

DETAILED SPECIFICATIONS
FOR
CENTRAL LYON FIRE
DAYTON, NEVADA

1 **CHASSIS**

1.01 **OEM CHASSIS**

- 2026 or 2027 Ford F-550 XLT, Regular Cab 4 x 4, meeting all the specifications of Section 1.01. (**Note: Chassis is subject to model year changes**)
 - Ambulance Prep. Package with EPA Special Emergency Vehicle Emmissions (47L)
 - 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. – 18,000 lb
- Rear Axle – 13,660 lb
- Wheelbase – 193"
- Cab to Axle – 108"
- Front Spring Capacity – 7,000 lb
- Rear Spring Capacity – 13,660 lb
- Rear Differential – 4.10 ratio, limited slip wide track rear axle

1.01.02**POWER TRAIN**

- Engine
 - 6.7L Power Stroke V8 turbo diesel B20
 - Diesel Emission Fluid (DEF) system with operator-commanded regeneration
 - Exhaust brake
 - External oil cooler
 - Factory diesel package
 - Engine block heater
 - Heavy duty dry type air cleaner with flow restriction indicator
- Engine Cooling System
 - Heavy duty, closed-air, free-liquid state type
 - Coolant recovery system
 - 50/50 solution Permanent type antifreeze to –34 degrees F
- Transmission
 - TorqShift 10-speed automatic transmission with selectable drive modes (Normal, Eco, Slippery Roads, Tow/Haul)
 - External oil cooler in chassis grille area
 - 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
- Manual Tilt and telescoping steering wheel/column

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
- Trailer brake controller

1.01.06X**TIRES AND WHEELS**

- Six OEM LT 225-70R-19.5G all-purpose steel belted radials
- Four OEM forged polished aluminum outer wheels with bright hub cover/center ornaments, two OEM painted inner steel wheels
- Spare tire and wheel shipped loose
- OEM jack and tire changing tools

1.01.07**ELECTRICAL**

- Alternators – OEM Dual rated at 410 Amps total
- Batteries – OEM Dual 750CCA 68AH/Group 65 AGM
- Stationary Elevated Idle Control

1.01.08X INSTRUMENT PANEL AND CONTROLS

- Gauges
 - Speedometer
 - Tachometer
 - Engine Coolant Temperature
 - Transmission Fluid Temperature
 - Turbocharger Boost
 - Fuel Level
 - Indicator lights
 - Odometer/Trip Odometer
- Tire Pressure Monitoring System
- Cruise Control, with steering mounted controls
- Audio – OEM AM/FM with MP3
- SYNC 4 - 8" touchscreen in center stack
- 4.2" LCD Productivity Screen in IP Cluster with compass display
- Ford Pass® Connect 5G Wi-Fi Modem
- Ford Co-Pilot 360
 - Audible Lane Departure Alert
 - Pre-collision Assist with Automatic Emergency Braking
- Rearview Camera and Prep Kit

1.01.09 CAB EXTERIOR

- Trim Level – XLT
- Bumper – Chrome
- Grille – Bright chrome
- Tow Hooks – Two Front
- Mud Flaps – Two Front
- Horn – OEM dual electric
- Windows – Solar Tinted
- Windshield wipers – Two-speed electric, washer and intermittent speed control
- Mirrors
 - Two black manually telescoping trailer tow
 - Power, heated glass, upper portion
 - Turn indicators and clearance lights on outside edge
 - Lower portion convex
- Lights
 - Headlamps – Auto On/off, Quad-beam halogen
 - Roof clearance lights
 - Daytime running lamps
 - Halogen fog lamps
- 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
- Other
 - Dome light, with dual map lights
 - Auxiliary 12VDC powerpoint
 - Interior hood release
 - Power door lock & windows
 - Remote keyless entry w/Anti-Theft

1.01.11**COLORS**

- Exterior – Race Red
- Interior – Medium Dark Slate

1.02 CHASSIS MODIFICATIONS

The following modifications will be made to the chassis by Braun Northwest.

1.02.04 EXHAUST HEAT SHIELDS

Heat shields shall be installed beneath the module floor in all areas where exhaust system components are within 10" of the floor.

1.02.05G RUNNING BOARDS

Running boards made of 0.125" bright aluminum diamond plate with Grip Strut inserts embedded in the step surfaces for a Ford F-550 Regular cab shall be securely mounted on both sides of the chassis with OEM fasteners.

1.02.07B AUTO THROTTLE

The OEM high idle feature shall be configured to automatically adjust the throttle based on demand for patient compartment heat or air conditioning.

1.02.08B RECOVERY EYES

Two rear recovery eyes, rated at 10,000 lb per pair, shall be installed in 6.75"W x 6.75"H x 4.375"D recessed pockets (Section 4.06 related). Eyes shall be 1.8125"D, bolted to frame. These eyes shall not be used for towing or lifting of emergency vehicle.

1.02.09 MUD FLAPS

Mud flaps with the "NORTH STAR" logo shall be installed behind each rear wheel.

1.02.11X AIR HORN

Two Buell air horns shall be installed behind the chassis running boards. One Buell #1061 10" horn curbside and a Buell #1062 12" horn streetside.

The compressor shall be installed with a perforated surround in Compartment #2 on the forward wall above the adjustable shelf (Section 2.08 related). An air tank shall be installed between the frame rails aft of fuel tank. A toggle style disable switch shall be installed in Electrical Cabinet #11 for ease of maintenance. Horn shall be controlled by a plunger-style switch with a rubber boot and have a placard labeled "AIR HORN" on the driver's console. (Section 6.09 related).

Air horn activation switch shall be ignition interlocked.

1.02.14 SUSPENSION

A LiquidSpring rear suspension system shall be installed, with a kneeling feature to activate when the rear streetside patient compartment entrance door opens within 60 minutes of the chassis ignition being turned off.

An override switch labeled "DUMP OVERRIDE" shall be installed on the curbside rear wall, accessible from rear curbside door.

The LiquidSpring control panel shall be installed on the chassis dash to the left of the steering wheel.

1.02.17 CHASSIS FRAME EXTENSIONS

A 10"H frame extension shall be welded to each OEM frame rail to provide rear lateral and bumper support and to provide a step height of 13.5" from the bumper to the module floor.

1.02.18B AFTERMARKET BUMPER/GRILLE GUARD

A Buckstop Classic aftermarket bumper/grille guard combo with OEM fog light cutouts shall be covered with black polyurea thermoplastic elastomer and installed on the front of the chassis (Section 3.04.01 related).

(Note: Bumper/grille is subject to change based on chassis model year changes)

The following shall be installed on the aftermarket bumper/grille guard combo:

- Four Whelen #I2CSMD Clear Lens Red/White Super-LED flashers with chrome housings: two upper and two lower (Section 6.30.08 related)
- Two Whelen #SA315 100-watt speakers with mounting brackets (Section 6.30.10 related)
- One 20" Whelen #FSB03B Super-LED Brow lightbar with black housing and mounting bracket (Section 6.33 related, not shown in drawings)
- Two Rigid 86610 65 degree scene lights shall be mounted on the aftermarket bumper one on each vertical bar outboard, center. Lights shall be controlled by the "DRIVING LIGHTS" switch on the driver's console.

1.02.31C STATION EXHAUST

A MagneGrip 5" tailpipe adapter shall be installed on the OEM exhaust to allow connection to customer's MagneGrip station exhaust system.

1.02.35A KEYS

Two additional vehicle key fobs shall be added to OEM vehicle remote keyless system for a total of four. Fobs shall be shipped loose (Section 8.01 related).

1.02.36B AUXILIARY COMPRESSOR

A TM-21 auxiliary air conditioning compressor kit shall be added to the OEM engine (Section 5.17 related).

1.02.43 CHASSIS MISCELLANEOUS

The driver's and passenger's windows shall be dark-tinted (Section 3.04.02 related).

One 2"H black seatbelt-type straps with footman loops shall be installed center of each chassis door frame to protect the door from excessive overtravel.

1.02.60 CAB CONDUIT

A 5.5" cab conduit shall be installed between the cab and module 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.

1.03.02A 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 polyurea thermoplastic elastomer, with a 16"W x 12.5"H opening on the cab side with a sliding clear 0.25" polycarbonate window and an extruded aluminum door pull, a 16"W x 15"H opening on the module side, and a stainless steel cover to protect the bottom of the pass-thru (Sections 2.13 and 3.04.01 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

<u>EXTRUSIONS</u>	<u>SIZE</u>	<u>ALLOY</u>
Structural Tubing	1" x 2" x 0.125" sq.	6063-T52
Structural Tubing	2" x 2" x 0.125" sq.	6063-T52
Cross Members	3" x 3" x 0.375"	6061-T6
Cross Members	1.5" x 0.25"	6061-T6
<u>FORMED SHEETING</u>	<u>SIZE</u>	<u>ALLOY</u>
Skin/Roof/Compartments/Subfloors/Doors	0.125"	5052-H32
Interior Cabinets	0.090"	5052-H32
Diamond Plate	0.125"/0.08"	3003-H22
Stainless Steel	16 ga., 20 ga.	304 # 4B

2.02

MODULE DIMENSIONS

Drop Skirt	4.00 "
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Overall Vehicle Dimensions (Specifications are listed as minimums.)

Length	26 '	1.125 "	313.13 "
Width (excluding mirrors)	8 '	0 "	96.00 "
Height (Approximate)	9 '	6.25 "	114.25 "

Exterior Module Dimensions (Specifications are listed as minimums.)

Length	14 '	3 "	171.00 "
Width	8 '	0 "	96.00 "
Height	7 '	8.375 "	92.38 "

Interior Dimensions (Specifications are listed as minimums.)

Length	Forward Wall to Rear Wall	166.00 "
Width	Left Wall to Right Wall	91.00 "
Floor Width	Left Cabinets to Squad Bench	50.25 "
Height	Floor to Ceiling	72.00 "

Load Height (Approximate)	37.00 "
With suspension dumped	33.00 "

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.

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 aluminum track securely welded to compartment interiors. Each shelf shall support at least 300 lb of equipment.

COMPARTMENT #1

Interior Dimensions – 25"W x 66"H x 20"D

Doorway Dimensions – 25"W x 66"H

Location – Streetside, forward

Shelving – None

Door(s) – Single

Light(s) – One LED strip light (Section 6.26 related)

Additional Instructions –

- A Zico QR-MV-2 QUIC-RELEASE multiversal oxygen cylinder bracket shall be installed on the back wall, aft for a *customer-supplied-and-installed* H or M-size cylinder (Section 4.10 related).
- A slide-out tool board with 20" slides, grab hole, gas shock, bracket and strap shall be installed forward of cylinder, for storage of a *customer-supplied-and-installed* Stryker stair chair (Section 4.27 related).
- A vent with MERV 8 polyester filter media and a hex-punched stainless steel cover shall be installed on the forward wall.

COMPARTMENT #2

Interior Dimensions – 42"W x 42"H x 20"D

Doorway Dimensions – 46"W x 42"H

Location – Streetside, forward of wheel well

Shelving – One adjustable

Door(s) – Double

Light(s) – Two LED strip lights, one on each side of door (Section 6.26 related)

Additional Instructions –

- A closeout for interior cabinet #6 shall be provided in the upper aft corner (Sections 2.10 related).
- An ABC 5 lb fire extinguisher with an Amerex #861H SAE-J3043 compliant bracket shall be installed at customer inspection (Section 4.32 related).
- A 120 VAC Power Box shall be installed in a build-out in the forward wall (Section 6.21 related).
- An air compressor shall be installed with a perforated surround on the forward wall above the adjustable shelf for the air horn
- A vent with MERV 8 polyester filter media and a hex-punched stainless steel cover shall be installed on the back wall.

COMPARTMENT #3

Interior Dimensions – 33"W x 62"H x 20"D

Doorway Dimensions – 33"W x 62"H

Location – Streetside, aft

Shelving – One adjustable

Door(s) – Double

Light(s) – Two LED strip lights, one on each side of door (Section 6.26 related)

Additional Instructions –

- A vent with MERV 8 polyester filter media and a hex-punched stainless steel cover shall be installed on the aft wall.
- Two black powder coated angled corner brackets shall be installed on aluminum track, one forward and one aft, for *customer-supplied-and-installed* SCBA cylinder holders (Section 4.10 related).
- A mill-finished aluminum mounting plate shall be installed on the back wall for *customer-supplied-and-installed* PAC Mount Irons Lok.

COMPARTMENT #4

Interior Dimensions – 15.5"W x 80"H x 20"D

Doorway Dimensions – 15.5"W x 70"H

Location – Curbside, aft

Shelving – None

Door(s) – Single

Light(s) – One LED strip light (Section 6.26 related)

Additional Instructions –

- Three horizontal strips of heavy-duty aluminum track shall be installed on the back wall, spaced out.
- An adjustable painted aluminum divider shall be installed in the center of the compartment.
- Two backboard restraining straps with footman loops shall be installed on the aft wall.
- A formed stainless steel gasket cover shall be installed on the lower doorframe edge so that backboards do not cut gasket material.
- Painted aluminum wiring access panels with precision punched ventilation shall be installed on the aft wall.
- A vent with MERV 8 polyester filter media and a hex-punched stainless steel cover shall be installed on the aft wall.

COMPARTMENT #5

Interior Dimensions – 18"W x 28"H x 20"D

Doorway Dimensions – 18"W x 28"H

Location – Curbside, aft of wheel well

Shelving – None

Door(s) – Single

Light(s) – One LED strip light (Section 6.26 related)

Additional Instructions – None

COMPARTMENT #6 – INSIDE/OUTSIDE ACCESS

Interior Dimensions – 28.75"W x 71.5"H x 27.25"D (20.5"D below floor)

Doorway Dimensions – 28.75"W x 71.5"H

Location – Curbside, forward

Shelving – See Interior Cabinets #12 and 13

Door(s) – Single

Light(s) – One LED strip light (Section 6.26 related)

Additional Instructions –

- Compartment shall provide inside/outside access to Cabinets #12 and #13 each with a full width stainless steel threshold on each floor level shelf (Section 2.10 related).
- General storage shall be provided below floor.

2.09

MODULE DOORS

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

2.09.01A

DOOR FRAME AND SEAL

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

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 streetside side-hinged single doors shall be hinged on the forward sides, rear passage doors shall be hinged on the outboard sides and single side-hinged rear compartment doors shall be hinged on the outboard sides.

2.09.03A

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 and curbside 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.

2.09.04B

COMPARTMENT DOOR CONTROLS

A spring-dampened gas shock 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.

Two 2"H black seatbelt-type straps with footman loops shall be installed, one each at the top and bottom of the door frame of Compartment #1 and #6 only to protect the door from excessive overtravel.

2.09.05A CURBSIDE DOOR CONTROL

A spring-dampened gas shock 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. Two 2"H black seatbelt-type straps with footman loops shall be installed, one each at the top and bottom of the door frame to protect the door from excessive overtravel.

2.09.06 REAR DOOR CONTROLS

Rear door controls shall be one grabber-type hold-open device with replaceable rubber catch, per door.

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.

A Whelen #3SR00FRR Red Lens Red Led flasher shall be surface-mounted in the upper outboard corner of the interior door skins of Compartments #1 and #6. Lights shall flash when doors are open, and shall be tied to the "MODULE DISC" switch on the driver's console.

2.09.08 ENTRANCE DOOR SKINS

Each entrance door skin shall be made of 0.080" bright aluminum diamond plate and be removable to service door hardware. A removable stainless steel bezel shall be installed at mid-height on the door skin to provide access to the latch hardware and electric lock motors (Section 6.40 related). Red/white 1.5" conspicuity tape shall be installed on the top, bottom, and outboard vertical edges of both the curbside passage door and rear curbside door. The streetside rear passage door shall have conspicuity tape on the top and bottom edges.

A Whelen #3SR00FRR Red Lens Red Led flasher shall be surface-mounted in the upper outboard corner of the interior door skin of the curbside entrance door. Lights shall flash when doors are open and shall be tied to the "MODULE DISC" switch on the driver's console.

2.09.09X ENTRANCE DOORWAYS

One curbside and two rear module entrance doors shall be provided. Curbside doorway dimensions shall be 31"W x 77.75"H. Rear doorway dimensions shall be 49.75"W x 62"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 RESTOCKING

Dimensions – 35.125"W x 18.75"H x 15.75"D

Framed Dimensions – 28.5625"W x 14.125"H

Location – Streetside, forward, upper

Shelving – One adjustable

Door(s) – Sliding clear 0.25" polycarbonate with felt-lined anodized aluminum track, interlocking aluminum trim, and full extruded aluminum door pulls with integral door latch, in a pre-formed aluminum frame, hinged at the top with a gas shock lift system, and a latch

Lighting – One LED under-cabinet strip light (Section 6.14 related)

Additional Instructions –

- A *customer-supplied* Motorola remote head, mic and auxiliary speaker shall be installed on the underside of cabinet, aft (Sections 6.18 and 8.02 related).

CABINET #2 RESTOCKING

Dimensions – 35.125"W x 18.75"H x 15.75"D

Framed Dimensions – 28.5625"W x 14.125"H

Location – Streetside, center, upper

Shelving – None

Door(s) – Sliding clear 0.25" polycarbonate with felt-lined anodized aluminum track, interlocking aluminum trim, and full extruded aluminum door pulls with integral door latch, in a pre-formed aluminum frame, hinged at the top with a gas shock lift system, and a latch

Lighting – One LED under-cabinet strip light (Section 6.14 related)

Additional Instructions –

- A 120 VAC GFCI duplex receptacle shall be installed on the lower back wall, aft (Section 6.21 related).
- A 120 VAC fluid warmer with a 4" surround shall be installed on the floor of cabinet, aft (Section 6.35 related).
- A 12VDC prewire for a *Customer-supplied-and-installed* MedVault shall be terminated behind the wire raceway closeout (Section 5.36 related).

CABINET #3 – ANGLED CABINET

Dimensions – 25.625"W x 18.75"H x 15.75"D

Location – Streetside, forward of CPR Seat, upper

Shelving – One adjustable

Door(s) – Sliding clear 0.25" polycarbonate with felt-lined anodized aluminum track, interlocking aluminum trim, and full extruded aluminum door pulls with integral door latch

Lighting – One LED under-cabinet strip light (Section 6.14 related)

Additional Instructions –

- A full width head pad with high-density foam padding covered with seamless vinyl shall be installed on the aft side of cabinet including corner (Sections 3.08 and 5.03 related).
- One Cast Products #IV-2001-1 IV hook shall be installed forward of Cabinet #3 center (Section 5.07 Related).

CABINET #4 RESTOCKING

Dimensions – 23.5"W x 22.75"H x 15.75"D

Framed Dimensions – 16.9375"W x 18.125"H

Location – Streetside, upper, aft

Shelving – One adjustable

Door(s) – Sliding clear 0.25" polycarbonate with felt-lined anodized aluminum track, interlocking aluminum trim, and full extruded aluminum door pulls with integral door latch, in a pre-formed aluminum frame, hinged at the top with a gas shock lift system, and a latch

Additional Instructions –

- A full width head pad with high-density foam padding covered with seamless vinyl shall be installed on the forward side of cabinet (Sections 3.08 and 5.03 related).

CABINET #5 – CPR SEAT WITH STORAGE

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

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

Location – Streetside

Door(s) –Hinged aluminum bench lid, with high-density foam padding covered with seamless vinyl shall provide access to the storage area (Sections 3.08 and 5.03 related). Lid shall have a 1.5" overhang with an automatic hold-open device The pad shall be removable.

Additional Instructions –

- Seat base shall be formed from aluminum and securely anchored to sub-floor.
- Headrest and backrest pads shall have high density foam padding covered with seamless vinyl (Sections 3.08 and 5.03 related).
- A four-point single-buckle energy absorbing seat belt with below-the-bench retractors shall be installed on seat, set up for use with sit-up occupants (Section 5.14 related).

CABINET #6

Dimensions – 25.25"W x 17.5"H x 20"D

Location – Streetside, recessed below Action Area counter,

Shelving – One adjustable

Door(s) – Sliding clear 0.25" polycarbonate with felt-lined anodized aluminum track, interlocking aluminum trim, and full extruded aluminum door pulls with integral door latch

Additional Instructions – None

ACTION AREA #7

Dimensions – 74.5"W x 23.75"H x 20"D

Location – Streetside

Additional Instructions –

- A build out shall be installed on the wall, upper, aft with the following items:
 - One SSCOR regulator (Section 5.13 related)
 - One digital thermostat (Section 5.17 related)
 - One six-switch attendant control panel (Section 6.13 related)
 - One inverter status panel (Section 6.31 related)
- The following items shall be installed on the wall:
 - One oxygen outlet (Section 5.11 related)
 - One Bemis collector with bracket (Section 5.13 related)
 - Two 120 VAC GFCI duplex receptacles (Section 6.21 related)
 - One USB-A/C Kussmaul dual charging port adjacent to the aft 120VAC GFCI (Section 6.25 related)
- A sharps and waste space sized for a Becton-Dickinson, 8.2 qt., sharps container and a 7 qt. waste shall be installed in the countertop aft of Cabinet #6, with a hinged clear 0.177" polycarbonate cover with a finger hole (Section 5.26 related).
- An oxygen window shall be installed on the aft-facing wall, forward end of action area (Section 5.29 related).
- A Wilsonart "Northern Melange" 9195MLA speckled gray acrylic full depth solid surface countertop with a 0.5" retaining lip shall be installed.

CABINET #8 – GLOVE STORAGE

Dimensions – 27.625"W x 6.75"H x 4"D

Location – Curbside, above passage door

Shelving – None

Door(s) – Bottom-hinged, painted aluminum with a black quarter-turn latch and three cut-outs

Additional Instructions –

- Cabinet shall provide storage for three glove boxes in a horizontal orientation (Section 5.32 related).

CABINET #9 – SQUAD BENCH WITH STORAGE

Dimensions – Bench: 84"W x 18.75"H x 20"D

Storage: 52.75"W x 8.125"H x 20"D

Location – Curbside

Door(s) – Hinged aluminum bench lid, with high-density foam padding covered with seamless vinyl shall provide access to the storage area (Sections 3.08 and 5.03 related). It shall have a 1.5" overhang, automatic hold-open device, and a stainless steel paddle latch. The pad shall be removable.

Additional Instructions –

- Seat base shall be formed from aluminum and securely anchored to sub-floor.
- Headrest and back pads shall have high density foam padding covered with seamless vinyl (Sections 3.08 and 5.03 related).
- Two sets of four-point, single-buckle energy-absorbing seat belts with below-the-bench retractors shall be installed on bench with three additional automatic retractors and lower receivers, set up for use with sit-up occupants or stretcher patients (Section 5.14 related).
- An oxygen outlet and a single "DOME TIMER" switch with bezel shall be installed on the wall at the forward end of bench (Sections 5.11 and 6.16 related, different than shown in drawings).
- A Becton Dickinson 8.2 qt. sharps container and a 7 qt. waste container shall be installed at the forward end of bench, with a hinged clear 0.177" polycarbonate cover with a finger hole (Section 5.26 related).
- A net system shall be installed at the forward end of squad bench (Section 5.34 related).
- A 120 VAC GFCI duplex receptacle shall be installed on the wall, below the back pad, aft (Section 6.21 related).

CABINET #10 – HVAC

Dimensions – 34.75"W x 14.5"H x 30.875"D

Location – Right front stack, upper

Additional Instructions –

- Cabinet shall house the suction pump and AC/heater (Sections 5.12 and 5.17 related).

CABINET #11 – ELECTRICAL CABINET

Dimensions – 31.5"W x 16.75"H x 10"D

Location – Front above pass-thru

Shelving – None

Door(s) – Top-hinged painted aluminum door with a hold-open device and a quarter turn slotted latch

Lighting – One automatic cabinet light (Section 6.14 related)

Additional Instructions –

- Cabinet shall house the electrical component module (Section 6.01 related).
- A Whelen amplifier shall be installed (Section 6.30.10 related).
- An air compressor disable switch shall be installed for ease of maintenance

CABINET #12 – INSIDE/OUTSIDE ACCESS

Dimensions – 26"W x 27.25"H x 30.875"D

Location – Right front stack, center

Shelving – One adjustable shelf with 1" x 1" lip down to exterior, and 2" lip towards interior with 2.5" diameter hole in the forward inboard corner for cord access

Door(s) – Two clear 0.375" polycarbonate side-hinged doors, each with a 20 ga stainless steel brace, 0.375"D steel rods, slam latch and a paddle latch handle.

Additional Instructions –

- Cabinet shall be accessible from the outside via exterior Compartment #6.
- Two 120 VAC GFCI duplex receptacles shall be installed on the back wall inboard, one upper and one lower (Section 6.21 related).

CABINET #13 – INSIDE/OUTSIDE ACCESS

Dimensions – 26"W x 27.25"H x 30.875"D

Location – Right front stack, lower

Shelving – One adjustable shelf with 1" x 1" lip down to exterior, and 2" lip towards interior with 2.5" diameter hole in the forward inboard corner for cord access

Door(s) – Two clear 0.375" polycarbonate side-hinged doors, each with a 20 ga stainless steel brace, 0.375"D steel rods, slam latch and a paddle latch handle.

Additional Instructions –

- Cabinet shall be accessible from the outside via exterior Compartment #6.
- A 120 VAC GFCI duplex receptacle shall be installed on the back wall, lower, inboard (Sections 6.21 related).

CABINET #14 – RADIO CABINET

Dimensions – 15.5"W x 51.25"H x 10"D

Location – Left front stack, aft-facing

Shelving – None

Door(s) – Aft facing, painted aluminum lift off panel with two Southco C2 latches, and precision punched ventilation

Lighting – One automatic cabinet light (Section 6.14 related)

Additional Instructions –

- A Blue Sea #5032 split bus fuse block shall be installed for future *customer-supplied-and-installed* equipment (Section 6.18 related).
- A *customer-supplied* Motorola transceiver shall be installed (Sections 6.18 and 8.02 related).
- An antenna cable shall terminate in cabinet (Section 6.19 related).
- A Samlex inverter shall be installed on the lower back wall (Section 6.31 related).
- Two vertical strips of heavy-duty aluminum track shall be installed on the back wall.
- Cabinet shall be provided with access to electrical component panel.

2.11A

SIDE DOORSTEP

A recessed curbside double doorstep shall be provided which is 19"D x 31"W 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.

2.13E

CAB TO MODULE PASSAGE

Shall be a pass-thru measuring 16"W x 12.5"H on the cab side, 16"W x 15"H on the module side.

2.14**WHEEL WELL LINERS**

Wheel well liners made of formed aluminum shall be installed in the module wheel well openings.

2.15**ELECTROLYSIS PREVENTION**

All external materials and fasteners shall be selected to prevent electrolysis and corrosion due to dissimilar materials and exposure to the elements. The module shall be painted before any exterior items (hinges, latches, door hold opens, etc.) are installed to provide an isolating film between dissimilar materials. Exterior fasteners used for direct connection to painted aluminum surfaces shall be coated with a corrosion inhibitor.

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.

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: to match Pierce Red 452 (G4-5235854).

Condenser bracket shall be painted Charcoal Metallic 479 (G4-5356817).

Reference photos of current fleet:



Stripe #1	Color: Material: Location:	White (G2-33631 Alt 2) Paint Entire module roof, with a 4" Charcoal Metallic 479 (G4-5356817) perimeter around maintained around the roof surface
Stripe #2	Color: Material: Location:	Charcoal Metallic 479 (G4-5356817) Paint Front of module down to beltline with an upward angle on sides of module including condenser bracket. Sides and rear of module down to below flashers
Stripe #3	Color: Material: Location:	Pierce Red 452 (G4-5235854) Paint Front of module from Stripe #2 down with an upward angle on sides of module. Sides and rear of module from Stripe #2 down.

Stripe #4	Color:	Silver engine turn large with 0.25" black outline
	Size:	1.25"H
	Style:	Straight
	Material:	Printed Vinyl
	Location:	Overlay on top of paint break of Stripes #2 and #3 on all sides of module
Stripe #5	Color:	Dark Gray with 0.25" black outline
	Size:	1.5"H
	Style:	Straight with an upward angle forward of wheel well
	Material:	Printed Vinyl
	Location:	Lower sides of module stopping short of the outboard corner radius at rear and rear passage doors below windows
Stripe #6	Color:	Black #680CR-85
	Size:	6"H
	Style:	Straight with an upward angle forward of wheel well
	Material:	Scotchlite
	Location:	Lower sides of module stopping short of the outboard corner radius at rear and rear passage doors, below Stripe #5 with a 0.5" gap
Stripe #7	Color:	Dark Gray with 0.25" black outline
	Size:	1.5"H
	Style:	Straight with an upward angle forward of wheel well
	Material:	Printed Vinyl
	Location:	Lower sides of module stopping short of the outboard corner radius at rear and rear passage doors, below Stripe #6 with a 0.5" gap
Stripe #8	Color:	Black #680CR-85
	Width:	6"H
	Style:	Diagonal stripes alternating between the paint and Scotchlite, Chevron
	Material:	Scotchlite
	Location:	Rear of module, below drip rail, stopping short of the outboard corner radius, outboard of rear passage doors only (Excluding doors and header above doors). Align with Scotchlite stripe on rear doors.

Reference photo of current fleet:



3.04.01X

CHASSIS COLOR

The back-of-cab insert shall be covered with black polyurea thermoplastic elastomer.
Buckstop bumper shall be covered with black polyurea thermoplastic elastomer.

Stripe #1	Color:	Charcoal Metallic 479 (G4-5356817)
	Material:	Paint
	Location:	Chassis roof down to below windows on all sides including door jambs
Stripe #2	Color:	Pierce Red 452 (G4-5235854)
	Material:	Paint
	Location:	Sides of chassis from below windows down including door jambs, hood, and underside of hood.
Stripe #3	Color:	Silver engine turn large with 0.25" black outline
	Size:	1.25"H
	Style:	Straight
	Material:	Printed Vinyl
	Location:	Overlay on top of paint break of Stripes #1 and #2
Stripe #4	Color:	Dark Gray with 0.25" black outline
	Size:	1.5"H
	Style:	Straight
	Material:	Printed Vinyl
	Location:	Sides of chassis
Stripe #5	Color:	Black #680CR-85
	Size:	6"H
	Style:	Straight
	Material:	Scotchlite
	Location:	Lower sides of chassis, below Stripe #4 with a 0.5" gap
Stripe #6	Color:	Dark Gray with 0.25" black outline
	Size:	1.5"H
	Style:	Straight
	Material:	Printed Vinyl
	Location:	Lower sides of chassis, below Stripe #6 with a 0.5" gap

3.04.02

VEHICLE WINDOW TINTING

The driver and passenger windows shall have SunTek, 5% VLT tint added to the OEM window tint.

3.05

LETTERING/DECALS

Streetside:

Item #S1	Lettering:	"CENTRAL" (arched)
	Font:	Bookman Old Style Bold
	Color:	Silver engine turn large with 0.25" black outline and drop shadow left
	Size:	1.75"H
	Material:	Printed Vinyl
	Location:	Chassis driver door, centered below window

Item #S2	Decal:	Custom dept. decal
	Color:	Multi with black outline
	Size:	12"H
	Material:	Printed Vinyl
	Location:	Chassis driver door, centered below Items #S1
Item #S3	Lettering:	"LYON FIRE"
	Font:	Bookman Old Style Bold
	Color:	Silver engine turn large with 0.25" black outline and drop shadow left
	Size:	1"H
	Material:	Printed Vinyl
	Location:	Chassis driver door, centered below Item #S2
Item #S4	Lettering:	"32"(4572-1) "35"(4573-1)
	Font:	Bookman Old Style Bold
	Color:	Silver engine turn large with 0.25" black outline and drop shadow left
	Size:	6"H
	Material:	Printed Vinyl
	Location:	Side of module, centered on Compartment #1 door
Item #S5	Lettering:	"CENTRAL"
	Font:	Bookman Old Style Bold
	Color:	Silver engine turn large with 0.25" black outline and drop shadow left
	Size:	6"H
	Material:	Printed Vinyl
	Location:	Side of module, centered between scene lights below Stripe #5
Item #S6	Lettering:	"LYON FIRE"
	Font:	Bookman Old Style Bold
	Color:	Silver engine turn large with 0.25" black outline and drop shadow left
	Size:	5"H
	Material:	Printed Vinyl
	Location:	Side of module, centered below Item #S5
Item #S7	Decal:	Star of Life
	Color:	Silver engine turn large with black outline, gray background, and Silver large engine turn Rod of Asclepius
	Size:	14"H
	Material:	Printed Vinyl
	Location:	Side of module, centered on Compartment #3 doors

Rear:		
Item #R1	Lettering:	"CENTRAL"
	Font:	Bookman Old Style Bold
	Color:	Silver engine turn large with 0.25" black outline and drop shadow left
	Size:	3.5"H
	Material:	Printed Vinyl
	Location:	Rear of module, centered on doors lower
Item #R2	Lettering:	"LYON FIRE"
	Font:	Bookman Old Style Bold
	Color:	Silver engine turn large with 0.25" black outline and drop shadow left
	Size:	3"H
	Material:	Printed Vinyl
	Location:	Rear of module, centered on doors lower
Item #R3	Lettering:	"32"(4572-1) "35"(4573-1)
	Font:	Bookman Old Style Bold
	Color:	Silver engine turn large with 0.25" black outline and drop shadow left
	Size:	6"H
	Material:	Printed Vinyl
	Location:	Rear of module, curbside, upper
Curbside:		
Item #C1	Lettering:	"CENTRAL" (arched)
	Font:	Bookman Old Style Bold
	Color:	Silver engine turn large with 0.25" black outline and drop shadow left
	Size:	1.75"H
	Material:	Printed Vinyl
	Location:	Chassis passenger door, centered below window
Item #C2	Decal:	Custom dept. decal
	Color:	Large engine turn silver with 0.25" black outline and drop shadow left
	Size:	12"H
	Material:	Printed Vinyl
	Location:	Chassis passenger door, centered below Items #C1
Item #C3	Lettering:	"LYON FIRE"
	Font:	Bookman Old Style Bold
	Color:	Silver engine turn large with 0.25" black outline and drop shadow left
	Size:	1"H
	Material:	Printed Vinyl
	Location:	Chassis driver door, centered below Item #C2

Item #C4	Lettering:	"32"(4572-1) "35"(4573-1)
	Font:	Bookman Old Style Bold
	Color:	Silver engine turn large with 0.25" black outline and drop shadow left
	Size:	6"H
	Material:	Printed Vinyl
	Location:	Side of module, centered on Compartment #6 door
Item #C5	Lettering:	"CENTRAL"
	Font:	Bookman Old Style Bold
	Color:	Silver engine turn large with 0.25" black outline and drop shadow left
	Size:	6"H
	Material:	Printed Vinyl
	Location:	Side of module, centered between scene lights below Stripe #5
Item #C6	Lettering:	"LYON FIRE"
	Font:	Bookman Old Style Bold
	Color:	Silver engine turn large with 0.25" black outline and drop shadow left
	Size:	5"H
	Material:	Printed Vinyl
	Location:	Side of module, centered below Item #C5
Item #C7	Decal:	Star of Life
	Color:	Silver engine turn large with black outline, gray background, and Silver large engine turn Rod of Asclepius
	Size:	14"H
	Material:	Printed Vinyl
	Location:	Side of module, centered on Compartment #4 door
Front: Item #F1	Lettering:	"32"(4572-1) "35"(4573-1) (to be determined at preconstruction meeting)
	Font:	Bookman Old Style Bold
	Color:	Silver engine turn large with 0.25" black outline and drop shadow left
	Size:	6"H
	Material:	Printed Vinyl
	Location:	Front of module, streetside below condenser
Roof: Item #T1	Decal:	Star of Life
	Color:	Blue #680CR-75
	Size:	32"H
	Material:	Scotchlite
	Location:	Module roof, centered

3.06 COMPARTMENT FINISH

All compartments shall be sanded, etched, washed, primed, coated with textured polyurea thermoplastic elastomer finish and painted white with gray splatter paint (G2-33631 Alt 2 / GLV-51748).

All shelves and trays shall be sanded, etched, washed, primed, and painted white with gray splatter paint (G2-33631 Alt 2 / GLV-51748).

3.07 INTERIOR CABINETS FINISH

All interior cabinets, drawers, headliner, and upper wall coverings shall be sanded, etched, washed, primed, coated with textured polyurea thermoplastic elastomer, and painted white with gray splatter paint (G2-33631 Alt 2 / GLV-51748).

All shelves and trays shall be sanded, etched, washed, primed, and painted white with 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 Altro Transflor Meta Genome (#TFM2702) 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 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.

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.

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.

4

MODULE EXTERIOR

4.01C

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 center section, below the doors, shall have a Grip Strut stepping surface to improve traction and provide a 10" step. This step shall flip up for ease of access. 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 shall be designed to accommodate a one-person-style cot.

4.02

RUB RAILS

Bright finished anodized aluminum rub rails of a 2.5"H x 0.75"D custom extruded design shall be installed along the lower streetside and curbside edges of the module. A 0.5"H red/white conspicuity reflective tape shall be installed in the center insert area.

4.03A

FENDER RINGS

High grade weather-resistant industrial rubber fender rings with a rounded outer edge shall be installed on the module, following the full contour of the wheel well opening and projecting 2.5" from the module body.

4.04

DRIP RAILS

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 module 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.

4.06X

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.

Two recovery eyes shall be installed in recessed pockets in the rear kick panel.

A recessed rear license plate shall be centered in the rear kick panel (Section 4.16 related).

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 bracket for the OEM DEF fill shall be provided for the DEF tank, between the cab and module, streetside.

4.08 MODULE WINDOWS

All module windows shall be dark-tinted, have black anodized aluminum frames, and 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.

4.09 FUEL SPLASH GUARD

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

4.10X EXTERIOR CYLINDER STORAGE

A Zico QR-MV-2 QUIC-RELEASE multiversal oxygen cylinder bracket shall be installed in Compartment #1, on the back wall, aft for a *customer-supplied-and-installed* H or M-size cylinder.

Two black powder coated angled corner brackets shall be installed on aluminum track in Compartment #3: one forward and one aft for *customer-supplied-and-installed* SCBA cylinder holders.

4.16X REAR LICENSE PLATE

A recessed license plate holder with dual Optronics #LPL11CB LED lights shall be installed in the rear kick panel, below doors.

4.17X ELECTRIC STEP

A pre-wire for an electric step shall be installed.

A backing plate for future installation shall be installed.

4.27D STAIR CHAIR STORAGE

A slide-out tool board with 20" slides, grab hole, gas shock, bracket and strap shall be installed in Compartment #1, forward for storage of a *customer-supplied-and-installed* Stryker stair chair

4.32X EXTERIOR FIRE SUPPRESSION

An ABC 5 lb fire extinguisher with an Amerex #861H SAE-J3043 compliant bracket shall be installed in Compartment #2 at customer inspection (Section 8.04 related)

An ABC 5 lb fire extinguisher with an Amerex #861H SAE-J3043 compliant bracket shall be shipped loose (Section 8.01 related).

4.34 MODULE UNDERCOATING SEAL

The module underbody shall be coated for reduced corrosion and additional thermal insulation.

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 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.

5.02A HEADLINER

The headliner shall be 0.125" aluminum.

5.03X HEAD PADS/CUSHIONS

Head pads installed over all module access openings shall be 1.5" foam covered with heavy-duty seamless vinyl upholstery.

Headrest and back pads for seating positions shall be 1.5" foam covered with heavy-duty seamless vinyl upholstery.

Full width head pads aft of Cabinet #3 and forward of Cabinet #4 shall be 1.5" foam covered with heavy-duty seamless vinyl upholstery.

Seat cushions shall be 3" foam covered with heavy-duty seamless vinyl upholstery.

5.04 LOWER WALL COVERING

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

5.05 GRAB RAILS

Two 90"L x 1.250"D stainless steel grab rails with three support brackets each shall be securely mounted to roof structural framing. The rails shall be mounted 6" on either side of 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

One ceiling-mounted Cast #IV2008 recessed IV hangers shall be installed streetside aft.

One Cast Products #IV-2001-1 IV hook shall be installed forward of Cabinet #3 center.

5.08D COT MOUNT

A *Customer-supplied* Power-LOAD #6390 cot fastener system with safety hook shall be installed (Section 8.02 related).

The Power-LOAD anchor assembly shall be installed to position the aft end of the cot 11" forward of the rear doors.

No rear rail clamp shall be installed.

5.10 ATTENDANT SEAT

An EVS #1880 rear-facing high-back attendant seat with a built-in child safety seat, black four-point single buckle seat belt with individual emergency locking retractors and upholstered with Ash gray Vacform seamless upholstery shall be located at the head of cot position and provide easy access to all action wall controls and outlets, and to the patient. Seat shall be securely anchored on an EVS #CBWD cabinet base. Door on cabinet shall face curbside.

5.11 OXYGEN SYSTEM

The entire oxygen system shall be assembled with certified oxygen hose (200 PSI maximum working pressure) 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 #1 and one oxygen tank wrench shall be attached to the compartment wall with hook-and-loop tape.

Two Ohio-type outlets shall be installed:

- One on the Action Area #7 wall
- One on the wall above the Curbside Squad Bench #9

One recessed oxygen outlet with 0 – 25 LPM constant flow regulator with barbed outlet shall be installed center above the cot with the barb facing streetside.

5.12 SUCTION PUMP

The unit shall have an electric pump as the source of suction, installed in HVAC Cabinet #10, and be vented to the outside of module, under module body. Pump shall be controlled by an on/off "SUCTION" switch in the attendant control panel (Section 6.13 related).

5.13A SUCTION COLLECTOR

A flush mount SSCOR #22000 suction regulator shall be installed on the angled panel in Action Area #7.

A SSCOR #22002 stainless steel wall-mount bracket with a 1200cc Bemis disposable canister shall be installed on the Action Area #7 wall.

5.14A SEAT BELTS

Black DOT-compliant seat belts shall be installed at each seating position.

A four-point single-buckle energy absorbing seat belt with below-the-bench retractors shall be installed on the CPR Seat #5.

Two black four-point, single-buckle energy-absorbing seat belts with below-the-bench retractors shall be installed on the Curbside Squad Bench #9 for sit-up occupants. Three additional automatic locking retractors with three lower seat belt buckle ends shall be set up for use with stretcher patients.

The attendant seat shall have a four-point, single-buckle seat belt.

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 wall tubes.

5.17X MODULE CLIMATE CONTROL SYSTEM

The module HVAC system shall incorporate a combination heating/air conditioning unit with 43,300 BTU/hr. heating and 32,000 BTU/hr. cooling capacity. The unit shall have a 580 CFM fan, two adjustable air conditioning discharge louvers, and controls independent of the cab system. A return air path with open area equal to at least twice the blower outlet area shall be incorporated into the evaporator closeout.

Module system shall be controlled by a digital thermostat installed on the angled panel in Action Area #7.

Four vents shall be installed in a vertical plenum on the aisle side of right front stack, spaced evenly.

A Beam #015715 wall port shall be installed in the vertical plenum to provide direct heat to a patient. A 12.5 ft hose shall be shipped loose (Section 8.01 related).

A TM-21 auxiliary air conditioning compressor kit shall be added to the OEM engine.

A 67,000 BTU/hr. stand-alone dual fan condenser shall be added to the front of the module in a custom aluminum bracket painted Charcoal Metallic 479 (G4-5356817), to match the module.

5.18 EXTERNAL AIR INTAKE

To supplement heated or cooled air with fresh air, an external air intake shall be installed on the side of 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.

5.20 EXHAUST VENT

A motor-powered exhaust vent with a chrome Perko cover shall be installed in the streetside rear corner of module. Vent shall be controlled by an on/off "VENT" switch in the attendant control panel (Section 6.13 related).

5.24 CLOCK

An atomic-controlled clock shall be installed center above the rear entry doors. Clock is powered by two AA alkaline batteries.

5.26X SHARPS/HAZARDOUS WASTE CONTAINER

A Becton Dickinson 8.2 qt. sharps container and a 7 qt. waste container shall be installed in the Action Area #7 countertop aft of Cabinet #6, with a hinged 0.177" polycarbonate cover with a finger hole.

A Becton Dickinson 8.2 qt. sharps container and one 7 qt. waste container shall be installed at the forward end of the Curbside Squad Bench #9, with a hinged clear 0.177" polycarbonate cover with a finger hole.

5.29 OXYGEN WINDOW

A 6" x 11" clear polycarbonate oxygen window with knob and self-closing hinges shall be installed on the aft-facing wall forward of Action Area #7.

5.32A GLOVE BUTLERS

Storage for three glove boxes in a horizontal orientation shall be provided in Cabinet #8 .

5.34C**BENCH NET**

A net system shall be installed at the forward end of the Curbside Squad Bench #9. The net system shall be constructed of black 2" webbing and shall be easily detached for cleaning or replacement. A short buckle end shall be used to make the upper net connection beneath the glove box storage Cabinet #8.

5.36X**MEDICATIONS SAFE**

A 12VDC pre-wire shall be installed behind the closeout in Cabinet #2 for a *customer-supplied-and-installed* Knox MedVault medications safe.

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 ELECTRICAL LOAD 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 included as part of the enclosed electrical component module installed in Electrical Cabinet #11.

6.02 VOLTMETER/AMMETER

A single display voltmeter/ammeter shall be installed on the side of the console, driver's side, which simultaneously displays voltage and alternator current when the ignition is on (Section 6.09 related). 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.

6.05 MODULE POWER

Module power shall be controlled by a driver's console-mounted switch labeled "MODULE DISC." which activates an InPower #SSC42-275 solid state contactor (Section 6.09 related). An ignition interlock shall disconnect module power 15-20 minutes after the vehicle's ignition is turned off. The interlock shall also allow module power to be reactivated independently for 15-20 minutes by cycling the ignition 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

An SAE J994-compliant self-adjusting back-up alarm shall be installed, with a momentary "BACK-UP DISABLE" switch on driver's console (Section 6.09 related). 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.

6.09X

DRIVER'S CONSOLE/MAP BOX

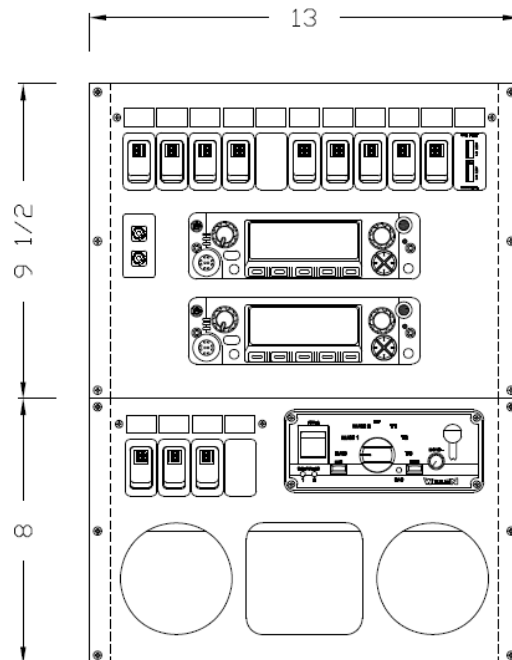
- A driver's console made of black-powder-coated formed aluminum shall be installed between the seats. It shall have: A digital voltmeter on the side of the console, facing the driver
- Two **customer-supplied** Motorola auxiliary speakers on front of console (Sections 6.18 and 8.02 related)
- A Blue Sea #5032 split bus fuse block in console for future **customer-supplied-and-installed** equipment (Section 6.18 related)
- Acustom cup holder
- Two adjustable armrests
- A map holder with five mill-finished aluminum dividers
- Two magnetic mic clips shall be installed at customer inspection (Section 8.04 related)
- One **custom** faceplate with the following layout:

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
EMERG. MASTER	LEFT SCENE	RIGHT SCENE	FRONT SCENE	REAR SCENE	Blank	DRIVING LIGHTS	WHITE LIGHTS	FLASHER	FRONT FLASHER	MODULE DISC.	Kussmaul USB A/C

Passage Compt. D/O Lights	Customer-supplied E5 Radio Head (Sections 6.18 and 8.02 related)
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Customer-supplied E5 Radio Head (Sections 6.18 and 8.02 related)
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13. AIR HORN	14. BACK-UP DISABLE	15. OPTICOM	16. Blank	Whelen 295SLSA1 siren control head (Section 6.30.09 related)
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6.10 SWITCHES

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

6.12 WARNING LIGHTS

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.

6.13X ATTENDANT CONTROL PANEL

A six-switch attendant control panel shall be installed on the angled panel in Action Area #7 with the following switch layout:

1.	2.	3.	4.	5.	6.
DOME HI-OFF-LO	DOME HI-OFF-LO	SUCTION	VENT	ATTENDANT LIGHT	Blank

6.14 CABINET LIGHTING

The wall area below Cabinets #1-2 and #3 shall be lighted utilizing under-cabinet LED strip lighting. Lighting shall be controlled by an on/off "ATTENDANT LIGHT" switch in the attendant control panel.

Two automatic cabinet lights shall be installed: one in the Electrical Cabinet #11 and one in Radio Cabinet #14.

6.15A STEP LIGHT

A Whelen #3SC0CDCR Clear Lens Clear 3" LED light shall be installed on the forward wall of the curbside door stepwell.

6.16X MODULE INTERIOR LIGHTING

Shall be designed to keep module height to a minimum without interfering with the structural integrity of the roof. Module interior lighting shall consist of eight dual intensity Whelen #80C0EHCR LED recessed lights - one bank of four lights shall be positioned toward streetside and four lights toward curbside. There shall be a "DOME HI-OFF-LO" switch for each bank of lights in the attendant control panel.

The curbside bank of lights shall be automatically activated on high intensity level when the rear or side doors are opened or by a momentary rocker switch labeled "DOME TIMER" on the Curbside Squad Bench #9 wall, 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.

6.17X

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 shall be Truck-Lite LED Model 36.

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

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

Additional rear stop/tail, turn and back-up lights shall be Whelen M6 Series LED lights with chrome flanges, stacked vertically on the rear of the module, outboard above the rear kick panel, pattern from top to bottom: #M62BTT Red Lens Red stop/tail light, #M62T Amber Lens Amber turn signal, and #M62BU Clear Lens Clear back-up light. Back-up lights shall activate automatically when vehicle is placed in reverse.

Four Whelen #M62T Amber Lens Amber turn signals with chrome flanges shall be installed on the module:

- Two on the front: one curbside and one streetside (in line with condenser)
 - Two on the rear: one curbside and one streetside, above window height brake lights
- Two Whelen #904BTT Red Lens Red Super-LED brake/tail/turn lights with chrome flanges shall be installed on the rear of module: one on each side of rear doors, at window height.

6.18X

COMMUNICATIONS EQUIPMENT

Customer shall be responsible for powering up and tuning any radio equipment.

Item #1

Description: Two Blue Sea #5032 split bus fuse blocks shall be installed, for future *customer-supplied-and-installed* equipment.

Location:

- One in Radio Cabinet #14
- One in driver's console

Additional Instructions: At electrical panel and each fuse block, circuits shall be properly labeled and functionally wired. Two 30 amp automatic reset breakers each wired ignition hot, and two 40 amp automatic reset breakers each wired battery hot, shall be installed.

Item #2

Description: A *customer-supplied* Motorola APX8500 radio transceiver with dual E5 remote heads, auxiliary speakers, and mics (Section 8.02 related).

Locations:

- One remote head, aux. speaker, and mic underside of Cabinet #1
- Transceiver in Radio Cabinet #14
- One remote head and mic on the driver's console
- One aux. speaker on the front of driver's console

Additional Instructions: All connections shall be made, including antenna, antenna cables, battery power or ignition power, and grounds. Prior to powering up module, all in-line fuses of radio equipment shall be removed and secured to their fuse holders.

Item #3

Description: A *customer-supplied* Motorola APX8500 radio transceiver with an E5 remote head, auxiliary speaker, and mic (Section 8.02 related).

Locations:

- Transceiver in Radio Cabinet #14
- One remote head and mic on the driver's console
- One aux. speaker on the front of driver's console

Additional Instructions: All connections shall be made, including antenna, antenna cable, battery power or ignition power, and grounds. Prior to powering up module, all in-line fuses of radio equipment shall be removed and secured to their fuse holders.

6.19X ANTENNA MOUNTS AND CABLES

Four Larsen 27 MHz to 6 GHz NMO universal antenna mounts with RG-58U low loss, dual shield cables with FME male connectors shall be installed on the module roof. Antenna cables shall terminate in Radio Cabinet #14.

6.20 BLOCK HEATER

A block heater, with circuit breaker in the 120 VAC Power Box, shall be wired to the 120 VAC shorepower system.

6.21 120 VAC/SHORELINE CIRCUIT BOX

Utility power shall be furnished from 120 VAC shorepower via a Kussmaul 20 amp Super Auto-Eject plug with a red cover on a stainless steel plate with a green indicator light installed on the streetside forward corner of the module and distributed via a formed aluminum power box with an easily removable cover, in a bump-out in the forward wall of Compartment #2.

Circuit breakers shall be installed for overcurrent protection and circuit isolation:

- Block Heater (15 A)
- Inverter (20 A)
- Receptacles (15 A)

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

Seven interior 120 VAC GFCI duplex receptacles shall be installed:

- One in Cabinet #2
- Two on Action Area #7 wall
- One on wall above Curbside Squad Bench #9, aft
- Two in Cabinet #12
- One in Cabinet #13

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 with soldered ends from the module body to the chassis frame.

6.23 BATTERY CHARGER

A 60 amp battery charger shall be provided as part of the Samlex Pure Sine 1200-watt inverter system (Section 6.31 related).

6.24A**BATTERY MODIFICATIONS**

Chassis batteries shall be utilized in existing locations.

6.25X**12 VDC POWER SUPPLY**

Two Kussmaul combination USB-A/USB-C switch-insert-style charging ports shall be installed:

- One on driver's console
- One in Action Area #7

All 12 VDC power point receptacles, USB charge ports, 12 VDC charging circuits, and electric air compressors shall be powered from a 12 VDC auxiliary bus. An InPower LVD21-100-SPC540 low voltage disconnect switch shall deliver power to the auxiliary bus only when the supply voltage to the vehicle batteries is at or above 13.0 VDC.

6.26X**COMPARTMENT LIGHTING**

LED strip lighting shall be installed in each outside compartment and shall be activated by the respective compartment door switch. Compartments #2 and #3 shall have two LED strip lights installed.

6.27**EXTERIOR DOOR SWITCHES**

Shall be 1/2" mechanical door switches.

6.30 EMERGENCY WARNING SYSTEMS

All emergency lighting shall be controlled by the "EMERG. MASTER" switch on driver's console. When switch is on, module power is on, and vehicle is not in park, all emergency lighting and Opticom shall be activated, and the hands-free function of the siren shall be enabled.

6.30.01X FRONT FLASHERS

Four Whelen 900 Series light heads with chrome flanges and four 700 series light heads with chrome flanges shall be installed on the front of module/condenser bracket, upper, pattern curbside to streetside:

Curbside:	#90RB5FCR Clear Lens Red/Blue Super-LED flasher (Module)
	#70R02FCR Clear Lens Red LED flasher (Condenser, angled portion,
Above)	
	#70C0ELZR LED scenelight (Section 6.30.04 related)(Condenser, angled
portion, Below)	
	#90RR5FCR Clear Lens Red Super-LED flasher(Condenser)
Center:	GTT #794H Opticom (Section 6.48 related) (Condenser)
	#90RR5FCR Clear Lens Red Super-LED flasher(Condenser)
	#70R02FCR Clear Lens Red LED flasher (Condenser, angled portion,
Above)	
	#70C0ELZR LED scenelight (Section 6.30.04 related)(Condenser, angled
portion, Below)	
Streetside:	#90RB5FCR Clear Lens Red/Blue Super-LED flasher (Module)

Lights shall be controlled by the "FRONT LIGHTBAR" switch on driver's console.
Opticom shall be controlled by the "OPTICOM" switch on the driver's console and shall disable when vehicle is shifted into park.

6.30.02C REAR UPPER FLASHERS

Five Whelen light heads with chrome flanges shall be installed on the rear of module, upper, pattern curbside to streetside:

Curbside:	#90RB5FCR Clear Lens Red/Blue Super-LED flasher
	#904SLC LED scene light (Section 6.30.04 related)
Center:	#90AA5SAR Clear Lens Amber Super-LED flasher
	#904SLC LED scene light (Section 6.30.04 related)
Streetside:	#90RB5FCR Clear Lens Red/Blue Super-LED flasher

Lights shall be controlled by the "FLASHER" switch on driver's console.

6.30.03 FLASHERS

Four Whelen #90RB5FCR Clear Lens Red/Blue Super-LED flasher with chrome flanges shall be installed on the module: two each on the curbside and streetside in upper corners, outboard.

Lights shall be controlled by the "FLASHER" switch on driver's console.

6.30.04X SCENE LIGHTS

Four Whelen #904SLC LED scene lights with chrome flanges shall be installed on the module: two each on the curbside and streetside in upper corners, inboard. Curbside passage door shall activate the curbside scene lights. Lights shall also be controlled by the respective switches on driver's console.

Two Whelen #70C0ELZR LED scene lights with chrome flanges shall be installed on the angled portion of the condenser bracket, below the 700 series flasher.

Front scene lights shall be controlled by the "FRONT SCENE" switch on driver's console and shall disable when vehicle is shifted into park.

Two Whelen #904SLC LED scene lights with chrome flanges shall be installed with the rear upper flashers.

Rear scene lights shall be controlled by the "REAR SCENE" switch on driver's console and shall activate when the rear curbside passage door is opened or when vehicle is placed in reverse.

Streetside scene lights shall activate when the compartment #3 door is opened.

6.30.06 INTERSECTION LIGHTS

Four Whelen #I2CSMD Clear Lens Red/White Super-LED 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 driver's console.

6.30.08 GRILLE LIGHTS

Four Whelen #I2CSMD Clear Lens Red/White Super-LED flashers with chrome housings shall be installed on the aftermarket bumper grille: two upper and two lower.

Lights shall be controlled by the "FLASHER" switch on driver's console.

6.30.09 SIREN

A Whelen 295SLSA1, 200-watt siren shall be installed in the driver's console. 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 Emergency Master switch is on.

6.30.10X SIREN SPEAKERS

Two Whelen #SA315 100-watt speakers with mounting brackets shall be installed in the aftermarket bumper.

6.31 INVERTER

A Samlex 1200 watt inverter with a 60 amp battery charger shall be installed in Radio Cabinet #14. An EVO-RC-PLUS inverter remote control panel shall be installed on the angled panel in Action Area #7. The inverter shall be configured to turn on and off with ignition.

6.33

DRIVING LIGHTS

A 20" Whelen #FSB03B Super-LED Brow lightbar with black housing and bracket shall be installed on the aftermarket grille guard. Lightbar shall be controlled by the "WHITE LIGHTS" switch on driver's console. Lightbar shall also only be enabled when the OEM high beams are activated.

Driving lightbar is intended for off-road use only.

Two Rigid 86610 65 degree scene lights shall be mounted on the aftermarket bumper one on each vertical bar outboard, center. Lights shall be controlled by the "DRIVING LIGHTS" switch on the driver's console.

6.35

FLUID WARMER

A 120 VAC fluid warmer with a 120 VAC GFCI duplex receptacle shall be installed in Cabinet #2. The warmer shall be thermostatically controlled at 95 to 115 degrees F. Space for 10 one-liter bags of fluids shall be provided with a 4" surround to contain the fluid bags.

6.40X

ELECTRIC DOOR LOCKS

Electric door locks shall be installed on all compartment and module passage doors. Two lock/unlock switches shall be installed in the module: one on rear curbside passage door, and one on curbside passage door. Door locks for 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 in the OEM grille.

6.46

AUDIO/VIDEO/RECORDING EQUIPMENT

Item #1

Description: A Zorg wedge-style surface-mounted back-up camera with a 5 meter cable shall be installed.

Location: Back-up camera above the rear passage doors, on the exterior of the module

Additional Instructions: Camera shall be plugged in at the end of the chassis frame and shall automatically show on the OEM in-dash screen when the vehicle is placed in reverse.

Item #2

Description: A Zorg #2001 patient area camera system and a rearview mirror/monitor with a 7.2" screen shall be installed.

Location: Camera in the aft of the module, centered above the rear passage doors, facing the cot. Rearview mirror/monitor centered on chassis windshield, upper.

6.48

TRAFFIC SIGNAL PREEMPTION

A GTT #794H Opticom traffic preemption emitter shall be flush-mounted in a GTT #798 bezel mounting kit on the condenser bracket, centered.

Opticom shall be controlled by the "OPTICOM" switch on the driver's console and shall disable when vehicle is shifted into park.

6.51

DOOR SKIN FLASHERS

A Whelen #3SR00FRR Red Lens Red Led flasher shall be surface-mounted in the upper outboard corner of the interior door skins of Compartments #1, #6 and the Curbside Entrance door, total of three. Lights shall flash when doors are open, and shall be tied to the "MODULE DISC" switch on the driver's console.

7

SUPPORTING DOCUMENTATION

7.01

OWNERS MANUAL

Shall be provided with the vehicle and shall include the following items:

- Braun Northwest Contact Information
- Warranties
- Service and Operations Manual
- Electrical Drawings
- Parts list
- Specifications and Drawings
- Certifications
 - AMD 005 Low Voltage Electrical System Test
 - AMD 015 Ambulance Main Medical Gas System Test
 - AMD 021 Aspirator System Test
- Product Manuals
- Second OEM chassis key

7.03

LABELS

The following labels shall be provided:

Label Description	Location
Braun Northwest Paint Label	Inside of the electrical cabinet door
FMVSS Certification Label	Adjacent to the chassis OEM stickers, typically on the B pillar (or inside of the electrical cabinet door if there is no room on the B pillar)
Tire and Loading Information Label (for under 10k GVWR only)	
Must be Seated and Belted	Visible from each seating position
No Smoking/Oxygen Equipped	One each in cab and patient compt.
Overall Height and GVWR	Visible to the driver while seated
Medical Gas Test Certification	Near the medical gas cylinder
Shorepower Inlet Rating	Near the shorepower inlet
Line Voltage Receptacle Rating	At each receptacle

8

MISCELLANEOUS EQUIPMENT

8.01

LOOSE EQUIPMENT

The following equipment shall be shipped loose with the vehicle:

- Touch-up paint, one bottle each:
 - To match Charcoal Metallic 479 (G4-5356817)
 - To match Pierce Red 452 (G4-5235854)
 - White (G2-33631 Alt 2)
 - Gray (GLV-51748)
- Spare tire & wheel
- One 12.5 ft hose
- Two compartment keys, J236
- Four key fobs
- One ABC 5 lb fire extinguisher with an Amerex #861H SAE-J3043 compliant bracket
- Safety Vision remote control

8.02

CUSTOMER SUPPLIED EQUIPMENT

The customer shall provide the following equipment and have delivered to Braun Northwest within 30 days of the preconstruction meeting:

- Stryker Power-LOAD #6390 cot fastener system with safety hook
- Motorola radio transceiver with dual remote heads, auxiliary speakers, and mics

8.04

EQUIPMENT INSTALLED AT CUSTOMER INSPECTION

The following items shall be installed at customer's final inspection:

- Two Magnetic Mic clips
- Fire Extinguisher and bracket

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