 C/S, Std Model only
OXYGEN, MAIN SUPPLY AND INSTALLATION

The ambulance shall have a hospital type piped oxygen system capable of storing and supplying three thousand liters of medical oxygen. The cylinder controls shall be accessible from inside the patient compartment. The pressure gauge shall be visible from either the attendant's seat or from the squad bench. The oxygen shall be piped to two self sealing Ohio adaptable oxygen outlets located in the action area and one located on the curbside wall at the head of the squad bench. The oxygen system will incorporate electrically conducted oxygen hose with a working pressure of one hundred and fifty pounds per square inch. All oxygen hose and outlets will use machine crimped brass ferrules and high pressure connectors. The entire oxygen delivery system will be pressured tested with a minimum of one hundred and fifty pounds per square inch of pressure of nitrogen gas for a period of four hours. The testing documentation will be delivered with the vehicle.

A vacuum port shall also be located in the action area to supply the vacuum to the suction container.

Does your bid comply with this requirement?

Yes ( ) No ( )

02 Outlet, Additional, Ohio, Passive, Mods
ADDITIONAL OXYGEN OUTLET

An additional oxygen outlet shall be installed XXXXX. The outlet shall be Ohio style.

Does your bid comply with this requirement?

Yes ( ) No ( )

Regulator, Oxygen Cylinder, Preset 50PSI, Installed
One (1) REGULATOR,LGE CYL,PRESET 50PSI

Regulator/Holder, SSCOR 23002 with Canister clip-CN 10 Compliant
SUCTION ASPIRATOR

The ambulance shall be equipped with an on board vacuum aspirator. The unit shall be mounted on the action area wall above the action area tray to collect any bio fluids that may be spilled. The unit shall be an SSCOR 22000 with a 23002 stainless steel container holder with canister clip. The container shall be disposable and the regulator panel shall be located in the action area panel. The vacuum pump shall be installed via a twelve volt direct current system. The on/off switch shall be located in the attendant's console.

Does your bid comply with this requirement?

Yes ( ) No ( )

Cot Mount, Stryker #6377, Dual Position - Change Notice 8- NOT COMPLIANT
SEAT, LITTER, RESTRAINT ANCHORAGE

Patient restraints shall be as specified in paragraph 3.11.8 of Federal Specification KKK-A-1822-F. Cot fasteners and safety bets shall be mounted in tapping plates. The cot fastener shall be a Stryker 6360-30-10.

Does your bid comply with this requirement?

Yes ( ) No ( )

Non-Compliance to SAE J3027 Patient Cot Mount Notice

Feld Fire

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The Litter Fastener/Anchorage you have selected for this order does not meet the performance requirements of the SAE J3027 Recommended Practice for Ambulance Litter Integrity, Retention and Patient Restraint.

Section 3.11.6 of KKK-A-1822F as revised July 1,2015 specifically relates to Litter Fasteners and Anchorage and requires the installed fastener for wheeled cots to meet the performance requirements of SAE J3027 Recommended Practice for Ambulance Litter Integrity, Retention and Patient Restraint.

IV Hook, Perko, (1), W/Straps, STD
IV HOLDERS FOR INTRAVENOUS FLUID CONTAINERS

Shall be as specified in paragraph 3.11.9 of Federal Specification KKK-A-1822-F.

Does your bid comply with this requirement?

Yes ( ) No ( )

IV Hook, Cast, Fold Down Recessed, ILOS
IV HOLDERS FOR INTRAVENOUS FLUID CONTAINERS

Shall be as specified in paragraph 3.11.9 of Federal Specification KKK-A-1822-F. There shall be two (2)Cast fold down style recessed IV holders. Placed as per customer specification

Kickplate, Full Height Brushed Stainless Steel,, On Face of Basewall
CABINET KICKPLATE

A brushed stainless steel kick plate Action area high shall be installed on the lower portion of the street side wall cabinet and shall run the full length of the wall cabinet. The kick plate shall provide protection to the cabinet.

Does your bid comply with this requirement?

Yes ( ) No ( )

Wrench, Oxygen, Tethered, Mods
OXYGEN WRENCH

An oxygen wrench shall be located in the oxygen compartment. The wrench shall be tethered so that it will not become lost.

Does your bid comply with this requirement?

Yes ( ) No ( )

Seatbelt, Assy, (4 Point), Per4Max, Black, (1) Each - CN-8
Seat Belts

The three (3) 4-point black restraint shall be fully retractable and utilizes four retractors for increased mobility. The restraint shall feature **controlled deceleration technology** and a **single buckle** for single point-of-release. The restraint shall meet the requirements of FMVSS 209 and 302 standards. The restraint shall have a built-in indicator to signify that the webbing has undergone a severe load and needs to be replaced.

Restrain Belts, Squad Bench (3) Standard
Patient Restaint Belts

There shall be three patient restraint belts that shall be retractable for a secondary patient on the squad bench. The restraint shall meet the requirements of FMVSS 209 and 302 standards.

MODULE INTERIOR

Mica, Light Gray Gloss, Std Model only
INTERIOR SURFACES

The cabinets shall be a light gray gloss color.

Does your bid comply with this requirement?

Yes ( ) No ( )

Flooring, Wood, Type 1, Std
FLOOR

A top floor of seven ply three quarter inch marine grade plywood, sanded both sides with no voids, shall be installed over the moisture barrier. The plywood shall be marine resin coated prior to installation to prevent warping due to ambient moisture absorption. The plywood floor shall be one piece from the bulkhead to the rear doors between the patient door steeple and squad bench and extend under the street side cabinets. The plywood floor shall be securely anchored to the floor sub structure with one quarter inch UNF machine by two and one half inch screws.

Does your bid comply with this requirement?

Yes ( ) No ( )

Flooring, Lonplate II,Gunpowder Grey #424TX, Std Model only
FLOOR COVERINGS

The patient compartment floor covering shall be a heavy duty material that is impervious to fluids. The flooring shall be glued to the plywood floor using an adhesive compound. The flooring shall be Lonplate II and the color Gunpowder Gray #424. There shall be no adhesive voids between the flooring and the plywood. The floor shall be designed to roll up the side of the street side and bulk head cabinets and squad bench.

Does you bid comply with this requirement?

Yes ( ) No ( )

Seat, Attendant, EVS 1880, Child safety, Comfort, Gunmetal, Per4Max Belt-Black
ATTENDANT SEATING

Seating for the attendant shall consist of a contoured high back padded bucket seat with bolstered seat cushion. The seat covering shall be an easy clean vinyl material and be impervious to blood borne pathogens and other contaminants. Therefore, cloth seats or seats with welting seams or visible stitching will not be accepted. The vinyl shall be gunmetal gray. Seating must meet OSHA regulation 1910.1030. The seat belt must be certified to KKK - A1822 - E specification and to FMVSS and shall be an integrated black Per4max harness. An integrated child safety seat shall be incorporated in the seat. Installation shall comply with FMVSS.

Attendant's Seat Base, EVS Swivel 2 Pos
ATTENDANT'S SEAT BASE

An EVS brand swivel seat base shall be provided for the rear facing attendant's seat. The assembly shall be bolted to the floor through mounting plates welded into the floor structural tubing.

Uph, Smless, Gunmetal,No Bio,No Post & Wheel
UPHOLSTERY

The finish of the entire patient's compartment, including storage cabinets and equipment, shall be impervious to soap and water, disinfectants, bio fluids, mildew and shall be fire resistant per FMVSS 302. Upholstered cushions shall be a minimum of thirty two ounce nylon reinforced commercial vinyl material. Squad bench cushions and attendant seat and backrest cushions shall be fabricated in such a manner to eliminate exposed

welting. Cushions with welting or beaded seams shall not be accepted due to the risk of bio fluid penetration. Describe below your method of cushion construction. The color of the upholstery shall be gunmetal gray.

Does your bid comply with this requirement?

Yes ( ) No ( )

Upholstery, Backrest Cushion, EVS, Gunmetal, w/ WC Logo
CUSHIONS

On the squad bench wall and the CPR side seat wall (if called for) will be individual backrest cushions in gunmetal gray to match the upholstery. These cushions will be seamless with the ambulance manufacturers logo.

Lexan Flap W/Hinge
INTERIOR OXYGEN VIEWING DOOR

A Lexan door shall be installed on the oxygen viewing opening.

Does your bid comply with this requirement?

Yes ( ) No ( )

cabinet above the monitor tower

BASEWALL DOORS:
CABINET DOORS AND FRAMES

The cabinets shall have doors that follow the the standards of SAE J3058 Ambulance Interior Storage Compartment Integrity.

The sliding cabinet doors shall be framed with a T6- 6063 aluminum frame with specially designed negative angled grooves for the spring latched handles to grip onto for latching. The corners of the frames shall be double keyed for stability and strength. The frame shall be gasketed to prevent intrusion of liquids into the cabinets.

Feld Fire

Wheeled Coach® REV GROUP

The sliding doors shall be made of 1/4" polycarbonate in either a clear, grey or bronze finish as specified by the end user. The tail end of the doors shall have a T6-6063 aluminum stiffener that interlocks with the mating door to give additional strength against impact. The leading handle shall be spring loaded to give a self latching function with the door frame groove to prevent the doors from inadvertantly coming open. If the end user chooses to have the restocking feature, the frame will be hinged in a minimum of two locations and a seperate spring steel handle assembly shall be attached to the bottom of the cabinet to lock the frame in place when shut. This handle for unlatching and opening the restocking feature shall be accomplished without opening the sliding doors, from the outside of the cabinet.

Drawer in the action area

SHIP LOOSE ITEMS:
STANDARD MANDATORY MISCELLANEOUS EQUIPMENT

Unless otherwise precluded elsewhere in this specification the vehicle shall be equipped with the following:

*One five pound fire extinguisher that is ABC dry chemical multipurpose with a quick release bracket.
*No smoking oxygen equipment signs conspicuously place in the cab and patient compartment.
*A back up alarm, audible warning device activated when the vehicle is shifted into or moving in reverse.

In addition, the following items shall be shipped loose in the vehicle:

Bracket, Spare Tire Mounting, Ship Loose
SPARE TIRE MOUNTING

The spare tire mounting brackets shall be shipped loose in the vehicle.

Does your bid comply with this requirement?

Yes ( ) No ( )

Spare Tire, OEM only, Ship Loose
SPARE TIRE

The OEM spare tire shall be shipped with the vehicle.

Does your bid comply with this requirement?

Feld Fire

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REV GROUP

Yes ( ) No ( )

5 year non prorated warranty

End Of Order

QUALITY ASSURANCE PROVISIONS

Defective components shall not be furnished. Parts, equipment, and assemblies, which have been repaired or modified to overcome deficiencies shall not be furnished without the written approval of the purchaser. Construction methods utilized shall be in accordance with industry standards. Component parts and units shall be manufactured to definite standard dimensions with proper fits, clearances and uniformity. The general appearance of the vehicle shall not show any evidence of poor workmanship.

At the time of delivery, the manufacturer's representative shall explain the use and operation of the new vehicle(s) and provide an owner's manual for the complete vehicle. The manual shall contain useful information on routine maintenance and trouble shooting. All warranty registration materials shall be completed and explained at the time of delivery. The manufacturer shall arrange for over the road delivery under the finished vehicle(s) own power. The vehicle(s) shall be delivered clean and free of road debris with at least fifty percent fuel on board.

The bidder shall be responsible for the performance and test requirements required herein. This agency reserves the right to perform any of the inspections and tests set forth in this specifications where such inspections are deemed necessary to assure conformation of specification. The primary manufacturer shall conform to this agency's representatives with instruments and all such assistance as may be required.

Does your bid comply with this requirement?

Yes ( ) No ( )

The primary manufacturer shall be ISO 9001:2008 certified.

Does your bid comply?

Yes ( ) No ( )

TESTS

Feld Fire

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REV GROUP

The primary manufacturer is obligated to prove that the vehicle, ambulance components and equipment provided meet the requirements of this specification and are compliant to Federal Ambulance Specification KKK-A-1822-F and any amendments in effect at the time of this bid. Copies shall be provided with this of the test documents and a letter from a independent testing laboratory that has performed the tests certifying that the following tests have been conducted and passed. Test documents or any source other than described above shall not be accepted. Failure to comply with the requirement shall be considered as non-responsive and will not be accepted. The certified tests are as follows and conform to the requirements of this specification and Federal Ambulance Specification KKK-A-1822-F.

A. Vehicle Physical Dimensions (3.4.11 through 3.4.11.6)

B. Patient Compartment Interior Dimensions (3.10.4)

C. Stepwell, Bumpers and Facilitation (3.11 through 3.10.11, 3.10.3 through 3.10.16 and 3.9.9)

D. Storage Compartment and Facilitation (3.11 through 3.11.2.1,3.11.4 and 3.11.6)

E. Ambulance Body and Patient Area (3.10.1 through 3.10.3, 3.10.6 through 3.10.8, 3.10.20 through 3.10.11, 3.10.3 through 3.10.16 and 3.9.9)

F. Vehicle Weight Distribution (4.4.3 and 3.5 through 3.5.6 and 3.19)

G. Water Spray Test (4.4.5)

H. 115 VAC Utility Power (3.7.8 through 3.7.8.3)

I. Electrical System Components (3.7.8 through 3.7.8.3, 3.7 through 3.7.5, 3.7.7 through 3.7.7.4, 3.7.9 through 3.7.11, 3.8.1, 3.8.4 and 3.8.50)

J. Patient compartment Illumination (3.8.5.1)

K. Electrical Generating System (3.7.6 through 3.7.6.3 and AMD 005)

L. Warning Lights and Siren System (3.8.2 through 3.8.4 and 3.14.6)

M. Door Latches, Hinges and Hardware (3.10.9)

N. Static Load Test (3.10.5 and AMD 001)

O. Patient Compartment Interior Surfaces (3.10.17 and FMVSS 302)

P. Oxygen System Test (4.4.6, 3.12.1 and 3.12.1.1)

Q. Oxygen Cylinder Restraint Test (3.11.3 and AMD 003)

R. Litter Fastener and Anchorage (3.11.7 and AMD 003)

S. Suction Aspirator System (3.12.3 and 3.12.4)

T. Heating Criteria (3.4.2, 3.7.9 through 3.7.11, 3.6.3.2, 3.13.1 through 3.13.7)

U. Air Conditioning Criteria (3.4.2, 3.7.9 through 3.7.11, 3.6.3.2, 3.13.7, 3.6.4.5.1 through 3.6.4.5.1)

V. Ventilation Criteria (3.13.6)

W. Patient Compartment Sound Level (3.13.8 and AMD 006)

X. Patient Color and Markings (3.16 through 3.16.2 and 3.16.4)

Y. Manuals and Handbooks (3.20 and 6.8)

Z. Seat Belt Test (3.11.6)

AA. Electromagnetic Radiation and Suppression (3.7.12)

BB. Standard Miscellaneous Equipment (3.15.2)

CC. Miscellaneous Equipment (3.7.5 and 3.9.5)

Does your bid comply with this requirement?

Yes ( ) No ( )

EXCEPTIONS

Exceptions shall be submitted as set forth in section A1.1.2 of this document. This agency will accept proposals from any business entity proclaiming to manufacturer vehicle(s) to conform with this specification. Further, this agency will not deny the right of any manufacturer to present their product. However, It should be noted, that

any primary manufacturer that does not take exceptions shall produce the vehicle exactly as described. Failure to produce said vehicle may be grounds for this agency to pursue a resolution of damages through civil and criminal court.

Does your bid comply with this requirement?

Yes ( ) No ( )

Wheeled Coach® OUT IN FRONT

Before you order your next ambulance, be sure that your patients and crew have the most efficient air conditioning system available. The best way to meet this need is with an external condenser mounted on the front of the ambulance body. Problem is, that solution is UGLY and not as efficient as Wheeled Coach's Cool-Bar™.

COOL BAR™ by WHEELED COACH PATENT PENDING

30% Greater Condensing Capability
800 square inches of condensing coils vs. 560 square inches used in other condensers

30% Greater BTU Capacity
4 high capacity fans as opposed to only 2 fans in other external condensers

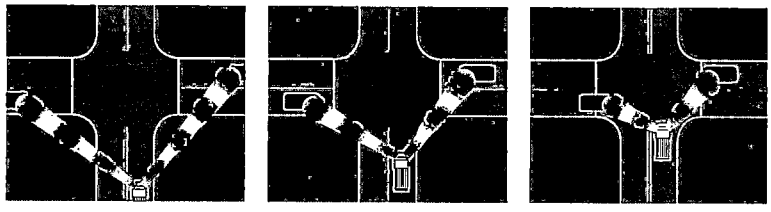
60,000 BTU capacity vs. 40,000 BTU capacity with other external condensers

50% Greater Air Flow
2900 CFM of air flow vs. 1600 CFM with other external condensers

Not exposed to maintenance issues, road damage or reduced efficiency by NOT installing external condenser under the ambulance

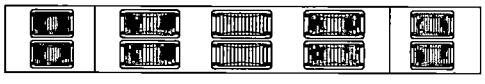
Multiple warning light options for maximum flexibility

Because the lights are at 45° angles, vehicles approaching an intersection on a "collision course" with an ambulance will always have the warning lights angled directly toward them, maximizing their effectiveness

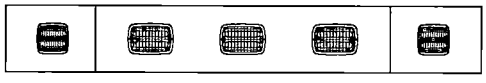


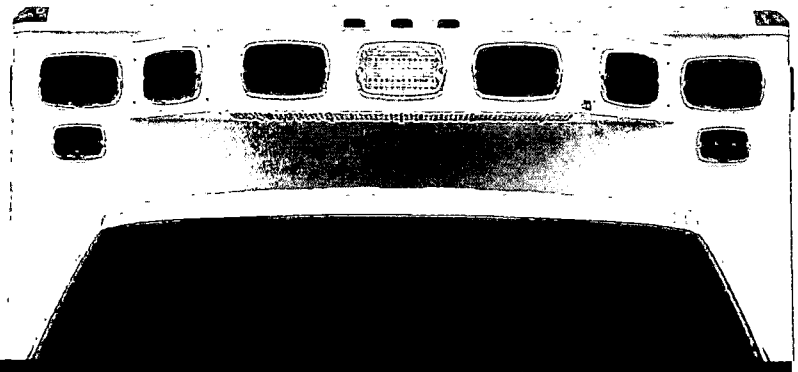
75 FEET FROM INTERSECTION | 50 FEET FROM INTERSECTION | 25 FEET FROM INTERSECTION

WHELEN 7 SERIES
FRONT VIEW



WHELEN 6M SERIES
FRONT VIEW





Our commitment to safety has made us one of the only ISO 9001:2008 Certified Ambulance Manufacturers in the United States!

COOL-BAR

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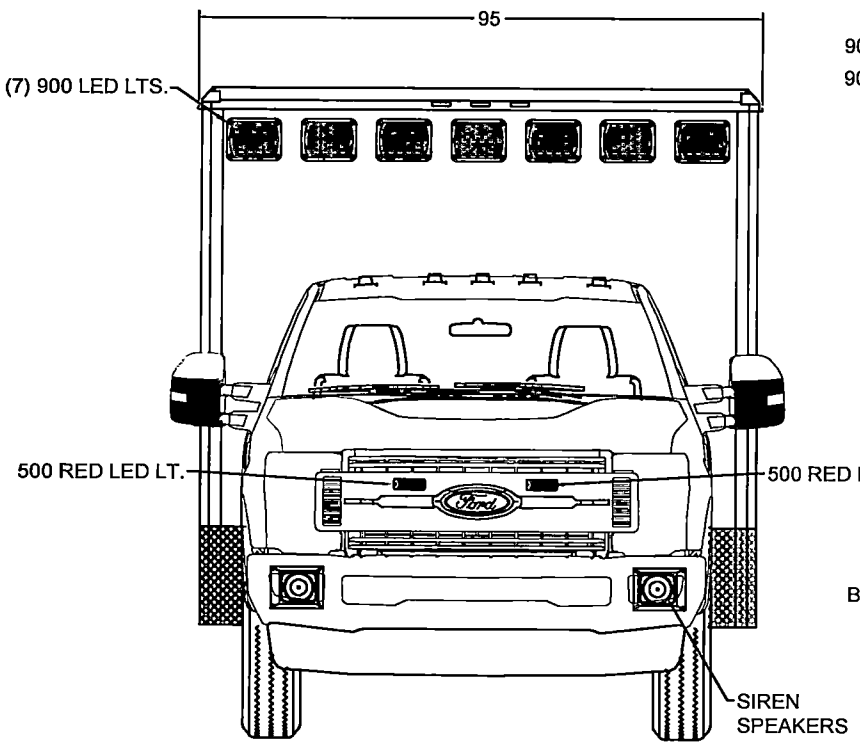
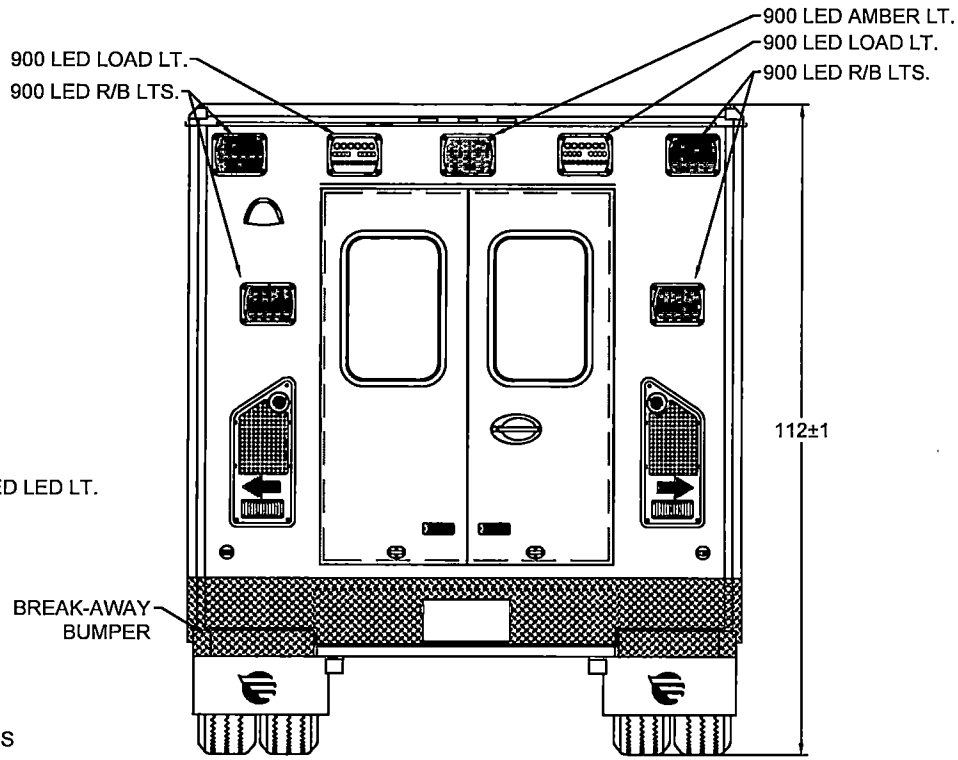
CA166272 INDEPENDENCE FIRE DEPARTMENT 170 x 95 x 74





EXTERIOR COMPARTMENT DIMENSIONS IN INCHES

INTERIOR DIMENSIONS				PASS THRU		INTERIOR DIMENSIONS				JAMB OPENING	
COMPT.	HEIGHT	WIDTH	DEPTH	HEIGHT	WIDTH	COMPT.	HEIGHT	WIDTH	DEPTH	HEIGHT	WIDTH

50" AISLE

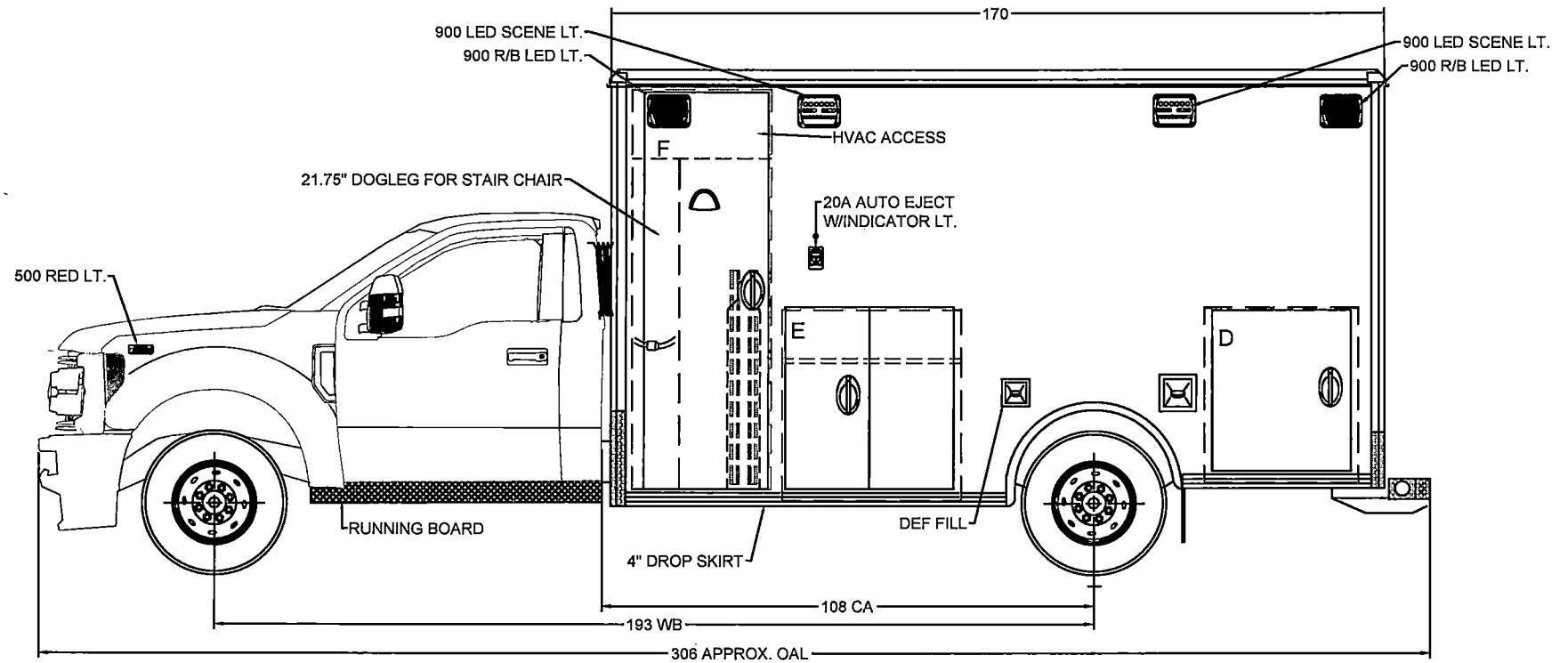
BE ADVISED THAT THESE ARE PRELIMINARY LAYOUTS INTENDED TO ILLUSTRATE DESIGN INTENT AND DIMENSIONS ARE FOR REFERENCE ONLY PRIOR TO FINAL ENGINEERING

Wheeled Coach

TYPE 1 FORD 2021
FRONT / REAR
EXTERIOR VIEWS

DATE:	SCALE
2/8/21	
DWN BY: AP	DWG NO: 1 / 9

CA166272 INDEPENDENCE FIRE DEPARTMENT 170 x 95 x 74



BE ADVISED THAT THESE ARE PRELIMINARY LAYOUTS INTENDED TO ILLUSTRATE DESIGN INTENT AND DIMENSIONS ARE FOR REFERENCE ONLY PRIOR TO FINAL ENGINEERING

EXTERIOR COMPARTMENT DIMENSIONS IN INCHES

INTERIOR DIMENSIONS				JAMB OPENING		INTERIOR DIMENSIONS				JAMB OPENING	
COMPT.	HEIGHT	WIDTH	DEPTH	HEIGHT	WIDTH	COMPT.	HEIGHT	WIDTH	DEPTH	HEIGHT	WIDTH
D	38.75	34.00	17.00	35.75	30.75						
E	41.75	39.25	17.00	39.00	37.00						
F	73.00	30.50	17.00	88.75	27.25						

50" AISLE

Wheeled Coach

TYPE 1 FORD 2021

LEFT EXT. VIEW

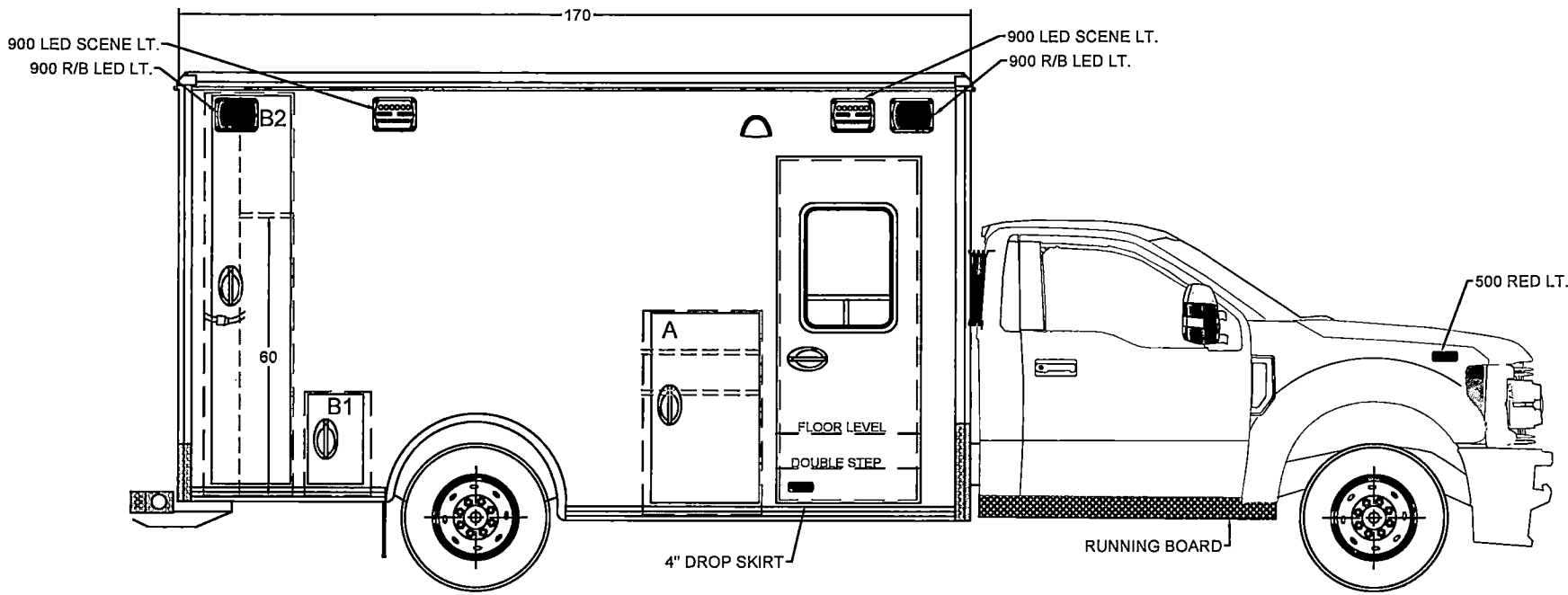
DATE 2/8/21

SCALE

DRAWN BY AP

DWG NO 2 / 9

CA166272 INDEPENDENCE FIRE DEPARTMENT 170 x 95 x 74



BE ADVISED THAT THESE ARE PRELIMINARY LAYOUTS INTENDED TO ILLUSTRATE DESIGN INTENT AND DIMENSIONS ARE FOR REFERENCE ONLY PRIOR TO FINAL ENGINEERING

EXTERIOR COMPARTMENT DIMENSIONS IN INCHES

INTERIOR DIMENSIONS				JAMB OPENING		INTERIOR DIMENSIONS				JAMB OPENING	
COMPT.	HEIGHT	WIDTH	DEPTH	HEIGHT	WIDTH	COMPT.	HEIGHT	WIDTH	DEPTH	HEIGHT	WIDTH
A	44.00	25.50	17.00	41.00	23.50						
B1	22.50	14.25	17.00	19.25	12.00						
B2	87.00	19.00 -	18.50	84.00	17.00						

50" AISLE

Wheeled Coach

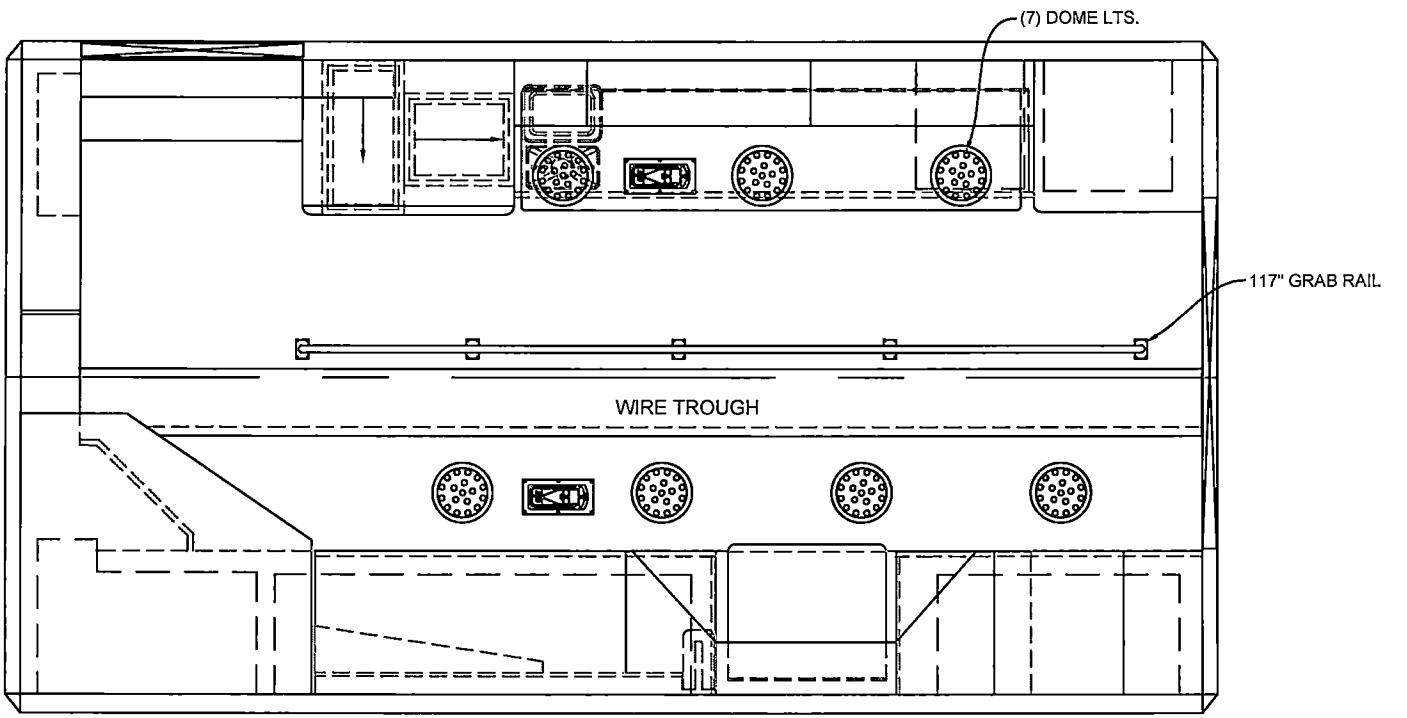
TYPE 1 FORD 2021

RIGHT EXT. VIEW

DATE 2/8/21 SCALE

DRAWN BY AP DWG NO 3 / 9

CA166272 INDEPENDENCE FIRE DEPARTMENT 170 x 95 x 74



BE ADVISED THAT THESE ARE PRELIMINARY LAYOUTS INTENDED TO ILLUSTRATE DESIGN INTENT AND DIMENSIONS ARE FOR REFERENCE ONLY PRIOR TO FINAL ENGINEERING

50" AISLE

INTERIOR CABINET DIMENSIONS IN INCHES

CABINET	HEIGHT	WIDTH	DEPTH	CABINET	HEIGHT	WIDTH	DEPTH

Wheeled Coach

TYPE 1 FORD 2021

LINER

DATE: 2/8/21 SCALE

DWN BY AP DWG NO 9 / 9

FELD FIRE™
"We've got you covered."

Single Source Warranty

Wheeled Coach & Feld Fire delivers a *single source manufacturer warranty* from the chassis through the body. As a part of this single source, is the ability to provide your department with a single point of contact (FELD FIRE) for all warranty and service issues over the life of the apparatus. Thus, allowing your department peace of mind that your apparatus will be back in service in a timely manner, without the uncertainty of knowing who to contact when an issue arises.

Partnering with Feld Fire and Wheeled Coach means you will never have to be put in the middle of a warranty issue. We are proud to offer you a Single Source Warranty along with the flexibility to have a mobile tech available to you. Our ability to provide your department with this level of service is what our company was founded on, we are proud to offer this to you.

We have included the warranty information following this page along with a preventative maintenance proposal. Please let us know if you have any questions on these.

FELD FIRE™
"We've got you covered."

Preventative Maintenance Plan Proposal

Our maintenance plan will include the following items done on a quarterly timeframe.

- Oil change and filter replacement if needed
- Windshield wiper blades replaced each year
- Fluids topped off and checked for leaks
- All other filters will be inspected and communicated about upcoming needs that are present during the preventative maintenance
- Brakes and brake pads will be inspected and communicated about upcoming needs that present during the preventative maintenance
- Reminders for the upcoming service
- Updates on the warranty timeframes

Pricing for each Unit:

Transits $140.00 per unit

Type 1's and Type 3's (diesel) - $400.00 per unit

Type 1's and Type 3's (gas) - $205.00 per unit

A division of **ED M. FELD EQUIPMENT CO., INC.**
113 North Griffith Road · Carroll, Iowa 51401 ·T 800 568 2403 · F 712 792 6658 · www.feldfire.com
1330 NW Jefferson St., Grain Valley, MO 64029 T 816-443-2738 F 816-443-2864
10403 Baur Blvd St E., Olivette, MO 63132

FELD FIRE™

"We've got you covered."

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10403 Baur Blvd St E., Olivette, MO 63132

Wheeled Coach® OUT IN FRONT

Modular Structure Limited Lifetime Warranty

Rev Ambulance Group Orlando Inc., (hereinafter Rev) ("Warrantor") warrants to the original retail purchaser only, that the Wheeled Coach module structure that is the subject of this sale is structurally sound and free from all structural defects in material and workmanship and further warrants the module structure will remain free of structural damage due to rusting caused by electrolysis. The custom module structure limited warranty is in effect for the lifetime of a new vehicle. For the purpose of the lifetime custom module limited warranty, a lifetime is defined by Rev as; 15 years from the date of original retail owner's purchase/in-service date from Rev or the period of time the ambulance is in continuous front line service with the original retail purchaser. In the event of a module remount this custom module structural warranty shall remain in effect provided the remount work is completed within the defined lifetime period, and remount work is completed by Rev or a facility Rev authorizes. This limited warranty covers repairs or replacement of any part of your new Rev custom module structure (hereinafter Covered Parts) in which a defect in materials or workmanship appears during normal use, maintenance or service within the limited warranty period, subject to the limitations and exclusions. The repair or replacement does not extend the life of the limited warranty except where state or provincial law otherwise provides for an extension during the time that the Covered Part is being repaired or replaced under this limited warranty. Covered Parts are limited to custom module systems and components such as custom module body, exterior doors, and interior aluminum cabinets. Rev will not replace the ambulance or repurchase the ambulance. All warranty service is subject to Rev's prior examination and (written) approval and will be performed by Rev or at service centers designated by Rev. This warranty is valid only in the United States and Canada, and any vehicle sold for use outside of the United States and Canada is sold "AS IS."

Warranty Performance

Owner's exclusive remedy under this warranty shall be repair or replacement of defective parts, free of charge to the Owner. Owner shall bear all expenses arising out of or relating to transporting the product to the appropriate Warranty Service Location.

Warranty Exclusions and Limitations

This Limited Ambulance Warranty DOES NOT COVER:

1. All paint, striping, hardware, hinges, latches, moldings, windows, appointments and accessories.
2. Any and all structural defects resulting from any form of accident or operator negligence.
3. Material or parts manufactured by other entities, including but not limited to sealants, hardware, moldings, windows, fenderettes and other appointments and accessories.
4. Damage caused by misuse, neglect, negligence or accident. Usage of this product in a manner, which is inconsistent with design intentions or inconsistent with owner's manual directions, will invalidate this warranty in regard to damage caused by or relating to such inconsistent usage.
5. Damage caused by owner's failure to provide normal maintenance. Failure to follow operating instructions.
6. Damage caused by floods, fire, wind, hail, lightning, any natural disaster, overloading, chemical fallouts, industrial contamination, and/or vandalism.
7. Damage caused by replacement or modification of original parts and/or components this includes but is not limited to improper or unauthorized installation of attachments, repairs, modifications or alterations.
8. Damage caused by replacement of original parts or components with unauthorized substitutes.
9. Damage during shipment.
10. Rev shall not be liable for incidental, consequential, direct, indirect, or other damages (such as, but not limited to, lost wages, inconvenience, lodging, travel costs, or lost vehicle rental expenses) that result from breach of written warranty or any implied warranty.
11. Damage to a Rev vehicle that is leased or rented to a second party.
12. Damage to products that have been improperly installed, altered or modified by any party other than Warrantor.
13. General tightening, lubrication of latches, catches, and electrical components.
14. Interior cabinets.
15. Fiberglass components
16. Installation of any "aftermarket" devices including ancillary equipment used in emergency service calls or the modification of any existing system or component originally installed by Rev without Rev's prior express written approval and any problems resulting from such installation or modification.
17. Custom module if altered by welding, cutting or splicing, or improper drilling without Rev's prior written approval.
18. Custom module components damaged as a result of corrosion, including, but not limited to, acid rain, blisters, deicing chemicals, road salt additives and/or acidic exposure.

Limitation on Damages: Rev shall not be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict tort, or any other legal theory. Such damages include, but are not limited to, lost wages, lost vehicle rental expenses, loss of savings, profits, or revenue, loss of use of the vehicle or any associated equipment, cost of capital, cost of any substitute vehicle, equipment, facilities or services, downtime, the claims of third parties including customers, and injury to property. This limitation does not apply to claims for personal injury. Some States do not allow limits on warranties, or on remedies for breach in certain transactions. In such States, the limits in this paragraph and in the disclaimer of warranty may not apply.

Warranty Registration: This warranty is conditioned upon receipt by Rev of a completed and signed warranty registration card within two weeks of delivery. It is the obligation of the purchaser to sign the customer registration card and return it to Rev within the two weeks following delivery. The warranty registration card must be on file for any warranty claim to be considered. This warranty is not transferrable.

Warranty Claim Procedure: If the owner discovers within this period a defect in material or workmanship, the owner must promptly notify Rev in writing. In no event shall such notification be received by Rev later than 3 months from the expiration of the Modular Structure Limited Lifetime Warranty. All warranty work is subject to Rev's examination and approval. If authorized by Rev, the obligation of Rev is limited to repairing or replacing, per the warranty term period, to the original purchaser. The Purchaser must contact Rev in writing or call Rev's customer service department toll free at 855-661-9232 Monday through Friday from 8:00 to 5:00 pm (Eastern Time) prior to any warranty work being performed. Rev will provide the purchaser with a warranty claim form and further instructions on how to proceed with such warranty claim. All warranty correspondence must be sent to Rev, PO Box 677339, Orlando, Florida 32867-7339. In the case of products, components or parts covered by the warranty of another manufacturer, Rev will pass on to the owner the existing manufacturer's warranty to the extent reasonably possible. All claimed defective parts are to be returned by the original purchaser, transportation expenses for returned parts pre-paid to Rev within 30 days of receipt of the replacement part or parts sent by Rev. If the claimed defective part(s) are not received by Rev within the 30 day grace period, or if the claimed defect cannot be authenticated, the original purchaser will be charged the full value of the replacement parts plus shipping and handling. Invoices for approved warranties must be sent within 30 days of approval. The invoices must reference the Advance Factory Authorization (AFA) approval number. If an invoice is received without the AFA number it may be rejected and we will advise you to follow the abovementioned warranty claim procedure.

Third Party Representations: Rev does not authorize any person to create for Rev any other obligations or liability in connection with its custom module, and Rev is not responsible for any representation, promise or warranty made by a dealer, component or vehicle manufacturer, or other person beyond what is expressly stated in this limited warranty.

Warrantor's Rights: Warrantor reserves the unrestricted right to change the parts and designs of its products from time to time without notice and with no obligation to make corresponding changes in the product previously manufactured.

Disclaimer of Warranty: The foregoing warranties are in lieu of all other warranties, express or implied. The implied warranties of merchantability and fitness for a particular purpose are expressly disclaimed.

Warranty Termination: The warranty shall be void, and Rev shall be relieved from any and all obligations hereunder, if:

1. The motor vehicle is sold or any of the components are removed.
2. The chassis is remounted, unless the remount work is performed by Rev or by a service facility approved, in advance and in writing, by Rev.
3. Owner fails to comply with the warranty registration requirements described above.
4. Policy expiration date

Time Limit for requesting Arbitration: Any action for breach of warranty must be commenced within three months following the expiration of the warranty period.

2737 N. Forsyth Road ▪ Winter Park, FL 32792 ▪ Phone: 855.661.9232 ▪ Fax: 800.241.5177

Issue 7.1.2014
Rev. 6.21.2016

Wheeled Coach® OUT IN FRONT

2737 N. Forsyth Road ▪ Winter Park, FL 32792 ▪ Phone: 855.661.9232 ▪ Fax: 800.241.5177

Issue: 7.1.2014
Rev. 6.21.2016

Wheeled Coach® OUT IN FRONT

Standard Conversion Warranty

Rev Ambulance Group Orlando Inc., (hereinafter Rev) ("Warrantor") warrants to the original retail purchaser for an unlimited mileage for a period of twelve (12) months from the date of delivery. This product shall be free of substantial defects in materials and workmanship, which are attributable to the Wheeled Coach brand and which arise during the course of normal use and service. Rev will correct any defect in material or workmanship, with either new or used replacement parts, at Rev's option. Such repair including both parts and labor, is at Rev's expense. All warranty service is subject to Rev's prior examination and (written) approval and will be performed by Rev or at service centers designated by Rev. This warranty is valid only in the United States and Canada, and any vehicle sold for use outside of the United States and Canada is sold "AS IS."

WARRANTYPERFORMANCE
Owner's exclusive remedy under this warranty shall be repair or replacement of defective parts, free of charge to the Owner. Owner shall bear all expenses arising out of or relating to transporting the product to the appropriate Warranty Service Location.

Warranty Exclusions and Limitations
This Limited Ambulance Warranty DOES NOT COVER:

1. Damage to the soft trim and appearance items if such damage is due to normal use, wear and tear, or exposure to elements.
2. Accessories, components, and/or parts not manufactured by Warrantor, which items include (but are not limited to): the chassis and its component parts, tires, tire balancing, aftermarket suspension components, wheel alignment, inverters, sirens, light bulbs, light bars, battery chargers, generator, air conditioners, radios, power converters, batteries, other electronic, sealants, hardware, moldings, windows, fender rings, and/or attachments and accessories. The manufacturers of these products may provide warranties covering the performance of their particular products.
3. Normal maintenance such as lubrication, batteries, tires, filter and oil replacement, belts and hoses, brake lining and adjustment, and vehicle alignments. Normal wear parts such as electrical accessories, voltage regulator, flashers, switches, etc.
4. Scratches or dents on the body, windows, and window shields not reported within 7 days of delivery.
5. Vinyl or painted graphics in any form not originally installed by Rev.
6. Damage to products that have been improperly installed, altered or modified by any party other than Warrantor.
7. Damage caused by misuse, neglect, negligence or accident. Usage of this product in a manner, which is inconsistent with design intentions or inconsistent with owner's manual directions, will invalidate this warranty in regard to damage caused by or relating to such inconsistent usage.
8. Damage caused by owner's failure to provide normal maintenance. Failure to follow operating instructions.
9. Damage caused by floods, fire, wind, hail, lightning, and/or any natural disaster.
10. Damage caused by replacement or modification of original parts and/or components. This includes but is not limited to improper or unauthorized installation of repairs, and/or attachments.
11. Rev shall not be liable for incidental, consequential, direct, indirect, or other damages (such as, but not limited to, lost wages, inconvenience, lodging, travel costs, or lost vehicle rental expenses) that result from breach of written warranty or any implied warranty.
12. Damage to a Rev vehicle that is leased or rented to a second party
13. Custom module if altered by welding, cutting or splicing, or improper drilling without Rev's prior written approval
14. Custom module systems and components damaged as a result of corrosion, including, but not limited to, salt and/or acidic exposure

Limitation on Damages: Rev shall not be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict tort, or any other legal theory. Such damages include, but are not limited to, lost wages, lost vehicle rental expenses, loss of savings, profits, or revenue, loss of use of the vehicle or any associated equipment, cost of capital, cost of any substitute vehicle, equipment, facilities or services, downtime, the claims of third parties including customers, and injury to property. This limitation does not apply to claims for personal injury. Some states do not allow limits on warranties, or on remedies for breach in certain transactions. In such states, the limits in this paragraph and in the disclaimer of warranty may not apply.

Warranty Registration: This warranty is conditioned upon receipt by Rev of a completed and signed warranty registration card within two weeks of delivery. It is the obligation of the purchaser to sign the customer registration card and return it to Rev within the two weeks following delivery. The warranty registration card must be on file for any warranty claim to be considered. This warranty is not transferrable.

Warranty Claim Procedure: If the owner discovers within this period a defect in material or workmanship, the owner must promptly notify Rev in writing. In no event shall such notification be received by Rev later than 13 months from the date of delivery to the original purchaser. All warranty work is subject to Rev's examination and approval. If authorized by Rev, the obligation of Rev is limited to repairing or replacing, per the warranty schedule, to the original purchaser. The Purchaser must contact Rev in writing or call Rev's customer service department toll free at 855-661-9232 Monday through Friday from 8:00 to 5:00 pm (Eastern Time) prior to any warranty work being performed. Rev will provide the purchaser with a warranty claim form and further instructions on how to proceed with such warranty claim. All warranty correspondence must be sent to Rev, PO Box 677339, Orlando, Florida 32867-7339. In the case of products, components or parts covered by the warranty of another manufacturer, Rev will pass on to the owner the existing manufacturer's warranty to the extent reasonably possible. All claimed defective parts are to be returned by the original purchaser, transportation expenses for returned parts pre-paid to Rev within 30 days of receipt of the replacement part or parts sent by Rev. If the claimed defective part(s) are not received by Rev within the 30 day grace period, or if the claimed defect cannot be authenticated, the original purchaser will be charged the full value of the replacement parts plus shipping and handling. Invoices for approved warranties must be sent within 30 days of approval. The invoices must reference the Advance Factory Authorization (AFA) approval number. If an invoice is received without the AFA number it may be rejected and we will advise you to follow the abovementioned warranty claim procedure.

Third Party Representations: Rev does not authorize any person to create for Rev any other obligations or liability in connection with its custom module, and Rev is not responsible for any representation, promise or warranty made by a dealer, component or vehicle manufacturer, or other person beyond what is expressly stated in this limited warranty.

Warrantor's Rights: Warrantor reserves the unrestricted right to change the parts and designs of its products from time to time without notice and with no obligation to make corresponding changes in the product previously manufactured.

Disclaimer of Warranty: The foregoing warranties are in lieu of all other warranties, express or implied. The implied warranties of merchantability and fitness for a particular purpose are expressly disclaimed.

Warranty Termination: The warranty shall be void, and Rev shall be relieved from any and all obligations hereunder, if:

1. The motor vehicle is sold or any of the components are removed.
2. The chassis is remounted, unless the remount work is performed by Rev or by a service facility approved, in advance and in writing, by Rev.
3. Owner fails to comply with the warranty registration requirements described above.
4. Policy expiration date

Time Limit for requesting Arbitration: Any action for breach of warranty must be commenced within three months following the expiration of the warranty period.

Legal Remedies: Any claim or controversy arising out of or relating to this limited warranty, or beach thereof, shall be settled by arbitration administered by the American Arbitration Association in Orange County, Florida in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The laws of the State of Florida shall be applied in any arbitration proceedings, without regard to principles of conflict of law. Each party shall bear its own costs, fees and expenses of arbitration. The arbitrator(s) determination and the basis for that determination shall be in writing and shall include an explanation of the basis for the determination. The determination of the arbitrator(s) shall be final and binding and judgment upon such determination may be entered in any court having jurisdiction. The arbitration proceedings and arbitration award shall be maintained by the parties as strictly confidential, except as otherwise required by court order or as is necessary to confirm, vacate, or enforce the award and for disclosure in confidence to the parties' respective attorneys, tax advisors, or senior management personnel. Furthermore, any action for breach of warranty must be commenced within three months following the expiration of the warranty period.

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Issue. 7.1.2014
Rev.6.21.2016

Wheeled Coach® OUT IN FRONT

Disclaimer of Warranty: The foregoing warranties are in lieu of all other warranties, express or implied. The implied warranties of merchantability and fitness for a particular purpose are expressly disclaimed.

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3. Owner fails to comply with the warranty registration requirements described above.
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No Other Warranty: Unless modified in a written statement signed by both parties, this agreement is understood to be the complete and exclusive agreement between the parties, superseding all prior agreements, oral or written, and all other communications between the parties (including without limitation any terms and conditions contained in any purchase order or sales invoice issued pursuant to the sale of the vehicle) relating to the subject matter of this agreement. No employee of Rev or any other party is authorized to make any warranty in addition to those made in this agreement.

REV
Vehicles for Life

2737 N. Forsyth Road ▪ Winter Park, FL 32792 ▪ Phone: 855.661.9232 ▪ Fax: 800.241.5177

Issue.7.1.2014
Rev. 6.21.2016

Wheeled Coach® OUT IN FRONT

Modular Warranty Certificate
Body Paint Warranty

Rev Ambulance Group Orlando Inc., (hereinafter Rev) ("Warrantor") warrants to **the original retail purchaser,** under normal use and service, each new Wheeled Coach modular body paint job is free of all material and workmanship defects for a prorated period of five (5) years from the date of delivery. All warranty service is subject to Rev's prior examination and (written) approval. All warranty service will be performed by Rev or at service centers designated by Rev. This warranty is valid only in the United States and Canada, and any vehicle sold for use outside of the United States and Canada is sold "AS IS." The paint applied by Rev is limited to the original user and limited to the exterior painted surface of the module according to this warranty schedule:

0-36 months	100%
37-48 months	50%
49-60 months	25%

The warranty provided herein shall cover and extend to the following properties of the paint system according to the warranty schedule:

- Loss of adhesion of the paint system resulting in rust
- Cracking of paint system
- Fading or loss of gloss

Repair or replacement of covered parts by a Rev Authorized Service Center is the exclusive remedy under this limited warranty. Rev will not replace the ambulance or repurchase the ambulance from you. The repair of a vehicle does not extend the life of the warranty except where state or provincial law otherwise provides for an extension during the time covered repair is under warranty.

Modular Body Paint Warranty Exclusions and Limitations

The following conditions are specifically excluded from the Rev Modular Body Paint Warranty:

- Exterior finish on any fiberglass components, including but not limited to hardware moldings, windows, mirrors, lights and other appointments and accessories
- Hazing, chalking, or loss of gloss caused by improper care, abrasive polishes, cleaning agents, heavy duty pressure washing, or aggressive mechanical wash systems;
- Paint deterioration caused by abuse, accidents, acid rain, hail, blisters, deicing chemicals, road salt additives, film degradation due to rust or corrosion originating from substrate, chemical fallout or acts of nature;
- Damage resulting from crevice corrosion
- Accidents, scratches, chips, bruises, and gloss reduction due to normal vehicle use and maintenance
- Re-application of custom finishes, custom decals, hand lettering, exotic finishes or any other finish other than standard refinish procedure;
- Scratches, chips, UV Paint fade, or gloss reduction due to normal wear and tear
- All paint hardware, hinges, latches, windows, appointments and accessories
- Gold leaf, decals, graphics, stickers, name plates, or striping except that which is affected by repair
- Paint failures resulting from the improper application of striping, tapes, decals or custom painted designs I numerals
- Repairs done to previously refinished areas unless stripped to bare metal and appropriate substrate
- Any product finishes, component finishes or finishes of parts not manufactured by Rev, including the chassis
- Defects resulting from normal and customary wear as a result of operating the vehicle
- Defects caused by installation of any devices and/or modification of any existing system or component originally installed by Rev without Rev's prior express written approval and any problems resulting from such installation or modification
- Repairs or alterations done over previously refinished areas, unless stripped to bare metal or appropriate substrata
- Paint if altered by welding, cutting or splicing, or improper drilling without Rev's prior written approval.
- Damage that occurs during shipment
- Damage caused by abrasion of external foreign objects
- Claims presented without proper Warranty documentation or pictures
- Rev shall not be liable for incidental, consequential, direct, indirect, or other damages (such as, but not limited to, lost wages, lodging, travel costs, or lost vehicle rental expenses) that result from breach of written warranty or any implied warranty.

Limitation on Damages: Rev shall not be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict tort, or any other legal theory. Such damages include, but are not limited to, lost wages, lost vehicle rental expenses, loss of savings, profits, or revenue, loss of use of the vehicle or any associated equipment, cost of capital, cost of any substitute vehicle, equipment, facilities or services, downtime, the claims of third parties including customers, and injury to property. This limitation does not apply to claims for personal injury. Some states do not allow limits on warranties, or on remedies for breach in certain transactions. In such states, the limits in this paragraph and in the disclaimer of warranty may not apply.

Warranty Registration: This warranty is conditioned upon receipt by Rev of a completed and signed warranty registration card within two weeks of delivery. It is the obligation of the purchaser to sign the customer registration card and return it to Rev within the two weeks following delivery. The warranty registration card must be on file for any warranty claim to be considered. This warranty is not transferrable.

Warranty Claim Procedure: The original purchaser shall notify Rev within thirty (30) days of the first signs of the claimed defect or perforation. All warranty work is subject to Rev's examination and approval. If authorized by Rev, the obligation of Rev is limited to repairing or replacing, per the warranty schedule, to the original purchaser. The Purchaser must contact Rev in writing or call Rev's customer service department toll free at 855-661-9232 Monday through Friday from 8:00 to 5:00 pm (Eastern Time) prior to any warranty work being performed. Rev will provide the purchaser with a warranty claim form and further instructions on how to proceed with such warranty claim. All warranty correspondence must be sent to Rev, PO Box 677339, Orlando, Florida 32867-7339. In the case of products, components or parts covered by the warranty of another manufacturer, Rev will pass on to the owner the existing manufacturer's warranty to the extent reasonably possible. Invoices for approved warranties must be sent within 30 days of approval. The invoices must reference the Advance Factory Authorization (AFA) approval number. If an invoice is received without the AFA number it may be rejected and we will advise you to follow the abovementioned warranty claim procedure.

Third Party Representations: Rev does not authorize any person to create for Rev any other obligations or liability in connection with its custom module, and Rev is not responsible for any representation, promise or warranty made by a dealer, component or vehicle manufacturer, or other person beyond what is expressly stated in this limited warranty.

Warrantor's Rights: Warrantor reserves the unrestricted right to change the parts and designs of its products from time to time without notice and with no obligation to make corresponding changes in the product previously manufactured.

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Rev. 6.21.2016

Wheeled Coach® OUT IN FRONT

Legal Remedies: Any claim or controversy arising out of or relating to this limited warranty, or beach thereof, shall be settled by arbitration administered by the American Arbitration Association in Orange County, Florida in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The laws of the State of Florida shall be applied in any arbitration proceedings, without regard to principles of conflict of law. Each party shall bear its own costs, fees and expenses of arbitration. The arbitrator(s) determination and the basis for that determination shall be in writing and shall include an explanation of the basis for the determination. The determination of the arbitrator(s) shall be final and binding and judgment upon such determination may be entered in any court having jurisdiction. The arbitration proceedings and arbitration award shall be maintained by the parties as strictly confidential, except as otherwise required by court order or as is necessary to confirm, vacate, or enforce the award and for disclosure in confidence to the parties' respective attorneys, tax advisors, or senior management personnel. Furthermore, any action for breach of warranty must be commenced within three months following the expiration of the warranty period.

No Other Warranty: Unless modified in a written statement signed by both parties, this agreement is understood to be the complete and exclusive agreement between the parties, superseding all prior agreements, oral or written, and all other communications between the parties (including without limitation any terms and conditions contained in any purchase order or sales invoice issued pursuant to the sale of the vehicle) relating to the subject matter of this agreement. No employee of Rev or any other party is authorized to make any warranty in addition to those made in this agreement.

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LIMITED LIFETIME CABINET CONSTRUCTION WARRANTY

Rev Ambulance Group Orlando Inc., (hereinafter Rev) ("Warrantor") warrants to **the original retail purchaser**, upon expiration of the attached twelve (12) months standard conversion vehicle warranty. The following parts or components of the patient compartment cabinets of the Wheeled Coach vehicle will remain free from defects in material and workmanship:

- That the wood or non-wood material used for the construction of the cabinets shall not delaminate.
- That the wooden dowels used for the construction of the cabinets shall not allow the cabinet sections to separate.

This Cabinet Construction Warranty commences upon the expiration of the original Rev twelve (12) months standard conversion vehicle warranty and continues for the lifetime of the vehicle for the original owner on the original chassis. For the purpose of the Limited Lifetime Cabinet Construction Warranty, a lifetime is defined by Rev as; 10 years from the expiration of the original Rev twelve (12) months standard conversion vehicle warranty for only the only original retail purchaser/owner. This warranty is valid only in the United States and Canada, and any vehicle sold for use outside of the United States and Canada is sold "AS IS."

If the owner discovers within this period a defect in the workmanship or material of any of the conditions listed above, it must promptly notify Rev in writing. In no event shall such notification be received by Rev later than one month after the date this Cabinet Construction Warranty expires. Within a reasonable time after such notification, Rev will correct any defect in workmanship or material by repairing or replacing same, at Rev's sole option. Such repair, including both parts and labor is at Rev's expense. All warranty service is subject to Rev's prior examination and written approval and will be performed by Rev or at service centers designated by Rev. All transportation to and from the designated service center will be at the owner's expense and is not included as a cost of repair covered by this warranty. These remedies are the owner's exclusive remedies for breach of warranty.

Warranty Exclusions and Limitations

This Limited Lifetime Cabinet Construction Warranty DOES NOT COVER:

1. Any product, components or parts not manufactured by Rev or covered by the warranty of another manufacturer, whether installed by Rev or parties other than Rev, including but not limited to hinges, cabinet hardware, Lexan sliding or hinged door sections, frames around said door sections, cabinet or door hold-open or closed devices, handles and similar equipment or items,
2. Damage caused by use of the vehicle for purposes other than those for which it was designed
3. Damage caused by accident or the negligence of the owner or any third party or by disasters such as fire, flood, wind and lightning,
4. Routine maintenance and maintenance items
5. Damage caused by the owner's failure to provide normal maintenance
6. Damage caused by unauthorized or improper installation of attachments, repairs or modifications 7. Damage during shipment
8. Any other abuse or misuse by the owner.
9. Exported and/or vehicles shipped to an international destination are excluded from this policy.

Limitation on Damages: Rev shall not be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict tort, or any other legal theory. Such damages include, but are not limited to, lost wages, lost vehicle rental expenses, loss of savings, profits, or revenue, loss of use of the vehicle or any associated equipment, cost of capital, cost of any substitute vehicle, equipment, facilities or services, downtime, the claims of third parties including customers, and injury to property. This limitation does not apply to claims for personal injury. Some states do not allow limits on warranties, or on remedies for breach in certain transactions. In such states, the limits in this paragraph and in the disclaimer of warranty may not apply.

Warranty Registration: This warranty is conditioned upon receipt by Rev of a completed and signed warranty registration card within two weeks of delivery. It is the obligation of the purchaser to sign the customer registration card and return it to Rev within the two weeks following delivery. The warranty registration card must be on file for any warranty claim to be considered. This warranty is not transferrable.

Warranty Claim Procedure: If the owner discovers, within the limited lifetime warranty period, a defect in material or workmanship, the owner must contact Rev in writing or call Rev's customer service department toll free at 855-661-9232 Monday through Friday from 8:00 to 5:00 pm (Eastern Time) prior to any warranty work being performed. Rev will provide the purchaser with a warranty claim form and further instructions on how to proceed with such warranty claim. All warranty correspondence must be sent to Rev, PO Box 677339, Orlando, Florida 32867-7339. In the case of products, components or parts covered by the warranty of another manufacturer, Rev will pass on to the owner the existing manufacturer's warranty to the extent reasonably possible. However, purchasers are responsible for checking the original component manufacturer's warranty regarding its coverage. In no event shall such notification be received by Rev later than one month following the expiration of the warranty period. All warranty work is subject to Rev's examination and approval. If authorized by Rev, the obligation of Rev is limited to correcting any defect in material or workmanship, with either new or used replacement parts, at Rev's option, to the original purchaser. If approved, such repair, including both parts and labor, is at Rev's expense. Invoices for approved warranties must be sent within 30 days of approval. The invoices must reference the Advance Factory Authorization (AFA) approval number. If an invoice is received without the AFA number it may be rejected and we will advise you to follow the abovementioned warranty claim procedure.

Third Party Representations: Rev does not authorize any person to create for Rev any other obligations or liability in connection with its custom module, and Rev is not responsible for any representation, promise or warranty made by a dealer, component or vehicle manufacturer, or other person beyond what is expressly stated in this limited warranty.

Warrantor's Rights: Warrantor reserves the unrestricted right to change the parts and designs of its products from time to time without notice and with no obligation to make corresponding changes in the product previously manufactured.

Disclaimer of Warranty: The foregoing warranties are in lieu of all other warranties, express or implied. The implied warranties of merchantability and fitness for a particular purpose are expressly disclaimed.

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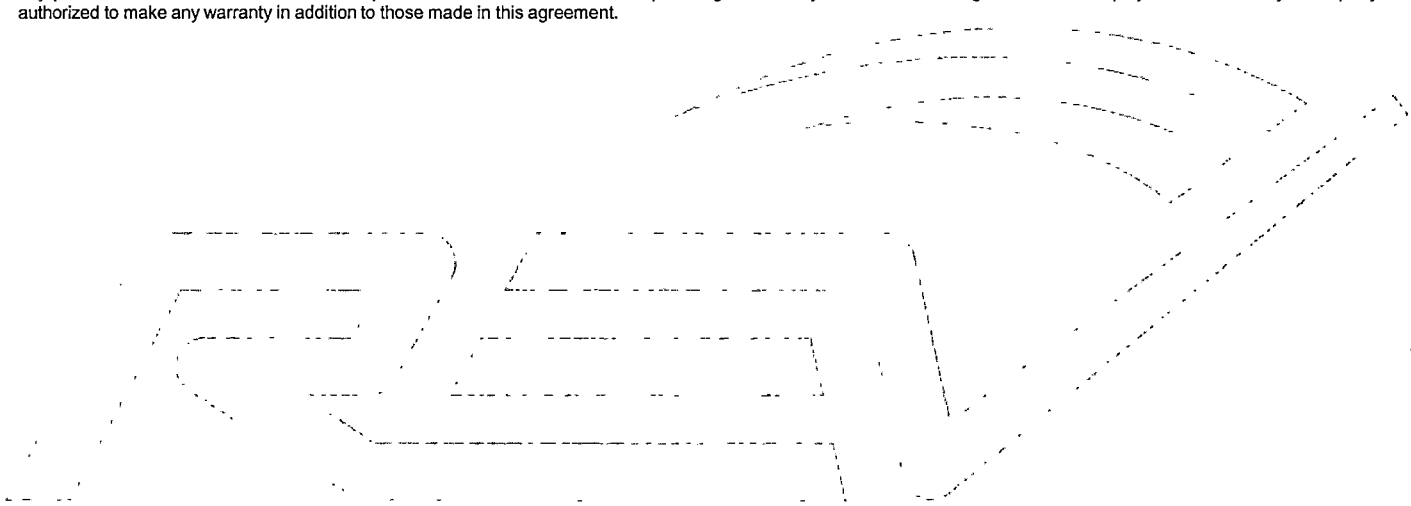
Warranty Termination: The warranty shall be void, and Rev shall be relieved from any and all obligations hereunder, if:

1. The motor vehicle is sold or any of the components are removed.
2. The chassis is remounted, unless the remount work is performed by Rev or by a service facility approved, in advance and in writing, by Rev.
3. Owner fails to comply with the warranty registration requirements described above.
4. Policy expiration date

Time Limit for requesting Arbitration: Any action for breach of warranty must be commenced within three months following the expiration of the warranty period.

Legal Remedies: Any claim or controversy arising out of or relating to this limited warranty, or beach thereof, shall be settled by arbitration administered by the American Arbitration Association in Orange County, Florida in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The laws of the State of Florida shall be applied in any arbitration proceedings, without regard to principles of conflict of law. Each party shall bear its own costs, fees and expenses of arbitration. The arbitrator(s) determination and the basis for that determination shall be in writing and shall include an explanation of the basis for the determination. The determination of the arbitrator(s) shall be final and binding and judgment upon such determination may be entered in any court having jurisdiction. The arbitration proceedings and arbitration award shall be maintained by the parties as strictly confidential, except as otherwise required by court order or as is necessary to confirm, vacate, or enforce the award and for disclosure in confidence to the parties' respective attorneys, tax advisors, or senior management personnel. Furthermore, any action for breach of warranty must be commenced within three months following the expiration of the warranty period.

No Other Warranty: Unless modified in a written statement signed by both parties, this agreement is understood to be the complete and exclusive agreement between the parties, superseding all prior agreements, oral or written, and all other communications between the parties (including without limitation any terms and conditions contained in any purchase order or sales invoice issued pursuant to the sale of the vehicle) relating to the subject matter of this agreement. No employee of Rev or any other party is authorized to make any warranty in addition to those made in this agreement.



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Limited Electrical Warranty

Rev Ambulance Group Orlando Inc., (hereinafter Rev) ("Warrantor") warrants to the original retail purchaser for a period of twelve (12) months from the date of delivery of the completed new custom module to the end user, regardless of subsequent ownership. This product shall be free of substantial defects in materials and workmanship, which are attributable to the Wheeled Coach brand and which arise during the course of normal use and service. Rev will correct any defect in covered parts or workmanship, with either new or used replacement parts, at Rev's option. Covered parts are limited to custom module electrical systems and components such as electrical harness, harness installation, wires (but only to the extent that wires are broken, chafed, or pinched), electrical connections, terminal blocks, junction posts, and related components. Printed circuit boards are covered for a limited lifetime. A lifetime is defined by Rev Limited Electrical Warranty as; 10 years from the expiration of the original Rev standard conversion warranty which is for an unlimited mileage for a period of twelve (12) months from the date of delivery for only original retail purchaser/owner. All warranty service is subject to Rev prior examination and (written) approval and will be performed by Rev or at service centers designated by Rev. This warranty is valid only in the United States and Canada, and any vehicle sold for use outside of the United States and Canada is sold "AS IS."

Component Manufacturer Warranty

Original component manufacturers may provide their own warranties. Purchasers should check the original component manufacturer's warranty regarding its coverage. Rev may assist the original retailer in submitting claim to the original component manufacturer within original manufacturer term period mentioned below.

- ***Weldon (Vehicle Multiplex system)*** (hereinafter VMUX) correctly is warranted against mechanical, electrical and physical defects for the period defined in the table below per module. The period is defined as the date of manufacture from Weldon; each module carries its own date of manufacture. Without (VMUX Certified Supplier) VCS, Weldon offers a 30-day parts-only warranty on all V-MUX hardware. Written notice of a defect must be received by Weldon within four (4) years after initial product shipment; unless an extended warranty is purchased. Note: Extended warranties are offered by purchasing tamper proof stickers from Weldon with the years of the warranty on them. Extended warranties extend the base warranty, a node with a 7 year sticker has an additional 3 years added to the 4 year standard. Damaged or removal of the label will result in no extended warranty. Weldon will correct by repair or replacement, at its option, equipment or parts which fail because of mechanical, electrical or physical defects, provided that the goods have been properly handled and stored prior to installation and properly installed and properly operated after installation. End users requiring warranty repairs on the V-MUX® system should contact the original equipment manufacturer's customer service or other appropriate department for service/warranty repairs. Weldon Repair Parts Labor Period is defined as the labor provided by Weldon's service department to repair/replace the returned device. This does not reflect the labor to remove/replace any such devices from the vehicle, nor indicate Weldon accepts any responsibility for such removal, replacement or troubleshooting of said devices. Please read below warranty exclusions below for items not covered by Weldon. Customer is responsible for verifying manufacturer warranties.

- ***Weldon Exclusions and Limitations*** – Weldon excludes and/or limits:
  1. Cost to remove defective part, installation of repaired product, labor or consequential damages of any kind, and the exclusive remedy being to require such parts to be furnished.
  2. Weldon's liability under no circumstances will exceed the contract price of goods claimed to be defective
  3. Any returns under this guarantee are to be on a transportation charges prepaid basis.

Warranty Performance

Owner's exclusive remedy under this warranty shall be repair or replacement of defective parts, free of charge to the Owner. Owner shall bear all expenses arising out of or relating to transporting the product to the appropriate Warranty Service Location.

Warranty Exclusions and Limitations

This Limited Ambulance Warranty DOES NOT COVER:

1. Damage to products that have been improperly installed, altered or modified by any party other than Warrantor.
2. Chassis electrical system and related components installed by the chassis supplier.
3. Electrical items which are not manufactured by Rev, but which are installed by Rev personnel. These items include, but are not limited to, the following: battery chargers; siren; inverters; generators; light bars and similar OEM equipment. These excluded items are typically covered by separate warranties supplied by the OEM manufacturer of the component. When necessary Rev personnel may assist the purchaser in pursuing warranty assistance with the OEM manufactures of these excluded-components.
4. The cab and chassis (owner is responsible for verify warranty provided by Cab & Chassis manufacturer.) Any collateral damage from cab and chassis related electrical failure.
5. Replacement of routine maintenance items, such as voltage regulator, flashers, bulbs, batteries, switches, etc.
6. Non Electrical Components and Items not specified hereinabove as covered items.
7. Damage caused by misuse, neglect, negligence or accident. Usage of this product in a manner, which is inconsistent with design intentions or inconsistent with owner's manual directions, will invalidate this warranty in regard to damage caused by or relating to such inconsistent usage.
8. Periodic tightening and cleaning of connection terminals as required by customary routine maintenance.
9. Damage caused by owner's failure to provide normal maintenance. Failure to follow operating instructions.
10. Damage caused by floods, fire, wind, hail, lightning, and/or any natural disaster.
11. Damage caused by replacement or modification of original parts and/or components this includes but is not limited to improper or unauthorized installation of repairs, and/or attachments. Installation of any "aftermarket" devices including ancillary equipment used in emergency service calls or the modification of any existing system or component originally installed by Rev without Rev's express written approval and any problems resulting from such installation or modification.
12. Rev shall not be liable for incidental, consequential, direct, indirect, or other damages (such as, but not limited to, lost wages, inconvenience, lodging, travel costs (expense of transporting the product to an authorized service center for service, and all expense arising from or relating to such transportation), or lost vehicle rental expenses) that result from breach of written warranty or any implied warranty.
13. Damage to a Rev vehicle that is leased or rented to a second party

Limitation on Damages: Rev shall not be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict tort, or any other legal theory. Such damages include, but are not limited to, lost wages, lost vehicle rental expenses, loss of savings, profits, or revenue, loss of use of the vehicle or any associated equipment, cost of capital, cost of any substitute vehicle, equipment, facilities or services, downtime, the claims of third parties including customers, and injury to property. This limitation does not apply to claims for personal injury. Some states do not allow limits on warranties, or on remedies for breach in certain transactions. In such states, the limits in this paragraph and in the disclaimer of warranty may not apply.

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Warranty Claim Procedure: If the owner discovers within this period a defect in material or workmanship it must promptly notify Rev in writing. In no event shall such notification be received by Rev later than 30 days after said warranty expires. All warranty work is subject to Rev's examination and approval. If authorized by Rev, the obligation of Rev is limited to repairing or replacing, per the warranty schedule, to the original purchaser. The Purchaser must contact Rev in writing or call Rev's customer service department toll free at 855-661-9232 Monday through Friday from 8:00 to 5:00 pm (Eastern Time) prior to any warranty work being performed. Rev will provide the purchaser with a warranty claim form and further instructions on how to proceed with such warranty claim. All warranty correspondence must be sent to Rev, PO Box 677339, Orlando, Florida 32867-7339. In the case of products, components or parts covered by the warranty of another manufacturer, Rev will pass on to the owner the existing manufacturer's warranty to the extent reasonably possible. All claimed defective parts are to be returned by the original purchaser, transportation expenses for returned parts pre-paid to Rev within 30 days of receipt of the replacement part or parts sent by Rev. If the claimed defective part(s) are not received by Rev within the 30 day grace period, or if the claimed defect cannot be authenticated, the original purchaser will be charged the full value of the replacement parts plus shipping and handling. Invoices for approved warranties must be sent within 30 days of approval. The invoices must reference the Advance Factory Authorization (AFA) approval number. If an invoice is received without the AFA number, it may be rejected and we will advise you to follow the abovementioned warranty claim procedure.

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Warranty Termination: The warranty shall be void, and Rev shall be relieved from any and all obligations hereunder, if:

1. The motor vehicle is sold or any of the components are removed.
2. The chassis is remounted, unless the remount work is performed by Rev or by a service facility approved, in advance and in writing, by Rev.
3. Owner fails to comply with the warranty registration requirements described above.
4. Policy expiration date

Time Limit for requesting Arbitration: Any action for breach of warranty must be commenced within three months following the expiration of the warranty period.

Legal Remedies: Any claim or controversy arising out of or relating to this limited warranty, or beach thereof, shall be settled by arbitration administered by the American Arbitration Association in Orange County, Florida in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The laws of the State of Florida shall be applied in any arbitration proceedings, without regard to principles of conflict of law. Each party shall bear its own costs, fees and expenses of arbitration. The arbitrator(s) determination and the basis for that determination shall be in writing and shall include an explanation of the basis for the determination. The determination of the arbitrator(s) shall be final and binding and judgment upon such determination may be entered in any court having jurisdiction. The arbitration proceedings and arbitration award shall be maintained by the parties as strictly confidential, except as otherwise required by court order or as is necessary to confirm, vacate, or enforce the award and for disclosure in confidence to the parties' respective attorneys, tax advisors, or senior management personnel. Furthermore, any action for breach of warranty must be commenced within three months following the expiration of the warranty period.

No Other Warranty: Unless modified in a written statement signed by both parties, this agreement is understood to be the complete and exclusive agreement between the parties, superseding all prior agreements, oral or written, and all other communications between the parties (including without limitation any terms and conditions contained in any purchase order or sales invoice issued pursuant to the sale of the vehicle) relating to the subject matter of this agreement. No employee of Rev or any other party is authorized to make any warranty in addition to those made in this agreement.

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IMMI®

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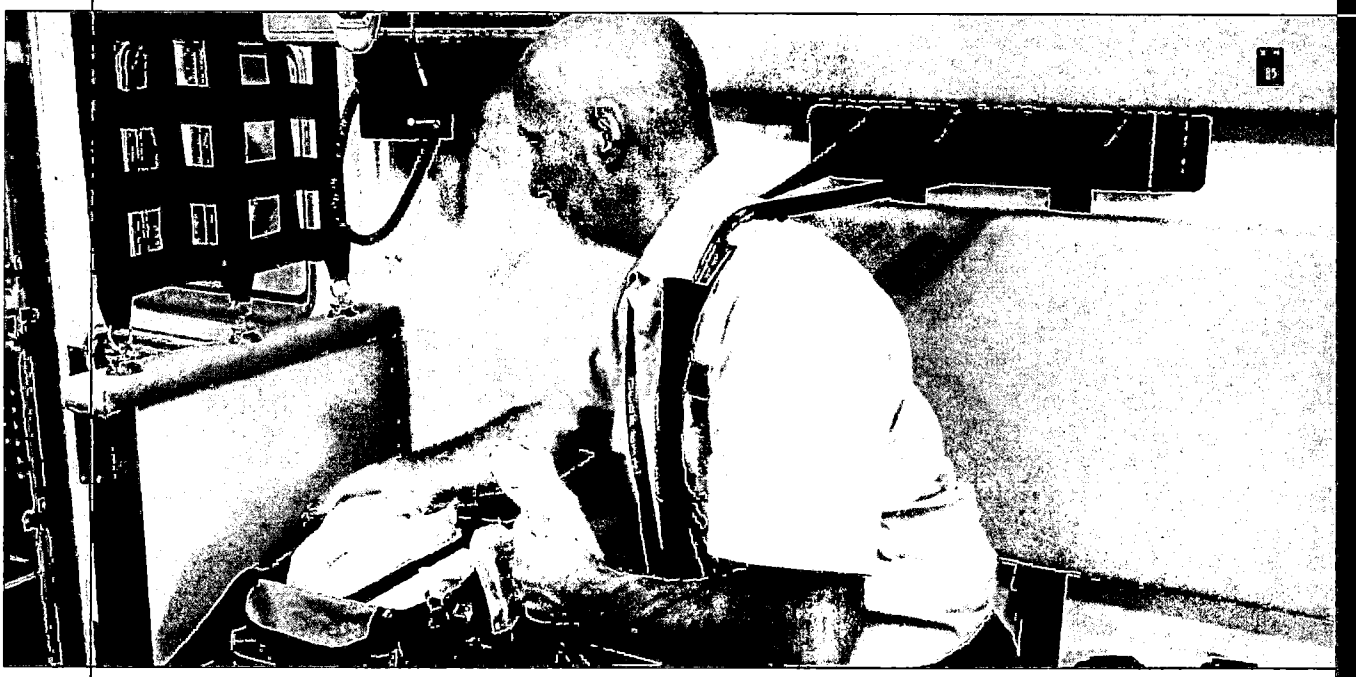


PER4MAX® CONTROLLED DECELERATOR

Giving you the freedom to do your job.

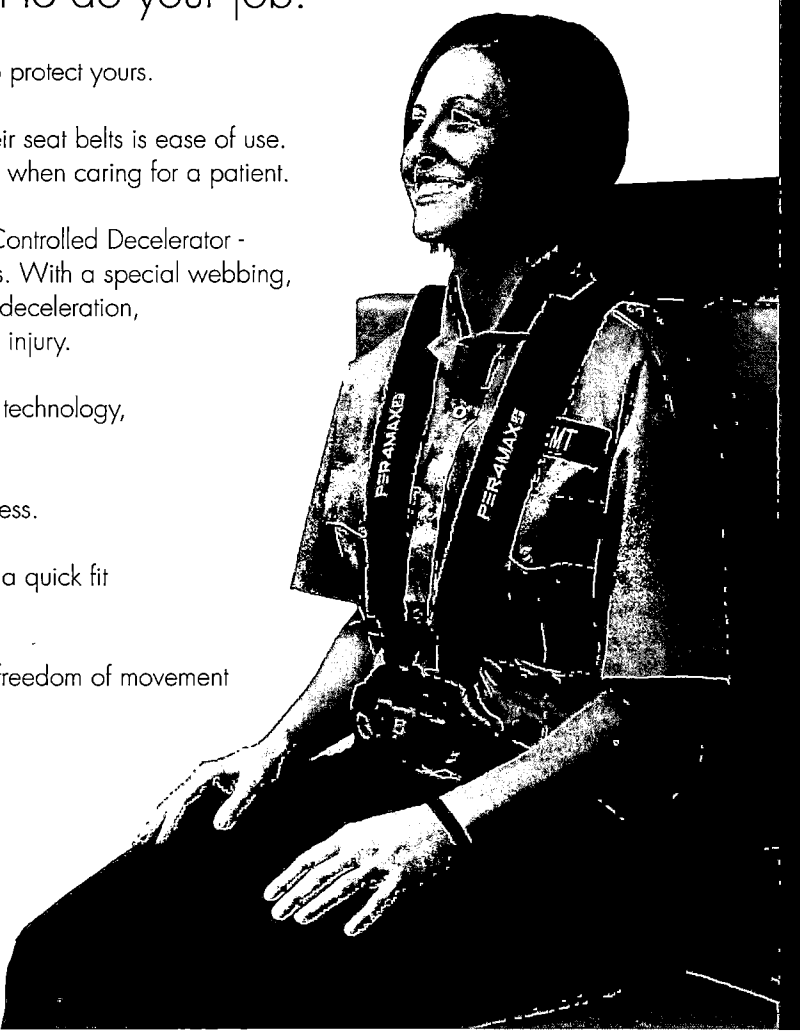
When you're saving lives, don't forget to protect yours.

A common reason for EMTs not using their seat belts is ease of use. EMT's need the freedom to move around when caring for a patient.

Introducing IMMI's exclusive Per4Max® Controlled Decelerator - the newest innovation in 4-point restraints. With a special webbing, the Per4Max absorbs energy and slows deceleration, which can reduce the chances of serious injury.

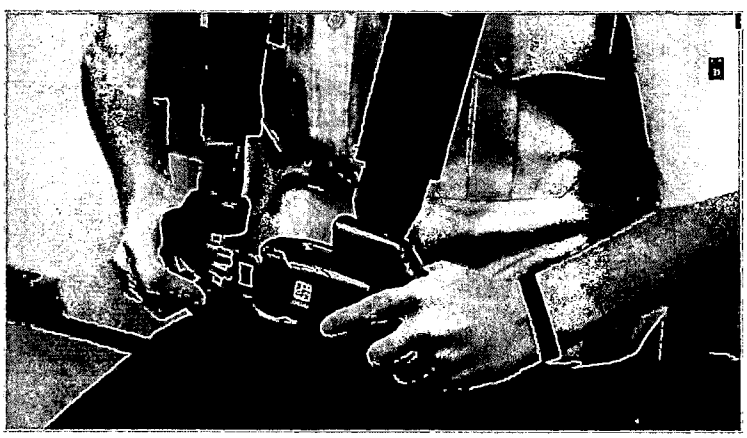
In addition to the Controlled Decelerator technology, IMMI's Per4Max features:

- One buckle for easy on and quick egress.
- A 4-point retractor system allowing for a quick fit and clean storage when not in use.
- A fully retractable system allowing for freedom of movement



PER4MAX® CONTROLLED DECELERATOR

Whether it's a rollover on a narrow road, or a crash with a truck or car, IMMI designs products that give our first responders a better chance of walking away from an accident. Our safety systems are hassle-free, comfortable, and save precious time while protecting EMTs and other first responders.



Four points of protection. One point of connection.

PER4MAX®

Safety You Can TRUST

What does it mean to be CAPE® Tested? It means credibility, quality, and precise results.

Aside from one of the largest barrier blocks in the world, CAPE is also home to a 90° rollover impact machine that leading fire apparatus and ambulance manufacturers use to evaluate and validate occupant protection systems.

Whether testing the crash-worthiness of a fire apparatus, cab integrity, air bag deployment, or needing computational analysis and simulation services, CAPE delivers. Their findings have led to significant advancement in safety for the fire/EMS industry and the men and women who utilize those vehicles to save lives.

CAPE TESTED℠

click tug & snug®
SEAT BELT EDUCATION

IMMI reminds you to always buckle up.

IMMI®
imminet.com

Steve Ward
sward@imminet.com

18881 IMMI Way
Westfield, IN 46074
317.896.9531

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Ford Motor Company

Is proud to recognize

REV Ambulance Group-Orlando

as a participant in the

Ambulance

Qualified Vehicle Modifier Program

QUALIFIED VEHICLE MODIFIER

Randy M. Freiburger -SVE Quality Programs Mgr.

June, 2017

CERTIFICATE OF REGISTRATION

This is to certify that

REV Ambulance Group Orlando, Inc.

2737 N. Forsyth Road, Winter Park, Florida 32792-7339 USA

operates a

Quality Management System

which complies with the requirements of

ISO 9001:2015

for the following scope of certification

Custom designed and manufacturing of ambulance systems.

Certificate No.:	CERT-0123540	Original Certification Date:	May 3, 2004
File No.:	801968	Certification Effective Date:	September 5, 2018
Issue Date:	September 10, 2018	Certificate Expiry Date:	September 4, 2021

Kevin Goodwin
General Manager Technical Services
SAI Global Assurance

Certified System ISO 9001

ANAB ACCREDITED ISO/IEC 17021 MANAGEMENT SYSTEMS CERTIFICATION BODY

MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT IAF

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INFORM. INSPIRE. IMPROVE.

COMMISSION ON ACCREDITATION OF AMBULANCE SERVICES
GROUND VEHICLE STANDARD

Final Stage Ambulance Manufacturer
FSAM Registration

REV Ambulance Group

Is duly registered and authorized to certify GVS compliant vehicles that they have produced by supplying the CAAS GVS label and documents, verifying the vehicle's components, performance and equipment meet or exceed all the requirements and tests set forth in the standard.

Mark S. Van Arnam
CAAS GVS Administrator

COMMISSION ON ACCREDITATION OF AMBULANCE SERVICES

1926 Waukegan Road, Suite 300, Glenview, Illinois 60025-1770
Phone: 847.657.6828 • Fax: 847.657.6825 • info@groundvehiclestandard.org

NDT Amelia LLC.
2561 Pirates Bay Dr.
Fernandina Beach, Florida 32034

Rev Ambulance Group Orlando
2737 N. Forsyth Road
Winter Park, FL. 32792

January 20, 2017

Dear: Lisa Bazzell
Subj: Welder qualification / Certification

1. Rev Ambulance Group Orlando welders are qualified in accordance with American Welding Society (AWS) Requirements. This includes welding position, joint configuration, electrode type and size, process, base metal type, base metal thickness, and specific welding technique. During the performance of their qualification testing a company qualified American Society of Nondestructive Testing (ASNT) Nondestructive Testing Level II inspector witness the qualification welding, and testing for each welder. The general sequence for qualification is:
- Review the WPS / PQR
- Check equipment
- Check test coupon configuration
- Monitor actual welding to assure that it complies with the welding procedure.
- Test and evaluate coupons
- Complete welder certification paperwork.

2. Rev Ambulance Group as a company verifies that their welding personnel have been tested in accordance with AWS codes B2.1, D1.1, D1.2, and D1.6. and are certified to the same.

Sincerely,

John E. Meierdierck

John E. Meierdierck CWO4 USN Ret.
NDT Amelia LLC. Level III
C: (904) 206-9822
john.meierdierck@ndtamelia.com

CAPE
Center for Advanced Product Evaluation

March 18, 2011

Antonio Cokovski
Wheeled Coach
2737 North Forsyth Road
Winter Park, FL 32792
antonio.cokovski@wheeledcoach.com

Mr. Cokovski,

This document is to confirm that IMMI's Center for Advanced Product Evaluation (CAPE) evaluated a Wheeled Coach Standard Ambulance Box Design to the Society of Automotive Engineer's recommended practices SAE J2420 and SAE J2422 and to the E.C.E. R29 requirements. On December 7, 2010, CAPE evaluated the ambulance box per SAE J2422, Cab Roof Strength – Quasi Static Loading Heavy Trucks, and per SAE J2420, COE Frontal Strength Evaluation – Dynamic Loading Heavy Trucks. The performance of the standard ambulance box met all requirements set-forth by the recommended practices SAE J2420 and J2422.

On December 8, 2010, the ambulance box was also evaluated per the E.C.E. R29, Protection of the Occupants of the Cab of a Commercial Vehicle, requirements when tested in accordance with recommended practices SAE J2420 and J2422. The requirements set-forth by E.C.E. R29, paragraphs 5.3.1, 5.4.1, and 5.4.2, are comprised of the cab or in this situation, the box, maintaining survivable space of the occupant compartment in all seating positions, maintaining the box to chassis attachments in at least one location, and that the doors on the box remained closed during testing. The performance of Wheeled Coach's Standard Ambulance Box Design met the aforementioned E.C.E. R29 requirements, when tested in accordance with SAE J2420 and J2422.

This document confirms that the Wheeled Coach ambulance box and chassis section built and designed as supplied to CAPE complied with the requirements and intent of NFPA 1901-09 section 14.3.2 when tested in accordance with recommended practices in SAE J2420, J2422 and E.C.E. R29.

Sincerely yours,

Thomas J. Chezem
Vice President - CAPE

Ref: CTR04982

cc: John Porter Jennifer Wyler Dan Veselsky Will Dodson

NTEA
THE ASSOCIATION FOR THE WORK TRUCK INDUSTRY

ADMINISTRATIVE OFFICE
37400 Hills Tech Drive
Farmington Hills, MI 48331
248-489-7090, FAX 248-489-8590

WASHINGTON OFFICE
1701 Pennsylvania Ave. NW, Suite 300
Washington, DC 20006
202-552-1600

OTTAWA OFFICE
1 Rideau St., Suite 700
Ottawa, ON K1N 8S7 Canada
613-670-5877

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(Mount Laurel, New Jersey)

September 14, 2016

To Whom it May Concern:

As a provider of resources for the commercial truck and transportation equipment industry, the National Truck Equipment Association (NTEA) delivers the tools its members need to find solutions to technical questions; opportunities to market products; ideas for creating quality-driven, safe, productive workplaces; ways to network with distributors and manufacturers; and more.

On behalf of the NTEA, please accept this letter as confirmation that **Wheeled Coach** has been a member of the NTEA in good standing since **August 19, 1986.**

If you have any questions, or if I can be of further assistance, please contact me direct at (248) 479-8154 or email emily@ntea.com.

Sincerely,

Emily Hooks
NTEA Member Services Coordinator

Wheeled Coach
#33102

ECX
ELECTRONICS CORPORATION
1631 Rock Springs Rd.
Ste. 127
Apopka, FL 32712
Phone: 1-888-853-0220 Fax: 321-445-5553

SPECIFICATIONS FOR RELAY BOARD PART No. EL35258

All circuits and components on the board to be numbered and labeled.

Circuit board to be constructed using FR-4 laminate material with double-sided copper laminate.

Board thickness to be 0.094 inches

Double sided copper laminate to be 2 ounces

Solder mask to be of the non-photo imageable type applied over bare copper.

Plating to be of the Hot Air Solder Leveling type.

Circuit trace width initially based on the fuse capacity of the corresponding circuit and then enlarged as much as the available space permits to facilitate heat dissipation.

All holes on the board to be platted-through

Connections from the board to the external circuits shall be made using screw terminal strips mounted on the board.

Each circuit connected to the terminal strips shall be identified by function and wire color and number.

Circuit board options to be programmable by means of pin headers and removable jumpers.

Each circuit on the board shall have color coded indicating LEDs for diagnostic (Input=Red; Output=Green; Switch=Yellow)

Attachment Code: D545910 Master ID: 1373880, Certificate ID: 15871816

DEPARTMENT OF HIGHWAY SAFETY & MOTOR VEHICLES
NEIL KIRKMAN BUILDING, MS-65, ROOM A312
TALLAHASSEE FL 32399

To whom it may concern:

In our continuing effort to provide timely certificate delivery, Lockton Companies is transitioning to paperless delivery of Certificates of Insurance.

To ensure electronic delivery for future renewals of this certificate, we need your email address. Please contact us via one of the methods below, referencing Certificate ID **15871816.**

- Email: STL-edelivery@lockton.com
- Phone: (866) 728-5657 (toll-free)

If you received this certificate through an internet link where the current certificate is viewable, we have your email and no further action is needed.

In the event your mailing address has changed, will change in the future, or you no longer require this certificate, please let us know using one of the methods above.

The above inbox is for automating electronic delivery of certificates only. Please do NOT send future certificate requests to this inbox.

Thank you for your cooperation and willingness in reducing our environmental footprint.

Lockton Companies

CAPE

REV Ambulance Group, Inc.
2737 Forsyth Rd.
Winter Park, FL 32792

This document confirms that CAPE performed testing under project numbers CTR11494 and CTR11534 to SAE Recommended Practice J3026 Ambulance Patient Compartment Seating Integrity and Occupant Restraint utilizing REV Ambulance Group Orlando Inc. supplied ambulance body sections. Tests pulses from the SAE ambulance frontal crash conditions, SAE J2917 Occupant Restraint and Equipment Mounting Integrity – Frontal Impact System-Level Ambulance Patient Compartment , the ambulance side crash conditions, SAE J2956 Occupant Restraint and Equipment Mounting Integrity – Side Impact System-Level Ambulance Patient Compartment , and the ambulance rear crash conditions, SAE J3044 Occupant Restraint and Equipment Mounting Integrity – Rear Impact System-Level Ambulance Patient Compartment were performed. The Squad Bench and CPR Seating Positions were tested for compliance with the SAE J3026 standard. For the tests shown in the accompanying tables, all SAE J3026 performance requirements were met for the Squad Bench and CPR Seating Positions including all ATD Injury criteria and all SAE test pulse criteria.

Kind Regards,

Ryan W Hoover, PE
CAPE Technical Director

REF: CTR11494 (004,005) JAN 2017
CTR11534 (001, 005, 006, 007, 009, 010, 011, 012, 013, 014, 015, 016, 019, 021) MAR 2017

CAPE

CTR11494 and CTR11534 Certification Tables

Table 1, CPR Position – 6 Point Seat Belt – Wooden Square Cabinet

Vehicle Impact Direction	Test No.	Crash Pulse	Pulse Meets Requirements	Dummy	Dummy Impact Direction	Dummy Injury Criteria Meets Requirements
Frontal	CTR11534-001	SAE J2917	Yes	A10	Side	Yes
Street Side	CTR11534-007	SAE J2956	Yes	A12	Rear	Yes
Curb Side	CTR11534-013	SAE J2956	Yes	A10	Frontal	Yes
Rear	CTR11534-016	SAE J3044	Yes	A12	Side	Yes

Table 2, CPR Position – 6 Point Seat Belt – Aluminum Square Cabinet

Vehicle Impact Direction	Test No.	Crash Pulse	Pulse Meets Requirements	Dummy	Dummy Impact Direction	Dummy Injury Criteria Meets Requirements
Frontal	CTR11534-005	SAE J2917	Yes	A10	Side	Yes
Street Side	CTR11534-006	SAE J2956	Yes	A10	Rear	Yes
Curb Side	CTR11534-014	SAE J2956	Yes	A10	Frontal	Yes
Rear	CTR11534-015	SAE J3044	Yes	A12	Side	Yes

Table 3, Squad Bench 2 Position Front/Rear – Aluminum Construction

Vehicle Impact Direction	Test No.	Crash Pulse	Pulse Meets Requirements	Dummy	Dummy Impact Direction	Dummy Injury Criteria Meets Requirements
Frontal	CTR11494-004	SAE J2917	Yes	A10/A12	Side	Yes
Street Side	CTR11534-009	SAE J2956	Yes	A10/A12	Rear	Yes
Curb Side	CTR11534-012	SAE J2956	Yes	A10/A12	Frontal	Yes
Rear	CTR11534-019	SAE J3044	Yes	A10/A12	Side	Yes

Table 4, Squad Bench 2 Position Front/Rear – Wooden Construction

Vehicle Impact Direction	Test No.	Crash Pulse	Pulse Meets Requirements	Dummy	Dummy Impact Direction	Dummy Injury Criteria Meets Requirements
Frontal	CTR11494-005	SAE J2917	Yes	A10/A12	Side	Yes
Street Side	CTR11534-010	SAE J2956	Yes	A10/A12	Rear	Yes
Curb Side	CTR11534-011	SAE J2956	Yes	A10/A12	Frontal	Yes
Rear	CTR11534-021	SAE J3044	Yes	A10/A12	Side	Yes

CAPE

Date: December 13, 2016

Re: Wheeled Coach Industries

2737 Forsyth Road

Winter Park FL 32792

This document confirms that CAPE performed testing under project number CTR11068 to SAE Surface Vehicle Recommended Practice J3057 Ambulance Modular Body Evaluation-Quasi-Static Loading for Type I and Type III Modular Ambulance Bodies utilizing a Wheeled Coach supplied type III modular body, serial number 1M6001. All SAE J3057 required test parameters and all SAE J3057 performance requirements were met and/or exceeded.

Kind Regards,

Ryan W Hoover, PE
CAPE Technical Director

Ryan W Hoover

RYAN W. HOOVER
REGISTERED
No. PE10302045
STATE OF
INDIANA
PROFESSIONAL ENGINEER

REF: (CTR11068-001, CTR11068-003, CTR11068-006)
SAE J3057 Jun 2016

Final Stage Ambulance Manufacturer:
REV Ambulance Group Orlando
Address: 2737 North Forsyth Road, Winter Park, FL 32792
Test(s) Name & Reference Standards:
SAE J3043 - Ambulance Equipment Mount Device or Systems
AMD 003 - Oxygen Tank Retention System Static Test
Test(s) conducted on:
Oxygen H-Tank Retention System

Model: N/A	*Engine:* N/A
VIN: N/A	

	Name, Title	*Signature*	*Company*
Test Conducted By:	Richard Mitchell R & D Engineer	*Richard Mitchell*	ACC Climate Control a Valeo brand
Test Conducted By:	Ryan Lehman Project Manager	*Ryan Lehman*	ACC Climate Control a Valeo brand
Test Conducted & Verified By:	Rodd Lehman Test Lab / R&D Manager	*Rodd Lehman*	ACC Climate Control a Valeo brand
Checked / Verified By:	Dennis Elswick M.R. /Engineering Manager	*Dennis Elswick*	ACC Climate Control a Valeo brand
Checked / Verified By:			ACC Climate Control a Valeo brand

Test number	AMD-2017-010
Date	5/24/2017

Any additions, alterations, or unauthorized use of excerpts from this report are expressly forbidden.

This test report pertains only to the vehicle(s). It remains the sole responsibility of the manufacturer to provide a product consistent to that which was tested

ISO/IEC 17025:2005 ANAB Accredited
Certificate AT-1361

ilac-MRA ANAB ACCREDITED AT-1361

1. Objective

To verify that the oxygen tank retention system(s) meets the minimum load requirements. This applies to standard oxygen tanks and any holders for portable oxygen tanks.

2. Test Equipment - *Check all equipment for calibration compliance*

2.1 Kestrel Pocket weather tracker. Model 4000 (TL016)
2.2 Hand Pump Hydraulic Cylinder (TL045)
2.3 5000lb Load Cell & Digital Display (TL021, TL025)
2.4
2.5

3. Test Specimen

REV Oxygen H-Tank Retention System. The retention system consisted of one (1) retention frame, three (3) body straps, and one (1) yoke strap. The retention system was mounted to a rigid base with eight (8) 1/4-20 UNC Hex Head F593 Stainless Steel bolts, 1/4-20 Stainless Steel Nuts, and 1/4 x 1 OD Stainless Steel Fender Washers.

4. Test Set-Up

Reference following page(s) for instructions.

5. Procedure & Test Results

Reference following page(s) for instructions.

6. Conclusions

REV Oxygen H-Tank Retention System met or exceeded the requirements of

SAE J3043 - Ambulance Equipment Mount Device or Systems and
AMD 003 - Oxygen Tank Retention System Static Test

7. Pictures

Take Pictures to document test procedure.

Initial: RAL
Date: 06/05/2017

AMD 003 and SAE J3043

Oxygen Tank Retention System Static Test

Tested For:	*REV Ambulance Group Orlando*	Temperature:	*73.0°F*
Date:	*5/24/2017*	Humidity:	**37.4% RH**
Model:	*N/A*		
Type:	*N/A*		
VIN:	*N/A*		

Test Set-Up & Procedure

4.1 This is a destructive test. Deformation and fracture shall be expected and considered acceptable.

4.2 Mount the oxygen tank retention system to a rigid test fixture oriented as it would be installed in a completed ambulance.

4.3 Mount the test analog in the retention system.

4.4 Attach a calibrated in-line gauge to the test analog to measure the force applied through the centroid of the test analog.

4.5 Apply the following forces through the centroid of the test analog:
- 33.75 x Equipment Weight, in the forward direction
- 39.0 x Equipment Weight, in a lateral direction
- 25.0 x Equipment Weight, in the vertical direction

4.6 Apply each required force to the test analog in not less than 30 seconds.

4.7 Maintain each required load for not less than 5 seconds.

4.8 Release the applied load.

4.9 For each test direction, record the maximum applied load and any deformation or fracture of the oxygen tank retention system.

4.10 A new oxygen tank retention system and hardware may be used for each test.

4.11 Full D Tank = 14 lbs., Full M Tank = 83 lbs., Full H Tank = 135 lbs. (KKK-A-1822 E sec 6.7)

Full Oxygen Tank Weight: **135.0 lbm**

Required forward applied load: **4557 lbf**
Required lateral applied load: **5265 lbf**
Required vertical applied load: **3375 lbf**

Test Results

5.1 ☒ All required loads were applied and maintained as specified.

5.2 ☒ No components of the retention system completely detached or were fully severed.

5.3 ☒ The test analog was retained by the retention system.

5.4 ☒ Take pictures of the test procedure for documentation.

Initial: RAL
Date: 06/05/2017

AMD 003 and SAE J3043

Oxygen Tank Retention System Static Test

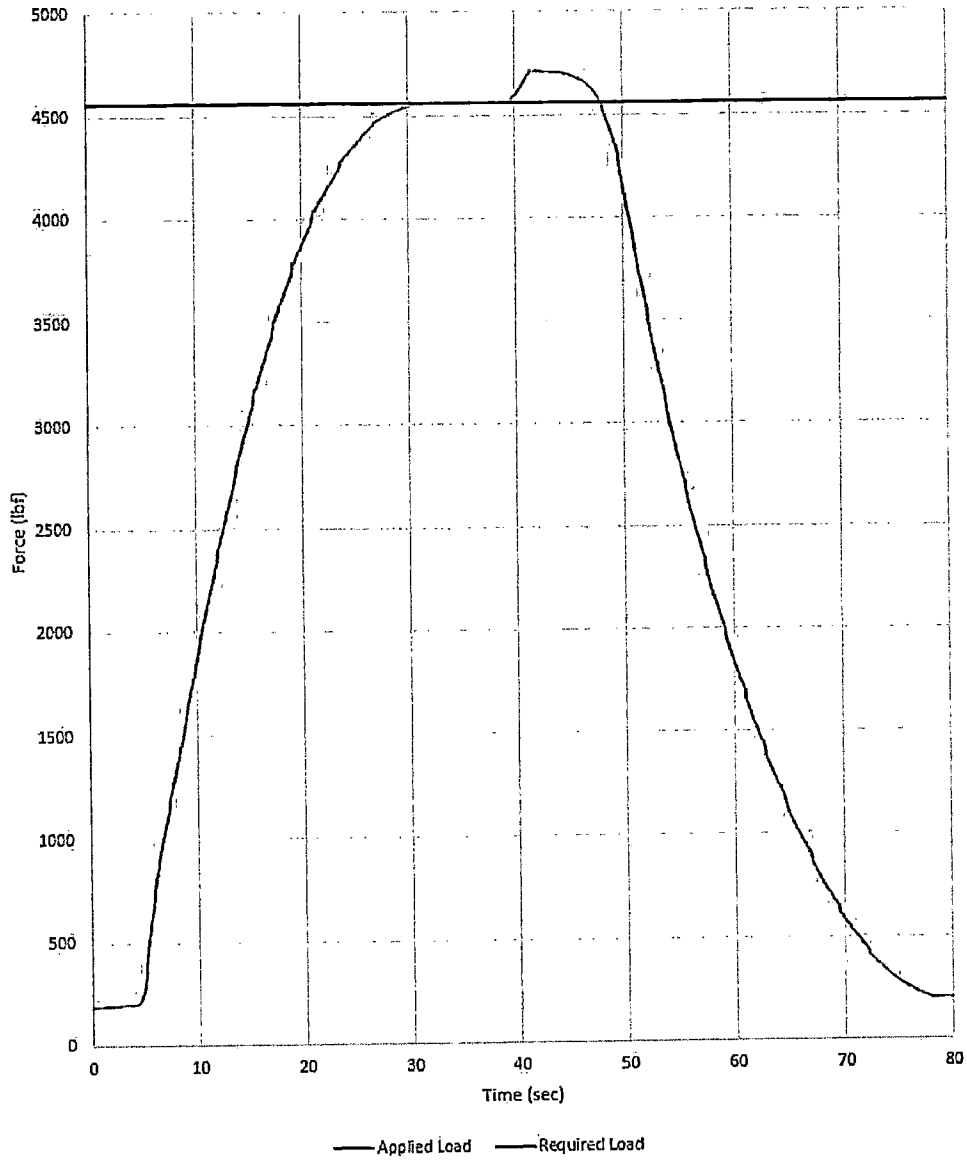
Notes/Comments:

Initial: RAL
Date: 06/05/2017

AMD 003 and SAE J3043

Oxygen Tank Retention System Static Test

2017-010
SAE J3043 - Ambulance Equipment Mount Systems, Forward Load
Force vs. Time
Maximum Applied Force: 4712.4 lbf

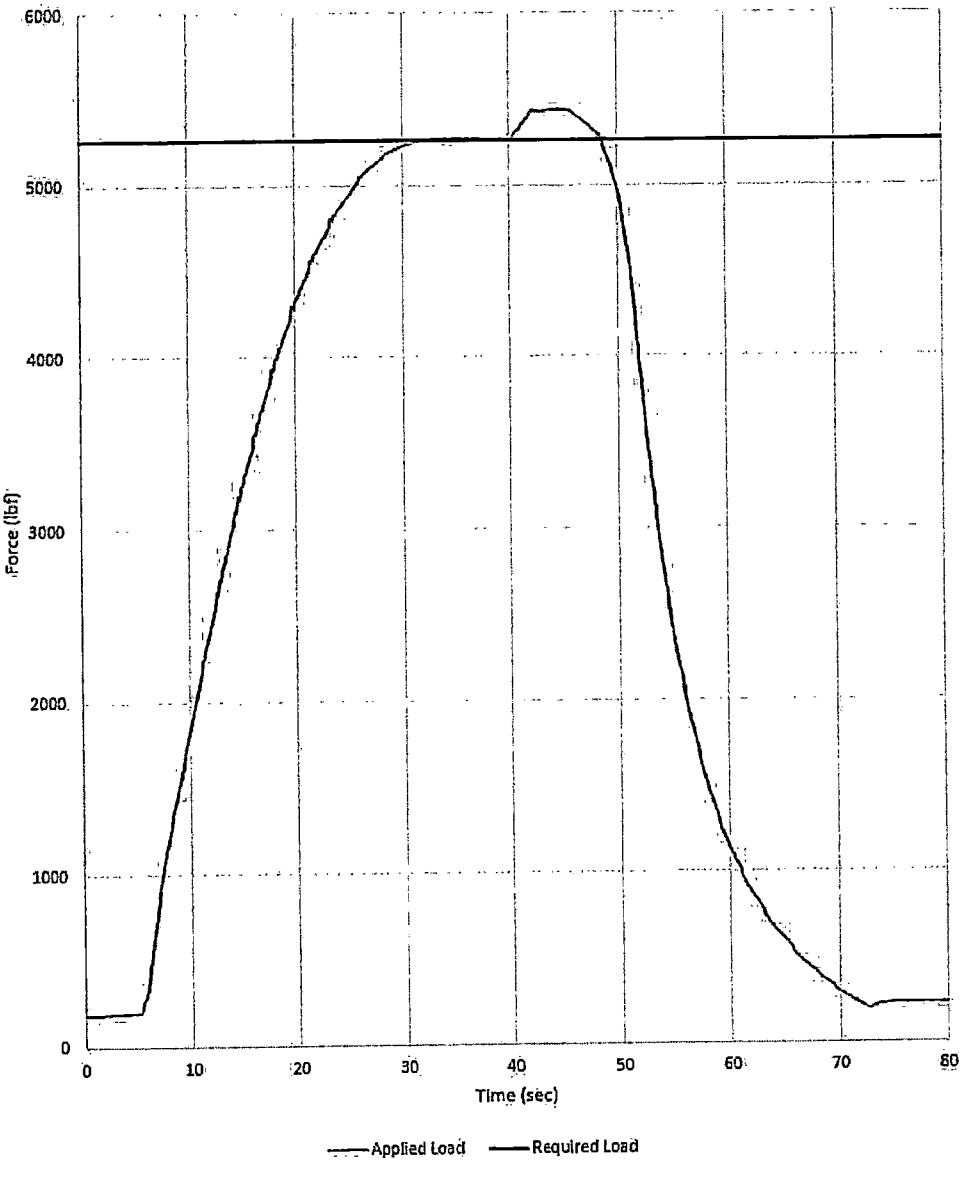


Initial: RAL
Date: 06/05/2017

AMD 003 and SAE J3043

Oxygen Tank Retention System Static Test

2017-010
SAE J3043 - Ambulance Equipment Mount Systems, Lateral Load
Force vs. Time
Maximum Applied Force: 5434.6 lbf

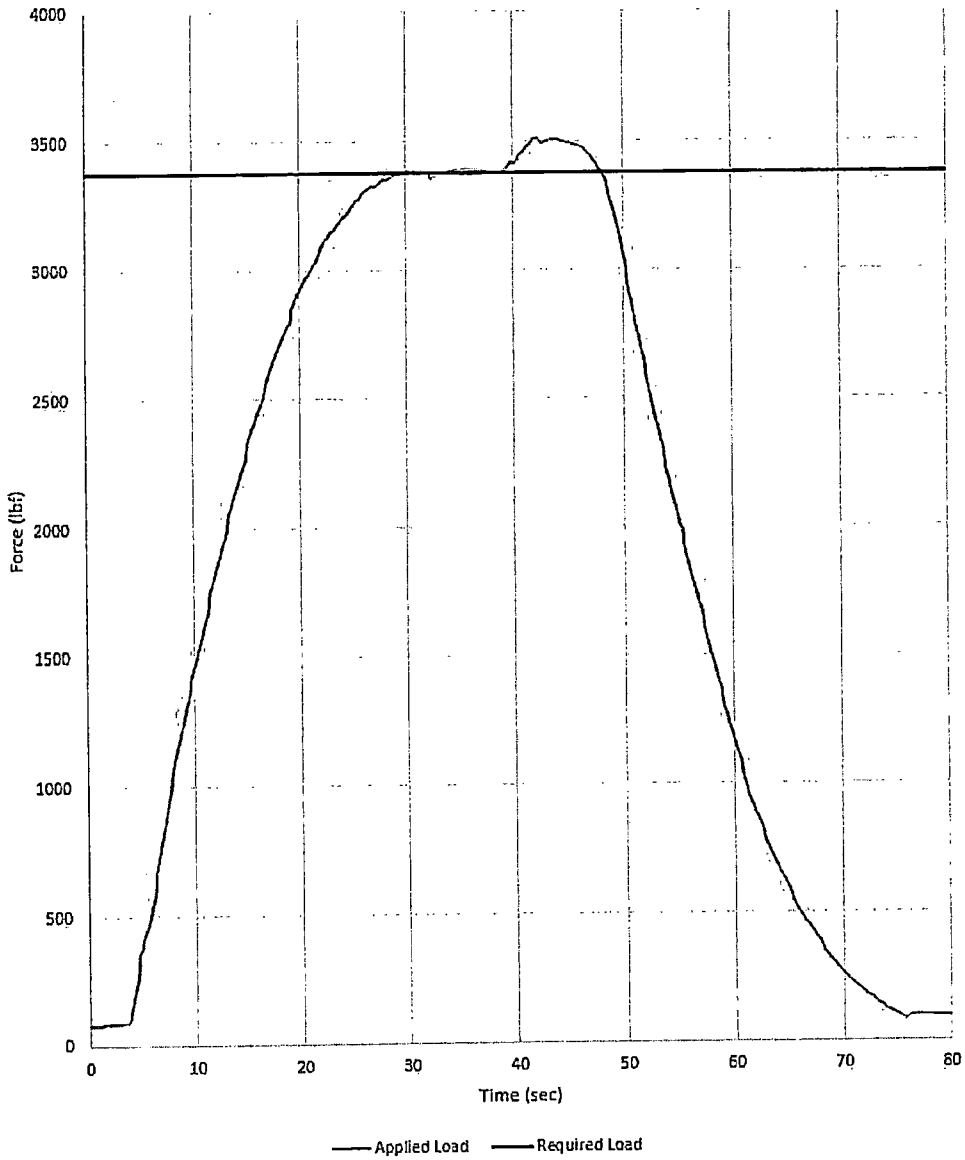


Initial: RAL
Date: 06/05/2017

AMD 003 and SAE J3043

Oxygen Tank Retention System Static Test

2017-010
AMD 003 - Oxygen Tank Retention System Test, Vertical Load
Force vs. Time
Maximum Applied Force: 3621 lbf

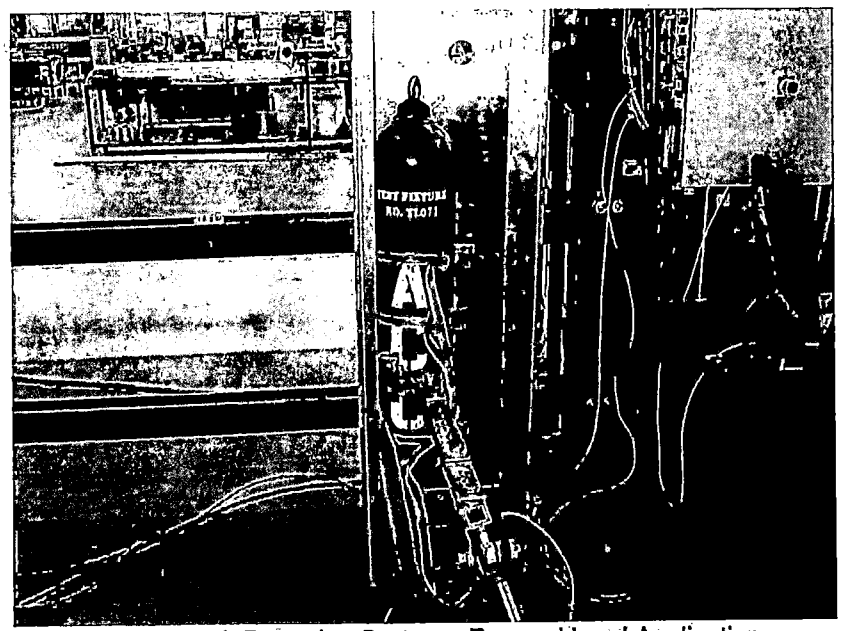


Initial: RAL
Date: 06/05/2017

AMD 003 and SAE J3043

Oxygen Tank Retention System Static Test

Oxygen Tank Retention System - Forward Load Set-Up

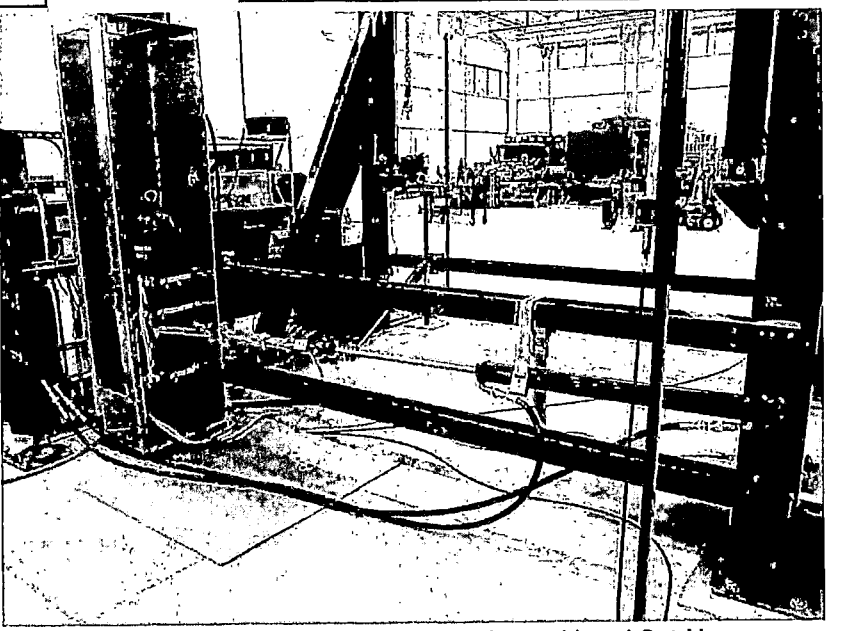


Oxygen Tank Retention System - Forward Load Application

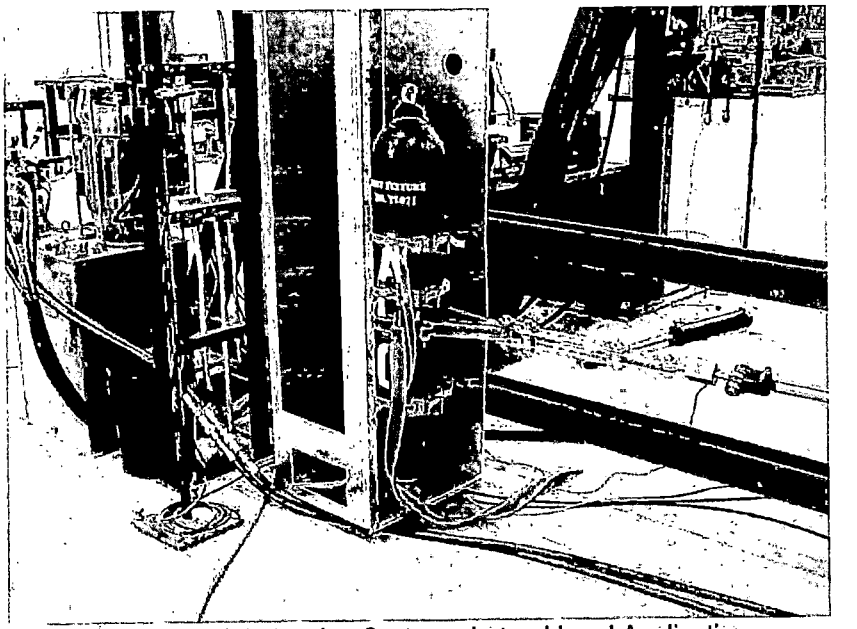
Initial: RAL
Date: 06/05/2017

AMD 003 and SAE J3043

Oxygen Tank Retention System Static Test



Oxygen Tank Retention System - Lateral Load Set-Up



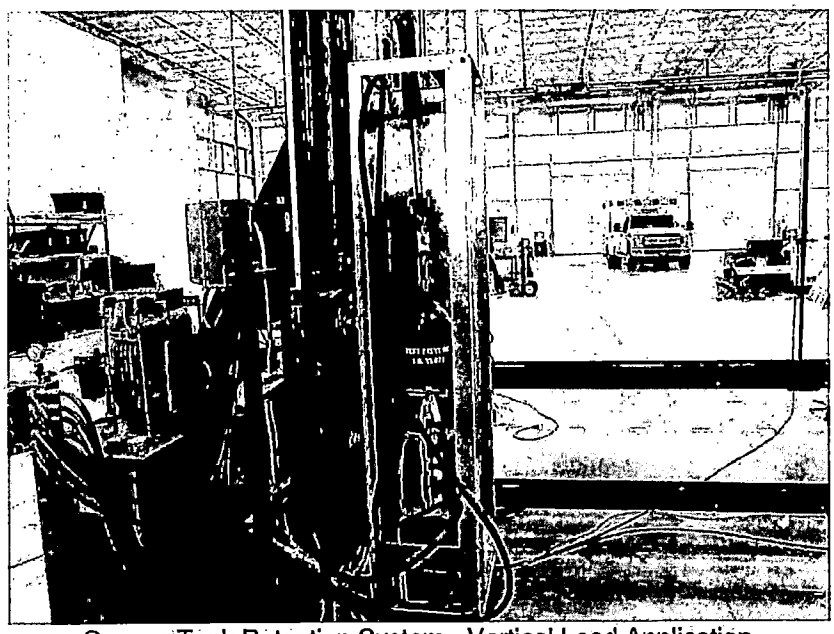
Oxygen Tank Retention System - Lateral Load Application

Initial: RAL
Date: 06/05/2017

AMD 003 and SAE J3043

Oxygen Tank Retention System Static Test

Oxygen Tank Retention System - Vertical Load Set-Up



Oxygen Tank Retention System - Vertical Load Application

CAPE

Date: July 17, 2017

Re: REV Ambulance Group Orlando, Inc.
2737 Forsyth Road
Winter Park FL 32792

This document confirms that CAPE performed testing under project number CTR11652 to SAE Surface Vehicle Recommended Practice J3058 Ambulance Interior Storage Compartment Integrity, November 2016. This testing utilized a complete set of REV supplied ambulance cabinets. During these tests, all SAE J3058 required test parameters and performance requirements were met and/or exceeded.

Kind Regards,

Ryan W Hoover, PE
CAPE Technical Director

REGISTERED
RYAN W. HOOVER
No. PE10302045
STATE OF
INDIANA
PROFESSIONAL ENGINEER

REF: (CTR11652-002, 004, 005, 006, 007, 008, 010, 011, 012)
SAE J3058 NOV 2016s

CAPE

REV AMBULANCE GROUP ORLANDO - SAE J3038 CERTIFICATION TEST MATRIX – TABLE 1

DWG NO.	DESCRIPTION	LOCATION	J3058 ORIENTATION	J2917 TEST	J2956 TEST	J3044 TEST
TEST BSW	WALL CABINET	Note: one location only	C	11652-012	11625-006 CURB	NOT REQ'D
TEST RF	RIGHT FRONT CABINET	UPPER	A	NOT REQ'D	11652-007 STREET	11652-008
TEST RF	RIGHT FRONT CABINET	LOWER	A	NOT REQ'D	11652-007 STREET	11652-008
TEST SSUF	SS UPPER FRONT CABINET	LEFT	B	11652-012	11652-002 CURB	11652-012
TEST SSUF	SS UPPER FRONT CABINET	CENTER	B	11652-012	11652-002 CURB	11652-012
TEST SSUF	SS UPPER FRONT CABINET	RIGHT	B	11652-012	11652-002 CURB	11652-012
TEST SSUR	STREETSIDE UPPER REAR CABINET	UPPER LEFT	C	11652-011	11652-005 CURB	NOT REQ'D
TEST SSUR	STREETSIDE UPPER REAR CABINET	UPPER RIGHT	C	11652-011	11652-005 CURB	NOT REQ'D
TEST SSUR	STREETSIDE UPPER REAR CABINET	LOWER LEFT	C	11652-011	11652-005 CURB	NOT REQ'D
TEST SSUR	STREETSIDE UPPER REAR CABINET	LOWER RIGHT	C	11652-011	11652-005 CURB	NOT REQ'D
BU_TEST	BULKHEAD UPPER CABINET	Note: one location only	A	NOT REQ'D	11652-012 STREET	11652-006

NOTE: All location descriptions are as viewed from the front face of the cabinet as shown on the REV drawing.

REV AMBULANCE GROUP ORLANDO - SAE J3038 CERTIFICATION TEST MATRIX – TABLE 2

DWG NO.	DESCRIPTION	LOCATION	J3058 ORIENTATION	J2917 TEST	J2956 TEST	J3044 TEST
2 SSUR TEST	SSUR TEST CAB	UPPER LEFT	C	11652-010	11652-004 CURB	NOT REQ'D
2 SSUR TEST	SSUR TEST CAB	UPPER MIDDLE	C	11652-010	11652-005 CURB	NOT REQ'D
2 SSUR TEST	SSUR TEST CAB	UPPER RIGHT	C	11652-010	11652-004 CURB	NOT REQ'D
2 SSUR TEST	SSUR TEST CAB	LOWER LEFT	C	11652-010	11652-004 CURB	NOT REQ'D
2 SSUR TEST	SSUR TEST CAB	LOWER MIDDLE	C	11652-010	11652-005 CURB	NOT REQ'D
GLOVE_TEST	3 GLOVE BOX ABOVE CS DOOR	Note: one location only	E	11652-012	11652-006 STREET	11652-012
REAR TEST	REAR (2) GLOVE BOX CABINET	LEFT	D	11652-011	11652-012 STREET /CURB	NOT REQ'D
REAR TEST	REAR (2) GLOVE BOX CABINET	RIGHT	D	11652-011	11652-012 STREET /CURB	NOT REQ'D

NOTE: All location descriptions are as viewed from the front face of the cabinet as shown on the REV drawing.

Certification 12413

This document includes compliance statements, test results, and photographs

Wheeled Coach Industries, Inc.
2737 North Forsyth Road
Winter Park, FL 32792

Test Unit
Type I or III Patient Compartment Module

Specification
Federal Specification KKK-A-1822F and
Ambulance Manufacturers Division (AMD) Standards (Published August 2007)

This document reflects *passage* of the following specifications:

AMD Section	AMD Section Name
001	Ambulance Body Structure Static Load Test
002	Body Door Retention Components Test
003	Oxygen Tank Retention System Static Test
004	Litter Retention System Static Test
008	Patient Compartment Grab Rail Static Load Test

Andrew Cooksey
Professional Engineer

Date: Dec 19, 2012

Brady K. Richard
Vice-President
Environmental Testing Laboratory, Inc.

STATE OF TEXAS
ANDREW G. COOKSEY
62100
REGISTERED
PROFESSIONAL ENGINEER

11034 Indian Trail , Dallas, TX 75229-3513
TEL: (972) 247-9657 FAX: (972) 247-9659
www.etldallas.com

ECX
ELECTRONICS CORPORATION
1631 Rock Springs Rd.
Ste. 127
Apopka, FL 32712
Phone: 1-888-853-0220 Fax: 321-445-5553

SPECIFICATIONS FOR RELAY BOARD PART No. EL35258

Boards built in conformance with the following specifications:

IPC 600 (Packaging and Interconnecting)
UL-796 (Printed Circuit Boards)
IPC SM-480 (Solder mask)
MIL SPEC QS-571 (Solder)
IPC 4101 (Laminate)

All circuits and components on the board to be numbered and labeled.

Circuit board to be constructed using FR-4 laminate material with double-sided copper laminate.

Board thickness to be 0.094 inches

Double sided copper laminate to be 2 ounces

Solder mask to be of the non-photo imageable type applied over bare copper.

Plating to be of the Hot Air Solder Leveling type.

Circuit trace width initially based on the fuse capacity of the corresponding circuit and then enlarged as much as the available space permits to facilitate heat dissipation.

All holes on the board to be platted-through

Connections from the board to the external circuits shall be made using screw terminal strips mounted on the board.

Each circuit connected to the terminal strips shall be identified by function and wire color and number.

Circuit board options to be programmable by means of pin headers and removable jumpers.

Each circuit on the board shall have color coded indicating LEDs for diagnostic (Input=Red; Output=Green; Switch=Yellow)

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Association Connecting Electronics Industries

IPC

Rick Ballester

is hereby designated

Certified IPC Trainer

Serial No. 610-T 19678

and is authorized by IPC to conduct

IPC-A-610

Application Specialist Training

May 22, 2010	May, 2012
Date of Certification	Certification Expiration
Circuit Technology, Inc.	
Authorized Training Center	Master Instructor Signature

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IPC Director of Certification	IPC President

LITHO IN U.S.A.

NTEA
THE ASSOCIATION FOR THE WORK TRUCK INDUSTRY

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September 14, 2016

To Whom it May Concern:

As a provider of resources for the commercial truck and transportation equipment industry, the National Truck Equipment Association (NTEA) delivers the tools its members need to find solutions to technical questions; opportunities to market products; ideas for creating quality-driven, safe, productive workplaces; ways to network with distributors and manufacturers; and more.

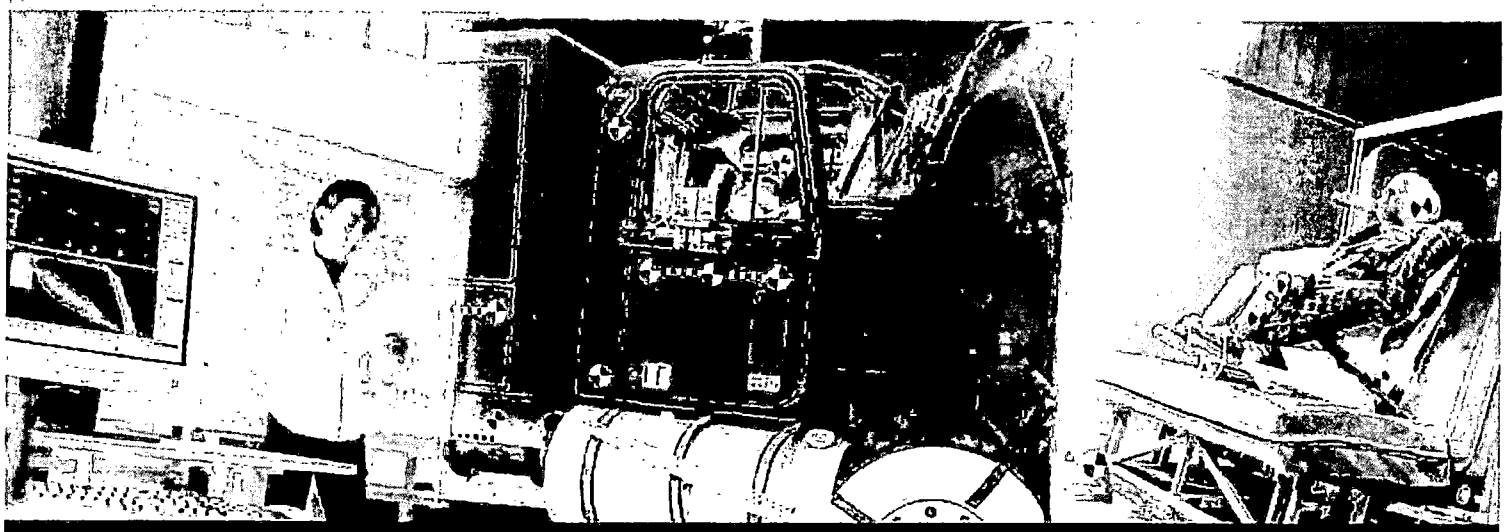
On behalf of the NTEA, please accept this letter as confirmation that **Wheeled Coach** has been a member of the NTEA in good standing since **August 19, 1986.**

If you have any questions, or if I can be of further assistance, please contact me direct at (248) 479-8154 or email emily@ntea.com.

Sincerely,

Emily Hooks
NTEA Member Services Coordinator

Wheeled Coach
#33102



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Center for
Advanced
Product Evaluation

A Division of IMMI

CTR04092 TEST REPORT

Location of Test Laboratory:

Center for Advanced Product Evaluation
18881 US 31 North
Westfield, IN 46074-1020
317-896-9531 phone
317-867-2305 fax
www.capetesting.com

Test Method Used:

50 kph (31.1 mph) Side Impact Crash Test

Test Subject:

Wheeled Coach Ambulance (2010 modular body mounted on a 1997 TIII Ford E350 chassis), Vehicle Identification Number: 1FDKE30F6SHB64353

Bullet Vehicle:

1997 Ford F-150 Pickup Truck, Vehicle Identification Number: 1FTDF17W5VNA47356

Date of receipt of test items:

March 8, 2010

Date of Test:

March 18, 2010

Wheeled Coach Industries
2737 Forsythe Road
Winter Park, FL 32792

Report Prepared By:

Ryan Hoover
Test Engineer

Report Reviewed By:

Jim Chinni
Director of CAPE

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Table of Contents

Section	Page No.
List of Tables	2
List of Equations	3
List of Figures	3
Appendices	3
Purpose	4
Procedure	4
Analysis	9
Results	11
References	14
Multimedia Overview	14
Contact	14

List of Tables

Table Number	Page No.
Table 1, Target Vehicle Weights	4
Table 2, Bullet Vehicle Weights	5
Table 3, Vehicle Dimensions	5
Table 4, Camera Views	6
Table 5, ATD Designations	7
Table 6, Target Vehicle Accelerometer Locations	8
Table 7, Bullet Vehicle Accelerometer Locations	8
Table 8, Injury Assessment Reference Values	10
Table 9, Target Vehicle Data Results	11
Table 10, Bullet Vehicle Data Results	11
Table 11, ATD A7 Data Results	12
Table 12, ATD A12 Data Results	12
Table 13, ATD A17 Data Results	12
Table 14, ATD A23 Data Results	13

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List of Equations

Equation No.	Page No.
Equation 1, Resultant Acceleration	9
Equation 2, Velocity	9
Equation 3, Delta Velocity	9
Equation 4, Resultant Delta Velocity	9
Equation 5, Head Injury Criteria	9
Equation 6, Neck Injury Index	9
Equation 7, Viscous Criterion	10

List of Figures

Figure No.	Page No.
Figure 1, Target Vehicle Accelerometer Locations	7

Appendices

Pre-Test Photographs

Data Plots

Post-Test Photographs

During-Test Photographs

Accelerometer Location Photographs

End of Document

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Purpose

A side impact crash test was performed with a Wheeled Coach ambulance to evaluate the vehicle's structural integrity and occupant protection. The Insurance Institute for Highway Safety Side Impact Crashworthiness Evaluation protocol was used as a guideline.

Procedure

SAE J1733$_1$, Sign Convention for Vehicle Crash Testing, was followed during the test.

The side impact test was setup with the bullet vehicle's centerline aligned with the fore-aft cg location of the target vehicle. The bullet vehicle was propelled to speed with a trolley and then released, allowing the bullet vehicle to roll and impact the curb side of the target vehicle. Speed of the bullet vehicle was measured just prior to impact using a dual-beam laser speed trap. A thin rod was placed on the bullet vehicle's bumper so that an identifying puncture in the target vehicle would provide post-test evidence to determine the actual impact point.

Prior to the test, all fluids were removed from the vehicles. The air conditioning fluid was recovered from each vehicle per EPA requirements. 30.4 gallons (80% capacity) of water was added to the fuel tank of the target vehicle. Vehicle test weights include all dummies, all onboard imagers and lighting, all data acquisition equipment, and any other accessory equipment that was installed prior to conducting the test. The as-tested vehicle weight measurements are shown in Table 1, Target Vehicle Weights, and Table 2, Bullet Vehicle Weights.

Table 1, Target Vehicle Weights

Component	Location	Weight	
		Kg	Lbs
Front Axle	Left	743.9	1640
	Right	734.8	1620
	Total-Front	1478.7	3260
Rear Axle	Left	1832.5	4040
	Right	1660.1	3660
	Total-Rear	3492.7	7700
Complete Vehicle	Total	4971.4	10,960

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Table 2, Bullet Vehicle Weights

Component	Location	Weight	
		Kg	Lbs
Front Axle	Left	598.7	1320
	Right	571.5	1260
	Total-Front	1170.2	2580
Rear Axle	Left	362.9	800
	Right	362.9	800
	Total-Rear	725.7	1600
Complete Vehicle	Total	1896.0	4180

Dimensional measurement data, taken with the vehicles in the as-tested condition, are shown in Table 3, Vehicle Dimensions.

Table 3, Vehicle Dimensions

Parameter	Dimensional Measurements	
	mm	in
Target Vehicle Wheelbase	3505	138
Target Vehicle Front Track Width	1702	67
Target Vehicle Rear Track Width	1930	76
Target Vehicle Fore/Aft CG, Forward of Rear Axle	1041	41
Target Vehicle Modular Body Length	3886	153
Target Vehicle Modular Body Width	2388	94
Target Vehicle Modular Body Height	2286	90
Bullet Vehicle Wheelbase	3518	138.5
Bullet Vehicle Track Width	1626	64
Bullet Vehicle Fore/Aft CG, Forward of Rear Axle	2172	85.5

Photographs were taken prior to conducting the test, during the test, and following the test. The pre-test, during-test, and post-test photographs may be found in the appendix of the report.

To document this side impact crash test, four real-time cameras and nine high-speed imagers recording 1,000 frames per second were utilized. The views are listed in Table 4, Camera Views. All video files and the accompanying video viewer software may be found on the media included with the report.

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Table 4, Camera Views

Camera Description	View Description
High Speed Imager - Miro 3	Attendant - Onboard
High Speed Imager - V4.2	CPR - Onboard
High Speed Imager - Miro 3	Squad Bench - Onboard
High Speed Imager - Miro 3	COT - Onboard
High Speed Imager - G3	Impact Location - Tight Motion
High Speed Imager - G3	Impact Location - Wide Motion
High Speed Imager - E2	Impact Location - Front Oblique
High Speed Imager - E2	Impact Location - Rear Oblique
High Speed Imager - E2	Impact Location - Overhead
Real Time - HD	Left Side - Rear Oblique
Real Time - HD	Right Side - Front Low Oblique
Real Time - HD	Rear - Overhead
Real Time - Cigar	Bullet Vehicle – In-Car Cam
Still Shot Camera – D200	During-Test Photographs

SAE J211-1[2], Instrumentation for Impact Testing, was followed during the test. Vehicle and ATD instrumentation data was collected with three high-speed data acquisition systems (DAS) recording 20,000 samples per second. Electrical offsets were removed from all channels per SAE J1727[3]. Post-test data processing was performed per SAE J1727[3] and the analysis section of the test report. The plots and summary tables that were created from post-processing the test data may be found in the appendix of the report.

Five ATD's (Anthropomorphic Test Device a.k.a test dummy) were used in the test, including three HIII50M (Hybrid III 50th percentile male) ATD's, one ES-2re (EuroSID-2re 50th percentile male) ATD, and one HII50M (Hybrid II 50th percentile male) ATD. The Hybrid III ATD's were instrumented with head, chest, and pelvic accelerometers, upper neck load cell, chest potentiometer, and femur load cells. The EuroSID-2re ATD was instrumented with head accelerometers, upper neck, abdomen, and pubic load cells, and rib potentiometers. The Hybrid II 50th percentile male ATD was not instrumented. Table 5, ATD Designations, shows the model, ID number, and seating position for each ATD.

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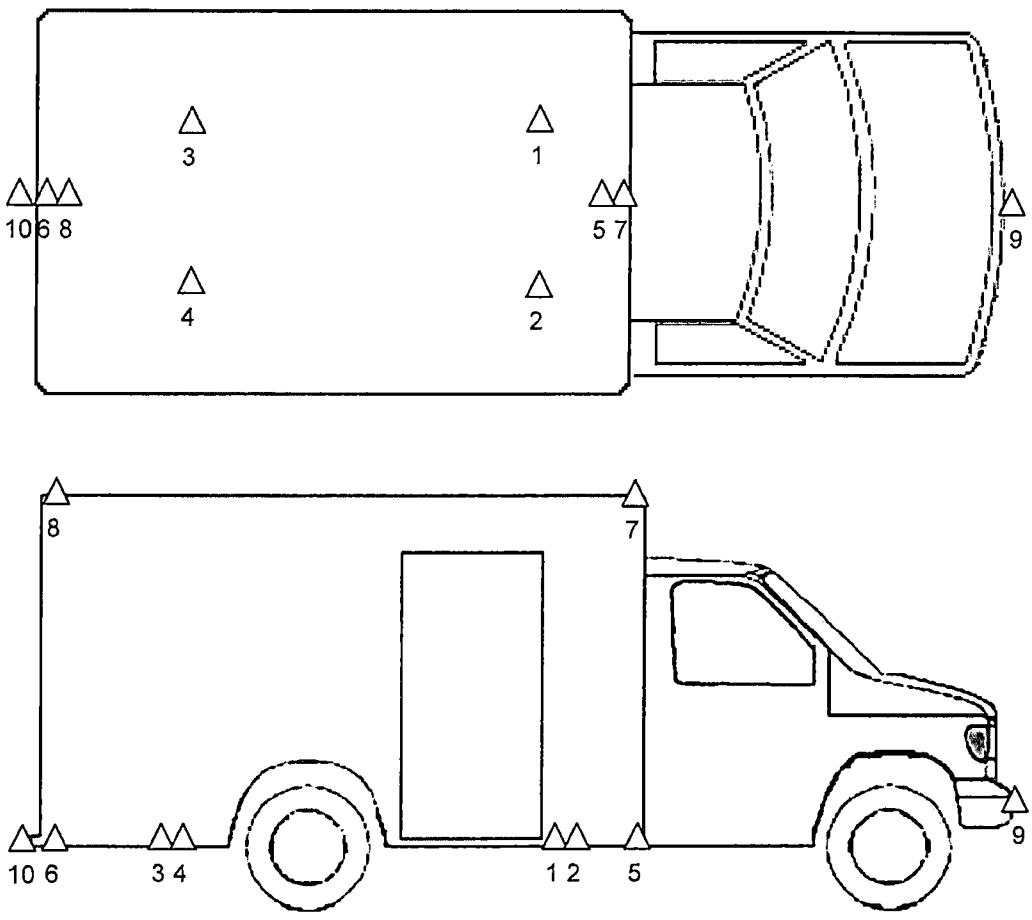
Table 5, ATD Designations

ATD Model	ATD ID Number	ATD Seating Position
HIII50M	A7	Ambulance Bench
HIII50M	A12	Ambulance Cot, * chest pot not included
HIII50M	A17	Ambulance Cpr, * also included lumbar load cell
ES-2re	A23	Ambulance Attendant
HII50M	A9	Bullet Vehicle Driver

Vehicle response was measured by the placement of several accelerometers onboard the vehicles. Figure 1, Target Vehicle Accelerometer Locations, shows a diagram of the accelerometer locations on the target vehicle.

Figure 1, Target Vehicle Accelerometer Locations



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Dimensional data of the accelerometer locations was taken with the vehicles in the as-tested condition. Table 5, Target Vehicle Accelerometer Locations and Table 6, Bullet Vehicle Accelerometer Locations shows the dimensional data. The origin for each vehicle was the center of the rear axle, projected onto the ground.

Table 6, Target Vehicle Accelerometer Locations

Accel. No.	Location	Measurements					
		X		Y		Z	
		mm	in	mm	in	mm	in
1	Left mid-chassis frame rail	1448	57.0	-533	-21.0	-495	-19.5
2	Right mid-chassis frame rail	1448	57.0	533	21.0	-495	-19.5
3	Left rear chassis frame rail	-1334	-52.5	-533	-21.0	-495	-19.5
4	Right rear chassis frame rail	-1334	-52.5	533	21.0	-495	-19.5
5	Lower front box	1359	53.5	634	2.5	-737	-29.0
6	Lower rear box	-1689	-66.5	57	2.3	-737	-29.0
7	Upper front box	1461	57.5	140	5.5	-2553	-100.5
8	Upper rear box	-1740	-68.5	127	5.0	-2553	-100.5
9	Front Bumper	4242	167.0	0	0.0	-622	-24.5
10	Rear Bumper	-1816	-71.5	0	0.0	-349	-13.8

Note: The origin used was the center of the rear axle, projected onto the ground.

Table 7, Bullet Vehicle Accelerometer Locations

Accel. No.	Location	Measurements					
		X		Y		Z	
		mm	in	mm	in	mm	in
1	Left frame	1727	68.0	-553	-21.75	-311	-12.25
2	Right frame	1727	68.0	553	21.75	-311	-12.25
3	Rear bumper	-1092	-43.0	0	0.0	-673	-26.5

Note: The origin used was the center of the rear axle, projected onto the ground.

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Analysis

All instrumentation data was filtered as specified by SAE J211-1[2], with the exception of the EuroSID-2re rib deflections. The EuroSID-2re rib deflections were filtered at CFC180 per the IIHS side impact protocol. Vehicle and ATD calculations were performed per SAE J1727[3] and the supplemental equations shown below.

The bullet vehicle, target vehicle, and the instrumented ATD's were equipped with tri-axial accelerometers. The resultant acceleration (a_r) of each tri-axial accelerometer set was calculated as shown in equation 1.

$$a_r = [a_x^2 + a_y^2 + a_z^2]^{1/2} \quad [1]$$

The velocity of each vehicle accelerometer was calculated as shown in equation 2.

$$v_x = \int_0^t a_x dt + v_x(0) \quad [2]$$

Delta velocity of each vehicle accelerometer was calculated as shown in equations 3 and 4. Equations 2 and 3 show the x direction, but the equations also apply to the y and z directions.

$$\Delta v_x = v_x - v_x(0) \quad [3]$$

The resultant delta velocity was calculated as shown in equation 4.

$$\Delta v_r = [\Delta v_x^2 + \Delta v_y^2 + \Delta v_z^2]^{1/2} \quad [4]$$

The head injury criteria (HIC) is based upon the probability of linear skull fracture when the head is subject to direct contact or impact with an object such as the B-pillar, A-pillar, or an interior surface. The HIC is calculated per SAE J1727[3], FMVSS208[4], and FMVSS 214[5] as shown in equation 5, and is the maximum value obtained from a15 ms time interval of the resultant head acceleration curve.

$$HIC_{(15)} = \left[1/(t_2 - t_1) \int_{t_1}^{t_2} a_r dt\right]^{2.5} (t_2 - t_1) \quad [5]$$

The neck injury index (Nij) is a value that indicates the probability of neck injury based on neck axial loading and neck flexion/extension moment. The Nij is calculated per SAE J1727[3], and FMVSS208[4] as shown in equation 6.

$$Nij = (F_z / F_{zc}) + (M_{ocy} / M_{yc}) \quad [6]$$

F_z is the axial load and M_{ocy} is the fore-aft bending moment about the occipital condyle. These parameters were normalized by the critical values F_{zc} and M_{yc}, referenced from SAE J1727[3].

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The F_z values can be tension or compression, and the M_{ocy} values can be flexion or extension. Therefore, the resulting calculation yields four calculated channels: tension-extension (Nte), tension-flexion (Ntf), compression-extension (Nce), and compression-flexion (Ncf).

The viscous criterion (V*C) is an indicator of soft tissue injury in the upper torso. The V*C is calculated per SAE J1727[3] as shown in equation 7. D_x is the displacement and dD_x/dt is the displacement rate. SF is a scale factor and D0 is a normalization factor, both referenced from SAE J1727[3].

$$V^*C = SF * dD_x/dt * D_x/D0 \quad [7]$$

For the purpose of benchmarking the Hybrid III 50th percentile and EuroSID-2re ATD responses, Injury Assessment Reference Values (IARV'S) from FMVSS 208[4], FMVSS 214[5], and IIHS are provided. These IARV values are shown in Table 8, Injury Assessment Reference Values.

Table 8, Injury Assessment Reference Values

ATD	Criteria	IARV
HIII50M, ES-2re	HIC_{15}	700
HIII50M, ES-2re	Peak Neck Tension [N (lbf)]	4170 (937)
HIII50M, ES-2re	Peak Neck Compression [N (lbf)]	4000 (899)
HIII50M, ES-2re	Neck Injury Index (Nij)	1.0
HIII50M	Resultant Chest Acceleration, 3 ms Clip [g]	60
HIII50M	Chest Deflection [mm (in)]	63 (2.5)
ES-2re	Rib Deflection [mm (in)]	44 (1.65)
ES-2re	Viscous Criteria	1.0
ES-2re	Pubic Symphysis Force [N (lbf)]	6000 (1350)

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Results

The measured impact speed was 50.0 kph [31.1 mph]. The rod from the bullet vehicle's bumper punctured a hole and transferred to the target vehicle. Post-test photographs show that the actual impact point was within one inch of the intended impact point.

Table 9, Target Vehicle Data Results and Table 10, Bullet Vehicle Data Results, show the maximum resultant acceleration and maximum delta velocity values from the test.

Table 9, Target Vehicle Data Results

Accelerometer	Maximum Resultant Acceleration	Maximum Delta Velocity	
	g	kph	mph
Left mid-chassis frame rail	22.4	16.5	10.2
Right mid-chassis frame rail	26.2	17.4	10.8
Left rear chassis frame rail	15.6	17.6	10.9
Right rear chassis frame rail	15.7	18.3	11.4
Lower front box	30.8	16.5	10.2
Lower rear box	11.0	16.3	10.1
Upper front box	17.4	18.4	11.4
Upper rear box	11.2	16.8	10.4
Front Bumper	13.9	17.6	10.9
Rear Bumper	14.8	18.8	11.7

Table 10, Bullet Vehicle Data Results

Accelerometer	Maximum Resultant Acceleration	Maximum Delta Velocity	
	g	kph	mph
Left frame	35.0	50.0	31.1
Right frame	42.4	51.2	31.8
Rear bumper	46.9	52.4	32.6

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Table 11, ATD A7 Data Results, compares the test data for ATD A7 to the HIII50M IARV's.

Table 11, ATD A7 Data Results

Criteria	Max. Test Value	IARV	% IARV
HIC_{15}	1.76	700	0.3
Peak Neck Tension [N (lbf)]	191.3 (43.0)	4170 (937)	4.6
Peak Neck Compression [N (lbf)]	-288.3 (-64.8)	-4000 (-899)	7.2
Neck Injury Index (Nij)	0.16	1.0	16.0
Resultant Chest Acceleration, 3 ms Clip [g]	7.91	60	13.2
Chest Deflection [mm (in)]	-0.6 (-0.02)	-63 (-2.5)	1.0

Table 12, ATD A12 Data Results, compares the test data for ATD A12 to the HIII50M IARV's.

Table 12, ATD A12 Data Results

Criteria	Max. Test Value	IARV	% IARV
HIC_{15}	1.70	700	0.2
Peak Neck Tension [N (lbf)]	119.8 (26.9)	4170 (937)	2.9
Peak Neck Compression [N (lbf)]	-35.1 (-7.9)	-4000 (-899)	0.9
Neck Injury Index (Nij)	0.06	1.0	6.0
Resultant Chest Acceleration, 3 ms Clip [g]	4.28	60	7.1

Table 13, ATD A17 Data Results, compares the test data for ATD A17 to the HIII50M IARV's.

Table 13, ATD A17 Data Results

Criteria	Max. Test Value	IARV	% IARV
HIC_{15}	2.83	700	0.4
Peak Neck Tension [N (lbf)]	254.0 (57.1)	4170 (937)	6.1
Peak Neck Compression [N (lbf)]	-265.7 (-59.7)	-4000 (-899)	6.6
Neck Injury Index (Nij)	0.07	1.0	7.0
Resultant Chest Acceleration, 3 ms Clip [g]	7.28	60	12.1
Chest Deflection [mm (in)]	-2.8 (-0.11)	-63 (-2.5)	4.4

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Table 14, ATD A23 Data Results, compares the test data for ATD A23 to the ES-2re IARV's.

Table 14, ATD A23 Data Results

Criteria	Max. Test Value	IARV	% IARV
HIC_{15}	90.54	700	12.9
Peak Neck Tension [N (lbf)]	633.9 (142.5)	4170 (937)	15.2
Peak Neck Compression [N (lbf)]	-1874.0 (-421.3)	-4000 (-899)	46.9
Rib Deflection [mm (in)]	-0.9 (0.04)	-44 (-1.65)	2.0
Viscous Criteria	0.005	1.0	0.5
Pubic Symphysis Force [N (lbf)]	234.4 (52.7)	6000 (1350)	3.9

Refer to the appendix to view the vehicle data plots, ATD data plots, and ATD summary sheets.

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CITY OF INDEPENDENCE KANSAS

"Delivering Excellence"

22. THIS BID IS GOOD FOR 60 DAYS FROM **February 18, 2021**. THE BID OPENING DATE. CITY OF INDEPENDENCE RESERVES THE RIGHT TO ADD OR DELETE OPTIONS AFTER THE BID IS AWARDED, AND EXPECTS APPROPRIATE CREDIT OR DEBIT FOR SAID OPTIONS. CITY OF INDEPENDENCE RESERVES THE RIGHT TO ACCEPT OR REJECT ANY OR ALL BIDS OR TO WAVIE ANY IRREGULARITIES SHOULD ANY OCCUR AS MAY BEST BENEFIT THE CITY OF INDEPENDENCE.

1. Base bid for requested ambulance $ $207,080.00
2. Trade-In value of 2015 Ambulance ($ $15,000.00)
3. Total Price with trade: $ **$192,080.00**

Pictures and information available on trade-in by request or can be seen by appointment.
Exceptions to the bid:

1. _____
2. _____
3. _____
4. _____
5. _____

If further space is needed, please attach additional pages.

Delivery Date: 09/01/2021 **Required: TBA by manufacturer for a 2021 delivery**

I hereby certify that the bid submitted by this company is for an ambulance that will meet all of the requirements set forth in these specifications, including all equipment specified, except where exceptions are indicated on a separate piece of paper. Enclosed with our bid is an explanation of what we propose to furnish in lieu of the specified requirements where we have indicated any exceptions. This copy of the specifications and our list of exceptions, if any, shall be considered to be the accurate contract vehicle description upon our award.

Emergency Services Supply
Company Name

2637 Drew Perry Rd — Address
Jefferson City — City
MO — State

65101 — Zip
785-617-0280 — Phone
(Alt) Phone

David Vance — Sales Representative Signature
David Vance — Printed Name
02/05/21 — Date

STRATEGIC VISION: *Customer Service Excellence – Continuous Improvement – Teamwork*

EMERGENCY SERVICES SUPPLY
2637 Drew Perry Road
Jefferson City, MO 65109

February 6, 2021

Independence Fire/EMS,

Thank you for allowing Osage Ambulance/ESS the opportunity to submit a proposal for One (1) New Type I Modular Ambulance your service is looking to procure. Emergency Services Supply is excited to provide you the following bid for one (1) Osage Ambulance on a 2021 Ford F550 4x4 chassis. We are confident Independence Fire/EMS the citizens of Independence Kansas & the surrounding areas will find the Osage Ambulance experience exceptional. Osage's highly qualified manufacturing professionals take extreme pride in producing the safest, seamless patient module on the market. The quality you can expect in all aspects of an Osage Ambulance is of the highest value.

We are proposing a September 1, 2021 delivery time from the time of contract until delivery of the vehicle based on chassis availability.

We appreciate your time in reviewing our proposal and look forward to hearing back from you in the near future.

Regards,

David Vance

David Vance
dvance@osageind.com
785-617-0280

EMERGENCY SERVICES SUPPLY
2637 Drew Perry Road
Jefferson City, MO 65109

DATE:	02/08/2021
ESTIMATION TO:	Independence Fire/EMS
DELIVERY LOCATION:	Independence, KS
DELIVERY TIME:	September 01, 2021
PAYMENT:	Net on delivery

(1) 2021 Osage Type I, 176" Super Warrior Ambulance on an Osage Supplied 2021 Ford F550 4WD Chassis with a diesel engine & built as listed herein:

Ambulance Conversion Price Per Unit ----------$207,080.00
Above price includes: Stryker Mass Casualty Kit, Antlers and Cot Latch

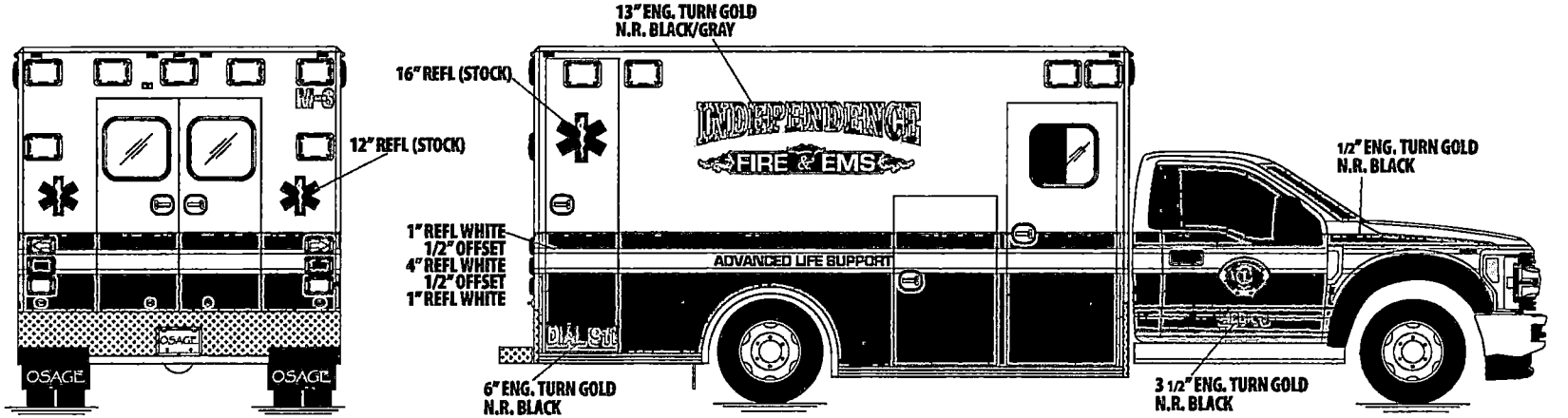
Trade-in Allowance for 2015 AEV Ambulance----------($15,000.00)

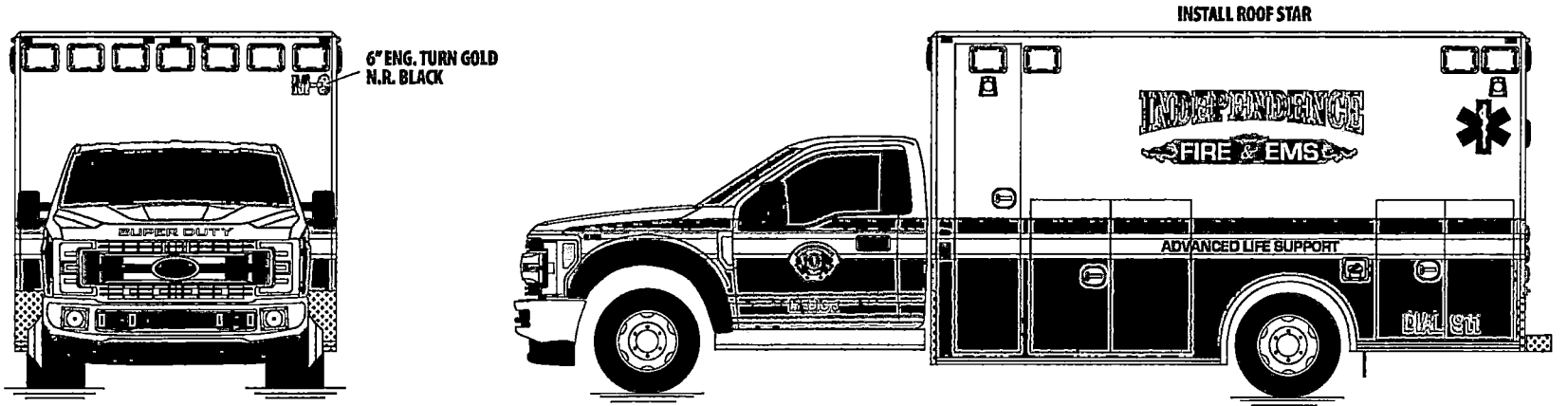
TOTAL UNIT COST----------$192,080.00

Includes two staff to Osage or unit to be delivered to Independence Kansas.

David Vance
Emergency Services Supply / Osage Ambulances
785-617-0280
dvance@osageind.com

DRAWINGS

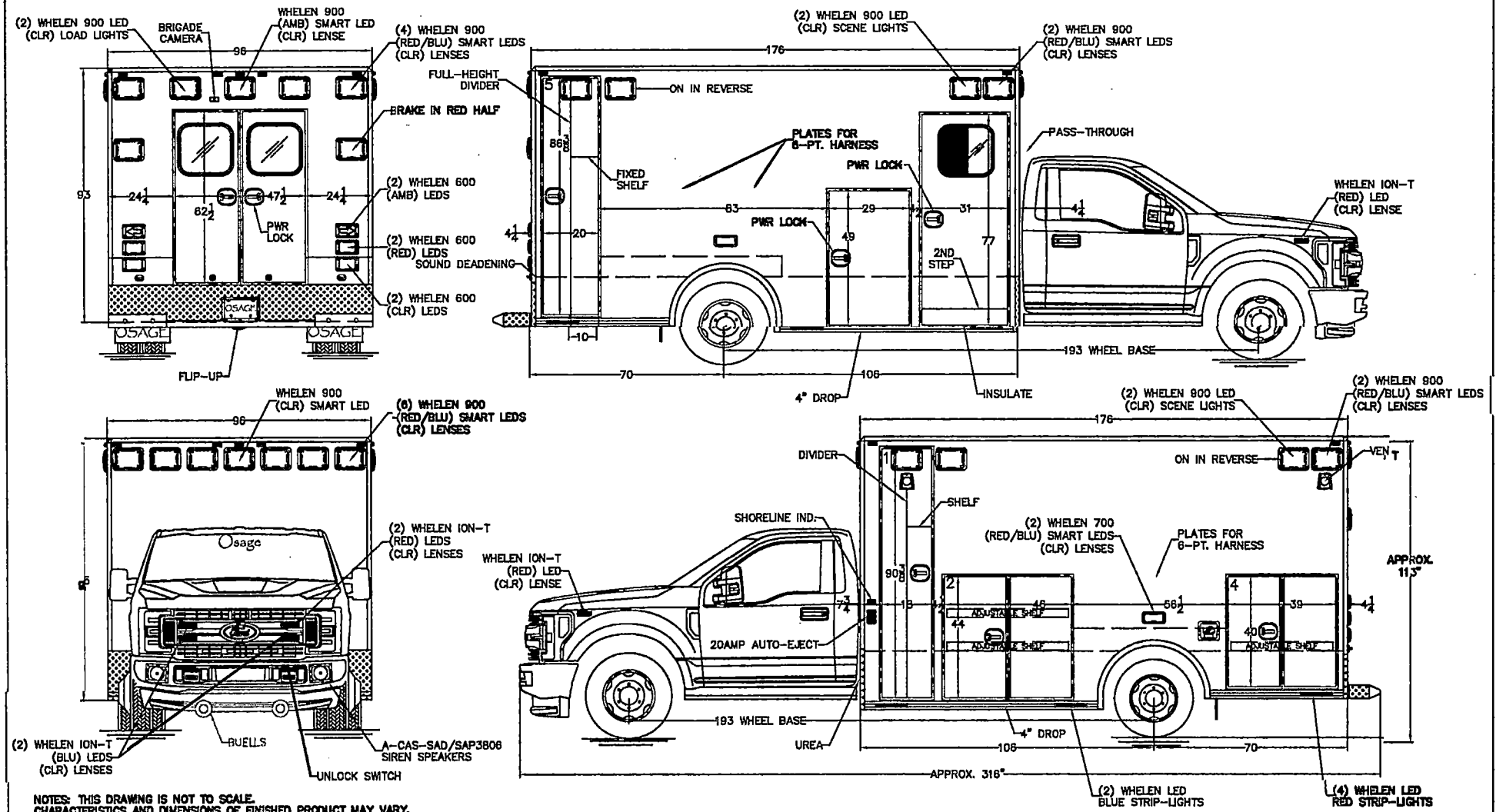




NOTES: THIS DRAWING IS NOT TO SCALE.
CHARACTERISTICS AND DIMENSIONS OF FINISHED PRODUCT MAY VARY.

Stock/Job#:	Drawing#	Cust. App'v/Date#	Deal'r App'v/Date:
Osage Dealer: E.S.S./DV	Osage Industries, Inc.		
End Customer: NEWTON COUNTY	TWIN RIDGE ROAD P.O. BOX 718 LINN, MO. 65051		
NOTICE	Drawn By: TT	Date: 09-03-20	Scale: NOT TO SCALE
This drawing and/or the information hereon is the exclusive property of Osage Industries and shall not be reproduced, used or disclosed without the authorized written consent of Osage Industries.	Drawing Description: EXTERIOR LAYOUT TYPE-I SUPER-WARRIOR		Revision# 1

Rev.#	Revision Description	Date	Rev'd	App'vd
3				
2				
1	PRODUCTION DRAFT			

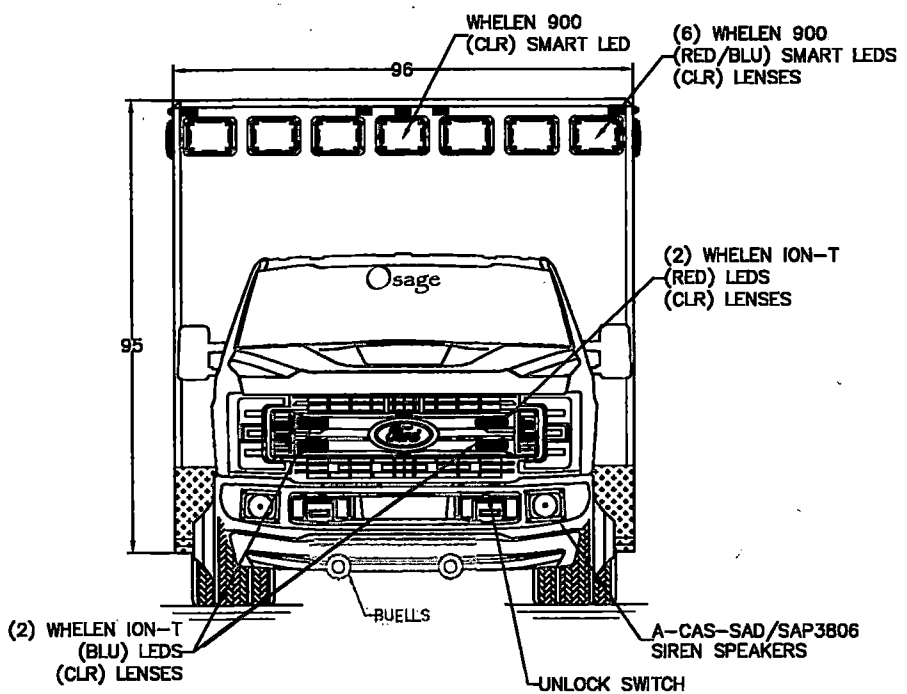


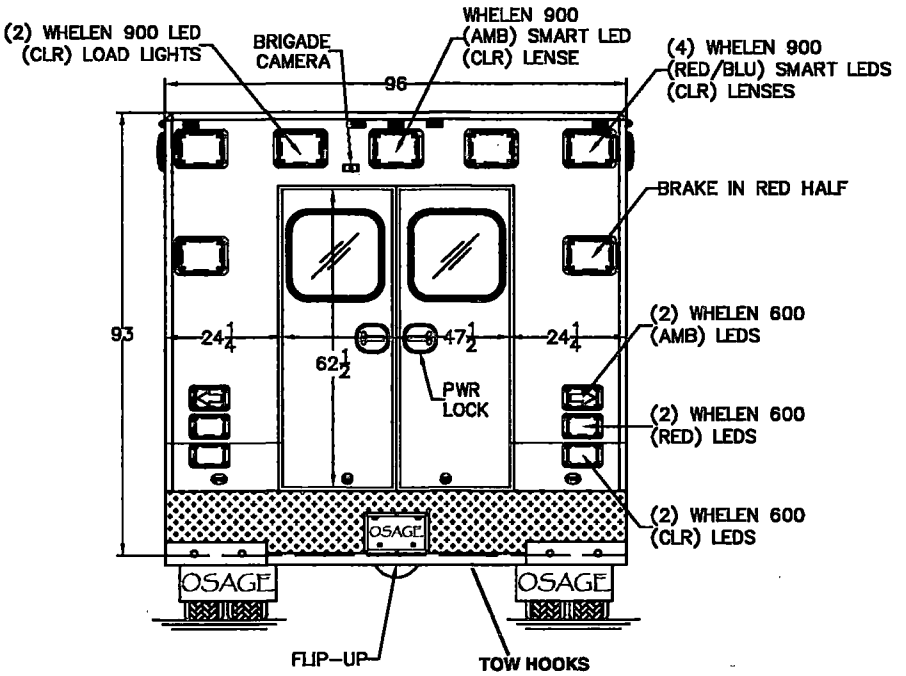
NOTES: THIS DRAWING IS NOT TO SCALE.
CHARACTERISTICS AND DIMENSIONS OF FINISHED PRODUCT MAY VARY.

NOTES:
1.) COMPARTMENT DIMENSIONS REFLECT OPENING CLEARANCE.
2.) APPROXIMATE COMPARTMENT DEPTH=20 1/2"DEEP.
3.) MODULE DIMENSIONS=176"L x 96"W x 95"H
4.) INTERIOR MODULE HEAD ROOM=74"H.
5.) ALL 9x7 LIGHTS TO BE WHELEN 900 SERIES LIGHTS, CHROME FLANGES.
6.) DOUBLE STAINLESS THRESHOLDS.
7.) STYROFOAM INSULATION, WALLS & CEILING.
8.) SMOOTH ALUMINUM KICKPLATES.
9.) 3M SOUND DEADENING.
10.) TECHNIQUE LED STRIP-LIGHTS IN ALL COMPARTMENTS.
11.) RED 500'S ON INTERIOR OF ENTRY DOORS.

Rev.#	Revision Description	Date	Rev'd	App'vd
3				
2				
1	BID DRAFT	09-03-20	SAH	

Stock/Job#:	Drawing# INDEPENDENCE-100	Cust. App'v/Date#	Deal'r App'v/Date:
Osage Dealer: E.S.S./DV	Osage Industries, Inc.		
End Customer: INDEPENDENCE FD	TWIN RIDGE ROAD P.O. BOX 718 LINN, MO. 65051		
NOTICE	Drawn By: S.A.H.	Date: 09-03-20	Scale: NOT TO SCALE
This drawing and/or the information hereon is the exclusive property of Osage Industries and shall not be reproduced, used or disclosed without the authorized written consent of Osage Industries.	Drawing Description: EXTERIOR LAYOUT TYPE-I SUPER-WARRIOR		Revision# 1





NOTES: THIS DRAWING IS NOT TO SCALE.
CHARACTERISTICS AND DIMENSIONS OF FINISHED PRODUCT MAY VARY.

NOTES:
1.) COMPARTMENT DIMENSIONS REFLECT OPENING CLEARANCE.
2.) APPROXIMATE COMPARTMENT DEPTH=20 1/2"DEEP.
3.) MODULE DIMENSIONS=176"L x 96"W x 95"H
4.) INTERIOR MODULE HEAD ROOM=74"H.
5.) ALL 9x7 LIGHTS TO BE WHELEN 900 SERIES LIGHTS, CHROME FLANGES.
6.) DOUBLE STAINLESS THRESHOLDS.
7.) STYROFOAM INSULATION, WALLS & CEILING.
8.) SMOOTH ALUMINUM KICKPLATES.
9.) 3M SOUND DEADENING.
10.) TECHNIQUE LED STRIP-LIGHTS IN ALL COMPARTMENTS.
11.) RED 500'S ON INTERIOR OF ENTRY DOORS.

Stock/Job#:	Drawing# INDEPENDENCE-100A	Cust. App'v/Date#	Deal'r App'v/Date:
Osage Dealer: E.S.S./DV	Osage Industries, Inc.		
End Customer: INDEPENDENCE FD	TWIN RIDGE ROAD P.O. BOX 718 LINN, MO. 65051		

Rev.#	Revision Description	Date	Rev'd	App'vd
3				
2				
1	BID DRAFT	09-03-20	SAH	.

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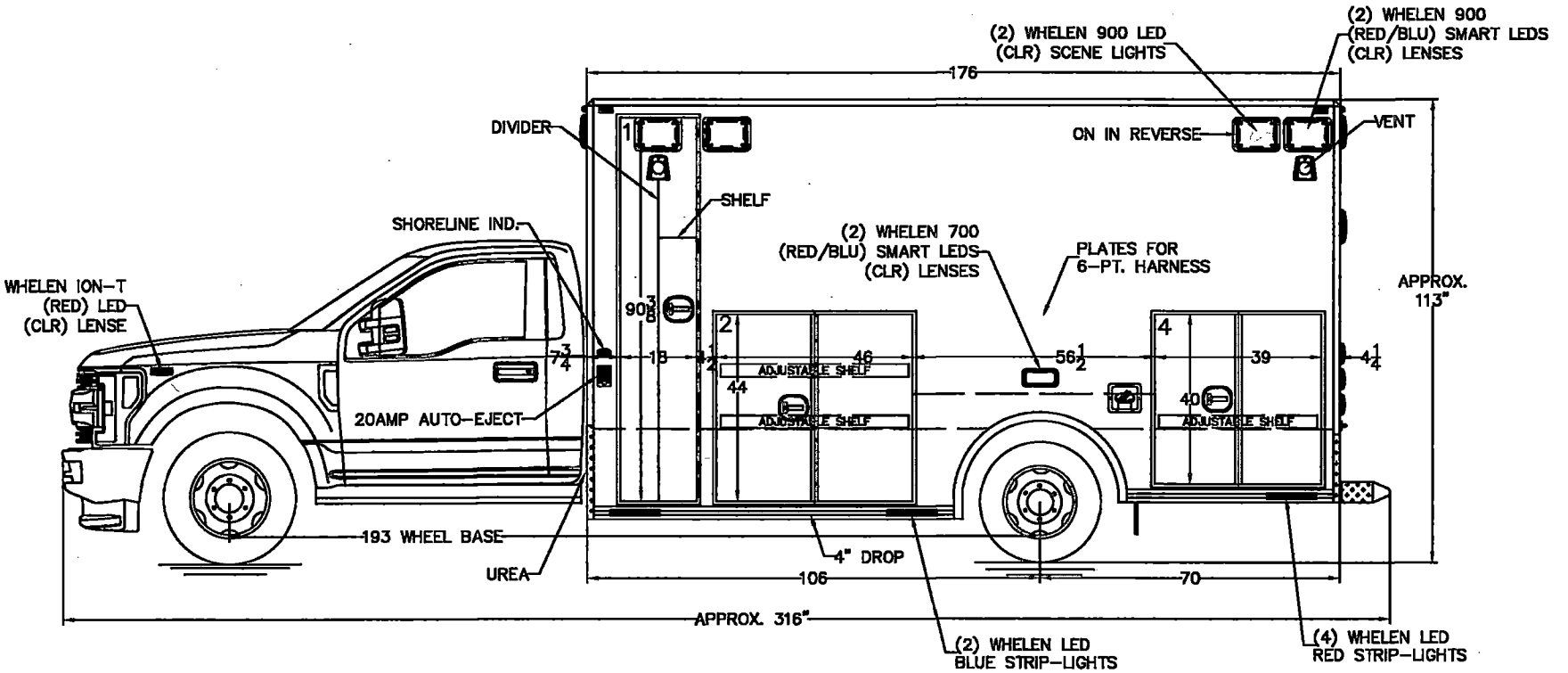
Drawn By: S.A.H.	Date: 09-03-20	Scale: NOT TO SCALE

Drawing Description: EXTERIOR LAYOUT, FRONT/REAR TYPE-I SUPER-WARRIOR

Revision# 1

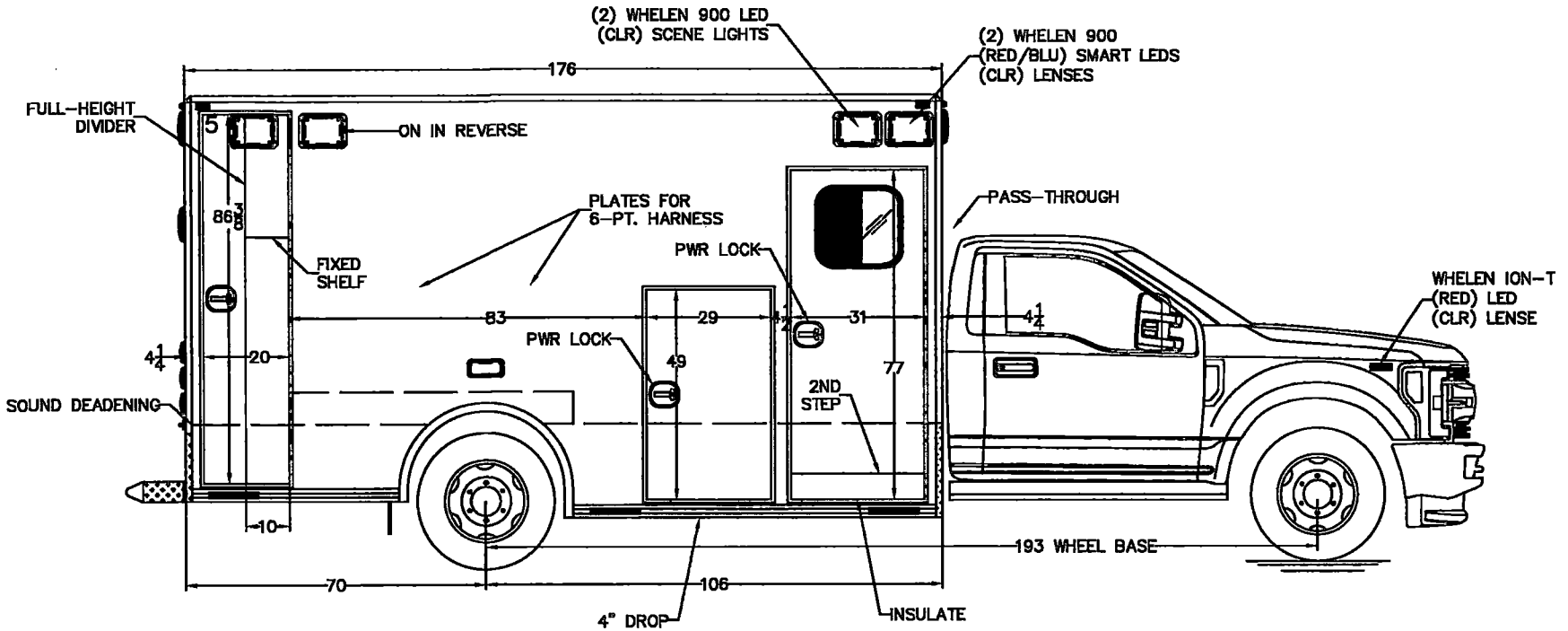


NOTES: THIS DRAWING IS NOT TO SCALE.
CHARACTERISTICS AND DIMENSIONS OF FINISHED PRODUCT MAY VARY.

NOTES:
1.) COMPARTMENT DIMENSIONS REFLECT OPENING CLEARANCE.
2.) APPROXIMATE COMPARTMENT DEPTH=20 1/2"DEEP.
3.) MODULE DIMENSIONS=176"L x 96"W x 95"H
4.) INTERIOR MODULE HEAD ROOM=74"H.
5.) ALL 9x7 LIGHTS TO BE WHELEN 900 SERIES LIGHTS, CHROME FLANGES.
6.) DOUBLE STAINLESS THRESHOLDS.
7.) STYROFOAM INSULATION, WALLS & CEILING.
8.) SMOOTH ALUMINUM KICKPLATES.
9.) 3M SOUND DEADENING.
10.) TECHNIQUE LED STRIP-LIGHTS IN ALL COMPARTMENTS.
11.) RED 500'S ON INTERIOR OF ENTRY DOORS.

Rev.#	Revision Description	Date	Rev'd	App'vd
3				
2				
1	BID DRAFT	09-03-20	SAH	.

Stock/Job#: .	Drawing# INDEPENDENCE-100B	Cust. App'v/Date# .	Deal'r App'v/Date: .
Osage Dealer: E.S.S./DV	Osage Industries, Inc.		
End Customer: INDEPENDENCE FD	TWIN RIDGE ROAD	P.O. BOX 718	LINN, MO. 65051
NOTICE	Drawn By: S.A.H.	Date: 09-03-20	Scale: NOT TO SCALE
This drawing and/or the information hereon is the exclusive property of Osage Industries and shall not be reproduced, used or disclosed without the authorized written consent of Osage Industries.	Drawing Description: EXTERIOR LAYOUT, STREETSIDE TYPE-I SUPER-WARRIOR		Revision# 1

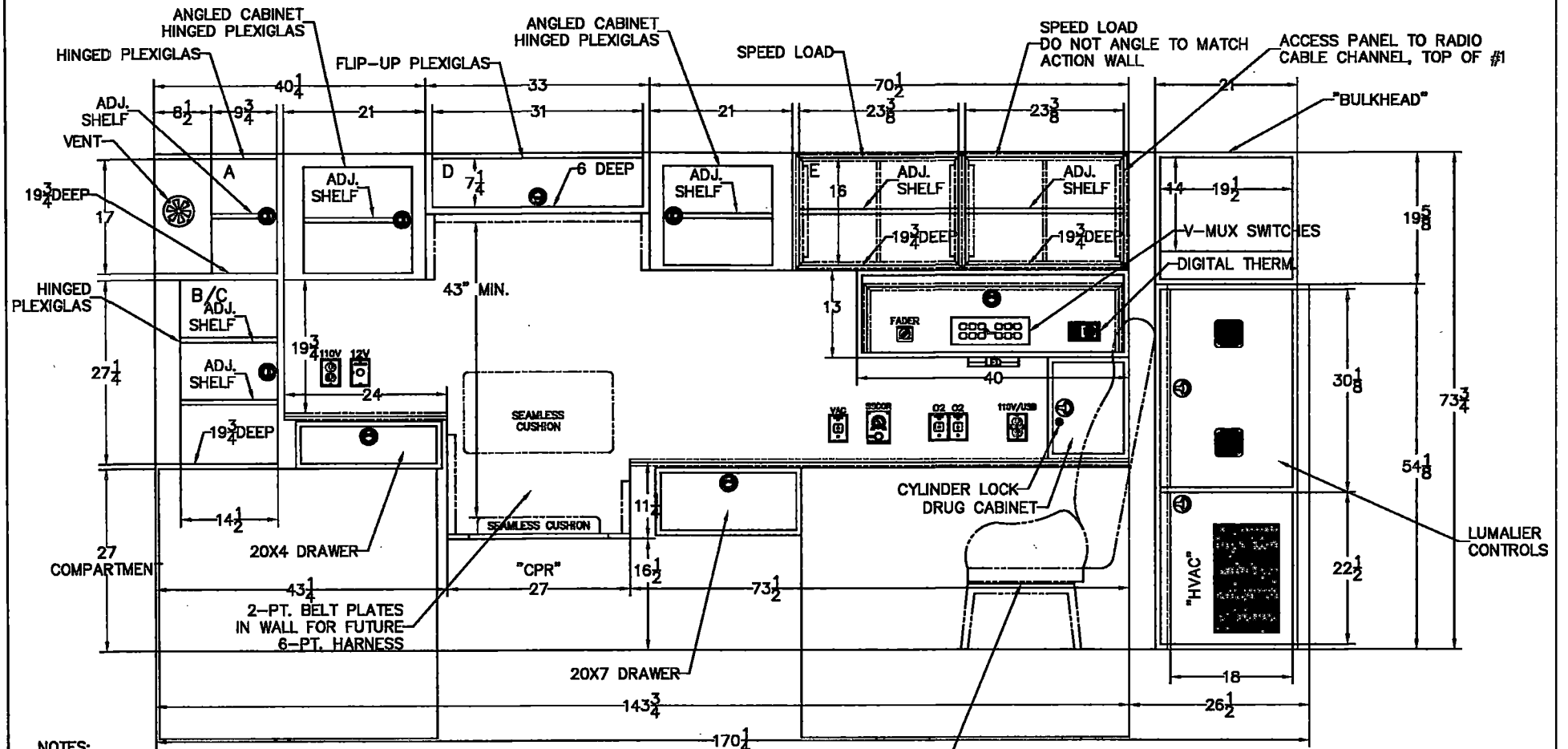


NOTES: THIS DRAWING IS NOT TO SCALE.
CHARACTERISTICS AND DIMENSIONS OF FINISHED PRODUCT MAY VARY.

NOTES:
1.) COMPARTMENT DIMENSIONS REFLECT OPENING CLEARANCE.
2.) APPROXIMATE COMPARTMENT DEPTH=20 1/2"DEEP.
3.) MODULE DIMENSIONS=176"L x 96"W x 95"H
4.) INTERIOR MODULE HEAD ROOM=74"H.
5.) ALL 9x7 LIGHTS TO BE WHELEN 900 SERIES LIGHTS, CHROME FLANGES.
6.) DOUBLE STAINLESS THRESHOLDS.
7.) STYROFOAM INSULATION, WALLS & CEILING.
8.) SMOOTH ALUMINUM KICKPLATES.
9.) 3M SOUND DEADENING.
10.) TECHNIQUE LED STRIP-LIGHTS IN ALL COMPARTMENTS.
11.) RED 500'S ON INTERIOR OF ENTRY DOORS.

Stock/Job#:	Drawing# INDEPENDENCE-100C	Cust. App'v/Date#	Deal'r App'v/Date:
Osage Dealer: E.S.S./DV	Osage Industries, Inc.		
End Customer: INDEPENDENCE FD	TWIN RIDGE ROAD P.O. BOX 718 LINN, MO. 65051		
NOTICE	Drawn By: S.A.H.	Date: 09-03-20	Scale: NOT TO SCALE
This drawing and/or the information hereon is the exclusive property of Osage Industries and shall not be reproduced, used or disclosed without the authorized written consent of Osage Industries.	Drawing Description: EXTERIOR LAYOUT, CURBSIDE TYPE-I SUPER-WARRIOR		Revision# 1

Rev.#	Revision Description	Date	Rev'd	App'vd
3				
2				
1	BID DRAFT	09-03-20	SAH	.



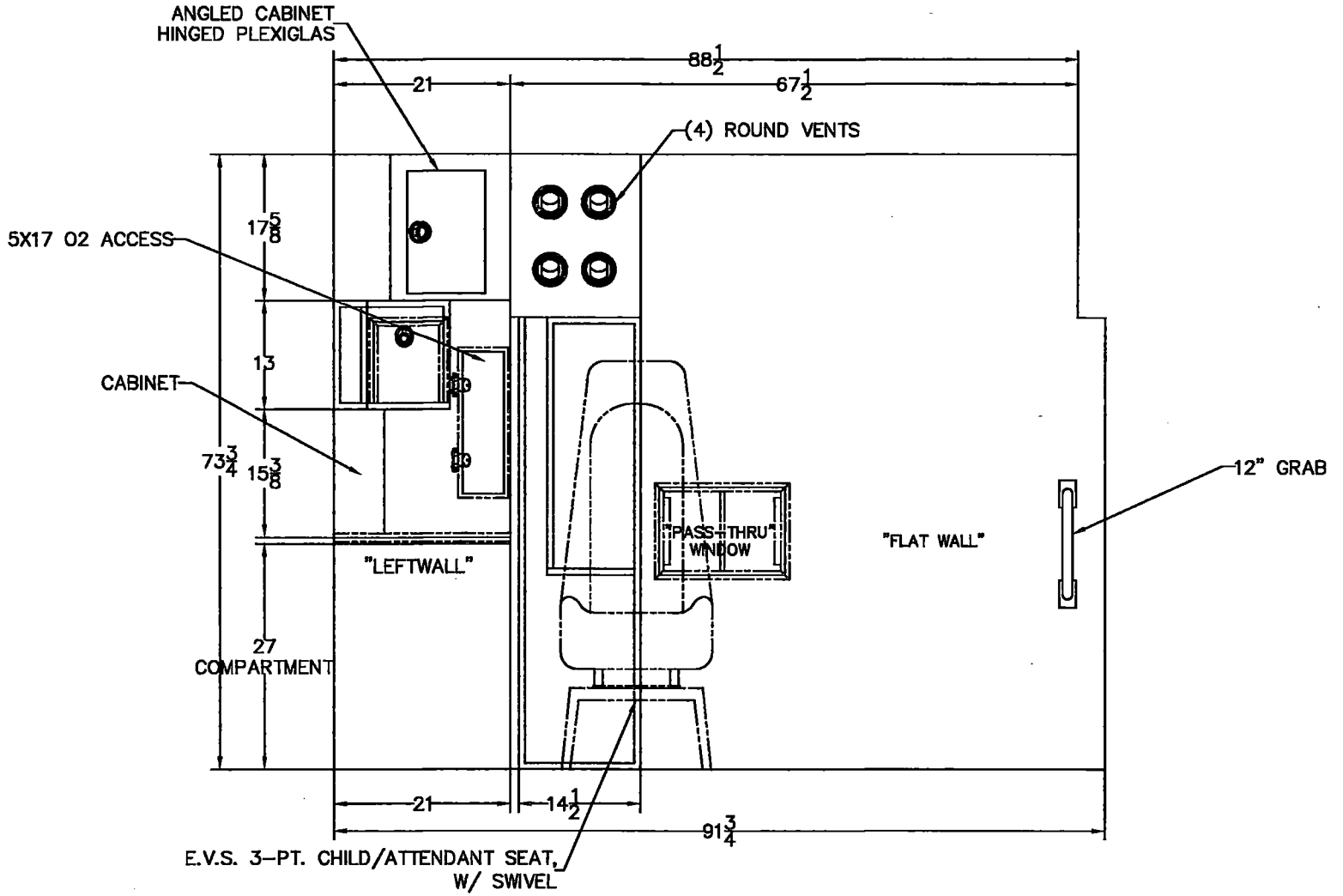
NOTES:
1.) ALUMINUM CABINETS, GRAYSTONE.
2.) 176" BODY, 74" HEADROOM.
3.) S.S. SOUTHCOS.
4.) LED STRIP-LIGHTS IN ALL CABINETS.

NOTES: THIS DRAWING IS NOT TO SCALE.
CHARACTERISTICS AND DIMENSIONS OF FINISHED PRODUCT MAY VARY.

NOTES: CABINET DEPTHS REPRESENT DIMENSION FROM INSIDE REAR TO FRONT FACE OF CABINETS, WITHOUT TRIM. ACTUAL WORKING DEPTH WILL BE LESS THAN DIMENSION SHOWN UNLESS OTHERWISE SPECIFIED.

Rev.#	Revision Description	Date	Rev'd	App'vd
3				
2				
1	BID DRAFT	09-03-20	SAH	.

Stock/Job#: .	Drawing# INDEPENDENCE-101	Cust. App'v/Date#	Deal'r App'v/Date: .
Osage Dealer: E.S.S./DV	Osage Industries, Inc.		
End Customer: INDEPENDENCE FD	TWIN RIDGE ROAD	P.O. BOX 718	LINN, MO. 65051
NOTICE	Drawn By: S.A.H.	Date: 09-03-20	Scale: NOT TO SCALE
This drawing and/or the information hereon is the exclusive property of Osage Industries and shall not be reproduced, used or disclosed without the authorized written consent of Osage Industries.	Drawing Description: STREETSIDE INTERIOR TYPE-I SUPER-WARRIOR		Revision# 1



NOTES: THIS DRAWING IS NOT TO SCALE.
CHARACTERISTICS AND DIMENSIONS OF FINISHED PRODUCT MAY VARY.

NOTES: CABINET DEPTHS REPRESENT DIMENSION FROM INSIDE REAR TO FRONT FACE OF CABINETS, WITHOUT TRIM. ACTUAL WORKING DEPTH WILL BE LESS THAN DIMENSION SHOWN UNLESS OTHERWISE SPECIFIED.

Stock/Job#:	Drawing# INDEPENDENCE-102	Cust. App'v/Date#	Deal'r App'v/Date:
Osage Dealer: E.S.S./DV	Osage Industries, Inc.		
End Customer: INDEPENDENCE FD	TWIN RIDGE ROAD P.O. BOX 718 LINN, MO. 65051		

Rev.#	Revision Description	Date	Rev'd	App'vd
3				
2				
1	PRODUCTION DRAFT	09-03-20	SAH	.

NOTICE
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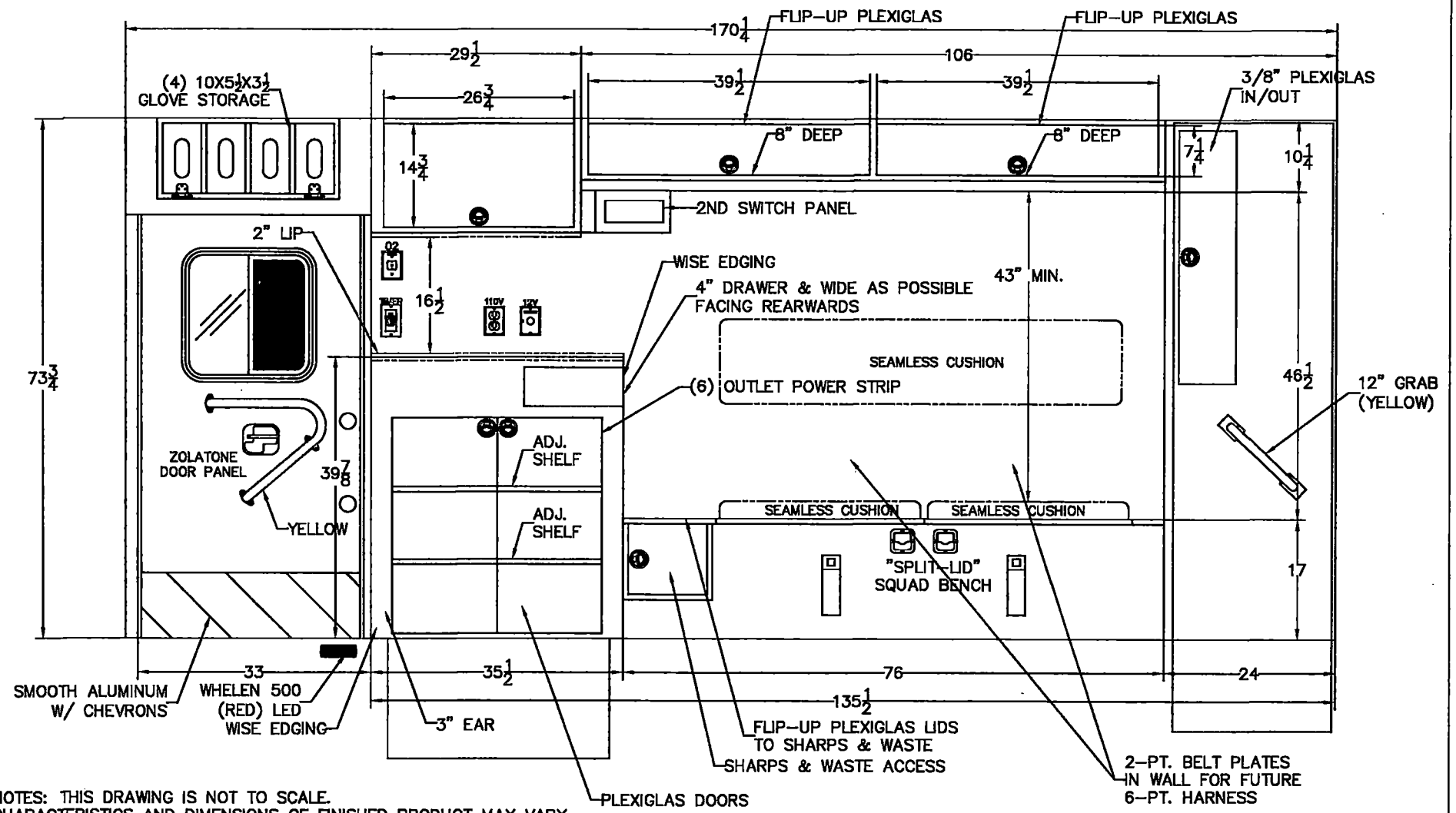
Drawn By: S.A.H.	Date: 09-03-20	Scale: NOT TO SCALE

Drawing Description:

FORWARD INTERIOR
TYPE-I SUPER-WARRIOR

Revision# 1



NOTES: THIS DRAWING IS NOT TO SCALE.
CHARACTERISTICS AND DIMENSIONS OF FINISHED PRODUCT MAY VARY.

NOTES: CABINET DEPTHS REPRESENT DIMENSION FROM INSIDE REAR TO FRONT FACE OF CABINETS, WITHOUT TRIM. ACTUAL WORKING DEPTH WILL BE LESS THAN DIMENSION SHOWN UNLESS OTHERWISE SPECIFIED.

Rev.#	Revision Description	Date	Rev'd	App'vd
3				
2				
1	BID DRAFT	09-03-20	SAH	.

Stock/Job#: .
Osage Dealer: E.S.S./DV
End Customer: INDEPENDENCE FD

Drawing# INDEPENDENCE-103 | Cust. App'v/Date# . | Deal'r App'v/Date: .

Osage Industries, Inc.
TWIN RIDGE ROAD P.O. BOX 718 LINN, MO. 65051

Drawn By: S.A.H. | Date: 09-03-20 | Scale: NOT TO SCALE

Drawing Description:
CURBSIDE INTERIOR
TYPE-I SUPER-WARRIOR

Revision# 1

NOTICE
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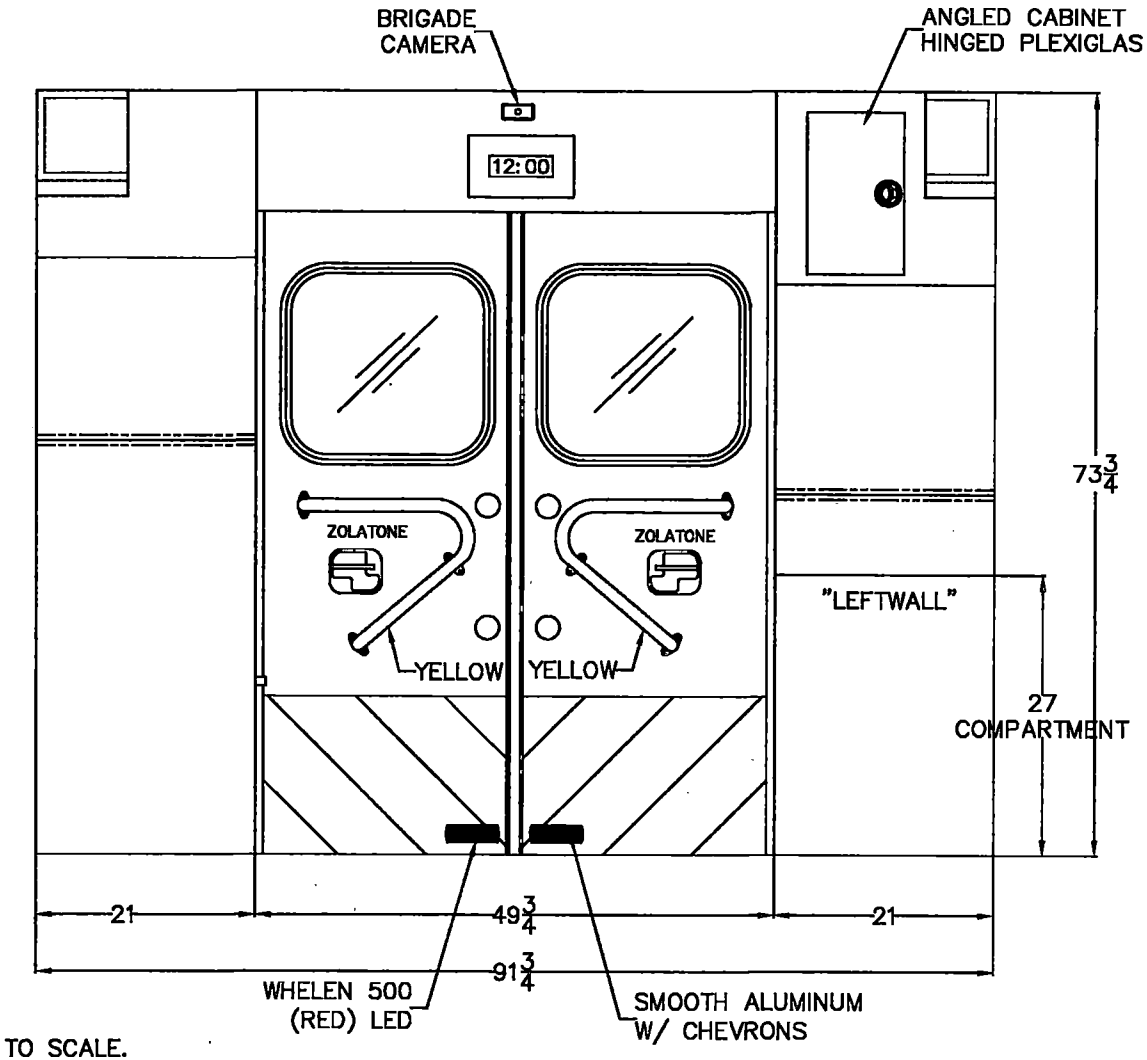

NOTES: THIS DRAWING IS NOT TO SCALE.
CHARACTERISTICS AND DIMENSIONS OF FINISHED PRODUCT MAY VARY.

NOTES: CABINET DEPTHS REPRESENT DIMENSION FROM INSIDE REAR TO FRONT FACE OF CABINETS, WITHOUT TRIM. ACTUAL WORKING DEPTH WILL BE LESS THAN DIMENSION SHOWN UNLESS OTHERWISE SPECIFIED.

Rev.#	Revision Description	Date	Rev'd	App'vd
3				
2				
1	BID DRAFT	09-03-20	SAH	.

Stock/Job#: .

Osage Dealer: E.S.S./DV

End Customer: INDEPENDENCE FD

Drawing# INDEPENDENCE-104 | Cust. App'v/Date# . | Deal'r App'v/Date: .

Osage Industries, Inc.
TWIN RIDGE ROAD P.O. BOX 718 LINN, MO. 65051

Drawn By: S.A.H. | Date: 09-03-20 | Scale: NOT TO SCALE

Drawing Description:

REARWARD INTERIOR
TYPE-I SUPER-WARRIOR

Revision# 1

NOTICE
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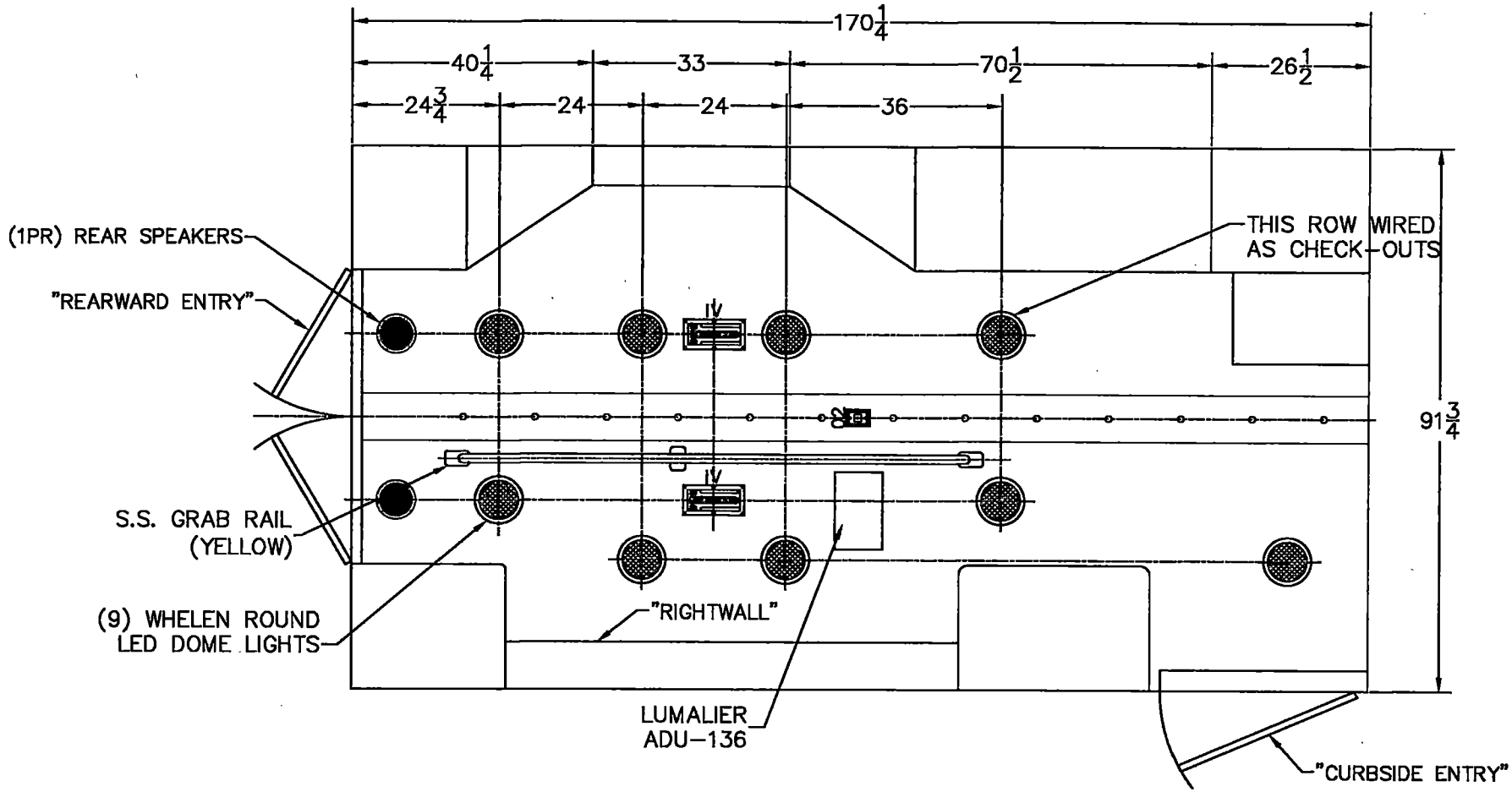

NOTES: THIS DRAWING IS NOT TO SCALE.
CHARACTERISTICS AND DIMENSIONS OF FINISHED PRODUCT MAY VARY.

Rev.#	Revision Description	Date	Rev'd	App'vd
3				
2				
1	BID DRAFT	09-03-20	SAH	.

Stock/Job#: .
Osage Dealer: E.S.S./DV
End Customer: INDEPENDENCE FD

NOTICE
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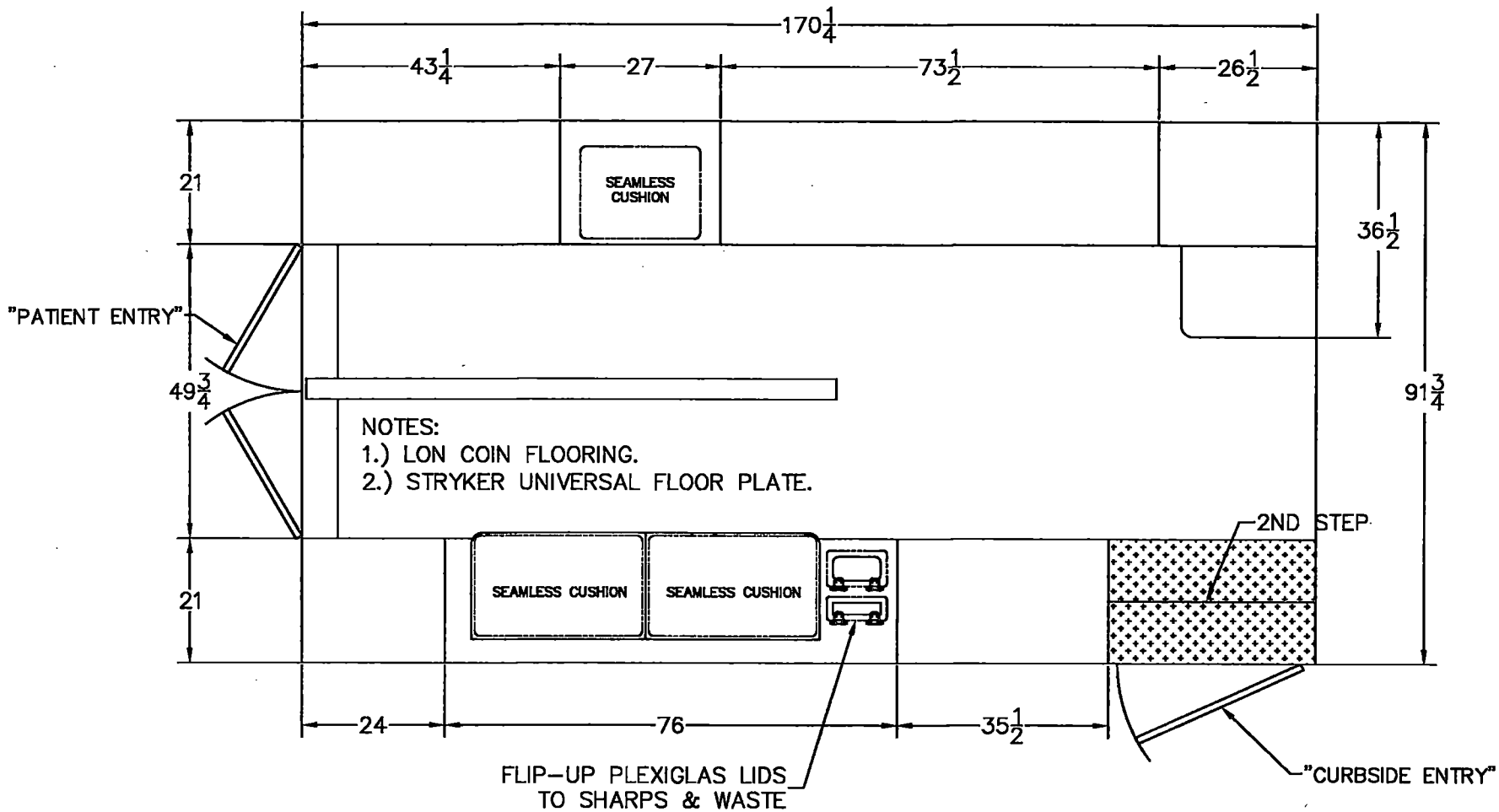
Drawing# INDEPENDENCE-105 | Cust. App'v/Date# . | Deal'r App'v/Date: .

Osage Industries, Inc.
TWIN RIDGE ROAD P.O. BOX 718 LINN, MO. 65051

Drawn By: S.A.H. | Date: 09-03-20 | Scale: NOT TO SCALE

Drawing Description:
CEILING LAYOUT
TYPE-I SUPER-WARRIOR

Revision# 1



NOTES: THIS DRAWING IS NOT TO SCALE. CHARACTERISTICS AND DIMENSIONS OF FINISHED PRODUCT MAY VARY.

Stock/Job#:	Drawing# INDEPENDENCE-106	Cust. App'v/Date#	Deal'r App'v/Date:
Osage Dealer: E.S.S./DV	Osage Industries, Inc.		
End Customer: INDEPENDENCE FD	TWIN RIDGE ROAD P.O. BOX 718 LINN, MO. 65051		
NOTICE	Drawn By: S.A.H.	Date: 09-03-20	Scale: NOT TO SCALE
This drawing and/or the information hereon is the exclusive property of Osage Industries and shall not be reproduced, used or disclosed without the authorized written consent of Osage Industries.	Drawing Description: FLOOR LAYOUT TYPE-I SUPER-WARRIOR		Revision# 1

Rev.#	Revision Description	Date	Rev'd	App'vd
3				
2				
1	BID DRAFT	09-03-20	SAH	.

SPECIFICATIONS

OSAGE AMBULANCE
2021 SUPER WARRIOR
SPECIFICATION

Dealer Name: **ESS**

Salesperson: David Vance

Customer Name: Independence Fire Dept

& Address 811 W. Laurel St

Independence, KS 67301

Shipping Address: SAA

Fleet Number:

Contact Name: David Cowen

Email: DAVIDC@INDEPENDENCEKS.GOV

Phone: 620-332-2528

Fax:

Chassis Type: 2021 Ford F550 4WD

Osage Unit #:

VIN:

	20
	F-450, 169" WB, 4x2
	F-450, 169" WB, 4x4
	F-550, 193" WB, 4x2
	F-550, 193" WB, 4x4

	CHEVROLET TYPE I - 2021 CHASSIS ONLY
	Chevy 5500, 189" WB, 4x2 w/Liquid Spring **(Includes TM-21 A/C Compressor)**
	Chevy 5500, 189" WB, 4x4 w/Liquid Spring **(Includes TM-21 A/C Compressor)**
	CHEVROLET TYPE I 2021 CONVERSION ONLY
	Chevy 2168 Super Warrior **(172" body, front mount condenser, cab steps includ**
	Freightliner / International TYPE I - 2021 CONVERSION ONLY
	2168/Freightliner / International Med-Duty

MODULE

- •Warrior: 148"L x 68" Headroom
- •Super Warrior: 168"L x 72" Headroom
- •Aluminum Diamond Plate Running Boards
- •Rear Mud Flaps
- Totally "Seamless" Body Construction
- Exterior Side & Roof Panels .125" Aluminum
- One-Piece Exterior Side Panels
- One-Piece Crowned Roof
- Frame Members 2" x 2" Aluminum Tubing
- Frame Members on 12" Centers or Less
- Diamond Plate Shields:
  - Across Lower Rear of Body
  - Across Lower Front of Body
  - Lower 1/3 of Entry Doors
- All Exterior Doors "Pan-Formed" / Extruded Double Break Construction
- All Body Openings **"Seamless"**
- All Door Latches Mounted Behind Gaskets
- Exterior Compartment @ Front Left for Storage of Oxygen Tank and Back Boards
- Exterior Compartment Adjustable Shelving
- Exterior Compartment Lighting
- Cast "Grabber" Door Holders
- Lower Body Impact Rub Rails
- Polished Stainless Steel Fenderettes
- Flip-up Rear Step Bumper w/ 4" x 18" Dock Bumpers
- Automotive Undercoating

WARNING SYSTEM

- Two Red Whelen ION-T Mounted in grill
- Two Red Whelen ION-T Intersection Lights Mounted in Front Fenders
- Eight Red LED Whelen 9x7 Modular Lights
- One Clear LED Whelen 9x7 Front Modular Light
- One Amber LED Whelen 9x7 Rear Modular Light
- Two LED Whelen 9x7 Scene Lights Per Side
- Two LED Whelen 9x7 Rear Load Lights
- Primary / Secondary Switching
- Carson SA 400 Siren
- Siren / Horn Switch
- Cast Siren Speaker
- Rear DOT Lighting Whelen LED 4x6 w/ Chrome Flanges: Red Tail /

PAINT & MARKINGS

- 8" Belt Line Paint Stripe
- Base Coat / Clear Coat Modular Paint
- "No Smoking" & "Fasten Seat Belt" Signs
- Ambulance / Star-of-Life Decals

ELECTRICAL

- Digital Voltmeter
- Audible Low-Voltage Alarm
- Weldon V-Mux Electrical System w/ Load Management & Sequencing System
- Wiring Color-Coded and Heat Embossed Every 6" w/ Function
- Power Distribution Panel Easily Accessible Via Hinged Access Door in Action Area
- Battery Switch Activated via Ignition Switch
- Open Door Warning Light
- Hand Held 300,000 CP Spotlight
- Whelen Dual Intensity LED Patient Compartment Dome Lights
- Exterior Weatherproof Shoreline

via Hinged Access Door in Action Area
- One Piece Molded Front Switch Console
- Hinge Mounted Attendant Switch Console
- Control Console Backlighting Dimmer

- Exterior Weatherproof Shoreline Receptacle
- Two Interior 110V Duplex Receptacles
- Two Interior 12V Cigar Style

INTERIOR

- All Vertical Corners 1" Radii
- Stainless Steel Aisle Panel, Left Side, Full Length x 18" x .060"
- Lon-Plate, non skid Vinyl Flooring Rolled 3" Up Both Sides of the Aisle
- EMT Seat, Pedestal Mounted Deluxe **Seamless** Vinyl Captains Chair w/3-Pt Belt
- CPR Seat, three piece, molded contoured cushions
- Squad Bench
- Retractable Seat Belts for All Locations
- Handicap Style, 1 ½" Diameter, Full Length, Stainless Steel Overhead Grab Rail. This Rail shall be treated with Agion Anti-Bacterial Coating.
- Handicap Style, 1 ½" Diameter, Stainless Steel Door Pulls on Patient Compartment Doors. These Bars shall be treated with Agion Anti-Bacterial Coating.
- Padded Bulk-Head Cabinet Doors
- ALS Compartment w/ In/Out Access
- 2 Adjustable Shelves in ALS
- R-29 Reflectics Insulation Through-out Module
- Thermostatically Controlled Patient Compartment Heat & Cool System
- 3-Speed Manual Fan Control
- Rear Heat & Cool Unit Mounted Floor Level;
  * Moisture Drains Directly Through Floor
  * Short Coolant Circulation Distance
  * Eliminates Vertical Circulation of Coolant
  * Unit Easily Accessible for Maintenance
- Overhead Air Distribution w/ Floor Level Filtered Air Return for Optimum Circulation
- Two Recessed, Swing-up Dual

EMERGENCY & EXTERIOR LIGHTING & SIREN OPTIONS

Warning & Intersection Lights, Wig-Wag

Qty		
22	W-01	Chrome Flanges for 9 x 7 (per light)
2	W-02	Chrome Flanges for 7 x 3 or 6 x 4 Lights
	W-03	Chrome Flanges for M9
	W-04	Chrome Flanges for M6 or M7
	W-05	Chrome Flanges for ION

Whelen Light Bars

Qty		
	W-06	Whelen LED 4500KK-FL, 6-Red, 1-Clear LED
	W-07	Whelen LED 4500KK-RL, 6-Red, 1-Amber LED, 2-Halogen Load Lights
	W-08	Additional LED in Bar
	W-09	Upgrade LED in Bar to LED Rotabeam
	W-10	Opti-Com
	W-11	Tomar Emitter

Custom Lightbars

Qty		Directional Sticks
	W-12	Whelen TAZ86 6-Super LED Traffic Advisor
	W-13	Whelen TAL 85 LED 8 Light Traffic Advisor

Qty		LED Strip Lighting
4	W-14	Whelen Strip-Lite, Red or Amber
2	W-15	Whelen Strip-Lite, Blue or White
	W-16	Red Innovative Strip Light, Dual Elements
	W-17	Amber Innovative Strip Light, Single Element

EMERGENCY & EXTERIOR LIGHTING & SIREN OPTIONS
Continued

Whelen Smart Linear LED's

Qty		
	W-18	Change 900 LED to 900 Halogen
	W-19	Additional 900 Solid LED, R, B or A
	W-20	Additional 900 Solid LED, C or G
6	W-21	Additional 900 R/B or R/A LED
	W-22	Additional 900 R/C or B/C LED
	W-23	Upgrade 900 LED to Solid C or G
8	W-24	Upgrade 900 to Split R/B or R/A
	W-25	Upgrade 900 to Split R/C or B/C
	W-26	700 LED I.L.O. ION-T
	W-27	Additional 700 LED R, B or A
2	W-28	Additional 700, R/B or R/A
	W-29	Additional 700 LED All or 1/2 Clr
	W-30	Upgrade 700 to R/B or R/A
	W-31	Upgrade 700 to All or 1/2 Clr
	W-32	Additional 600 LED, R, B or A
	W-33	Additional 600, R/B or R/A
	W-34	Additional 600 LED All or 1/2 Clr
	W-35	Additional 500 LED, R, B or A
	W-36	Additional 500, R/B or R/A
	W-37	Additional 500 LED, All or 1/2 Clr
	W-38	Upgrade 900 to M9 LED, R
	W-39	Upgrade 900 to M9, Amber, Blue, R/B, R/A
	W-40	Upgrade 900 to M9, All or 1/2 Clear
	W-41	Additional M9, Red
	W-42	Additional M9, B, A, R/B, R/A)
	W-43	Additional M9 (All or 1/2 CLR)
	W-44	Upgrade 700 to M6 Red
	W-45	Upgrade 700 to M6 B, R/B, or R/A
	W-46	Upgrade 700 to M6 All or 1/2 CLR
	W-47	Additional M6 LED, R, B or A
	W-48	Additional M6, R/B or R/A
	W-49	Additional M6 LED, All or 1/2 Clr
	W-50	Upgrade 700 to M7 R, B or A
	W-51	Upgrade 700 to M7 R/B, or R/A
	W-52	Upgrade 700 to M7 All or 1/2 CLR
	W-53	Additional M7 LED, R, B or A
	W-54	Additional M7 LED, R/B, R/A
	W-55	Additional M7 LED, All or 1/2 Clr

2	W-56	Whelen ION Additional 92), (1) Blue, (1) Red in grill Xpattern
	W-57	Whelen OS Light
	W-58	Add Any Light to Interior of Door (Add to Light Price)
		Specify Flash Pattern to set LED's to
		LED's to be: Unsynchronized Synchronized on K Flasher
Qty		**Scene Lights**
	W-59	Whelen 90COENZR 24-DIODE Scene Light, Additional
	W-60	Halogen Scene Light I.L.O. LED
	W-61	Whelen 700 Scene LED Additional
	W-62	M9 LED Scene, Upgrade
	W-63	M9 LED Scene, Additional
	W-64	M7 LED Scene, Upgrade
	W-65	M7 LED Scene, Additional
	W-66	Pioneer Single w/Flange, Upgrade PCPSM1C
	W-67	Pioneer Spot & Flood w/Flange, Upgrade PCPSM2C
	W-68	Pioneer Single w/Flange, Additional PCPSM1C
	W-69	Pioneer Spot & Flood w/Flange, Additional PCPSM2C
	W-70	Upgrade Brake/Tail to M6 (Pair)
	W-71	Upgrade Turn to M6 (Pair)
	W-72	Upgrade Reverse to M6 (Pair)

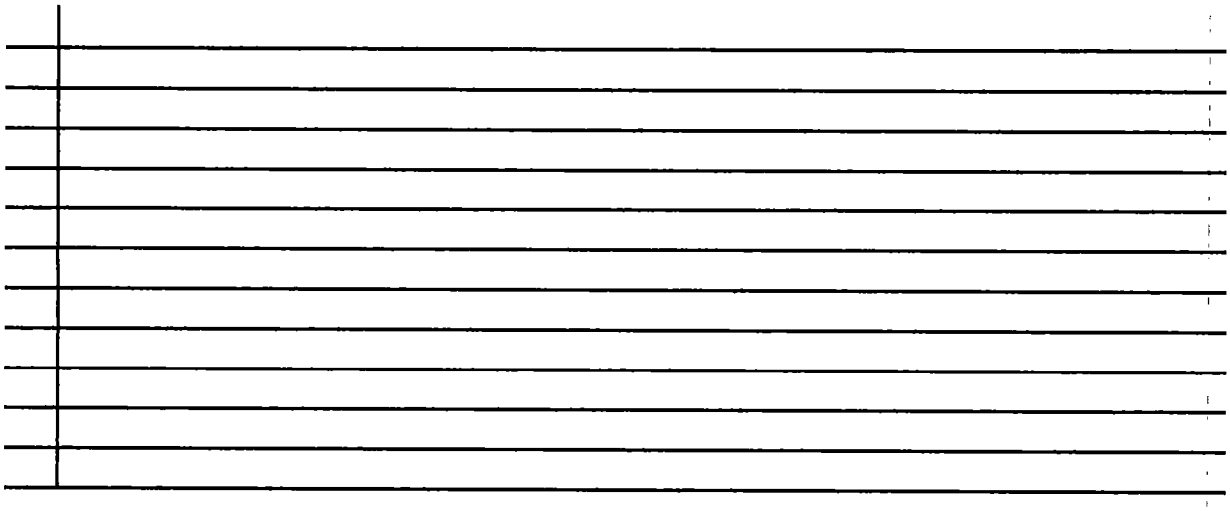
EMERGENCY & EXTERIOR LIGHTING & SIREN OPTIONS

Continued

Qty		Siren & Speakers
	W-73	Federal Rumbler (Only Available w/ Federal Siren, Whelen 295 Sirens, Signal #SS700-008, Code 3 VCON & 3997RS, Carson SC-4074 Commander)
	W-74	Federal E-Q2B
	W-75	Federal PA-300
	W-76	SA-400-17 w/Mechanical Tone
	W-77	SA-430 Siren w/ Remote Control Head, Upgrade
	W-78	SA-441 Siren w/Remote Control Head, Upgrade
	W-79	SA-441-17F w/Mechanical Tone
1	W-80	Whelen Model 295 SL SA-1
	W-81	295 HFSC9 Dual Tone
	W-82	295 HFS2 Remote Head
	W-83	295 HFS7 Remote Head, Dual Amps
	W-84	Whelen Howler (Only Available w/ Whelen Siren)
1	W-85	Buell Dual Air Horns Mounted Under Front Bumper
	W-86	Buell #16122 Compressor & # 5440 2nd Tank Upgrade

Qty		Exterior Lighting
	W-87	6 x 4 LED Turn Lights w/ Chrome Flanges Mounted Front of Module, (Per Pair)
	W-88	M6 Turn Lights w/Chrome Flanges on Front of Mod (per pair)
	W-89	Hella Fog Lights
	W-90	PIAA LED Fog Lights
	W-91	LED Running Board Lights
	W-92	Zico LED Under Body Lights (Per Pair)
	W-93	Zico Angled Reverse Lights White (Per Pair)
	W-94	Zico Angled Reverse Lights Polished (Per Pair)
	W-95	Additional LED Compartment Light to LED
1	W-96	Techniques E-41 LED Strip Lighting in all Compartments

Qty	Additional Emergency & Exterior Lighting & Siren Options & Special Instructions



ELECTRICAL OPTIONS

Inverters, Chargers, Batteries, Shorelines & Outlets

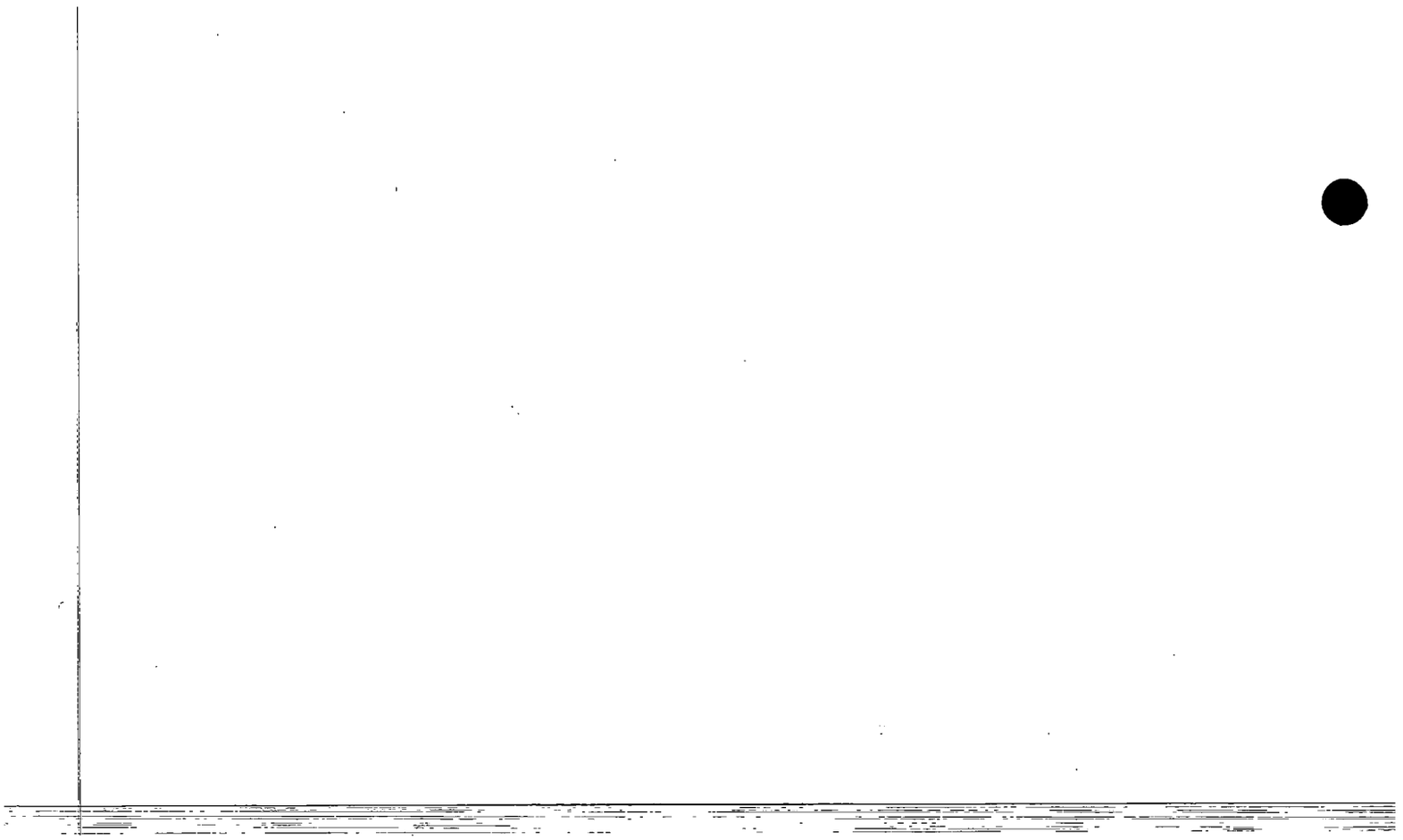
Qty		
	E-01	Pre-Wire for Vanner Inverter with Remote Switch (Specify Model if not Vanner)
	E-02	Vanner 1000W Inverter, Model 20-1000-TUL-DC
1	E-03	Vanner Inverter / Conditioner w/ Remote Switch, Model 20-1050-CUL

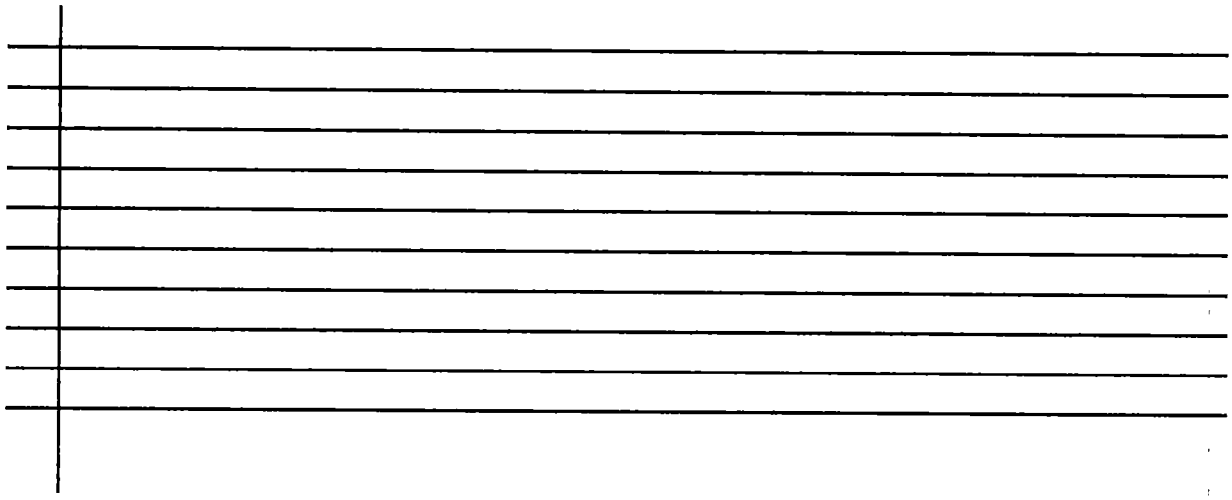
Choose One: Inverter on with ____ Ignition____ Switch in Rear Panel

	E-04	Iota P.C. 30 Battery Charger
	E-05	Iota P.C. 45 Battery Charger (Requires 30 Amp Shoreline)
		NOTE: BATTERY CHARGER REQUIRED IN KKK-F
	E-06	Add 2nd 20amp shoreline and circuit
	E-07	OEM Batteries Mounted in Slide Out Tray in Exterior Battery Compt.
	E-08	Additional Matching Battery (Requires Ordering Exterior Battery Compartment
	E-09	Upgrade to Twist Lock 30 Amp Shoreline
1	E-10	Upgrade to Kussmaul Auto Eject Shoreline Plug, 20 Amp
	E-11	Upgrade to Kussmaul Auto Eject Shoreline Plug, 32 Amp
1	E-12	Shoreline Indicator at Shoreline

Outlets & Interior Lighting

Qty		
1	E-13	110 V Outlet, Additional per Outlet
1		12V DC Outlet, Cigar Style, Additional per Outlet
	E-14	Note: Outlets will be Ignition Hot unless otherwise specified
1	E-15	110/USB Outlet
1	E-16	Dual USB Outlet
	E-17	Single Overhead Reading Light in Cab
	E-18	R/W Dome Light
	E-19	LED Federal Little Lite
	E-20	Check-Out Lights, 2 - 12 Volt LED, 36",
	E-21	Additional LED Check Out Lights (Per Light)
1	E-22	Interior Cabinet Lighting w/On/Off Switch Mounted in Action Panel (Strip LED)
1	E-23	Power Door Lock Control Head
3	E-24	Power Door Lock Per Door
	E-25	LED Lights (3) Above Rear Entry Doors (Brake & Turn)
	E-26	Whelen Round LED Domelights w/Chrome Flange (Upgrade per Lt)
	E-27	Whelen Rectangular LED Domes (Upgrade per Light)
	E-28	Intertech Round LED Domes (Upgrade per Light)
1	E-29	Additional Dome Lights (Add to Cost of Upgrade Light, if Ordered)
	E-30	Upgrade Dome to Red/Clear





INTERIOR OPTIONS
Continued

Qty		Doors, Locks, & Latches
	I-64	Café Double Doors, (Warrior)
	I-65	Full Plexiglas ALS Doors (3/8" Plexiglas, No Frames)
	I-66	Single Roll-up Shutter on ALS
	I-67	Lock for Roll-up Shutter on ALS
	I-68	Lock on Interior Cabinet
	I-69	Simplex Combination Lock
16	I-70	Southco Stainless Steel Latches, (per Latch)
	I-71	Southco Stainless Steel D-Ring Latch (per latch)
	I-72	Chrome Hartwell Latch (per latch)

Qty		Counter Tops
		Note: Select One of the Following No/Charge Standard Counter Top Colors:
		Speckled Gray
		Speckled Blue
		Speckled Red
		Speckled Tan
	I-73	Speckled Color Finish in Silk Stone Action Area Countertop
	I-74	Speckled Color Finish in Silk Stone Monitor Shelf Countertop
		Note: Provide Color of Silk Stone Counter Top if Ordered:
	I-75	Custom Silkstone Color
	I-76	Swivel Bracket for Zoll
	I-77	Swivel Bracket for LP12 or LP15
	I-78	Technimount

Qty		Sharps, Waste, & Drawers
	I-79	Sharps & Waste Drawer
	I-80	Tilt-Out Sharps or Waste
	I-81	Sharps/Waste thru Fiberglass Counter into #2 Compartment (Warrior Only)
	I-82	Waste Disposal thru Silk Stone Countertop into #2 Outside Compartment
	I-83	Sharps Disposal thru Silk Stone Countertop into #2 Outside Compartment
3	I-84	Drawer for General Storage (Indicate Location)
	I-85	Drawer with Flip-up Writing Service
1	I-86	Sharps & Waste in Bench w/Flip-Up Plexiglass Lids

Qty		Grab Rails & Bars, Armrests
	I-87	Additional Grab Rail Over Squad Bench

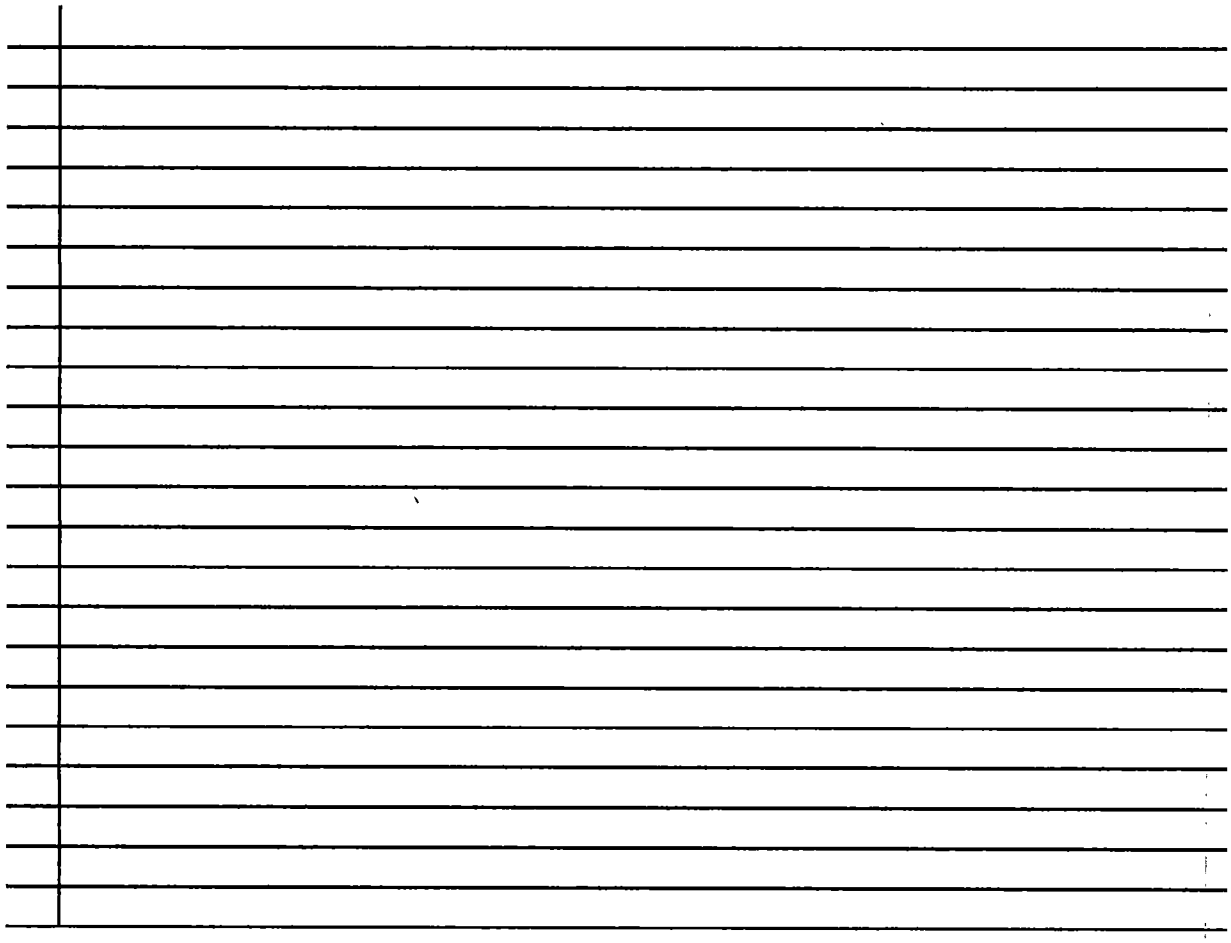
	I-88	Armrest/Bar at Head of Squad Bench, SS Removable
	I-89	A-Bar w/Sharps & Waste @ Head of Squad Bench, SS Removable (Warrior Models Only) This Bar shall be treated with Agion Anit-Bacterial Coating
	I-90	Custom A-Bar
	I-91	Armrest at Head of Squad Bench, Upholstered
2	I-92	12" Stainless Grab Handle
6	I-93	Make Grab Bar Yellow (Price Each)
Qty		**Insulation & Sound Deadening**
1	I-94	Sound Deadening Under Floor
1	I-95	3M Sound Deadening on Back of Exterior Compartments
1	I-96	Delux Insulation on Side Entry Step

INTERIOR OPTIONS

Continued

Qty		Additional Headroom, Crawl Through (Type I), Bariatric Package
1	I-97	Custom Headroom. Fill in Height 74"
	I-98	Crawl Through to Cab, (Type I)
	I-99	Move Struts to Ends of Bench
	I-100	Move Paddle Latches to Ends of Bench
	I-101	Bariatric Package, Excluding Stretcher
		Bariatric Package Individual Components, I-102 through I-104
	I-102	Pair 11 ft. Folding Loading Ramps
	I-103	Warn Model XT 25, PN 75-500
	I-104	Pre-Wire & Floor Mounting Plate Only, w/o Winch
		DEDUCTIONS:
	I-105	Single Bench Lid
	I-106	Delete Gas Struts on Bench
	I-107	Laminated Counter

Qty	Additional Interior Options & Special Instructions
1	Angle cabinets each side of CPR seat
1	Move CPR rearward and extend counter. Match left wall to J-2647
3	Chevrons with Osage logos on entry door kick plates
1	Move Entry door forward
1	Cabinet at head of bench
1	Fiberglass counter on above cabinet
1	Wise edging on above cabinet
1	Overhead cabinet at head of bench
1	Install a Key Locked Narc Cabinet to action area per drawings.



EXTERIOR OPTIONS

Qty		Custom Body Size, Compartments, Doors & Door Window
1	EX-01	Custom body Length- Fill in Length 176"
		Please specify if you want #4 and/or #5 Widened at No Charge
	EX-02	4" Additional Cab Recess
	EX-03	Additional Exterior Compartment, (per compartment)
	EX-04	Compartment Over Wheel Well w/ Rollout Drawer
	EX-05	Change Exterior Compartment Size
1	EX-06	Side Entry Door Forward Layout
	EX-07	Shallow-Depth or Staggered-Depth Compartment
		Deepen #5 2" into Aisle
	EX-08	*(NOTE: Only 1 1/2" Available on Sprinter for 17 3/4" I.D. Depth.)*
1	EX-09	Double Door on Exterior Compartment (LO) Single Door
	EX-10	Recessed Pocket in Exterior Compartment Door
	EX-11	Sliding Windows in Rear Entry Doors (per pair)
	EX-12	Lower Window in Entry Doors (each)
	EX-13	Scorpion Lining in Exterior Compartment (Price Per Compartment)
	EX-14	Scorpion Shelf
	EX-15	Scorpion Divider
	EX-16	Dry Deck All Compartments
	EX-17	Stairchair Bracket

Qty		Shelves & Dividers
	EX-18	Adjustable Shelving Unit in Exterior Compartment w/One Shelf up tp 12" wide
	EX-19	Adjustable Shelving Unit in Exterior Compartment w/One Shelf 12"-30" wide
2	EX-20	Adjustable Shelving Unit in Exterior Compartment w/One Shelf 30"-48" wide
	EX-21	Additional Shelf in Exterior Compartment up to 12" wide
1	EX-22	Additional Shelf in Exterior Compartment 12"-30" wide
	EX-23	Additional Shelf in Exterior Compartment 30"-48" wide
	EX-24	Aluminum Backboard Divider
	EX-25	Adjustable Backboard Divider
	EX-26	Roll-Out Tray in Comp.
	EX-27	Additional Backboard Strap
	EX-28	Roll-Out Tray w/ Stair Chair bracket

Qty		Rear Bumpers & Entry Steps
	EX-29	Fixed Rear Step Bumper
	EX-30	Zico Retractable Side Entry Step
	EX-31	Zico Manual Step
	EX-32	Recessed Side Entry Step-Well w/ Remove Able Grip-Strut

	EX-33	Stainless Kick Plates on Entry Doors (three)
1	EX-34	Smooth Aluminum Kickplates (3)
	EX-35	Dual Interior Emergency Door-Open Handles, Price per Door
	EX-36	Additional Paddle on Dummy Door
	EX-37	Nylon Retention Strap on Exterior Door
1	EX-38	Drop Skirt Line 4" from Right Rear Wheel to Right Front Corner, Add 2nd Entry Step
	EX-39	Painted Number Placards

EXTERIOR OPTIONS
Continued

Qty		Rub Rail, Tow Hooks, Mud Flaps, Chains
1	EX-40	Rear Tow Hooks (Mounted on Rear Bumper Frame)
	EX-41	Recessed Rear Tow Hooks
	EX-42	On-Spot Chains
	EX-43	Grip Strut Running Boards, (vs. Diamond Plate) Available on RAM Only
	EX-44	Grip Strut Inserts in Running Boards
	EX-45	Reflective Tape in Rub Rail--*FILL IN COLOR*_____
	EX-46	Clear-View Star-of-Life (Per Window)
	EX-47	Stainless Steel Fuel Guard
	EX-48	1pr. Rubber Mud Flaps for Front Wheels
	EX-49	Taller Front Stone Guards
	EX-50	Southpark Handle at Side Door
	EX-51	Buckstop Bumper & Grill Guard, Black
	EX-52	Buckstop Bumper & Grill Guard, Black (For Medium-Duty)
	EX-53	Buckstop Bumper Only, Black (For Medium-Duty)
	EX-54	Ali Arc Bumper
	EX-55	Thunderstruck Bumper
	EX-56	Warn Transformer Stainless Grill Guard w/Center Bar
	EX-57	Warn Transformer Black Grill Guard w/Center Bar
	EX-58	Luverne Black Prowler
	EX-59	Luverne Stainless Prowler Grill Guard
	EX-60	Cast Fuel Fill Door
	EX-61	Rubber Fenderettes
	EX-62	Rubber Rub Rails
	EX-63	Billstein Shocks Per Axle
		DELETE:
	EX-64	Shelf in #2 Compartment
1	EX-65	Exterior Compartment
	EX-66	Divider & Fixed Shelf in #1 or #5

Qty		MISCELLANEOUS OPTIONS
1	MS-01	Credit for Shipping Spare Tire Loose
	MS-02	Ford Jack & Tire Tools (not included in Cutaways)
	MS-03	Fire Extinguisher, 5lb
	MS-04	Install Decals
	MS-05	Delete Decal Package

EXTENDED WARRANTIES

MS-06	Extended Electrical Warranty 7-years/100,000
MS-07	Extended Cabinet Warranty 15-years/100,000

Qty	Additional Exterior & Miscellaneous Options & Special Instructions

EXTERIOR OPTIONS
(Continued)

Qty		PAINT OPTIONS
	P-01	Second Stripe at Skirtline to Match Beltline
	P-02	Hockey Stick Design, Single Stripe
	P-03	Heartbeat Stripe, (Osage Standard Design)
	P-04	Custom Heartbeat to Match Customers Existing Unit
	P-05	2nd Stripe, Same Color
	P-06	2nd Stripe, Different Color
	P-07	Paint Cab (Door jams included)
1	P-08	⅔ Red / ⅓ White Cab & Box (Including Door Jambs)
1	P-09	Red Paint Color, (Additional Materials Cost)
	P-10	Yellow Paint Color (Add Material Cost)
	P-11	Wet Sand & Buff
	P-12	Westsand & Buff roof
1	P-13	Delete Standard Beltline Paint
	P-14	Large SOL on Rear Quarter w/54" Ref. Snake

Qty		Pinstripe
	P-15	1/4" Reflective Pinstripe
	P-16	1/2" Reflective Pinstripe
	P-17	7/8" Reflective Pinstripe
	P-18	2" & Wider Reflective Stripes, Per Inch of Width
	P-19	6" 3M Reflective Chevron, One Color
	P-20	6" 3M Reflective Chevron, Two Alternating Colors
	P-21	6" Oracal Reflexite Chevron, One Color
	P-22	6' Oracal Reflexite Chevron, Two Colors
	P-23	6" 3M Diamond Grade Chevron, One Color
	P-24	6" 3M Diamond Grade Chevrons, Two Alternating Colors
	P-25	6" Chevron on Rear Doors, One Color
	P-26	6" Chevron on Rear Doors, Two Colors
	P-27	6" Oracal Reflexite Chevron on Rear Doors, One Color
	P-28	6" Oracal Reflexite Chevron on Rear Doors, Two Colors
	P-29	6" Diamond Grade Chevron on Rear Doors, One Color
	P-30	6" Diamond Grade Chevron on Rear Doors, Two Colors

NOTE: Chevrons outside & above Rear Doors

Fill-in Color(s) _____

NOTE: Pinstripe is One Stripe Above and One Below Standard Band

		PROVIDE THE FOLLOWING IF APPLICABLE:
		Primary Paint Color White
		Primary Paint Code & MFG
		Secondary Paint Color Red
		Secondary Paint Code & MFG
		Primary Pinstripe Color
		Secondary Pinstripe Color
Qty		**Demo Decals**
	P-31	Osage Logo Decal
	P-32	"Osage" Windshield Decall
Qty		**Additional Paint Options & Special Instructions**
1		Graphics to match current fleet.

BID SHEET

ADVERTISEMENT FOR BID

The City of Independence, Kansas, is accepting bids for a new ambulance for the City's Fire-EMS Department, meeting or exceeding the attached specifications.

Bids will be in the office of the City Clerk, 811 W. Laurel Street, Independence, Ks. 67301, on or before 2:00 p.m. Thursday, February 18th. Bids shall be enclosed in a sealed envelope plainly marked on the outside "Ambulance". If bid is mailed, original envelope shall be enclosed in a separate envelope addressed to the City Clerk, also plainly marked on the outside as stated above. E-mail or fax bids will not be accepted. The apparent low bid will then be presented to the Independence City Commission at their next regular meeting for their formal action, subject to secured funding.

The city reserves the right to accept or reject any or all bids or to waive any irregularities should any occur as may best benefit the City. The City Manager may require that no bidder may withdraw a bid for a period of up to forty-five (45) days after the date and hour set for opening bids, but that a bid may be withdrawn up to twenty-four (24) hours prior to expiration of the deadline for submitted bids.

Lacey Lies

Lacey Lies, Director of Finance

01/28/2021

Date

CITY OF
INDEPENDENCE
KANSAS

SPECIFICATIONS & BID SHEET

DELIVERY INCLUDED TO:
CITY HALL
811 W LAUREL ST
INDEPENDENCE, KS 67301

FOR QUESTIONS, PLEASE CONTACT:
DAVID COWAN, PUBLIC SAFETY
DAVIDC@INDEPENDENCEKS.GOV
(620) 332-2528

Shawn Wallis, Fire-EMS Chief
shawnw@independenceks.gov
620.332.2504

CITY OF
INDEPENDENCE
KANSAS

"Delivering Excellence"

Bid Specification Requirements

Bids will be sent on January 28, 2021, to prospective bidders

Bids must be returned to the City of Independence by:

February 18th, 2021, at 2:00 p.m.

Mail to:

City of Independence
Attn: Ambulance Bid
811 W. Laurel Street
Independence, Ks. 67301

Bid packages must be a submitted proposal, including all requested information in this bid, as outlined in the next couple of pages (Bid Requirements). The City of Independence will reject any bids received after 2:00 p.m. on February 18, 2021. For confirmation of receipt, please contact David Schwenker, City Clerk at davids@independenceks.gov or 620.332.2500 option 3.

CITY OF
INDEPENDENCE
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BID SUBMISSION REQUIREMENTS

1. This unit shall be a Type I modular ambulance on a Ford F-550 Super Duty XLT, 193' wheelbase, in accordance with specifications KKK-A-1822F.

2. This ambulance and equipment shall be delivered to this agency in Independence, Kansas with all delivery fees to be paid by the supplier by TBA by manufacturer for 2021 delivery.

3. Each bidder is required, before submitting the proposal, to be thoroughly familiar with the specifications contained herein. It will be the responsibility of the bidder to determine whether the vehicle specified meets the requirements of applicable state law, and the requirements of applicable KKK-A-1822F specifications

4. The following definitions shall apply to the specifications:
    a. The first stage manufacturer is the original equipment manufacturer that built the specified chassis, and its components.
    b. The second stage manufacturer is the company that will produce the ambulance conversion and required modifications to the O.E.M. chassis for delivery to this agency.

5. The bid process shall be valid for a minimum of 60 days from the date of the bid opening or as otherwise specified on the bid proposal form.

6. Full payment will be made when the unit is received, inspected, found to comply with the procurement specifications, found to be free of damage, and properly invoiced.

7. Bids received shall be evaluated by the purchaser. This evaluation will be based on the following criteria:
    a. Completeness of the proposal;
        i. The degree to which it responds to all requirements, and requests for information contained herein
        ii. Exceptions will be judged by the purchaser.
    b. Bid proposals that do not comply with the prescribed specifications will not be accepted.
    c. The bidder shall submit documentation that the second stage manufacturer is a current member of the Ford QVM (Qualified Vehicle Modifier) program even if an alternate chassis is bid.

8. The purchaser reserves the right to waive any irregularities, informalities, and technicalities in the procedure.

CITY OF
INDEPENDENCE
KANSAS
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9. Warranty: Printed warranty statements for the ambulance body structure, the ambulance electrical system, the ambulance paint finish, and the general ambulance conversion must be submitted with the bid proposal.

10. All warranties shall begin at the acceptance of the vehicle by this agency.

11. Since it is the purpose of these specifications to provide a modular body that will provide many years of service, the manufacturer of the vehicle bid shall warranty the structural integrity of the modular body for the life of the vehicle ownership by this agency. This warranty shall be in writing and shall be included with the bid proposal. Bidders who fail to meet this requirement shall not be considered as responsive.

12. Each bidder must be able to provide an efficient response to ambulance service needs. Within one business day after the receipt of a verbal, or written notification that warranty service is required, the ambulance supplier shall respond with a verbal statement of the plan to accomplish the repair.

13. The bidder shall state below the location of the ambulance manufacturer's parts, and service facility nearest the purchaser location:

Osage Industries
194 Twin Ridge Rd
Linn MO, 65051

TELEPHONE: 573-897-3634 FAX: 573-897-3113
EMAIL: dvance@osageind.com

14. The bidder shall state below any additional repair and logistical support that would be available above the requirements of these specifications. These services may be used as an additional basis for a contract award.

Stephenson Automotive Excellence, Osage certified mobile service ad repair based out of Salina KS. Provides mobile on-site repair. He is a certified Emergency Vehicle Technician and ASE Master Automotive Technician.

15. Delivery: Delivery for this truck is by TBA by manufacturer for 2021 delivery and will weigh heavily in the determination of the bid award, the delivery schedules that are submitted by the bidder and agreed upon by this agency shall automatically become binding upon the successful bidder.

16. By signing this bid, the bidder agrees that his bid is made without any understanding, agreement, or connection with any other person, firm, or corporation making a bid for the same purpose and that his bid is in all respects fair and without collusion or fraud.

17. Each bidder must furnish all information requested in this bid specifications. In addition, the bidders shall supply at least one complete set of drawings, descriptive literature, and complete manufacturer specifications covering the vehicle model offered. A copy of the purchaser specifications shall be returned with all sections responded to, and specifically indicating all detail deviations from this bid specification. That specification response will form the contract between the bidder and the purchaser.

18. Any area where these bid specifications are not met exactly must be identified in writing and referenced by proposal paragraph number. Details concerning the exceptions must be clearly explained. Each exception will be considered by the purchaser as the degree of impact by the proposed on the vehicle design requested and will be evaluated on their merit at the discretion of the purchaser. Bid proposals not meeting this comparison requirement will be rejected.

19. Patents, and royalties: The bidder, without exception, shall indemnify and save harmless the purchaser and its employees from liability of any kind due to any copyright, patent, or protected process infringement used in the performance of this contract. If the bidder uses any design, device, or materials covered by letters of protection, it is mutually agreed and understood without exception that the bid prices shall include all royalties or costs arising from the use of such design, device, or materials in any way involved in the work.

20. In the event clarification is requested on the content of this specification, the question shall be sent by email to:

Independence Fire-EMS
davidc@independenceks.gov & shawnw@independenceks.gov

Clarification or corrections to these specifications shall not be valid unless they are in written form and signed by the Director of EMS of this agency, or an assigned authority.

21. The bidder must be legally licensed to sell motor vehicles in the State of Kansas. The bidder must submit a copy of their dealer license provided by this State. This is a legal requirement of this State, and proposals submitted by bidders that do not comply with this requirement will be rejected.

CITY OF INDEPENDENCE
KANSAS

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22. THIS BID IS GOOD FOR 60 DAYS FROM **February 18, 2021**. THE BID OPENING DATE. CITY OF INDEPENDENCE RESERVES THE RIGHT TO ADD OR DELETE OPTIONS AFTER THE BID IS AWARDED, AND EXPECTS APPROPRIATE CREDIT OR DEBIT FOR SAID OPTIONS. CITY OF INDEPENDENCE RESERVES THE RIGHT TO ACCEPT OR REJECT ANY OR ALL BIDS OR TO WAVIE ANY IRREGULARITIES SHOULD ANY OCCUR AS MAY BEST BENEFIT THE CITY OF INDEPENDENCE.

1. Base bid for requested ambulance $ **$207,080.00**
2. Trade-In value of 2015 Ambulance ($_____)
3. Total Price with trade: $_____

Pictures and information available on trade-in by request or can be seen by appointment.
Exceptions to the bid:

1. _____
2. _____
3. _____
4. _____
5. _____

If further space is needed, please attach additional pages.

Delivery Date: 09/01/2021 **Required: TBA by manufacturer for a 2021 delivery**

I hereby certify that the bid submitted by this company is for an ambulance that will meet all of the requirements set forth in these specifications, including all equipment specified, except where exceptions are indicated on a separate piece of paper. Enclosed with our bid is an explanation of what we propose to furnish in lieu of the specified requirements where we have indicated any exceptions. This copy of the specifications and our list of exceptions, if any, shall be considered to be the accurate contract vehicle description upon our award.

Emergency Services Supply
Company Name

2637 Drew Perry Rd — Address
Jefferson City — City
MO — State

65101 — Zip
785-617-0280 — Phone
(Alt) Phone

David Vance — Sales Representative Signature
David Vance — Printed Name
02/05/21 — Date

STRATEGIC VISION: *Customer Service Excellence – Continuous Improvement – Teamwork*

INDEPENDENCE FIRE DEPARTMENT
2021 Ford *"F-550"* w/ 4WD
AMBULANCE SPECIFICATION

INDEX

-1-

3.9 110 VOLT AC SYSTEM
3.8 12 VOLT DC OUTLETS11

-A-

1.13 ALTERNATORS
10.3 AMD MEMBERSHIP
8.3 ANTENNA PRE-WIRE
1.3 AUXILIARY POWERTRAIN CONTROL (APC)
1.9 AXLE, REAR

-B-

3.4.5 BACKUP ALARM OVERRIDE
1.12 BATTERIES
6.0 **BODY FINISH**
1.7 BRAKES
4.2.2 BULKHEAD CABINETS
5.3 BUMPER, REAR STEP

-C-

4.2 CABINETS, INTERIOR
4.2.1 CABINETS, LEFT WALL
1.0 **CHASSIS**
4.12 CLIMATE CONTROL
3.16 CLOCK, PATIENT COMPARTMENT
3.4 CONTROL PANEL PODS BUTTONS
1.18 COOLING SYSTEM, ENGINE
4.10 COT MOUNT
4.3.1 CPR SEAT CABINET
3.4.6 CURBSIDE SCENE LIGHTS "ON" WITH CURBSIDE DOOR

-D-

8.1 DECALS, NO SMOKING & OXYGEN EQUIPPED
6.2 DECALS, STAR-OF-LIFE
2.1 DIMENSIONS, EXTERIOR
2.2 DIMENSIONS, INTERIOR
5.4 DOORSTEP, SIDE

1.16 SEATS, DRIVER'S COMPARTMENT
Deluxe clothe OEM High Back Captain's Chairs, seat belts and shoulder harnesses.

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

COMPLY? .....YES XX NO _____

1.17 HEATER AND AIR CONDITIONER
OEM heavy duty, high output.

COMPLY? .....YES XX NO _____

1.18 COOLING SYSTEM, ENGINE
Heavy-duty liquid system using a 50/50 mix of permanent type antifreeze and water for protection to -40 Fahrenheit.

COMPLY? .....YES XX NO _____

1.19 MIRRORS, OUTSIDE
OEM heated mirrors with power adjustment and built-in 2" x 6" convex mirrors, dual direction breakaway mounting arms with telescoping width adjustment.

COMPLY? .....YES XX NO _____

1.20 TRIM PACKAGE, CAB
XLT Trim Package; full stainless-steel wheel simulators, chrome front bumper and grill. Color keyed door trim with map pockets, rubber floor mat, padded sunvisors, courtesy and dual dome lights, AM/FM Stereo Radio w/digital screen / GPS Navigation /dual cab speakers. Power door locks, cruise control, tilt steering wheel, and power adjustable brake and accelerator pedals.
COMPLY? .....YES XX NO _____

1.21 RUNNING BOARDS AND MUD FLAPS
Heavy-duty aluminum Diamond Plate running boards will be installed from the back of the front wheel opening to the front of the module box. They will include mudguards to protect the chassis and module. Rubber mud flaps will be installed behind the dual rear wheels.

COMPLY? .....YES XX NO _____

1.22 MISC. CHASSIS ITEMS
Jewel effect daytime running headlights, dual pitch horn, reduced sound level exhaust, OEM standard undercoating, step-well pad and factory supplied jack and tire tools, dual air bags.

COMPLY?.....YES XX NO _____

1.23 REMOTE ENTRY

Remote Entry & anti-theft with two key Fobs' shall be included. The Module entry door locks will also be controlled by the factory Ford key fob. A hidden unlock switch will be installed in the chassis grill.

COMPLY? .....YES XX NO _____

2.0 MODULE CONVERSION

2.1 DIMENSIONS, EXTERIOR

Overall vehicle length	316.0 inches
Overall vehicle height	113.5 inches
Overall module body length	176.0 inches
Overall module body height	95.0 inches
Overall module body width	96.0 inches

COMPLY? .....YES XX NO _____

2.2 DIMENSIONS, INTERIOR

Length forward door to rear door	170.25 inches
Width interior wall to wall	92.0 inches
Width of aisle	49.0 inches
Height floor to ceiling	74.0 inches
Loading height	34.5 inches

NOTE: "Kneeling" rear suspension required for load height in KKK and NFPA limits.

COMPLY? .....YES XX NO _____

2.3 GENERAL CONSTRUCTION

The entire body will be a welded and **SEAMLESS** one-piece body **(No Exceptions)**. The entire perimeter and around all openings of the body shall be fully welded and ground smooth thus eliminating any joints or seams. The use of tongue and groove method of construction that requires the use of a seam sealer is not acceptable. This is to prevent the cracking of paint at these areas resulting in a buildup of road dirt and grime and the eventual development of corrosion along the tongue and groove seams.

COMPLY? .....YES XX NO _____

The aluminum skin, the roof and side panels, shall be permanently fastened to the framework using Lord 406/19 Acrylic Adhesive. Adhesive is applied to the sidewall skin to prevent warp age, oil canning and metal deflection associated with the welding of the sidewall skin to the structural framework. The use of double back adhesive tape is prohibited to eliminate the possibility of the adhesive tape failing to maintain a bond to the external skin.

COMPLY? .....YES XX NO _____

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

COMPLY? .....YES XX NO _____

The roof panel shall be a single sheet of aluminum. Covering the roof of the exterior body with sectional pieces of aluminum panels is prohibited. This is to eliminate the necessity for joints or seams where these panels join.

COMPLY? .....YES XX NO _____

The wall and roof support framework shall be .125" 6061-T6 extruded aluminum box beams and extrusions spaced on 12" centers or less. There shall be no frame members spaced at a distance in excess of 12". The roof support framework shall additionally include .125" 6061-T6 extruded 1" x 2" aluminum box beams running the full length of the roof. The frame and skin shall be fully welded with no rivets.

COMPLY? .....YES XX NO _____

The exterior of the body will be finished smooth with 45-degree **SEAMLESS** beveled extruded corners presenting a modern and dynamic appearance. The outer wall thickness of the extruded corners shall be .250" to provide additional protection at all corners. The body will be designed and built to provide impact and penetration resistance, with appropriate channel reinforcing to assure rigidity.

COMPLY? .....YES XX NO _____

All parts of the body and attachments will be fastened together with rust resistant fasteners in a manner that will preclude loosening of any bolts and screws, and the cracking of welded joints. The exterior body panels will be made of not less than 0.125" thick metal and be reinforced at all points where equipment will be attached. Additional plating will be added in the Street side and curbside walls for future installation of 6-point seatbelts.

COMPLY? .....YES XX NO _____

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

COMPLY? .....YES XX NO _____

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

COMPLY? .....YES XX NO _____

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

COMPLY? .....YES XX NO _____

2.4 ROOF

The roof surface shall be **SEAMLESS** and **CROWNED** and of **ONE PIECE** of .125" aluminum (3003-H14). The use of any type of sealer or caulking material is strictly forbidden. There shall be no lip or protrusion on the roof that could result in the entrapment of any water or moisture.

COMPLY? .....YES **XX** NO _____

The perimeter of the roof shall be constructed of 45-degree **SEAMLESS** beveled extrusions that eliminate any lip or protrusion providing a smooth finish. The outer wall thickness of the roof perimeter extrusions shall be .250" to provide additional protection at all perimeter corners.

COMPLY? .....YES **XX** NO _____

The roof under structure will be fabricated from extruded aluminum box beams (6061-T6). The under structure will be constructed by welding 1" x 2" x .125" box beams lengthwise and by welding 2" x 2" x .125" box beams, spaced on 12" centers or less, crossways forming a cross sectional grid roof support framework. The complete roof will be treated with a sound-deadening barrier. The roof panel shall be fully perimeter welded and adhesive bonded to the roof under structure with Lord 46/19 Acrylic Adhesive. The use of skip or intermittent welding of the roof perimeter is unacceptable.

COMPLY? .....YES **XX** NO _____

2.5 SIDE WALLS

The body sidewall skin shall be constructed of .125" aluminum (3003 H14). The sidewall under structure will be fabricated by welding 2" x 2" x .125" extruded aluminum box beams vertically, spaced no further than on 12" centers. The vertical tubing will join and be welded to roof supports (2" x 2" x .125" extruded aluminum box beams) to form an interlocking grid between the sidewall and the ceiling. The complete sides will be treated with a sound-deadening barrier. The body sidewall skin shall be fully welded around the entire perimeter and all body openings and adhesive bonded to the sidewall framework with Lord 406/19 Acrylic Adhesive. The curbside of the module, forward of the rear wheel will have a 4" skirt drop.

COMPLY? .....YES **XX** NO _____

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

COMPLY? .....YES **XX** NO _____

2.6 FLOOR SUB-STRUCTURE

The floor shall be at the lowest level permitted but not more than 34 ½ inches from the ground with **NO MODIFICATION TO THE FORD OEM CHASSIS SUSPENSION.**

COMPLY? .....YES **XX** NO _____

The floor sub-structure shall consist of two (2) 1/4" walls 2" x 2" aluminum tubes running at the outer edge for the full length of the floor and the chassis frame rails. There shall then be sixteen (16) 1 ½" x 1 ½" x ¼" walls 1 ½" x 2" aluminum tubes running the width of the floor and fully welded to the outer tubes. This sub-structure frame is to mount on top of the Chassis frame rails via the 12 OEM Pucks. 2 Full-Length Plates measuring ¾" x 6" shall be welded to the underside of the 1 ½ x 1 ½ tubes, one left and one right. The outer edges of these plates

shall be welded to the 2 x 2 primary box beams. These plates shall be bolted, via OEM rubber mounts, to gusseted steel brackets bolted to the OEM frame. There shall be twelve (12) rubber mounts attaching the body to the frame.

COMPLY? .....YES XX NO _____

2.7 EXTERIOR COMPARTMENT CONSTRUCTION

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

COMPLY? .....YES XX NO _____

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

COMPLY? .....YES XX NO _____

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

COMPLY? .....YES XX NO _____

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

COMPLY? .....YES XX NO _____

2.8 DOORS

The corner of each door frame shall be ¼" Cast Aluminum inserted & welded to horizontal & vertical extrusions. This Cast part shall ensure superior strength as well as uniform fit & finish.

COMPLY? .....YES XX NO _____

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

COMPLY? .....YES XX NO _____

All doors shall be constructed of. 125 aluminum and 2 ½" thick.

COMPLY? .....YES XX NO _____

The inner panel on all exterior compartment and entry doors will be fastened to the extruded doorframe and recessed into the door frame extrusion for a flush finish. Surface mounting of

any interior door panels are not allowed. All fasteners used for the mounting of the interior panels are to have a rubber grommet affixed to the underside of the screw head to prevent the fastener screws from loosening and backing out of the extrusion. The interior door panels shall be readily removable for access to the interior of the door and the latching mechanism.

COMPLY? .....YES XXX NO _____

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

COMPLY? .....YES XX NO _____

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

COMPLY? .....YES XX NO _____

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

The door linkage rods' connecting the door handles and the rotary latches are to be 5/32 steel rods threaded on the turn buckle end. They shall be straight direct pull rods with no bends built into the rods allowed. Adjustments to the entry door linkage rods are to be provided by a turnbuckle located above and below and adjacent to each interior door handle.

COMPLY? .....YES XX NO _____

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

COMPLY? .....YES XX NO _____

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

COMPLY? .....YES XX NO _____

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

COMPLY? .....YES XX NO _____

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

COMPLY? .....YES XX NO _____

All compartment doors will be equipped with a gas strut door stay that holds the door at 90 degrees to the body when open. All gas struts are to be mounted in such a way as to allow for easy access in the event that replacement or repair is required.

COMPLY? .....YES XX NO _____

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

COMPLY? .....YES XX NO _____

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

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

COMPLY? .....YES XX NO _____

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

COMPLY? .....YES XX NO _____

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

COMPLY?..... YES XX NO _____

Rear and side patient compartment doors shall have dark tinted safety glass windows encased in extruded aluminum frames. Each rear door shall have an 18.5" x 17.5" fixed window. The side door shall have an 18.5" x 17.5" slide opening window with screen and window lock.

COMPLY?..... YES XX NO _____

Right side entry door opening 77"H X 31" W **(Note: Door forward layout)**
Rear entry door opening (double door): 62.5"H X 48" W

COMPLY? .....YES XX NO _____

2.9 LICENSE PLATE HOLDER

Installed in the center of the rear kick plate above the rear step bumper there shall be a Cast Products license plate holder. There are to be two LED lights mounted in the holder.

COMPLY? .....YES XX NO _____

3.0 ELECTRICAL SYSTEM

3.1 ELECTRICAL SYSTEM COMPONENTS

A Weldon V-MUX 100% solid-state microprocessor based multiplex system will be installed to control the electrical functions. The system will provide diagnostics lap top plug-in capability. The front console shall contain fifteen (15) PODS buttons with an OLED, text display. The rear panel shall contain twelve (12) PODS buttons. PODS buttons are flexible to be used as latching, multi-level or momentary buttons. A Weldon High Content Node (S) shall be provided. There could be one or more depending upon demand requirements.
A Hanscom camera system will be included with a rear facing camera mounted to the exterior rear of the module along with a forward-facing interior camera mounted above the rear doors. A Hanscom display will be installed in the chassis cab.

A custom chassis console will be provided with dual drink holders. (Design upon bid award)

Comply .....YES XX No_____

3.2 WARNING DISPLAYS

A digital OLED display and audible alarm will be integrated into the cab console and programmed through the multiplex system to provide visual and audible indications for:

Outside storage compartment "door open" warnings
Module Curbside and Rear "Door Open" Warning
Low voltage alarm
System Voltage
System Errors

Comply.....YES XX No_____

3.3 VOLTMETER

The OLED display on the console will display system voltage

Comply .....YES XX No_____

3.4 CONTROL PANEL PODS BUTTONS

A console panel will be mounted in the cab and a rear panel will be mounted in the access door to the electrical service cabinet in the action area. The PODS buttons will control all Emergency Warning functions as well as being able to control the Patient Compartment lighting and module heat/ac functions.

The PODS buttons will have dimmable perimeter backlighting for easy identification and a red LED will light up when turned on.

Comply.....YES XX No____

3.4.1 MODULE POWER BUTTON

A module power button for the electrical system will be provided on the front panel.

Comply.....YES XX No____

3.4.2 EMERGENCY MASTER BUTTON

A single emergency master button will be supplied for activating all the emergency warning lights and will be provided on the front console panel. The emergency master button will activate the module power automatically.

Comply.....YES XX No____

3.4.3 FLASHER

The flasher will be provided within and programmed by the multiplex electrical system.

Comply.....YES XX No____

3.4.4 PARK OVERRIDE

A park override PODS button, located on the Front Console Panel, will reactivate all lights disabled when the transmission is placed in the neutral/park position.

Comply.....YES XX No____

3.4.5 BACKUP ALARM OVERRIDE

The Front Console Panel will have a PODS button to disable the backup alarm. This override will automatically reset to "Enabled" when the vehicle is removed from Reverse.

Comply.....YES XX No____

3.4.6 CURBSIDE SCENE LIGHTS "ON" WITH CURBSIDE DOOR

The curbside scene lights will be programmed to activate when the curbside door is in the open position.

Comply.....YES XX No____

3.4.7 REAR SCENE LIGHTS "ON" WITH REAR DOORS OPEN

The rear scene lights will be programmed to activate when the rear doors are in the open position.

Comply .....YES XX No____

3.4.8 REAR SCENES "ON" IN REVERSE

The system will be programmed to provide activation for the rear scene lights, and the rear side scene lights, when the transmission selector lever is placed into the "reverse" position.

Comply.....YES XX No____

3.5 ELECTRICAL WIRING

All of the vehicle's electrical equipment will be served by circuits separate and distinct from the chassis electrical system. All circuits shall be rated to carry 125% of its maximum load. All electrical wiring will be run in grease, oil, heat and moisture resistant looming. Harnesses will be fastened with vinyl-clad clamps and grommeted at any area they contact a metal edge.

Every load carrying wire will be a minimum of 14-gauge and will be color-coded and heat embossed with its function every 6 inches. There will be at least a 6-inch service loop of wire at the point of attachment to each component. All electrical connections will be machine crimped; the use of Scotch-locks is strictly prohibited.

COMPLY? .....YES XX NO _____

3.6 GROUNDING SYSTEM

Due to the fact that most electrical problems in all 12-volt systems, but especially in emergency vehicles are due to problems with bad grounds, the body will be grounded to the chassis frame with 2 heavy duty braided grounding straps. In addition, there will be grounding straps from the engine block to the body and frame. There is to be a Major Ground Buss Bar in the electrical panel that is connected to the ground straps and frame, and then each individual circuit will have its own ground wire run to that ground buss bar. This will greatly improve the grounding of all circuits in the vehicle and insure less electrical problems.

The Weldon HC NODES shall be ground directly to the chassis batteries to eliminate any interference or possible loss of ground which would result in the shutdown of the entire NODE.

COMPLY? .....YES XX NO _____

3.7 ELECTRICAL SERVICE CABINET

The electrical service panel will be mounted in the electrical service cabinet above the action area and will be easily accessible by activating a single latch allowing the Button POD Panel section to swing down. The V-Mux Node(s) will be located in an easily accessible location in the electrical service cabinet for service technicians to perform troubleshooting and service work. This cabinet must be solely for the electrical system components with a large enough door opening to perform work on the systems completely without removing them from the cabinet.

Under no circumstances will any of the electrical systems be mounted in any exterior compartment. **NO EXCEPTIONS**

COMPLY? .....YES XX NO _____

3.8 12V DC OUTLETS

There shall be two (2) Cigar style 12V DC outlets, one located in the action area, and one above the right In/Out ALS compartment counter.

COMPLY? .....YES XX NO _____

3.9 11OV AC SYSTEM

There shall be a weatherproof 11OV- 125V male Kussmall receptacle rated at 20 amps with a spring-loaded cover assembly located on the front left corner of the module body for incoming 110-volt power. This receptacle shall be labeled. It shall be wired through one 15-amp circuit breaker. A shoreline indicator will be included above the shoreline outlet. The circuit shall include (1) 110-volt/USB interior receptacle located in the action wall area, (1) one rear of the CPR seat above the rear counter, (1) one the bench wall above the In/Out countertop, (1) six outlet power strip inside the In/Out compartment and (1) in the chassis cab behind the passenger street. All outlets shall illuminate per KKK-A-1822-F.

A Vanner Inverter/Conditioner w/remote switch, Model 20-1050-CUL will be supplied

COMPLY? .....YES XX NO _____

3.10 LIGHTING, EMERGENCY

The unit shall be equipped with the following warning lights:

14) Whelen 900 Series 9 x 7 red/blue split LED lights as follows:
- 6) Facing forward
- 4) Facing rearward
- 2) Facing right
- 2) Facing left

1) Whelen Series 9 x 7 clear LED light installed top center forward.
1) Whelen Series 9 x 7 amber LED light installed top center rearward.
2) Whelen 500 Series red LED lights mounted in the Front Fenders.
3) Whelen 500 Series red LED lights mounted in lower corners of entry doors.
4) Whelen 500 Series 500 red LED's in Chrome Housings in the Grill.
6) Whelen LED Strip lights installed in the rub rails. (3) per side.

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

COMPLY? .....YES XX NO _____

3.11 SCENE LIGHTS

There shall be four (4) LED Whelen 900 Series 9 x 7 with 13-degree tilt built into the lenses mounted two (2) lights on the left side and two (2) lights on the right side. There shall be two (2) LED Whelen Series 9 x 7 with 13-degree tilt built into the lenses mounted on the rear. A separate switch on the driver's switch panel shall control each pair. In addition, the right side and rear scene lights shall activate when the right side or rear doors, respectfully, are open.

COMPLY? .....YES XX NO _____

3.12 DOOR SWITCHING

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

COMPLY? .....YES XX NO _____

3.13 SIREN AND SPEAKERS

Two (2) - Sirens shall be installed Whelen Model 295 SL SA-1 with Wail, Yelp, Hi/Lo and Phaser sounds, the second siren may be switch controlled with wail/yelp. Dual Cast Products Siren Speakers shall be mounted outboard in the face of the Chrome Front Bumper, below the Headlights, in cast aluminum housings. One speaker per siren.
COMPLY? .....YES XX NO _____

3.14 SPOTLIGHT

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

COMPLY? .....YES XX NO _____

3.15 LIGHTS, PATIENT COMPARTMENT

The ceiling headliner shall contain eight (9) Whelen High - Low intensity LED dome lights. The left and right banks of lights shall be switched separately. In addition, the left bank high mode can be switched from the drivers switch panel and will be activated by opening of the side or rear entry doors. There shall be a timer switch installed in the right wall above the In/Out cabinet countertop. The timer switch will allow the left bank of Dome Lights to turn on even when the master switch is in the off position.

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

COMPLY? .....YES XX NO _____

3.16 CLOCK, PATIENT COMPARTMENT

A battery-powered Atomic Digital Clock w/Indoor Temp. & Date. 12/24 Hour display, Automatic updates for time (including DST), month, day, date Calendar.

COMPLY? .....YES XX NO _____

3.17 SUCTION - ON BOARD

An SSCOR/Board On Board suction system with an Impact E-12 Suction Pump shall be provided and mounted on the back wall above the action area counter top just forward of the CPR Seat.

COMPLY? .....YES XX NO _____

3.18 VENTILATION

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

COMPLY? .....YES XX NO _____

3.18 a AIR HORNS

Buell air horns with (2) mounted trumpets, air compressor, and air reserve tank. Air horn activated by rocker switch on the console. Trumpet location to be determined with award.

3.19 LOW VOLTAGE ALARM

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

COMPLY? .....YES XX NO _____

3.20 SWITCH CONSOLE, DRIVER'S

There shall be a switch console mounted in the center of the cab floor between the seats in such a way as to not interfere with access to the dash yet easily accessible to the driver. The console shall be easily removable to allow access for service. There shall be space provided for the installation of radios below the Weldon V-Mux Switch Panel. The switch panel shall be esthetically appealing and incorporate as follows:

Top Row:
"E" Master Switch / Primary/Secondary / Light Bar / Heat - AC / Patient Domes / Mod Power

Second Row:
"OLED" Display Screen / Back up Alarm Disable / Voltage Alarm Disable

Third Row:
Door Ajar Light / Compartment Ajar Light

Bottom Row:
Emitter / Siren - Horn / Left Scenes / Rear Scenes / Right Scenes

COMPLY? .....YES XX NO _____

3.20.1 SWITCH CONSOLE, PATIENT COMPARTMENT

There shall be (2) rear control panels in the patient compartment. (1) one in the action area, (1) one on the bench wall. The following switches shall be in the rear control panel, which shall be hinged for easy access to components. They shall be mounted in a double row at an angle facing the center of the cot and the squad bench.

Top Row:
Mod Power / Left Domes / Right Domes / O2 Light / Attendant Light

Bottom Row:
Inverter / Suction / Exhaust Fan / HVAC Fan Speeds / Heat - AC

COMPLY? .....YES XX NO _____

All switches in front and rear panels shall be Weldon Button Pod switches that are permanently marked by function, illuminate when activated and backlit for night visibility.

COMPLY? .....YES XX NO _____

4.0 PATIENT COMPARTMENT

4.1 FLOOR, PATIENT COMPARTMENT

The sub floor shall consist of .090" thick 3003 H14 corrosion resistant aluminum sealed watertight. Over the aluminum sub-floor there shall be a sheet of ¾", 13 ply, exterior grade plywood that is caulked and sealed.

COMPLY? .....YES XX NO _____

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

COMPLY? .....YES XX NO _____

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

COMPLY? .....YES_____ NO _____

4.2. CABINET'S, INTERIOR

All interior cabinets shall be built using ¾" cabinet grade, finished both sides, 7 ply, solid core, birch plywood. The use of plywood of any lesser quality or thickness is strictly prohibited.

COMPLY? .....YES XX NO _____

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

COMPLY? .....YES XX NO _____

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

Interior cabinets to be lighted with On/Off switch in control panels.

COMPLY? .....YES XX NO _____

4.2.1 CABINETS, LEFT WALL

Cabinets shall be designed as per drawings with a one-piece molded Fiberglass countertop for the attendant in the action area and rear of the CPR seat. Storage cabinets shall be located in the left rear, above the CPR seat, and above the action area. The cabinet above the action area will have the same angle front to back as the cabinet with the switch panel. Cabinets fore and aft of the CPR seat to be angled. (2) Two cabinet to have tilt up speed load cabinet windows. Track type adjustable shelving in interior cabinets.

(2) Two pull out drawers for general storage installed fore and aft of the CPR seat. (1) 20" W x 7" T forward of the CPR seat and (1) 20" W x 4" T rear of CPR seat.

COMPLY? .....YES XX NO _____

The action wall shall house the technician's console, two oxygen outlets, vacuum outlet, aspirator collection bottle, climate control thermostat and fan control, one 12-volt connection and one lighted 110V/USB duplex outlet. The upper action wall area shall be hinged for ease of access. The action area counter to be extended to 73".

A locking narcotics cabinet will be installed in the action area

COMPLY? .....YES XX NO _____

4.2.2 BULKHEAD CABINETS

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

The bulkhead shall incorporate a pass-through Plexiglas sliding window from the rear patient compartment to the front cab. This window shall be sealed and weatherproof via a flexible rubber boot connection between the cab and the modular body.

COMPLY? .....YES XX NO _____

4.2.3 SQUAD BENCH CABINETS

Cabinets shall be mounted at the ceiling level directly over the entire length of the squad bench. They shall have "flip-up" Plexiglas doors. There must be a minimum of 43" from the bottom of these cabinets to the top of the squad bench. An angled switch panel shall be installed forward of the bench. A 26" W x 14" T X 21" D cabinet with a tip up door and Southco latch will be installed above the In/Out cabinet.

A (4) slot glove storage will be installed above the side entry door.

A custom In/Out cabinet will be installed forward of the squad bench, it shall include a fiberglass counter top, adjustable shelf and a slid-out drawer that slids toward the rear.

COMPLY? .....YES XX NO _____

4.2.4 SQUAD BENCH

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

COMPLY? .....YES XX NO _____

4.3 SEAT, EMT / ATTENDANT

An attendant seat shall be located at the head of the primary cot. It shall be a high back deluxe seamless vinyl captain's chair with an integrated child safety seat mounted on a swivel base as approved by the seat manufacturer. Seat belt shall be included for attendant safety.

COMPLY? .....YES XX NO _____

4.3.1 CPR Seat Cabinet

A single cabinet shall be mounted at the ceiling level directly over the entire length of the CPR seat. It shall have a "flip-up" style Plexiglas door. There must be a minimum of 43" from the bottom of this cabinet to the top of the CPR seat cushion.

The action wall shall house the technician's console, two oxygen outlets, vacuum outlet, aspirator collection bottle, climate control thermostat and fan control, one 12-volt connection and one lighted 110V/USB duplex outlet. The upper action wall area shall be hinged for ease of access. The action area counter to be extended to 73".

A locking narcotics cabinet will be installed in the action area

COMPLY? .....YES XX NO _____

4.2.2 BULKHEAD CABINETS

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

The bulkhead shall incorporate a pass-through Plexiglas sliding window from the rear patient compartment to the front cab. This window shall be sealed and weatherproof via a flexible rubber boot connection between the cab and the modular body.

COMPLY? .....YES XX NO _____

4.2.3 SQUAD BENCH CABINETS

Cabinets shall be mounted at the ceiling level directly over the entire length of the squad bench. They shall have "flip-up" Plexiglas doors. There must be a minimum of 43" from the bottom of these cabinets to the top of the squad bench. An angled switch panel shall be installed forward of the bench. A 26" W x 14" T X 21" D cabinet with a tip up door and Southco latch will be installed above the In/Out cabinet.

A (4) slot glove storage will be installed above the side entry door.

A custom In/Out cabinet will be installed forward of the squad bench, it shall include a fiberglass counter top, adjustable shelf and a slid-out drawer that slids toward the rear.

COMPLY? .....YES XX NO _____

4.2.4 SQUAD BENCH

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

COMPLY? .....YES XX NO _____

4.3 SEAT, EMT / ATTENDANT

An attendant seat shall be located at the head of the primary cot. It shall be a high back deluxe seamless vinyl captain's chair with an integrated child safety seat mounted on a swivel base as approved by the seat manufacturer. Seat belt shall be included for attendant safety.

COMPLY? .....YES XX NO _____

4.3.1 CPR Seat Cabinet

A single cabinet shall be mounted at the ceiling level directly over the entire length of the CPR seat. It shall have a "flip-up" style Plexiglas door. There must be a minimum of 43" from the bottom of this cabinet to the top of the CPR seat cushion.

COMPLY? .....YES XX NO _____

4.3.2 SEAT, CPR

A sidewall seat will be mounted in the center of the left wall. This seat will be comprised of three molded/contoured seamless vacuum formed vinyl cushions. A seat belt shall be provided for attendant safety. Cushions shall be vacuum-formed seamless. One-inch cushions shall be installed on three sides of head area.

COMPLY? .....YES XX NO _____

4.4 UPHOLSTERY

All door panels, seat cushions, and protective pads shall be constructed of fire-retardant foam, covered with minimum 40-ounce vinyl. All seat and back cushions in the patient compartment shall be vacuum-formed seamless.

COMPLY? .....YES XX NO _____

4.5 HEADLINER

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

COMPLY? .....YES XX NO _____

4.6 PANELING, INTERIOR

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

COMPLY? .....YES XX NO _____

4.7 GRAB RAIL, OVERHEAD

A full-length yellow handicap style 1 1/2" diameter grab rail shall be installed on patient compartment ceiling. This rail shall be capable of supporting a minimum of 300 pounds. This Rail shall be treated with Agion Anti-Bacterial Coating.

COMPLY? .....YES XX NO _____

4.8 GRAB HANDLES, DOORS

All entry doors will have a matching yellow heavy-duty stainless-steel handicap style 1 1/2" "V" bar grab handle that will be securely mounted slightly below the window. These Bars shall be treated with Agion Anti-Bacterial Coating.

A yellow 12" grab bar will be installed inside of the side entry and rear doors to allow ease of entry.

COMPLY? .....YES XX NO _____

4.9 STAINLESS STEEL WALL

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

COMPLY? .....YES XX NO _____

4.10 COT MOUNT

A Stryker floor plate shall be installed. A Stryker Mass casualty kit, Antlers and cot latch will be supplied.

COMPLY? .....YES XX NO _____

4.11 INSULATION

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

COMPLY? .....YES XX NO _____

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

COMPLY? .....YES XX NO _____

4.12 CLIMATE CONTROL

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

COMPLY? .....YES XXXX NO _____

The unit shall be a Pro-Air with 32,000 BTU cooling capacity and a 35,000 BTU heating capacity. The blower motor shall have permanent magnets and be capable of delivering 630 CFM of airflow. It must be removable without removing entire heat/cool unit and without disconnection of any coolant lines. The unit must include an auxiliary HVAC underskirt condenser. **NO EXCEPTIONS**

COMPLY? .....YES XX NO _____

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

COMPLY? .....YES XX NO _____

4.13 SHARP'S CONTAINER

Drop-in Sharp's/Waste access will be installed at the head of the bench with access to containers through a swing out door under the bench lid for ease of replacing.

COMPLY?..... YES XX NO _____

4.13 a ADU UV-C AIR AND SURFACE DISINFECTION LAMP

SHALL BE RECESSED MOUNTED IN THE CEILING HEADLINER WITH CONTROLS MOUNTED IN THE CAB OF THE AMBULANCE. **YES XX**

4.14 OXYGEN OUTLETS

Oxygen system shall be plumbed with conductive hose from oxygen compartment to (2) two Puritan-Bennett Ohio style oxygen outlets in the action area, (2) two in the ceiling above the cot and a third over the In/out counter on the bench wall.

COMPLY? .....YES XX NO

5.0 EXTERIOR BODY

5.1 REAR WHEEL WELL TRIM

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

COMPLY? .....YES XX NO _____

5.2 RUB RAILS

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

COMPLY? .....YES XX NO _____

5.3 BUMPER, REAR STEP

The rear step assembly shall be constructed of 1 ¾" X 1 3/4" tubular steel frame bolted to the chassis frame. The center section shall be non-skid grip strut aluminum and shall "Flip-Up" to allow adequate clearance of the Cot Wheels while Cot is being loaded. The ends shall be constructed of diamond plate end caps with 18" X 4" X 4" heavy-duty rubber dock bumpers.

COMPLY? .....YES XX NO _____

5.4 DOORSTEP, SIDE

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

COMPLY? .....YES XX NO _____

5.5 STONE SHIELDS

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

COMPLY? .....YES XX NO _____

5.6 EXTERIOR COMPARTMENT CONFIGURATION

NOTE: See Drawings for Exact Compartment Location and Dimensions

#1 OXYGEN / BACKBOARD COMPARTMENT

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

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

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

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

COMPLY? .....YES__XX__NO _____

#2 GENERAL STORAGE COMPARTMENT

This compartment shall be located street side between the #1 compartment and the left side drive wheels and is to be used for general storage. There is to be a double door on this compartment.

There shall be a full width, full depth aluminum "pan" style storage shelf installed in the compartment. The shelf is to be mounted on two (2) sets of infinitely adjustable uni-strut tracks at each end of the shelf with rubber matting covering the topside of the shelf.

COMPLY? .....YES__XX__NO _____

#4 SPARE TIRE COMPARTMENT

The spare tire shall not be mounted in a compartment but delivered with the truck. The cabinet shall have an adjustable shelf centered in the cabinet for general storage.

COMPLY? .....YES__XX__NO _____

#5 CURBSIDE BACKBOARD COMPARTMENT

The right rear curb side exterior compartment shall be a single door full height vertical compartment for the purpose of storing a minimum of two (2) backboards, and miscellaneous other related equipment. The compartment is to be divided equally with an aluminum divider. There shall be a shelf located on the forward side of the divider approximately 5' above the floor. This compartment to have In/Out Access through a 3/8" plexi door.

COMPLY? .....YES XX NO _____

#7 ALS IN/OUT ACCESS

There shall be a single 49" tall x 29" W door located just rear of the side entry door (curbside) allowing for In/Out access to the ALS interior cabinet.

COMPLY? .....YES XX NO _____

5.7 LIGHTING, DOT

The vehicle shall be equipped with jewel affect daytime running headlights and two amber park/turn lights on the front. The Module Body shall have at least 11 Innovative Brand LED clearance lights with "each light having four (2) LED's and grounded via a ground wire". Each top front corner shall have amber lights mounted on the front and side of each corner.

There shall be three red lights at the top rear center of the module. Each top rear corner shall have red lights mounted on the rear and side of each corner. There shall be three amber lights mounted on the center front of the cab roof.

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

All lights shall be as per I.C.C. requirements.

COMPLY? .....YES XX NO _____

6.0 BODY FINISH

6.1 PAINTING PROCEDURE

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

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

COMPLY? .....YES XX NO _____

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

COMPLY? .....YES XX NO _____

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

COMPLY? .....YES XX NO _____

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

COMPLY? .....YES XX NO _____

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

COMPLY? .....YES XX NO _____

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

COMPLY? .....YES XX NO _

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

COMPLY? .....YES XX NO _____

6.2 PAINT & GRAPHICS DESIGN

The unit is to match the paint and graphics of the current Independence Fire Department fleet.

Chevrons will be included on smooth aluminum plates to the lower portion of the module entry doors.

COMPLY? .....YES XX NO _____

7.0 PAYLOAD

7.1 PAYLOAD

There shall be a minimum of 5,000 lbs. of usable payload. Weight determination shall be made with standard unit, full complement of fuel, fluids and spare tire. Any optional equipment shall be deducted from payload.

COMPLY? .....YES XX NO _____

8.0 MISCELLANEOUS EQUIPMENT

8.1 DECALS, NO SMOKING & OXYGEN EQUIPPED

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

COMPLY? .....YES XX NO _____

8.2 I.V. HOLDERS

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

COMPLY? .....YES_XX_NO _____

8.3 ANTENNA, POWER & GROUND PRE-WIRE

(3) two pre-wire antenna coaxial cables delivered to the drivers switch console. There shall be a raceway provided to be able to run radio cable from the cab to the patient compartment. (3) NMO style antenna mounts will be installed in the module roof.

(3) Power and grounds will be installed for power of two-way radios.

COMPLY? .....YES_XX_NO _____

8.4 WIRING SCHEMATIC

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

COMPLY? .....YES_XX_NO _____

STEREO SPEAKERS

Stereo Speakers will be installed in the rear area of the headliner tied into the factory chassis stereo system with a volume control installed in the action area.

COMPLY? .....YES_XX_NO _____

9.0 WARRANTY

9.1 WARRANTY COVERAGE (See Warranty Certificate for Details)

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

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

COMPLY? .....YES_XX_NO _____

10.0 REQUIREMENTS OF THE MANUFACTURER

10.1 KKK-A-1822-F CERTIFICATION

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

COMPLY? .....YES_XX_NO _____

10.2 FORD QVM PROGRAM

This unit shall meet all Ford QVM Program requirements and the manufacturer shall be a current member in good standing of the Ford QVM Program.

COMPLY? .....YES_XX_NO _____

10.3 AMD / NTEA MEMBERSHIP

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

COMPLY? ..... YES XX NO _____

10.4 REMOUNTING AND REFURBISHING

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

COMPLY? ..... YES XX NO _____

10.5 FORD POOL ACCOUNT PROGRAM

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

COMPLY? ..... YES XX NO _____

POSITIVELY NO EXCEPTIONS ALLOWED TO SECTION'S 9.1 THROUGH 10.5

REFERENCES

EMERGENCY SERVICES SUPPLY
2637 Drew Perry Road
Jefferson City, MO 65109

REFERENCES

Salina Fire Department
Salina, KS
Shane Pearson, EMS Division Chief
785-826-7340
Type I Osage's

Neosho Memorial Regional Medical Center
Chanute, KS
Trace Hallack, Director
620-431-4000
Various Osage models / New & Remount

City of Independence, KS EMS
Independence, KS
David Cowan, Public Safety Director
620-330-0056
Various Osage models / New, Type II, Remount

Crawford Co, KS EMS
Girard, KS
Randy Sandberg, EMS Director
620-231-3344
Various Osage Models

Concordia Fire Department
Concordia, KS
Eric Voss, Fire Chief
785-243-4411
Various Osage models

Mulvane KS EMS
Mulvane, KS
Pete Swart, EMS Captain
316-777-1551
Various Osage models

Wellington KS Fire Department
Wellington, KS
Fire/EMS Chief Tim Hay
620-326-7443
Various Osage models

Ford County KS Fire
Dodge City, KS
Chief Rob Boyd
620-227-4638
Various Osage models

Finney County KS EMS
Garden City, KS
Skylar Sword, EMS Director
620-272-3822
Various Osage Models

CERTIFICATIONS

30 YEARS

FORD MOTOR COMPANY

IS PROUD TO RECOGNIZE

OSAGE AMBULANCES

FOR YOUR COMMITMENT & DEDICATION AS A
CONTINUOUS 30 YEAR PARTICIPANT IN THE

AMBULANCE
QUALIFIED VEHICLE MODIFIER PROGRAM

QUALIFIED VEHICLE MODIFIER

Randy Freiburger – QVM Programs
JUNE , 2018

WARRANTY

Emergency Vehicle Limited Warranty

TYPE I & III MODULARS

Subject to limitations, provisions and conditions set forth in this Warranty, Osage Industries, Inc. does hereby warrant to each Original Purchaser Only that each new vehicle conversion is free from defects and workmanship and materials used in the construction of a production model emergency vehicle for a period as follows:

A. **PRODUCT CONVERSION WARRANTY**
For **THREE 3 years or 36,000 miles**, whichever comes first, from the date of the original purchase. Osage Industries, Inc. will repair or replace, at no cost to purchaser, only those components manufactured by Osage Industries, Inc. for use in a production vehicle and excludes components from other manufacturers used in such conversions; i.e. sirens, inverters, lightbars, oxygen equipment, auto eject, siren drivers and chassis, etc. Individual warranties are covered by those manufacturers included in the Owner's Manual as supplied with the vehicle and shall apply as set forth by said manufacturer. Osage will only reimburse labor up to (3) years on those components with more than a (3) year warranty.

B. **ELECTRICAL WARRANTY**
For **SIX (6) years or 72,000 miles**, whichever comes first, from the date of the original purchase, Osage Industries, Inc. will cover the cost of labor and material, in the repair or replacement of the electrical systems furnished and installed by Osage Industries, Inc. This warranty shall include switch panels, electrical harnesses (and the installation), printed circuit boards and general design concept used by Osage Industries, Inc. at the time of manufacture. This warranty shall not apply to any electrical equipment furnished and warranted by other manufacturers. All other components are excluded from the coverage of this limited electrical warranty. **Extended Warranty if Purchased:** For up to **Seven 7 years or 100,000 miles** on electrical stated above.

C. **ALUMINUM MODULE BODY AND INTERIOR ALUMINUM CABINET STRUCTURE**
Lifetime warranted to the original purchaser, on the original chassis. This warranty can be transferred onto a new chassis, providing the remount is performed by Osage. At that time, Osage will thoroughly inspect and repair, if needed. Door Hardware, Cabinet Finish and Latches are warranted for a period of Three (3) years or 36,000 miles, whichever comes first from date of original purchase for defects under normal use; this does not include adjustments.

D. **PAINT WARRANTY 5 YEARS OR 100,000 MILES**
Complete, NON-PRO RATED warranty covers paint finish, corrosion and blistering of the ambulance body. Warranty covers the cost of parts and labor. Unless installed by Osage, lettering and graphics replacement due to paint failure will not be covered. Warranty is dependent on agreement by both parties (purchaser and seller) that failure is due to a manufacturing defect.

E. **GRAPHICS WARRANTY 3 YEARS OR 36,000 MILES**
Osage warrants its graphics and lettering package to be free from defects in material and workmanship for **three (3) years or 36,000 miles.** Warranty covers cost of parts and labor. Osage will not be liable for more than the amount of the purchase price of the graphics package.

F. **BLACK OUT ITEMS - (PARTS SPRAYED WITH SCORPION LINER) 1 year or 12,000 miles**
Osage warranties blackout items, for **one 1 year or 12,000 miles,** whichever comes first, against adhesion failure of the scorpion liner to the item sprayed. This excludes fading, chipping, rub marks and scratches.

The above warranties are conditioned upon normal use and reasonable maintenance and do not apply to any components, which have been subject to abuse, accident, alteration, vandalism, and improper or careless use. Any modification of any description made to any components on the conversion, without written approval by Osage Industries, Inc. shall void the warranty of said system and components parts.

Prompt written notice of all defects or claims against Osage shall be forwarded to Osage Industries, Inc., P.O. Box 718, Linn, Missouri (MO) 65051, or by calling at 800-822-3634. No repairs or additions shall be performed without prior approval from Osage Industries, Inc. Osage Industries, Inc. reserves the right to reject unauthorized claims and its decision in these matters shall be final.

If warranty repairs are necessary, all work must be performed by Osage Industries, Inc. or repair center authorized by Osage Industries, Inc. It is the responsibility of the purchaser to transport vehicle to and from Osage Industries, Inc., Linn, Missouri (MO), or repair center authorized by Osage Industries, Inc. for warranty repairs. Osage is not responsible for any loss or damage that may occur during said transportation.

Any expressed warranty not provided herein and any remedy for breach of contract which might arise by implication or operation of law, is hereby excluded and disclaimed. The implied warranties of merchantability and fitness for any particular purpose are expressly limited to the terms stated above. Some states do not allow limitations on how long an implied warranty lasts. Therefore, the above limitations may not apply to you. Osage is not responsible for any loss or damage that may occur during said transportation.

Under no circumstances shall Osage Industries, Inc. be liable to purchaser or any other person for any special or consequential damages, whether arising out of breach of warranty, breach of contract, or otherwise. Some states do not allow the exclusion or limitation of incidental or consequential damages. Therefore, the above limitations or exclusions may not apply to you.
This Warranty gives you specific legal rights, and you may have other rights, which vary, from state to state.

STRYKER SPEC'S

stryker

INDEPENDENCE_OSAGE

Quote Number: 10247457

Version: 1

Prepared For: INDEPENDENCE EMS

Attn:

Remit to: **Stryker Medical**
P.O. Box 93308
Chicago, IL 60673-3308

Rep: Bryce Wheeler

Email: bryce.wheeler@stryker.com

Phone Number:

Quote Date:

Expiration Date:

Delivery Address		**End User - Shipping - Billing**		**Bill To Account**	
Name:	INDEPENDENCE EMS	Name:	INDEPENDENCE EMS	Name:	EMER SVCS SUPPLY
Account #:	1067189	Account #:	1067189	Account #:	1110355
Address:	120 N 6TH 225 E MAIN	Address:	120 N 6TH 225 E MAIN	Address:	2637 DREW PERRY RD
	INDEPENDENCE		INDEPENDENCE		JEFFERSON CITY
	Kansas 67301		Kansas 67301		Missouri 65109-6335

Equipment Products:

#	Product	Description	Qty	Sell Price	Total
1.0	6370000000	Floor Mount Cot Fastener	1	$658.92	$658.92
1.1	6370230010	Floor Mount Assy			
1.2	6360020000	Standard Rail Option			
1.3	6370109001	Ambulance Cot Fast OPS Manual			
1.4	6390041000	HW TO INSTL ANTLER UNIV FLR PL			
1.5	7777881660	1 year parts, labor & travel			

Equipment Total: $658.92

Price Totals:

Grand Total: $658.92

Prices: In effect for 60 days.

Terms: Net 30 Days

Ask your Stryker Sales Rep about our flexible financing options.

Stryker Medical - Accounts Receivable - accountsreceivable@stryker.com - PO BOX 93308 - Chicago, IL 60673-3308

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AUTHORIZED CUSTOMER SIGNATURE

Deal Consummation: This is a quote and not a commitment. This quote is subject to final credit, pricing, and documentation approval. Legal documentation must be signed before your equipment can be delivered. Documentation will be provided upon completion of our review process and your selection of a payment schedule.

Confidentiality Notice: Recipient will not disclose to any third party the terms of this quote or any other information, including any pricing or discounts, offered to be provided by Stryker to Recipient in connection with this quote, without Stryker's prior written approval, except as may be requested by law or by lawful order of any applicable government agency.

Terms: Net 30 days. FOB origin. A copy of Stryker Medical's standard terms and conditions can be obtained by calling Stryker Medical's Customer Service at 1-800-Stryker.

In the event of any conflict between Stryker Medical's Standard Terms and Conditions and any other terms and conditions, as may be included in any purchase order or purchase contract, Stryker's terms and conditions shall govern.

Cancellation and Return Policy: In the event of damaged or defective shipments, please notify Stryker within 30 days and we will remedy the situation. Cancellation of orders must be received 30 days prior to the agreed upon delivery date. If the order is cancelled within the 30 day window, a fee of 25% of the total purchase order price and return shipping charges will apply.