



# Bid Specification

P. J. Lukasewski Braun Bid Spec 2021-03-04 12-04-18

**Reference:** QUO0000003244 Rev: 0  
**Purchaser:** Penn Care  
**Contact:** Taylor Pease  
**Address:** 1317 North Road  
 Niles, OH

**Opportunity:** TEST  
**Account:** Test  
**Quote Owner:** P. J. Lukasewski  
**Shipping Address:**

**Telephone:**

**Currency:** USD  
**Quotation Date:** 2021-03-04  
**Expiration:** 2021-04-03

Name	Specifications
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Chief XL Type I



-72" Headroom  
 -169"L Full Seam Welded Module

## Braun - KKK Change Notice

Item Number	Name
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00-01-0001	<p>GENERAL CONDITIONS</p> <p><b>PURCHASER:</b> The "Purchaser" who is hereinafter described as an individual, or a group of individuals who represent the interest of a City, Borough, County, Parish, State, or Private enterprise AND has been charged with the responsibility of purchasing one or more emergency medical ambulance(s).</p> <p><b>BIDDER:</b> The "Bidder" is hereinafter defined as the ambulance manufacturer and/or it's authorized Representative/Dealer.</p> <p><b>BIDDER'S INSTRUCTIONS</b></p> <p>Bidders shall thoroughly examine all drawings, specifications, schedules, instructions and any other documents supplied as part of this invitation to bid and shall make all investigations necessary to thoroughly inform themselves regarding the content of the written specifications, drawings, and instructions supplied herein. No plea of ignorance by the bidder pertaining to the content of the specifications, drawings, schedule, or instructions will be considered by the purchaser on the deadline, if bid submission has occurred. Failure or omission on the part of the bidder to make the necessary examinations and investigations into the content of the specifications AND make all clarifications or explanations of exceptions and conditions that exist or that may exist hereafter shall NOT be accepted as a basis for making variations to the requirements of the purchaser or compensation to the bidder.</p> <p>CLARIFICATIONS: Clarifications shall be written correspondence between the bidder and the purchaser. A clarification shall include the page number, paragraph number, the text with unclear content (as written in the specification) and the definition of the clarification provided.</p> <p>The Purchaser's clarifications shall be documented in writing and distributed to all qualified bidders at least two business days prior to the deadline for bid submission.</p> <p>EXPLANATION OF EXCEPTIONS: Bidders may take exceptions to any part of the bid contained herein with a written itemized schedule. The schedule shall include the page number, paragraph number(s), the text that the bidder feels he cannot comply with and an explanation why the bidder feels that the requirement is not in the best interest of the purchaser AND/OR an alternate bidder solution. Alternate bidder solutions may be</p>	<p>Y ___ N ___</p>
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considered by the purchaser, if the bidder can show the purchaser that the alternate solution is, in quality and quantity, equal to OR better than the specified item. Explanations of exceptions taken must be documented and submitted with the bid proposal on or before the bid submission deadline.

**PURCHASER'S INTENT**

The intent of the specifications supplied herein is to purchase an ambulance with the highest level of quality and engineering excellence. The intent of this vehicle is centered on the patient's need for pre-hospital care, in conjunction with a safe working environment for the Emergency Medical Personnel.

**NO ALTERNATE BIDS TAKING TOTAL EXCEPTION**

BID PACKAGES SHALL NOT TAKE TOTAL EXCEPTIONS: Bidders are required under this bid invitation to give, for the consideration of the purchaser, a proposal that will comply with the written specifications, drawings, and schedules supplied herein. The specifications supplied represent a compilation of input from all disciplines of users, patients, maintenance and management personnel who are directly affected by the vehicle performance. All the personnel who have direct working contact with the vehicle specified herein base careful consideration pertaining to safety, configuration, construction, and workmanship on working experiences. The intent of this ambulance was created as a result of resolving issues and improvement suggestions that have originated from the personnel most QUALIFIED to make such input.

The purchaser makes no claim that potential issues or improvements are included in the specifications supplied herein. The purchaser will consider any valid concern by any bidder and will consider only minor specification exceptions or alternates of equal or better performance, provided that the exceptions are steered toward meeting the intent AND the exceptions are submitted with the final bid proposal on or before the bid deadline.

**CAUTION:** A bidder who submits a bid that takes "Total Exception" and makes an offering of some "Standard" or "Stock" unit will be viewed by the purchaser as a bidder who did not make, and is not prepared to make, a valid bid, and is not qualified to manufacture the ambulance as specified herein. Alternate bids shall NOT be considered.

**INTER-AGENCY AGREEMENTS (PIGGY-BACK)**

It is the intent of this bid document to make available to other government entities, by mutual agreement with the successful Bidder, the right to purchase the same or like equipment and or products, at the prices quoted for the period of the contract. Each Bidder shall indicate in the bid proposal, if the Bidder will honor other political subdivision's orders, in accordance with contract terms and conditions. This procedure is sometimes identified as a "Piggy-Back" Bid.

**VENDOR QUALIFICATIONS**

Regardless of chassis purchased, all bidders shall be members in good standing of the Ford Motor Company Qualified Vehicle Modifier Program (Q.V.M.). Certification verification shall be provided with the bid response. If for any reason the Q.V.M. Certification was withdrawn or suspended by Ford Motor Company within the past five years, the bidder shall supply a full written explanation of the Q.V.M. withdrawal or suspension and any corrective actions taken to regain Q.V.M. Certification.

**PRODUCT LIABILITY INSURANCE**

A Certificate of current liability insurance, with a Twenty-one Million Dollar minimum shall be supplied with the bid submission. The certificate of insurance shall bear the insurance carrier's name, address, and phone number. The Certificate shall also bear the name and address of the insured. This document shall contain the coverage schedule, explaining the type of insurance, the policy number, the effective date of coverage, the policy expiration date, and the individual limits of liability.

**DRUG FREE WORKPLACE**



The bidder shall conduct business as a Drug Free Workplace. The bidder/manufacturer shall provide notice to their employees as required under the Drug Free Workplace Act of 1988. A copy of the bidder's Drug Free Workplace policy shall be furnished to the purchaser upon request.

**CHASSIS POOL**

The bidder shall be a member of the Ford Motor Company's and/or the General Motor Company's Chassis Bailment Pool, regardless of the chassis specified within this specification. The bidder shall provide a current Ford Motor Company and/or General Motor Company's Pool account number to the purchaser upon request.

**AMBULANCE SPECIFICATION**

All ambulance modules in this specification must be built in the United States of America.

**PRODUCT TESTING**

AMBULANCE MANUFACTURER'S DIVISION: The Bidder shall be a member in good standing with the National Truck Equipment Association (N.T.E.A.) and the Ambulance Manufacturer's Division (A.M.D.) of N.T.E.A. The bidder shall supply a letter with the bid response to verify current membership in both the N.T.E.A. and the A.M.D.

**SAE J3057: AMBULANCE MODULAR BODY EVALUATION-QUASI-STATIC LOADING FOR TYPE I AND TYPE III MODULAR AMBULANCE BODIES**

SAE J3057 – The ambulance described herein shall be tested and pass all requirements of SAE J3057: Ambulance Modular Body Evaluation-Quasi-Static Loading for Type I and Type III Modular Ambulance Bodies. The test results shall be certified by an independent engineering firm not directly associated with the Ambulance Manufacturer. These certified test results shall be supplied to the purchaser upon request.

**ROLLOVER CRASH TEST**

The manufacturer shall perform a dynamic rollover crash test with video documentation to be provided to the Purchaser upon request. Crash tests shall be performed within a controlled and repeatable environment. All testing shall be performed by an ISO/IEC 17025 accredited laboratory by an accreditation body that is recognized by the National Cooperation for Laboratory Accreditation (NACLA) or is a signatory to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA). Refer to the following publications for specifications:

- SAE J211-1 Instrumentation for Impact Test – Part 1: Electronic Instrumentation
- SAE J211-2 Instrumentation for Impact Test – Part 2: Photographic Instrumentation
- SAE J21733 Sign Convention for Vehicle Crash Testing
- SAE 3027 Ambulance Litter Integrity, Retention, and Patient Restraint

**SIDE IMPACT CRASH TEST**

The manufacturer shall perform a dynamic side impact crash test with video documentation to be provided to the Purchaser upon request. Crash tests shall be performed within a controlled and repeatable environment. All testing shall be performed by an ISO/IEC 17025 accredited laboratory by an accreditation body that is recognized by the National Cooperation for Laboratory Accreditation (NACLA) or is a signatory to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA). Refer to the following publications for specifications:

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- SAE J21733 Sign Convention for Vehicle Crash Testing
- SAE 3027 Ambulance Litter Integrity, Retention, and Patient Restraint

**KKK-A-1822F TESTING CERTIFICATION**

The bidder shall provide documentation within this bid proposal, which verifies that all KKK-A-1822F testing is current and certified by an independent engineering firm.

**QUALITY ASSURANCE - SPECIFICATION COMPLIANCE**



The manufacturer shall inspect and test all systems and electrical loads per Federal specification KKK-A-1822F Section 4. Testing results shall be documented and displayed in the oxygen compartment and supplied with the vehicle delivery handbook.

NOTE: The purchaser will have zero tolerance towards bidder/vendors who state compliance to specification, but delivers an incomplete product and/or substandard materials and workmanship.

**NON-COLLUSIVE BID CERTIFICATION**

By submission of this bid response, the Bidder and/or Bidder's authorized representative(s), certify under penalty of perjury, to the best of their knowledge and belief the following:

- A. The prices in this bid response have been arrived at independently without collusion, consultation, communication, or agreement for the purpose of restricting competition, as to any matter relating to such prices with any other Bidder or with any competitor, and;
- B. Unless otherwise required by law, the prices which have been quoted in the bid response have not knowingly been disclosed by the Bidder and will not knowingly be disclosed by the Bidder, prior to the public bid opening, either directly or indirectly to any competitor, and;
- C. No attempt has been made or will be made by the Bidder, for the purpose of restricting competition, to induce any person, partnership, or corporation not to submit a bid response.

**DEBARMENT STATUS**

By submission of this bid response, the Bidder and/or its authorized representatives, certify under penalty or perjury, that to the best of their knowledge and belief they are not currently debarred from submitting bids or bidding on contracts from any agency within the home state of the purchaser, nor are they an agent of any person or entity that is currently debarred from submitting bids on contracts by any agency within the home state of the purchaser.

**DELIVERY STATEMENT**

The bidder shall state the number of calendar days required for delivery of the completed ambulance, after receipt of an order and receipt of chassis by the manufacturer.

Delivery shall be within \_\_\_\_\_ calendar days after receipt of order and receipt of chassis. (State number of calendar days)

**REQUIRED DELIVERY ITEMS**

REQUIRED DELIVERY ITEMS: Upon a successful bid award, the vendor shall provide the following to the purchaser, upon ambulance delivery:

- 1. Manufacturer's Quality Assurance Vehicle Testing and acceptance documents.
- 2. One (1) copy of conversion parts, service, and operational manuals.
- 3. OEM Chassis Owner's Guide materials as provided by the chassis manufacturer.
- 4. Two (2) copies of "as built" customized electrical schematics for the ambulance conversion.

**PURCHASER'S RIGHTS**

ACCEPTANCE OR REJECTION: The Purchaser reserves the right to accept or reject any and all bids as deemed to be in the best interest of the purchaser and is not bound to accept the lowest bid.

BID PROPOSAL TIME LIMITS: All bids submitted to the purchaser shall remain in effect for a minimum period of (60) sixty calendar days.

BID WITHDRAWAL: Only written bid withdrawal requests will be accepted by the purchaser. Bid withdrawals received less than (3) three working days prior to the advertised bid opening will not be accepted.

**FORCE MAJEURE**



The manufacturer shall not be liable or responsible to Purchaser, nor be deemed to have defaulted or breached these Terms and Conditions, for any failure or delay in fulfilling or performing any of these Terms and Conditions when and to the extent such failure or delay is caused by or results from acts or circumstances beyond the reasonable control of the manufacturer including, without limitation, acts of God, flood, fire, earthquake, explosion, governmental actions, war, invasion or hostilities, terrorist threats or acts, riot or other civil unrest, national emergency, revolution, insurrection, epidemic, lockouts, strikes or other labor disputes (whether or not relating to either party's workforce), restraints or delays affecting carriers, inability or delay in obtaining supplies of adequate or suitable materials, or telecommunication breakdown, or power outage. Any delays of subcontractors occasioned by any of the causes specified in the immediate preceding clause.

**00-01-0006** DYNAMIC SIDE IMPACT & ROLLOVER TESTS Y \_\_\_ N \_\_\_

Bidder shall perform Dynamic Side Impact & Rollover Tests with same module that was involved in side impact crash test. This module must be the same brand, make, and model for both tests. Video documentation to be provided to the Purchaser upon request. Crash test shall be performed within a controlled and repeatable environment, validated by a third party testing facility.

**00-01-0018** BIDDER KKK-A-1822F CHANGE NOTICE 8 COMPLIANT Y \_\_\_ N \_\_\_

Bidder shall be KKK-A-1822F Change Notice 8 compliant to meet SAE J3026 - Ambulance Patient Compartment Seating Integrity and Occupant Restraint Standards, and SAE J3027 - Ambulance Litter Integrity, Retention, and Patient Restraint Standards.

**00-01-0019** BIDDER KKK-A-1822F CHANGE NOTICE 9 COMPLIANT Y \_\_\_ N \_\_\_

Bidder shall be KKK-A-1822F Change Notice 9 compliant to meet SAE J3043 - Ambulance Equipment Mounts; Interior Stowage Accommodations; Equipment Mounting Devices: Installed Oxygen cylinder, cardiac monitor, and fire extinguisher mounting devices shall meet the performance requirements of SAE J3043.

**00-01-0020** BIDDER KKK-A-1822F CHANGE NOTICE 10 COMPLIANT Y \_\_\_ N \_\_\_

Bidder shall be: KKK-A\_1822F Change Notice 10 compliant to meet: SAE J3058 - Ambulance Interior Storage Compartment Integrity; SAE J3057- Ambulance Modular Body Evaluation-Quasi-Static Loading for Type I and Type III Modular Ambulance Bodies; SAE J3102- Ambulance Patient Compartment Structural Integrity Test to Support SAE J3027 Compliant Litter Systems; SAE J3043 - Ambulance Equipment Mounts, Interior Stowage Accommodations, Equipment Mounting Devices; Installed suction mounting; to conform to all applicable requirements.

**00-01-0022** BIDDER KKK-A-1822F CHANGE NOTICE 11 COMPLIANT Y \_\_\_ N \_\_\_

Bidder cab console to meet SAE J3043; Ambulance Equipment Mount Device or Systems, to be KKK-A-1822F Change Notice 11 compliant and shall be labeled with its weight capacity.

**00-01-0023** BIDDER KKK-A-1822F CHANGE NOTICE 12 COMPLIANT Y \_\_\_ N \_\_\_

Revision to the existing standards include Temperature Conditions; Engine High-Idle Speed Control; Ambulance Emergency Lighting; Photometric, Chromaticity, and Physical Requirements; Tests, Warning Light System; Flood and Loading Light (Exterior); Bumpers and Steps; Doors; Equipment Mounting Devices; Oxygen Main Supply and Installation; Ventilation Criteria; Siren – Public Address System; and Test Criteria.



<b>80-10-0000</b>	KKK-A-1822F COMPLIANCE PACKAGE A KKK-A-1822F compliance sticker, electrical load analysis sticker, and payload sticker shall be installed in the oxygen compartment. Any deviations from KKK-A-1822F shall be listed in the vehicle delivery packet with a notation on the-compliance sticker. -----	Y___N___
<b>00-01-0029</b>	NO STS, HGAC, FSA, SOURCEWELL OR GPO CONTRACT REQUIRED -----	Y___N___
<b>00-01-0053</b>	NO BOND REQUIRED No Bond is Required -----	Y___N___

**Braun - Chassis**

<b>Item Number</b>	<b>Name</b>	
<b>00-01-0040</b>	Administration Fee -----	Y___N___
<b>01-01-0243</b>	TYPE I - AMBULANCE - CHIEF XL I - 72 INCH INTERIOR HEADROOM SPECIFICATION INTENT: Type I, 169-inch module, constructed with not less than 72- inches interior module height, an overall length of 306.50-inches, an overall width of 98- inches, and an overall height not to exceed 112-inches. -----	Y___N___
<b>19R24500L</b>	CHASSIS RAM R4500 192.5" WB 4X2 (108 C.A.) DIESEL ENGINE VEHICLE 2021 4500 REG CAB CHASSIS 4X2 (192.5 in WB) (DP4L65) MODEL DP4L65 4500 REG CAB CHASSIS 4X2 (192.5 in WB) PACKAGES 2YA Customer Preferred Order Package Includes: <ul style="list-style-type: none"> <li>• ETN Engine 6.7L I6 Cummins Turbo Diesel</li> <li>• DF2 Transmission 6-speed automatic Aisin AS69RC HD</li> <li>• MZZ Black wheel flares</li> <li>• CLP Door Sill Scuff Pads</li> <li>• JKH Glove box</li> <li>• LME Halogen Quad Headlamps</li> <li>• CEU Key Fob Black</li> <li>• LBA Map/Courtesy Lamp</li> <li>• LCH Rear Dome Lamp</li> <li>• CV3 Urethane Shift Knob</li> </ul> ETN Package Includes: <ul style="list-style-type: none"> <li>• DMF 4.10 Axle Ratio</li> <li>• JJ6 87 Mph Maximum Speed</li> <li>• XXJ Bio Diesel Capability</li> <li>• XKH Clean Idle Emissions Label</li> <li>• MPG Cummins Turbo Diesel Badge</li> <li>• NZC Current Generation Engine Controller</li> <li>• BCC Dual 730 Amp Maintenance Free Batteries</li> <li>• NHN Electronically Controlled Throttle</li> <li>• XAL Selective Catalytic Reduction</li> </ul>	Y___N___



- NEN Smart Diesel Exhaust Brake
- HDB Supplemental Heater

UAA Uconnect 3 Package Includes:

- RFU 5.0" Touch Screen Display
- RSD Siriusxm Satellite Radio
- X9B 1 Year Siriusxm Radio Service
- X9H For More Information Call 800-643-2112
- JLP GPS Antenna Input
- XRB Integrated Voice Command w/ Bluetooth
- JFJ Temperature and Compass Gauge

AMP Chrome Appearance Group Package includes:

- MCT Bright Front Bumper
- MAF Grille Matte Black Mesh w/Chrome
- MNQ Grille Surround Chrome

ADE Cold Weather Group Package includes:

- NHK Engine Block Heater
- XD6 Winter Front Grille Cover

AH6 Emergency/Fire/Rescue Special Emissions Package Includes:

- XF7 Dual 220 Amps Alternators Rated At 440 Amps
- XNR Manual DPF Regeneration
- HBC Rear A/C Heater Prep Group
- XKZ Special Emissions-Emergency Vehicle
- XF6 Voltage Monitoring Auto Idle Up System

A61 Tradesman Level 1 Equipment Group Package Includes:

- LEB Exterior Mirrors W/Supplemental Signals
- LEC Exterior Mirrors Courtesy Lamps
- NJH Exterior Mirrors W/Heating Element
- LYN Mirror Running Lights
- CUN Overhead Console
- LBT Overhead Cupholder Lamp
- GPG Power Black Trailer Tow Mirrors
- JPY Power Windows, Front 1-Touch Down
- GXM Remote Keyless Entry w/o 2TG
- MTN Satin Chrome Interior Door Handles
- JPH Speed Sensitive Power Locks
- CTY Upgraded Door Trim Panel w/o 2TG

PAINT/SEAT/TRIM

- PW7 Bright White Clear Coat



- APA Monotone Paint
- \*V9 Cloth 40/20/40 Bench Seat
- -X8 Black/Diesel Gray

#### OTHER FEATURES

- GFD Rear Sliding Window
- TBB Full Size Spare Tire – 19” .5 steel spare wheel
- ME4 “RAM” Door Badges
- ME6 “RAM” Grille Badge
- CJT Delete Front Center Seat
- DJK 10.5" Front Axle
- CLY Front Rubber Floor Mats
- DRY 12.0” Banjo Rear Axle
- JCB 120 Mph Primary Speedometer
- JJJ 12v Auxiliary Power Outlet
- WP3 19.5x6.0 Steel Wheels
- TAE 225/70R 19.5G All Position Tires
- RCD 4 Speakers
- SCF 4-Spoke Steering Wheel
- NAS 50 State Emissions
- NFH 52 Gallon Rear Fuel Tank
- XFK 7 Pin Trailer Wiring Harness
- RD3 Accent Color Shark Fin Antenna
- MDX Active Grille Shutters
- CG3 Advanced Multistage Front Air Bags
- HAA Air Conditioning
- DR8 American Axle Brand
- BRT Anti-Lock 4-Wheel Disc Brakes
- DSA Anti-Spin Differential Rear Axle
- RSU Audio Jack Input for Mobile Devices
- LHL Auxiliary Switches - I/P Mounted
- NHB Auxiliary Transmission Oil Cooler
- CTL Base Door Trim Panel
- A6A Base Equipment Group
- CU3 Behind The Seat Storage / Bin
- MNA Black Door Handles
- LE4 Black Exterior Mirrors
- CKJ Black Vinyl Floor Covering
- MMZ Black Wheel Flares
- LB6 Bulb Out Detection Defeat For Led
- X75 Bumper Module II





- X8S Center Console Parts Module
- MFP Chrome Headlamp Bezels
- LNC Clearance Lamps
- JAE Cluster 3.5" TFT BW Display
- HGB Dash Liner Insulation
- LM1 Daytime Running Headlamps, Low Beam
- LP8 Delete Cargo Lamp
- XBC Delete Pickup Box
- X82 Door Parts Module
- CSP Driver/Passenger Assist Handles
- CDX Driver Passenger Headrest
- JVA Driver Seat - Manual Adjust 4-Way
- JJB Dual Note Electric Horns
- WLA Dual Rear Wheels
- DH4 Electronic Range Select
- BNB Electronic Stability Control
- NHJ Exterior Mirrors w/ Heating Elements
- HGF Floor Tunnel Insulation
- GPD Folding Trailer Tow Mirrors
- MXB Front Air Dam
- CDR Front Armrest w/Cupholders
- X83 Front End Parts Module
- SFB Front Heavy Duty Shock Absorbers
- CGD Front Height Adjust Shoulder Belts
- MDA Front License Plate Bracket
- SHA Front Stabilizer Bar
- MHR Front Wheel Well Liners
- JWA Front Pass Seat - Manual Adjust 4-Way
- LHD Headlamp Off Time Delay
- X8Y Headliner Parts Module
- NMC Heavy Duty Engine Cooling
- JE1 I/P Bezels-Painted
- JY1 Instrument Cluster Theme 1
- X81 Instrument Panel Parts Module
- XZG Job Rated
- RSF Media Hub-2 USB, Full Function, Auxiliary
- LNY Mirror Running Lights
- XA8 Non Adjustable Pedals
- GNM Passenger Side Sun Visor W/Mirror
- JKY Power Accessory Delay
- SBE Power Steering



- GX4 Pushbutton Start
- MUP Ram 4500 Badge
- BHD Ready Alert Braking
- SGB Rear Heavy Duty Shock Absorbers
- SHD Rear Heavy Duty Stabilizer Bar
- GNA Rear View Day/Night Mirror
- RS3 Remote USB Port - Charge Only
- RSX Remote USB Port
- X8Z Seat Parts Module
- GXX Sentry Key Theft Deterrent System
- NHM Speed Control
- BNF Stationary Elevated Engine Idle
- SUA Tilt Steering Column
- GAC Tinted Glass Windows
- GBB Tinted Windshield Glass
- XBN Tip Start
- X88 Tire Wheel Parts Module
- XEA Tow Hooks
- LEG Trailer Tow Mirrors
- XXS Upfitter Electronic Module
- RF7 USB Host Flip
- JHA Var Intermittent Windshield Wipers
- LAZ Vehicle Information Center

GAWR FRONT 7,000 LBS  
 GAWR REAR 12,000 LBS  
 GVWR 16,500 LB

<b>15-00-0010</b>	FUEL TANK - FULL UPON FACTORY RELEASE The chassis fuel tank of the completed unit shall be full at time of release from the ambulance manufacturer's facility. -----	Y ___ N ___
<b>20-10-0603</b>	ENGINE BLOCK HEATER - OEM PLUG An engine block heater shall be included in the chassis with the 125 VAC power cord, located under the hood. -----	Y ___ N ___
<b>20-20-0252</b>	HEAT SHIELDS, PROTECTIVE Aluminized steel protective heat shields shall be installed to the upper laterals above the exhaust system to help protect the module from the chassis exhaust system heat. This shall meet OEM guidelines for heat shields. -----	Y ___ N ___
<b>20-20-0277</b>	HIGH IDLE SYSTEM, AUTOMATIC An aftermarket auto high-idle system shall be provided on the chassis. The high-idle shall be programmed to activate when the transmission is placed in the park position and the parking brake is activated. The system will automatically go to high idle, but will	Y ___ N ___



adjust itself as needed for higher or lower idle. If the module heat or a/c is activated the high idle will be over ridden to 1500 rpm

- 20-01-0105**      **SUSPENSION - LIQUID SPRING TYPE I**      Y \_\_\_ N \_\_\_  
A CLASS®, or Compressible Liquid Adaptive Suspension System, shall be provided and installed. 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® 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. The system shall include an automatic lowering feature, which is activated by opening the rear patient compartment doors. There shall be a switch near the rear doors which will defeat the lowering feature.
- 20-10-0208**      **BATTERY - TWO SYSTEM -RAM SERIES CHASSIS**      Y \_\_\_ N \_\_\_  
The vehicle shall have a 12 V two (2) battery system rated at 1460 cold cranking amps. Both batteries shall be securely installed in the OEM locations, under the vehicle hood.
- 20-10-0221**      **ADDITIONAL BATTERY NOT REQUIRED**      Y \_\_\_ N \_\_\_  
Additional battery not required
- 20-21-0201**      **FLOOR CONSOLE R4500 STANDARD CONSOLE - ALUMINUM**      Y \_\_\_ N \_\_\_  
A center floor console manufactured out of aluminum and covered in a black onyx scratch resistant, multi-use polychromatic coating with a clear epoxy finish shall be installed in the cab. The console face plates shall be removable for accessibility and serviceability. The Console System is to be SAE J3043 Ambulance Equipment Mount Device or Systems compliant and shall be labeled with its weighted capacity. PLEASE NOTE: Console drawings are for reference only and do not include all features depicted on the drawings. All consoles shall be designed, priced, and approved internally to allow for accurate BOM pricing. The prices shown are estimated for general budget pricing only and pricing is subject to design; must contact manufacturer for pricing validation.
- 30-10-0030**      **BACKUP ALARM**      Y \_\_\_ N \_\_\_  
An (OSHA approved) back up alarm shall be installed with a disable control for silent backing. The disable control shall be located on the MCC (master control console). The back up alarm system shall automatically reset to the "on" mode when the transmission is taken out of reverse.
- 20-30-0806**      **RUNNING BOARDS - STAR PUNCHED DIAMOND PLATE**      Y \_\_\_ N \_\_\_  
Aluminum diamond plate running boards with a star punched non-skid surface shall be provided on the cab. The running boards shall be bright dip anodized after they are formed to retain finish and increase corrosion resistance.
- 20-30-0210**      **MIRRORS, EXTERIOR OEM POWER TRAILER TOW MIRRORS**      Y \_\_\_ N \_\_\_  
The chassis shall have OEM black power trailer tow mirrors. These shall contain supplemental signals, courtesy lamps, running lights and heating element.
- 30-10-0753**      **SIREN, WHELEN 295-HFSA7-REMOTE WITH MICROPHONE (Meets CA Title 13)**      Y \_\_\_ N \_\_\_  
A Whelen 295-HFSA7 remote dual siren amplifier shall be flush-mounted in the master control console located in the cab. The siren shall be capable of hands-free operation and shall be equipped with a noise canceling microphone. Note - Meets CA Title 13. Some features of this siren include:



**DUAL 200 WATT, FLUSH MOUNT SIREN with REMOTE SIREN AMPLIFIER**

- Six function siren plus radio repeat and public address.
- Operates two 100-watt speakers.
- Operates in dual (outputs 2 independent siren tones creating rich harmonic dual tone sound) or mono sound modes.
- External dip switch programmable siren tones.
- PTT (push to talk) switch on microphone overrides all siren functions.
- Removable unidirectional microphone with adjustable microphone volume adjustable preset radio repeat volume.
- SI TEST®, silent diagnostic test.
- Quick disconnect plug for ease of service or replacement.

**12 Siren Tones**

- Air horn
- Wail
- Yelp
- Piercer
- Manual Coast to Stop
- Manual
- Mechanical Coast to Stop
- Hi/Low
- Yelp 249
- Warble
- Whoop
- Mechanical Tone

<b>30-10-0815</b>	SIREN SPEAKERS, WHELEN SA315 - IN BUMPER Whelen dual 100 watt siren speakers shall be installed in the bumper opening. -----	Y___N___
<b>30-10-0817</b>	SIREN SPEAKERS, ADDITIONAL NOT REQUIRED -----	Y___N___
<b>20-40-0206</b>	WHEEL SIMS - STAINLESS WITH VALVE STEM EXTENSIONS - RAM CHASSIS Stainless steel full wheel simulators shall be provided for the front and the outside rear wheels. Air Maxvalve extensions shall be provided to properly inflate the inner dual rear tires. -----	Y___N___

**Braun - Electrical**

Item Number	Name	Y___N___
<b>30-06-0004</b>	ELECTRICAL SYSTEM - WELDON V-MUX, MICRO PROCESSOR BASED A Weldon V-MUX 100% solid state microprocessor based multiplex system shall be installed to control the electrical functions. The system shall include load management, load shedding, power modulation, load sequencing capabilities and provide on-board diagnostics with real-time status reporting. The system shall consist of one (1) color control console (Vista) in the cab, one (1) color control console (Vista) in the patient compartment, a total of three (3) control nodes: two (2) High Content nodes and one (1) 8 X 16 node, and a module warning display with video input and monitoring	Y___N___



capabilities. The system must be a Weldon V-MUX. No exception. Bidders who propose any other proprietary electrical system shall be considered as non-compliant. Documentation required with bid submission. Bidder must supply with his/her bid proposal, a listing of not less than 500 ambulances produced with the Weldon V-MUX system within the past 5 years. The documentation shall include a production order number, the purchaser's agency name, and the date the ambulance was delivered. Bids submitted without this documentation shall not be considered.

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|-------------------|---|----------|
| <b>30-10-0110</b> | <p>ELECTRICAL CIRCUITS</p> <p>All electrical circuits shall have wiring and circuit protection suitable to the demand and must meet the national electric code (NEC) wiring requirements. All added on wiring (18 GA through 10 GA) shall be color coded and stamped with code numbers and functions every 4" for easy identification (all other wiring shall be color coded). SLX high temperature thermoplastic cross link wire shall be used. insulated cable shall be used for all under hood / underbody battery and charging system cable. High temperature (375° f) thermoplastic loom shall be used on all harnesses.</p>   | Y___N___ |
| <b>30-06-0126</b> | <p>ELECTRICAL COMPARTMENT (PDQ) - MULTIPLEX ELECTRICAL SYSTEM</p> <p>The Power Distribution Quarters (PDQ) shall hold electrical components, (i.e. power distribution nodes, circuit breakers, etc). The electrical compartment shall have a hinged door with two (2) chrome locking lever latches and be shall located on the partition wall behind the attendant seat.</p>  | Y___N___ |
| <b>30-06-0325</b> | <p>FLASHER - MULTIPLEX ELECTRICAL SYSTEM</p> <p>The flasher shall be provided within and programmed by the multiplex electrical system.</p>   | Y___N___ |
| <b>30-06-0350</b> | <p>FLASHING HEADLIGHTS - MULTIPLEX ELECTRICAL SYSTEM</p> <p>The headlights (high beams) shall be programmed through the multiplex system to alternate flash (wig-wag), activated by a switch on the master control console screen labeled "Flashing Headlights", with the ignition on and module power and emergency master switches enabled. The flashing headlights are to be disabled when the low or high beams are activated. They are also disabled when the transmission is placed in the neutral/park position. The flashing headlights shall have the capability to be reactivated with the "park override" switch in the "on" position if the low and high beams are off.</p> | Y___N___ |
| <b>30-10-0190</b> | <p>GROUND FAULT CIRCUIT INTERRUPTER-GFCI</p> <p>A 125 VAC, 20 AMP circuit breaker with ground fault circuit interrupter (GFCI) electronic ground leakage detection shall be installed in the load center for the shoreline circuit.</p>   | Y___N___ |
| <b>30-06-0285</b> | <p>MODULE DISCONNECT - MULTIPLEX ELECTRICAL SYSTEM</p> <p>An In-Power 15 minute, nonadjustable disconnect shall be installed to keep the module power switch engaged, after the ignition is switched to the "off" position. This disconnect can also be activated from the side and rear doorways to turn on the check-out lights.</p>  | Y___N___ |
| <b>30-06-0575</b> | <p>REVERSE -TRANSMISSION- FUNCTIONS - MULTIPLEX ELECTRICAL SYSTEM</p> <p>The system shall be programmed to provide activation for the rear outboard warning lights, the rear side warning lights, the rear scene lights, and the rear side scene lights, when the transmission selector lever is placed into "reverse" position.</p>  | Y___N___ |



<b>30-06-0150</b>	<p>SPARE CIRCUIT - MULTIPLEX ELECTRICAL SYSTEM</p> <p>One (1) spare 15 amp circuit shall be provided.</p> <p>-----</p>	Y ___ N ___
<b>30-06-0175</b>	<p>WIRING HARNESS CONNECTORS - MULTIPLEX ELECTRICAL SYSTEM</p> <p>All wiring harnesses shall be connected via quick connect circular plug connectors.</p> <p>-----</p>	Y ___ N ___
<b>30-06-0300</b>	<p>VOLTMETER - MULTIPLEX ELECTRICAL SYSTEM</p> <p>One (1) digital voltmeter shall be provided on the master control console screen.</p> <p>-----</p>	Y ___ N ___
<b>30-06-0026</b>	<p>WARNING DISPLAY - MULTIPLEX ELECTRICAL SYSTEM</p> <p>A digital warning display shall be integrated into the cab display console and programmed through the multiplex system to provide visual and audible indications for: Parking brake set condition, Parking brake release condition, Patient status alarm (four color with reset capability), Individual outside storage compartment "door open" warnings in vehicle outline form, Low voltage alarm, Low oxygen pressure alarm.</p> <p>-----</p>	Y ___ N ___
<b>30-06-0225</b>	<p>EMERGENCY MASTER SWITCH - MULTIPLEX ELECTRICAL SYSTEM</p> <p>A single emergency master switch shall be supplied for activating all the emergency warning lights and shall be provided on the master control console screen. The emergency master switch will activate the module power automatically. There shall also be an Emergency Master Menu button which shall allow access to individual warning light functions.</p> <p>-----</p>	Y ___ N ___
<b>30-06-0250</b>	<p>CONTROL PANEL SWITCHES - MULTIPLEX ELECTRICAL SYSTEM</p> <p>The switches on the master control console and attendant control panel screens shall have dimmable perimeter backlighting for easy identification.</p> <p>-----</p>	Y ___ N ___
<b>30-06-0275</b>	<p>MODULE POWER SWITCH - MULTIPLEX ELECTRICAL SYSTEM</p> <p>A module power switch for the electrical system shall be provided on both the Master Control Console and the Attendant Control Panel screens.</p> <p>-----</p>	Y ___ N ___
<b>30-06-0101</b>	<p>ATTENDANT CONTROL PANEL (ACP) - MULTIPLEX ELECTRICAL SYSTEM</p> <p>The Attendant Control Panel (ACP) shall contain a color micro processor screen, which will control all equipment installed in the patient compartment.</p> <p>-----</p>	Y ___ N ___
<b>30-06-0375</b>	<p>PARK OVERRIDE - MULTIPLEX ELECTRICAL SYSTEM</p> <p>A park override switch, located on the master control console screen, shall reactivate all lights disabled when the transmission is placed in the neutral/park position.</p> <p>-----</p>	Y ___ N ___
<b>30-06-0400</b>	<p>LOAD MANAGER-SEQUENTIAL SWITCHING SYSTEM - MULTIPLEX ELECTRIC SYSTEM</p> <p>The load manager-sequential switching system shall be controlled by the microprocessor based electrical system. The emergency master button shall control the sequential switching of the emergency lights and/or other warning devices. The load manager shall automatically shed non-critical electrical loads during low voltage conditions to help prevent electrical system overload when the vehicle is stationary and the transmission is in the park position.</p> <p>-----</p>	Y ___ N ___
<b>30-06-0450</b>	<p>FRONT CLEAR DISABLE SWITCH - MULTIPLEX ELECTRICAL SYSTEM</p> <p>Activation of the switch on the master control console screen shall disable all forward facing clear warning lights.</p> <p>-----</p>	Y ___ N ___



<b>30-06-0076</b>	<b>MASTER CONTROL CONSOLE (MCC) - MULTIPLEX ELECTRICAL SYSTEM</b> A floor mounted Master Control Console (MCC) shall be located in the cab. The console shall house the siren and the color microprocessor display screen, which will control all the Emergency Warning functions as well as also being able to control the Patient Compartment lighting and module heat/ac functions. -----	Y ___ N ___
<b>30-06-0475</b>	<b>CURBSIDE SCENE LIGHTS ON WITH CURBSIDE DOOR</b> The Curbside scene lights shall be programmed to activate when the Curbside door is in the open position. -----	Y ___ N ___
<b>30-06-0500</b>	<b>REAR SCENE LIGHTS ON WITH REAR DOORS OPEN</b> The rear scene lights shall be programmed to activate when the rear doors are in the open position. -----	Y ___ N ___
<b>30-06-0525</b>	<b>DISABLE SWITCH FOR REAR SCENE LIGHTS - MULTIPLEX ELECTRICAL SYSTEM</b> A disable switch shall be installed at the rear door area to disable the rear scene lights. -----	Y ___ N ___
<b>30-06-0550</b>	<b>DISABLE SWITCH FOR SIDE SCENE LIGHTS - MULTIPLEX ELECTRICAL SYSTEM</b> A disable switch shall be installed at the curbside door area to disable the curbside scene lights. -----	Y ___ N ___
<b>30-06-0015</b>	<b>VISTA IV ACP - PUSH BUTTON</b> A Weldon V-MUX Vista IV interface module / display screen shall be provided and mounted on an angled flip - down panel with chrome lever latches, in the patient compartment ACP area. The Vista module shall be operated through the use of push buttons. A temperature sensor shall be mounted to the bottom of the ACP panel. -----	Y ___ N ___
<b>30-06-0010</b>	<b>VISTA IV MCC - PUSH BUTTON</b> A Weldon V-MUX Vista IV interface module / display screen shall be provided and installed in the cab. The Vista module shall be operated through the use of push buttons. -----	Y ___ N ___
<b>30-06-0050</b>	<b>DAYTIME RUNNING LAMPS - MULTIPLEX ELECTRICAL SYSTEM</b> The Headlights shall be activated at 30% intensity, for day time operation, when transmission is placed in drive, as a feature of the multiplex system. (if not standard on the chassis). -----	Y ___ N ___
<b>30-10-0050</b>	<b>BATTERY CONVERTER - CHARGER</b> A Progressive Dynamics #PD9245C, 45 amp, 125 VAC to 13.6 VDC converter shall be connected to the shoreline inlet and be capable of maintaining the batteries when plugged in. -----	Y ___ N ___
<b>30-10-0071</b>	<b>CAMERA REAR VIEW - SINGLE SYSTEM - VISTA SCREEN</b> A color camera system connected to the cab Vista display screen shall be installed, providing rear view monitoring to the rear exterior of the module. The camera shall be connected to the video input provided in the cab's Vista screen. This camera image shall automatically be displayed on the MCC Vista when the vehicle is placed in reverse. The Vista shall resume normal operation when the vehicle is taken out of reverse. -----	Y ___ N ___
<b>30-10-0585</b>	<b>USB - DUAL OUTLET, ONE (1) INTERIOR LOCATED ON CONSOLE</b> One (1) dual USB port outlet, 5 volt / 2.1 amp, shall be installed on the Master Control Console in the cab. The outlet shall have power and ground for charging equipment, -----	Y ___ N ___



such as cell phones, iPad, etc...

<b>USBAA101</b>	<p>OUTLET, USB - ONE (1) DUAL - PRIMARY ACTION AREA</p> <p>One (1) dual USB port outlets, 5 volt / 2.1 amp, shall be installed in the vehicle, located on the streetside primary action area in the patient compartment. The outlet shall have power and ground for charging equipment, such as cell phones, iPad, etc...</p>	Y___N___
<b>125AA101</b>	<p>OUTLET, 125VAC - ONE (1) INTERIOR DUPLEX - LEFT WALL ACTION AREA</p> <p>One (1) 2-wire +plus ground 125 VAC hospital grade duplex outlet shall be installed in the street side wall in the primary action area, with wiring connected to the shoreline. An indicator lamp shall be located within the 125 VAC outlet as a line monitor to indicate a live circuit. The outlet shall be labeled, "125 VAC".</p>	Y___N___
<b>125AA201</b>	<p>OUTLET, 125VAC - ONE (1) INTERIOR DUPLEX - SECONDARY ACTION AREA</p> <p>One (1) 2-wire +plus ground 125 VAC hospital grade duplex outlet shall be installed in the street side wall in the secondary action area, with wiring connected to the shoreline. An indicator lamp shall be located within the 125 VAC outlet as a line monitor to indicate a live circuit. The outlet shall be labeled, "125 VAC".</p>	Y___N___
<b>125IF201</b>	<p>OUTLET, 125VAC - ONE (1) INTERIOR DUPLEX - FRONT WALL CABINET</p> <p>One (1) 2-wire +plus ground 125 VAC hospital grade duplex outlet shall be installed in the front wall cabinet, with wiring connected to the shoreline. An indicator lamp shall be located within the 125 VAC outlet as a line monitor to indicate a live circuit. The outlet shall be labeled, "125 VAC".</p>	Y___N___
<b>12VAA101</b>	<p>OUTLET, 12VDC - ONE (1) - LEFT WALL ACTION AREA</p> <p>One (1) 12 VDC power point outlet shall be installed in the street side wall in the primary action area. The outlet shall be labeled, "12 VDC". A Schottky diode medical isolator shall be provided to protect the 12 VDC outlet.</p>	Y___N___
<b>12VIF201</b>	<p>OUTLET, 12VDC - ONE (1) FRONT WALL - CABINET</p> <p>One (1) 12 VDC power point outlet shall be installed in the patient compartment, in the front wall cabinet. The outlet shall be labeled, "12 VDC". A Schottky diode medical isolator shall be provided to protect the 12 VDC outlet.</p>	Y___N___
<b>30-12-0001</b>	<p>RECEPTACLE SHORELINE INLET-SUPER 20 AMP, AUTO EJECT - YELLOW COVER</p> <p>A Kussmaul super auto eject shoreline inlet receptacle with yellow cover shall be installed on the module exterior (forward Streetside) near the driver's door. The receptacle shall be equipped with an integral dynamic disconnect. The 125VAC, heavy duty 20-amp circuit breaker shall have GFCI protection and shall be connected to the lighted 125VAC patient compartment outlet(s). A mating connector shall be shipped loose with the completed ambulance.</p>	Y___N___
<b>30-10-0657</b>	<p>RADIO ANTENNA BASES - TWO (2)</p> <p>Two (2) antenna bases with attached coax cables shall be installed on the module roof. The coax cables shall terminate in the PDQ. Access to the antenna bases shall be through adjacent module interior dome lights.</p>	Y___N___
<b>30-10-0299</b>	<p>LIGHT, ATTENDANT CONTROL PANEL AREA - TECNIQ SILHO-X LED - WARM WHITE</p> <p>A Tecniq Silho-X 2.75" round warm white LED light with SS trim ring, shall be mounted above the left wall forward action area counter. The light shall be operated through a</p>	Y___N___





button on the ACP Vista screen labeled "Attendant Light"  
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<b>30-10-0310</b>	<p>LIGHT, LED ELECTRICAL COMPARTMENT -PDQ A 12 VDC light shall be located in the electrical compartment. The light shall be wired "battery-hot" to activate when the power distribution quarter's door is in the open position. The light shall be off when the door is in the closed position.</p> <p>-----</p>	Y___N___
<b>30-11-0106</b>	<p>LIGHTS, DOME LED (8) WHELEN SUPER LED Eight (8) Super LED dome lights, Whelen #80COEHCR, shall be provided in the patient compartment. The dome lights shall be controlled by separate switches for the left bank and right bank of lights. The dome lights shall be activated by switches on both the attendant control panel and the master control console. The dome lights shall be illuminated at 50% power whenever the patient compartment side or rear doors are opened.</p> <p>-----</p>	Y___N___
<b>30-11-0152</b>	<p>LIGHTS, RIDGEBACK LED PANEL (3) STREETSIDE - ANGLED Three (3) LED lights shall be mounted on the angled panel above the streetside interior cabinets. These lights shall be three way switched from the attendant control panel and the master control console.</p> <p>-----</p>	Y___N___
<b>30-11-0176</b>	<p>LIGHTS, RIDGEBACK LED PANEL (2) CURBSIDE - ANGLED Two (2) LED lights shall be mounted on an angled panel located above the curbside seating area. These lights shall be three way switched from the attendant control panel and the master control console.</p> <p>-----</p>	Y___N___
<b>30-10-0410</b>	<p>LIGHTS, OSS COMPARTMENTS - INCANDESCENT The outside storage compartments shall be equipped with Truck-Lite brand incandescent lights, activated by magnetic switches. (compartments #1, #2, #3, and #4, each contain two (2) clear 4" round lights, and compartment #5 shall contain two (2) 2-1/2" clear round lights)</p> <p>-----</p>	Y___N___
<b>40-10-0191</b>	<p>LOCKS POWER - PASSAGE, COMPARTMENTS, KEY FOBS Power door locks shall be included on module passage doors and five (5) outside storage compartments. The locks shall be activated from the interior of the rear and the curbside doorway, as well as the OEM chassis cab door switches. A keyless entry system shall be installed. The system shall operate with the OEM key fobs to lock/unlock all chassis and module doors.</p> <p>-----</p>	Y___N___
<b>40-10-0151</b>	<p>SWITCH DOOR UNLOCK, WATERPROOF - HIDDEN IN FRONT GRILLE AREA An exterior waterproof hidden door unlock switch shall be provided and installed in the front grille area.</p> <p>-----</p>	Y___N___
<b>30-06-0201</b>	<p>RADIO TIE-IN POINT - (1) 12V/40 AMP - CAB CONSOLE AREA Install one (1) set of 12 volt/40 amp radio tie-in points in the cab console: one (1) battery hot, one (1) ignition hot, and one (1) "grounded" stud rated for a maximum of 80 amps.</p> <p>-----</p>	Y___N___
<b>30-06-0202</b>	<p>RADIO TIE-IN POINT - (1) 12V/40 AMP - PATIENT COMPARTMENT Install one (1) set of 12 volt/40 amp radio tie-in points in the patient compartment: one (1) battery hot, one (1) ignition hot, one (1) "grounded" stud rated max 80 amps.</p> <p>-----</p>	Y___N___



**30-06-0203** RADIO TIE-IN POINT - (1) 12V/40 AMP - PDQ Y \_\_\_ N \_\_\_  
 Install one (1) set of 12 volt/40 amp radio tie-in points PDQ: one (1) battery hot, one (1) ignition hot, and one (1) "grounded" stud rated for a maximum of 80 amps.  
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**Braun - Exterior Lighting**

Item Number	Name	
<b>30-06-0410</b>	WARNING LIGHTS FLASH PATTERN SIGNAL ALERT 75 - MULTIPLEX ELECTRICAL SYSTEM The default flash pattern for the warning lights shall be Signal Alert 75. These warning lights will be operated from a single button labeled "flashers" via the Multiplex System on the master control console. -----	Y ___ N ___
<b>ClearLENS</b>	CLEAR LENSES ON ALL WARNING LIGHTS All warning lights to have clear lenses -----	Y ___ N ___
<b>GWL070002</b>	LIGHTS GRILLE - 2 WHELEN 700 SUPER LED Two (2) Whelen 700 series super LED warning lights, with waterproof connectors shall be installed the grille area of the chassis. The lights shall operate from a switch on the master control console labeled "Flashers". -----	Y ___ N ___
<b>GWLCLR1R</b>	GRILLE WARNING LIGHT LOCATION 1 - RED The warning light located on the grille in location 1 shall be red. -----	Y ___ N ___
<b>GWLCLR2R</b>	GRILLE WARNING LIGHT LOCATION 2 - RED The warning light located on the grille in location 2 shall be red. -----	Y ___ N ___
<b>STRPTRN</b>	STRAIGHT PATTERN WARNING LIGHTS The front warning lights will be aligned in a straight pattern across the module. -----	Y ___ N ___
<b>30-25-0122</b>	LIGHTS, ICC / LED CLEARANCE - ON MODULE FRONT - TECNIQ The vehicle shall have five (5) amber Tecniq LED (S33-AA00-1) clearance / ICC lights on the front of the module near the roof line. -----	Y ___ N ___
<b>FWL090007</b>	LIGHTS FRONT MODULE - 7 WHELEN 900 SUPER LED Seven (7) Whelen 900 series super LED warning lights with chrome bezels shall be installed on the module front. The lights shall operate from a switch on the master control console, labeled "Flashers". -----	Y ___ N ___
<b>FWLCLR1R</b>	FRONT WARNING LIGHT LOCATION 1 - RED The warning light located on the upper front of the module in location 1 shall be red. -----	Y ___ N ___
<b>FWLCLR2R</b>	FRONT WARNING LIGHT LOCATION 2 - RED The warning light located on the upper front of the module in location 2 shall be red. -----	Y ___ N ___
<b>FWLCLR3R</b>	FRONT WARNING LIGHT LOCATION 3 - RED The warning light located on the upper front of the module in location 3 shall be red. -----	Y ___ N ___
<b>FWLCLR4W</b>	FRONT WARNING LIGHT LOCATION 4 - WHITE The warning light located on the upper front of the module in location 4 shall be white. -----	Y ___ N ___
<b>FWLCLR5R</b>	FRONT WARNING LIGHT LOCATION 5 - RED The warning light located on the upper front of the module in location 5 shall be red. -----	Y ___ N ___



<b>FWLCLR6R</b>	FRONT WARNING LIGHT LOCATION 6 - RED The warning light located on the upper front of the module in location 6 shall be red. -----	Y ___ N ___
<b>FWLCLR7R</b>	FRONT WARNING LIGHT LOCATION 7 - RED The warning light located on the upper front of the module in location 7 shall be red. -----	Y ___ N ___
<b>30-25-0123</b>	LIGHTS, ICC / LED CLEARANCE - ON MODULE REAR - TECNIQ The vehicle shall have five (5) red TECNIQ LED (S33-RR00-1) clearance / ICC lights on the rear of the module near the roof line. -----	Y ___ N ___
<b>ROL090002</b>	LIGHTS REAR MODULE, UPPER OUTER - 2 WHELEN 900 LED Two (2) Whelen 900 series super LED warning light with chrome bezels shall be installed on the upper rear of the module, in the outer location. The lights shall operate from a switch on the master control console, labeled "Flashers". -----	Y ___ N ___
<b>ROLCLR1R</b>	REAR OUTER MODULE LIGHT LOCATION 1 - RED The warning light located on upper rear of the module, in outer location 1 shall be red. -----	Y ___ N ___
<b>ROLCLR2R</b>	REAR OUTER MODULE LIGHT LOCATION 2 - RED The warning light located on upper rear of the module, in outer location 2 shall be red. -----	Y ___ N ___
<b>RCL090001</b>	LIGHTS REAR MODULE, UPPER CENTER - 1 WHELEN 900 LED One (1) Whelen 900 series super LED warning light with chrome bezels shall be installed on the upper rear of the module, center location. The lights shall operate from a switch on the master control console, labeled "Flashers". -----	Y ___ N ___
<b>RCLCLR1A</b>	REAR CENTER MODULE LIGHT LOCATION 1-AMBER The warning light located on upper rear of the module in the center location shall be amber. -----	Y ___ N ___
<b>RS090002</b>	LIGHTS REAR SCENE - 2 WHELEN 900 24 DIODE LED Two (2) Whelen 900 Series super LED scene/load lights with chrome bezels shall be installed on the upper rear of the module. The lights shall operate from a switch on the master control console, labeled "Rear Scene Lights". -----	Y ___ N ___
<b>30-26-2000</b>	TRAFFIC ADVISOR NOT REQUIRED A traffic advisor is not required. -----	Y ___ N ___
<b>30-10-1007</b>	BRAKE OVERRIDE NOT REQUIRED Brake override not required. -----	Y ___ N ___
<b>WL090002</b>	LIGHTS REAR WINDOW - 2 WHELEN 900 SUPER LED Two (2) Whelen 900 series super LED warning lights with chrome flanges shall be installed on the rear of the module at window level, one (1) on each side. These lights shall operate from a switch on the master control console, labeled "Flashers". -----	Y ___ N ___
<b>WLCLR1R</b>	WINDOW LEVEL LIGHT LOCATION 1 - RED The warning light located on rear of the module at window level, location 1 shall be red. -----	Y ___ N ___
<b>WLCLR2R</b>	WINDOW LEVEL LIGHT LOCATION 2 - RED The warning light located on rear of the module at window level, location 2 shall be red. -----	Y ___ N ___



<b>30-26-3008</b>	LIGHTS, REAR TAIL - WHELEN 600 LED STOP, TURN, & MINIMUM INTENSITY BACK-UP One (1) pair each of Whelen 600 series LED stop/tail lights, turn lights, and MINIMUM intensity LED back-up lights with chrome bezels shall be installed on the rear of the module. -----	Y ___ N ___
<b>30-26-7002</b>	LIGHT, LICENSE PLATE LED - WHELEN OACOEDCR One (1) Whelen OACOEDCR LED license plate light with 45 deg angled chrome-plated bezel shall be installed on the rear of the module, lower left side. -----	Y ___ N ___
<b>FIL07T0002</b>	LIGHTS FRONT INTERSECTION - 2 WHELEN 700 LED W/15 DEGREE TILT HOUSING Two (2) Whelen 700 series super LED warning lights, with water-proof connectors, shall be mounted in 15 degree tilt housings on the front chassis fenders, one (1) on each side. The lights shall operate from a switch on the master control console labeled "Flashers".NOTE: When vehicle is placed in park, the override switch must be on for intersection light(s) to remain on. -----	Y ___ N ___
<b>FILCLR1R</b>	FRONT INTERSECTION LIGHT LOCATION 1 - RED The warning light located on front of the chassis fender in location 1 shall be red. -----	Y ___ N ___
<b>FILCLR2R</b>	FRONT INTERSECTION LIGHT LOCATION 2 - RED The warning light located on front of the chassis fender in location 2 shall be red. -----	Y ___ N ___
<b>RIL070002</b>	LIGHTS INTERSECTION REAR - 2 WHELEN 700 LED Two (2) Whelen 700 series super LED warning lights with, chrome flanges and water-proof connectors, shall be installed above the rear wheel wells, one (1) on each side. These lights shall operate from a switch on the master control console screen labeled "Flashers".NOTE: When vehicle is placed in park, the override switch must be on for intersection light(s) to remain on. -----	Y ___ N ___
<b>RILCLR1R</b>	REAR INTERSECTION LIGHT LOCATION 1 - RED The warning light located on above the rear wheel well at location 1 shall be red. -----	Y ___ N ___
<b>RILCLR2R</b>	REAR INTERSECTION LIGHT LOCATION 2 - RED The warning light located on above the rear wheel well at location 2 shall be red. -----	Y ___ N ___
<b>30-27-1102</b>	LIGHTS, ICC / LED CLEARANCE - ON MODULE SIDE - TECNIQ The vehicle shall have two (2) Tecniq (S330) red mini LED marker lights: one (1) red on each side at the rear of the vehicle which will also flash with turn signal. -----	Y ___ N ___
<b>SWL090004</b>	LIGHTS SIDE WARNING - 4 WHELEN 900 SUPER LED Four (4) Whelen 900 series super LED warning lights with chrome flanges shall be installed, two (2) each module side. Streetside shall have one (1) warning light outboard of the side module rear scene light, and one (1) warning light outboard of the module front scene light. Curbside shall have one (1) warning light outboard of the side module rear scene light, and one (1) warning light outboard of the module front scene light. These lights shall operate from a switch on the master control console labeled "Flashers". -----	Y ___ N ___
<b>SWLCLR1R</b>	SIDE WARNING LIGHT LOCATION 1 - RED The warning light located on side of the module, in outer location 1 shall be red. -----	Y ___ N ___



<b>SWLCLR2R</b>	SIDE WARNING LIGHT LOCATION 2 - RED The warning light located on side of the module, in outer location 2 shall be red. -----	Y___N___
<b>SWLCLR3R</b>	SIDE WARNING LIGHT LOCATION 3 - RED The warning light located on side of the module, in outer location 3 shall be red. -----	Y___N___
<b>SWLCLR4R</b>	SIDE WARNING LIGHT LOCATION 4 - RED The warning light located on side of the module, in outer location 4 shall be red. -----	Y___N___
<b>SS090004</b>	LIGHTS SIDE SCENE - 4 WHELEN 900 24 DIODE LED Four (4) Whelen 900 series 24 Diode LED scene lights with chrome flanges shall be installed, two (2) each module side. These lights shall operate from switches on the master control console labeled "Left Scene Light" and "Right Scene Light". -----	Y___N___

**Braun - Module Body Construction**

<b>Item Number</b>	<b>Name</b>	
<b>39-00-0005</b>	AWS ALUMINUM CERTIFIED WELDERS AWS Aluminum Certified Welders shall construct the module. AWS certificates shall be required to be part of the completed bid packet. Bids without AWS certificates shall be considered non-compliant (no Exception). -----	Y___N___
<b>39-10-0003</b>	CONNECTIONS, MODULE The module shall be bolted to the chassis frame rail with (12) 5/8" -11 grade 8 bolts through OEM rubber insulating spacers installed on outriggers at twelve (12) separate locations (six each frame rail), providing noise insulation and easy removal for chassis replacement. The frame mounting bolts shall be properly torqued and secured with locktite. The system used for fastening the module to the frame shall be that approved by the chassis manufacturer. -----	Y___N___
<b>40-00-0080</b>	INSULATION - POLYURETHANE SPRAY FOAM The walls, ceiling, passage doors, outside storage doors, the entire underside of the module floor (except for mounting pads), the underside of the outside storage compartments, the wheel wells, and the underside of the curbside step area shall be completely foam - in - place insulated with nominal 3/4" thick sprayed on Class I, urethane foam for thermal and acoustical insulation. The insulation shall comply with FMVSS #302 flame spread requirements. The underside of the body shall be properly prepared to ensure adhesion before the spray insulation is applied. -----	Y___N___
<b>39-00-0001</b>	MODULE BODY CONSTRUCTION - SEAMLESS The module shall be fabricated entirely of parts cut and formed from .125" (minimum) thickness 5052-H32 flat aluminum sheet stock, using CNC machines capable of .0004" repeatability. This is the only alloy that may be used for body parts that are welded together.  The roll-cage type interior super-structure, aluminum partition and module shall all be welded together into a single unit to give optimum strength for patient and attendant protection. The module roof shall be designed with a minimum 1.5" crown to facilitate water run off.  The floor, roof, sides, and all exterior doors shall be fabricated from .125" (minimum)	Y___N___



thick flat aluminum sheet stock. The exterior joints between the roof and side components shall be continuous full seam welded the entire length of the module. All exterior body panel joints shall be continuous full seam welded.

No VHB bonding tape or other adhesives shall be used in the construction of the ambulance module.

**39-00-0002** SOLE SOURCE MODULE BODY CONSTRUCTION Y\_\_\_N\_\_\_  
 It is required that the manufacturer of this vehicle have the ability to manufacture a completed ambulance, with the exception of the chassis, within their own manufacturing facility. The modular body must be built in the manufacturer's facility and shall not be the product of a subcontractor or any company other than the manufacturer.

**Braun - Module Features / Exterior**

Item Number	Name	
40-00-0009	ALUMINUM PARTS - MODULE EXTERIOR All unpainted exterior aluminum parts shall be bright dip anodized after fabrication to retain the finish and increase corrosion resistance. -----	Y___N___
40-00-0010	CORROSION MINIMIZATION - MODULE All module contact with dissimilar metals shall be minimized with the use of nylon screw-hole inserts to prevent fastener contact with the module body, nylon hinge strips, ceramic coated stainless steel hinge bolts, and ECK brand corrosion inhibitor spray. -----	Y___N___
40-00-0020	DOOR CONSTRUCTION - GASKET PLACEMENT All exterior hinged module doors shall be constructed in an inverted pan-formed design. The pan shall be constructed from .125" thick 5052-H32 flat sheet aluminum. The exterior door skin shall be constructed of .190" thick aluminum and welded to the pan. Door gaskets shall be attached to the interior side of the door skin on the top, bottom and outer edge of the door. The gasket on the hinge side of the door will be attached to the door frame.	Y___N___
40-00-0060	EXTERIOR COMPARTMENTS - SWEEP-OUT Exterior module compartments shall be of a sweep-out design to aid in facilitation of the purchaser's routine care and cleaning of the vehicle. All exterior compartment floors, with the exception of the front ALS compartment shall be constructed to be flush with the bottom door frame.	Y___N___
40-00-0030	EXTERIOR COMPARTMENTS DESIGN All exterior compartments shall include these features: <ul style="list-style-type: none"> <li>• Sound absorbing slip resistant polyurethane material shall be sprayed on the inside of all compartments and compartment shelving, slide out trays and closeouts.</li> <li>• Baffled seep holes shall be provided to prevent water from splashing or seeping into the exterior compartments.</li> <li>• Full-length, two-way adjustable, stainless steel hinges on all exterior compartment doors with 3/16" stainless steel hinge pins.</li> <li>• Compartment doors shall be installed, flush with the module body.</li> <li>• When double doors are provided, each door shall have an exterior handle, but only the forward door shall be lockable. (rearward door is secured when</li> </ul>	Y___N___



forward doors locked). All exterior compartments and passage doors shall be keyed alike.

- Lockable, Eberhard "free-floating" type chrome plated handles with rotarylocks. A gasket shall be installed under each handle to protect the paint.
- Drip rails shall be installed above all exterior compartment doors.

<b>40-00-0050</b>	<p>EXTERIOR COMPARTMENTS, VENTING  A minimum of nine (9) square inches of venting shall be provided inside the #1, #2, #3, &amp; #4 exterior storage compartments to provide for easier closure of the compartment doors.</p> <p>-----</p>	Y ___ N ___
<b>40-00-0055</b>	<p>EXTERIOR COMPARTMENTS, VENTING - OXYGEN STORAGE  A minimum of nine (9) square inches of venting shall be provided in the exterior oxygen storage compartment, to dissipate any leaking oxygen gas.</p> <p>-----</p>	Y ___ N ___
<b>40-00-0070</b>	<p>HANDLES, EBERHARD - CHROME FREE FLOATING TYPE  Eberhard #EMC-1-2110 chrome "free-floating" handles shall be installed on each exterior module door. The handles shall be large enough to accommodate a gloved hand.</p> <p>-----</p>	Y ___ N ___
<b>40-10-0072</b>	<p>LOWERED MODULE SIDES  Module sides to be as low as possible and still comply with KKK-1822-F ramp break over angle. Lowered sides will allow easier entry into the module as well as increased compartment storage.</p> <p>-----</p>	Y ___ N ___
<b>40-10-0321</b>	<p>STEPWELL, CURBSIDE DOORWAY - MID STEP AREA  An aluminum diamond plate step well and mid-level step shall be installed in the curbside doorway threshold area.</p> <p>-----</p>	Y ___ N ___
<b>40-00-0091</b>	<p>THRESHOLD, STAINLESS STEEL - ALL OSS STORAGE COMPARTMENTS  Each exterior storage compartment with a hinged door shall have a stainless steel lower threshold at the door opening to protect the paint as equipment is installed and removed from the compartment.</p> <p>-----</p>	Y ___ N ___
<b>40-10-0340</b>	<p>STONE GUARDS, MOD FRNT -ANODIZED DIAMOND PLATE  Bright dip anodized aluminum diamond plate stone guards shall be installed on the module front, one (1) each side.</p> <p>-----</p>	Y ___ N ___
<b>40-10-0066</b>	<p>DOOR SLIDING - MODULE CURBSIDE PASSAGE  The module body shall include a sliding side entry door to access the curbside of the patient compartment. The door shall slide out and towards the rear of the module body. The door design must meet FMVSS 206 for sliding doors and shall have been cycle tested in excess of 100,000 cycles. The door shall not extend out more than 5 1/4" from the module when in the open position and shall be flush in the closed position. The door shall operate on a total of nine (9) casters and three (3) tracks for ease of operation. The door shall be held closed with two (2) rotary latches and two (2) locking tabs. The door must have a system to prevent the door from self closing, when unit is parked on an incline. A measured force of ten (10) pounds maximum shall be required to release the door from the open to closed position. A chrome locking handle shall be installed on the exterior of the door. The door shall be lockable from the inside and outside and shall shut on molded air-core, automotive type door seals to prevent any water from leaking</p>	Y ___ N ___



into the vehicle interior. A drip rail shall be installed above the door.

Documentation required:

The bidder must submit with this bid proposal a listing of not less than 200 ambulances produced with curbside sliding doors in the past four years. The listing is to include a production order number, the purchaser's agency name, and date the ambulance equipped with the curbside sliding door was delivered.

- 40-10-0088**      Failure to provide the required documentation shall be considered as non-responsive.  
 DOORS - REAR PASSAGE Y\_\_\_N\_\_\_  
 There shall be a 47.50" wide x 59" high rear door opening in the patient compartment. The doors shall be flush without a protruding flange or lip. The right rear passage door shall have a lockable, chrome exterior handle. The left rear door shall have a non-locking, chrome exterior handle. All handles shall be installed with a gasket to protect the paint. The hinge shall be full length stainless steel with a 3/16" stainless steel hinge pin and shall be two-way adjustable. Each rear door shall have a two point slam action automotive type rotary latching system to the body. The right rear door shall lock to the body at the top and bottom, not to the left rear door. The doors shall have .213" steel door latch activator rods with clevis adjusters. The doors shall be lockable from the inside and outside. All doors shall shut on molded, air-core, automotive type door seals to prevent any water from leaking into the vehicle interior.  
 -----
- 40-10-0130**      EMERGENCY RELEASE LEVER, REAR PATIENT PASSAGE DOORS Y\_\_\_N\_\_\_  
 An emergency release lever shall be attached to each rear passage door latch and be free-floating from the interior door linkages. These levers shall provide a means of actuating the latches from the patient compartment without the use of the interior door handles.
- 40-10-0505**      WINDOWS, PASSAGE DOOR - (CURB SLIDING, REAR FIXED) Y\_\_\_N\_\_\_  
 The curbside passage door shall have a 16" x 23" openable (sliding) window with removable screen. Each rear passage door shall have a 19" x 18" non-openable window to assure maximum vision to the rear. The windows shall have a 69% dark tint and shall be secured with black oxide coated fasteners. No warning lights shall be blocked from view when the curbside or rear doors are open.
- 40-10-0103**      FENDERETTES - POLISHED ALUMINUM Y\_\_\_N\_\_\_  
 Polished aluminum fenderettes shall be installed around the rear wheel well openings.  
 -----
- 40-10-0119**      HOLD-OPEN - REAR DOORS - GRABBERS Y\_\_\_N\_\_\_  
 Door grabbers (1 pair) with hard rubber inserts shall be installed on the rear doors, permitting a door hold open position of 130 degrees.  
 -----
- 40-11-0180**      HOLDER - FLARE/FUSEE - (4) SECTION ABS Y\_\_\_N\_\_\_  
 One (1) additional ABS flare/fusee holder capable of carrying four (4) 30-minute emergency road flare/fuses shall be installed on the interior side of the forward # 2 outside storage compartment door.  
 -----
- 40-10-0360**      KICKPLATE/THRESHOLD, REAR DOORWAY - ANODIZED DIAMOND PLATE Y\_\_\_N\_\_\_  
 A bright dip anodized aluminum diamond plate kick plate shall be installed at the rear exterior doorway, providing a kick / scuff plate at the rear of the vehicle above the rear step.  
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<b>40-10-0204</b>	<b>MUD FLAPS, REAR - BLACK RUBBER FIBERGLASS REINFORCED - THREE COLOR</b> Black rubber, fiberglass reinforced mud flaps with a minimum 1/4" thickness shall be bolted to the underside of the module behind the rear wheels. The width and length of the flaps shall provide adequate coverage of the rear dual wheels of the chassis. The mud flaps shall be three color with the bidder's logo.	Y ___ N ___
<b>40-10-0266</b>	<b>REAR STEP/BUMPER -FLIP-UP CENTER SECTION - STAR PUNCHED AND ANODIZED</b> The rear bumper shall be affixed to the chassis frame. The bumper shall be constructed with a hinged center section. Two (2) steel braces shall secure the step to the chassis frame. The outer 17" on each end of the bumper shall be constructed from heavy gauge stamped polished stainless steel bumper parts and shall provide smooth rounded corners. The step shall be constructed of star punched .125" thick aluminum diamond plate. Two (2) rear LED step illumination lights shall be provided. All diamond plate surfaces shall be bright dip anodized. Rear step installation shall comply with AMD standard 018. A strip of black PVC shall be installed on the face of the step to protect the patient cots during loading.	Y ___ N ___
<b>40-10-0381</b>	<b>TOW HOOKS, MODULE REAR</b> Two (2) tow hooks shall be provided in the rear step area and shall be securely fastened to the rear step braces.	Y ___ N ___
<b>40-10-0280</b>	<b>RUB RAILS, ANODIZED ALUMINUM</b> Bright dip anodized polished aluminum rub rails shall be installed on the lower sides of the body below the outside compartment sill areas. The rub rails shall be offset 3/16" from the body to facilitate wash down of road debris.	Y ___ N ___
<b>40-00-0019</b>	<b>DOOR SKINS, OUTSIDE STORAGE COMPARTMENTS - DIAMOND PLATE INTERIOR SKINS</b> The interior door skins for all outside storage compartments shall be constructed of .063" thick aluminum diamond plate.	Y ___ N ___
<b>OS1XL1STD</b>	<b>OSS #1 - STREETSIDE FORWARD</b> There shall be an outside storage compartment #1, streetside forward. The compartment shall have a hinged door with a locking handle.	Y ___ N ___
<b>OS1XL1OP1</b>	<b>OSS #1 - BACKBOARD/SCOOP STORAGE</b> There shall be an outside storage compartment #1, Streetside forward, for backboard - scoop stretcher storage.	Y ___ N ___
<b>OS1BB</b>	<b>OSS #1 - BACKBOARD - SCOOP STRETCHER STORAGE</b> Outside storage compartment #1 shall provide storage for backboard / scoop stretcher.	Y ___ N ___
<b>OS2XL1STD</b>	<b>OSS #2 - STREETSIDE CENTER</b> There shall be an outside storage compartment #2, Streetside center. The compartment shall have hinged double doors with a locking handles.	Y ___ N ___
<b>OS2XL1OP1</b>	<b>OSS #2 - (1) ADJUSTABLE SHELF</b> There shall be an outside storage compartment #2, Streetside center, with one (1) adjustable shelf.	Y ___ N ___
<b>OS2SHELF1</b>	<b>OSS #2 - SHELF ONE (1) ADJUSTABLE WITH TRACK</b> Outside storage compartment #2 shall contain one (1) adjustable shelf with track.	Y ___ N ___



<b>OS3XL1STD</b>	OSS #3 - STREETSIDE REAR - TALL DOOR There shall be an outside storage compartment #3, streetside rear, with a hinged tall door and a locking handle. -----	Y ___ N ___
<b>OS3XL1OP1</b>	OSS #3 - (1) ADJ. SHELF WITH INSIDE/OUTSIDE ACCESS There shall be an outside storage compartment #3, Streetside rear, tall door, with one (1) adjustable shelf. -----	Y ___ N ___
<b>OS3SHELF1</b>	OSS #3 - SHELF ONE (1) ADJUSTABLE WITH TRACK Outside storage compartment #3 shall contain one (1) adjustable shelf with track. -----	Y ___ N ___
<b>OS4XL1STD</b>	OSS #4 - CURBSIDE REAR There shall be an outside storage compartment #4, Curbside rear, with a hinged door and a locking handle. -----	Y ___ N ___
<b>OS4XL1OP1</b>	OSS #4 - BACKBOARD AND OXYGEN STORAGE WITH FIXED DIVIDER There shall be an outside storage compartment #4, Curbside rear, with a vertical divider, storage for both an oxygen tank with a welded storage bracket, and a backboard. -----	Y ___ N ___
<b>OS402WELD</b>	OSS #4 - OXYGEN STORAGE BRACKET WELDED IN FOR H OR M CYLINDER A bracket shall be welded in the OSS #4, right-hand side, to secure the oxygen cylinder. The bracket shall be CN9/CN12 compliant to meet J3043 requirements. -----	Y ___ N ___
<b>OS4BB</b>	OSS #4 - BACKBOARD - SCOOP STRETCHER STORAGE Outside storage compartment #4 shall provide storage for backboard and a scoop stretcher. -----	Y ___ N ___
<b>OS4DIV1</b>	OSS #4 - FIXED DIVIDER One (1) centered, fixed divider with sprayed on polyurethane material shall be provided and installed in outside storage compartment #4 per dwg. #4. -----	Y ___ N ___
<b>OS5XL1STD</b>	OSS #5 - CURBSIDE FORWARD There shall be an outside storage compartment #5, Curbside forward, with inside/ outside access and a hinged door with a locking handle. -----	Y ___ N ___
<b>OS5XL1OP1</b>	OSS #5 - INSIDE/OUTSIDE ACCESS WITH (3) ADJUSTABLE SHELVES - #5B OPEN STORAGE AREA There shall be an outside storage compartment #5, Curbside forward, with inside / outside access. #5A shall have three (3) adjustable shelves, and #5B as an open storage area. -----	Y ___ N ___

**Braun - Module Interior / Patient Compartment**

<b>Item Number</b>	<b>Name</b>	
<b>50-51-1001</b>	CABINET CONSTRUCTION - INTERIOR - ALUMINUM All interior cabinets shall be constructed of .090" thick welded aluminum. Wood products shall not be used in the construction of any interior cabinet. All cabinet exteriors, interiors, drawer fronts, drawer interiors, and aluminum doors shall be sealed with a washable sprayed-on multi-use polychromatic coating. -----	Y ___ N ___



<b>50-51-1014</b>	<b>CATCH, MAGNETIC - ADHESIVE BACK FOR INTERIOR DOOR(S) OVER 36 INCHES</b> All interior doors that are over 36" inches tall with a latch on the top of the door shall have an adhesive back magnetic catch installed on the bottom of the door. -----	Y ___ N ___
<b>50-60-0220</b>	<b>EMBLEMS / SIGNS - REAR PATIENT COMPARTMENT</b> Two (2) "No Smoking / Oxygen Equipped / Fasten Seat Belts" signs shall be provided. One (1) sign shall be installed in the cab and one (1) above the oxygen outlets in the patient compartment street side cabinet. -----	Y ___ N ___
<b>50-60-0300</b>	<b>FLOOR CONSTRUCTION- PATIENT COMPARTMENT, NON-WOOD COMPOSITE</b> The sub-floor in the patient compartment shall be constructed of .125" thick aluminum over .125" and .190" thick reinforcing hat sections and mounting laterals. The aluminum sub-floor shall be covered with a 3/4" non-wood composite material. All corner molding, edging and trim shall be anodized aluminum or stainless steel and shall be sealed to prevent fluids from seeping under the cabinets. Wood floors are not satisfactory and shall not be accepted by the purchaser. -----	Y ___ N ___
<b>50-60-0301</b>	<b>FLOORING - COVE</b> The patient compartment floor radius shall be coved with pre-formed floor coving material. The coving shall be installed behind the vinyl floor covering, along both the street side and curbside walls. -----	Y ___ N ___
<b>50-60-0391</b>	<b>HEADLINER - REAR PATIENT COMPARTMENT</b> The headliner in the patient compartment shall be one-piece, seamless, .090 thick aluminum finished with sprayed-on multi-use polychromatic coating. -----	Y ___ N ___
<b>50-51-1013</b>	<b>HOLD OPENS FOR INTERIOR DOORS</b> All interior cabinets with doors less than 6" tall shall have friction hinges as hold opens for door(s). Doors 6" and taller shall be designed using gas shocks as hold opens for the door(s). -----	Y ___ N ___
<b>50-60-0660</b>	<b>PADDED EDGING PROTECTION</b> Padded corner edging shall be installed where necessary on exposed corners and edges in the patient compartment for patient and attendant protection. -----	Y ___ N ___
<b>50-00-0202</b>	<b>ROUNDED INTERIOR CORNERS</b> Interior vertical edges shall have rounded/padded corners in the following locations: forward and aft edges of the CPR seat (if provided), the wall at the aft end of the squad bench, and the partition opening cabinet edges, along with the upper front wall cabinet (if provided). -----	Y ___ N ___
<b>50-51-1011</b>	<b>RECESSED ADJUSTABLE SHELF TRACK - CABINETS</b> Unistrut 13/16" x 13/32", 19 gauge channel shall be installed in the interior cabinets that contain adjustable shelves. The track shall be welded in and recessed to reduce the number of fasteners and provide a cleaner look. -----	Y ___ N ___
<b>50-51-5001</b>	<b>UPHOLSTERY - PATRIOT PLUS CHARCOAL #8605</b> All cushions, head pads and seats shall be covered with Spradling International Patriot Plus Charcoal #8605 expanded vinyl upholstery material. The vinyl and all foam cushion material shall comply with FMVSS #302 flame spread requirements. -----	Y ___ N ___



<b>50-60-0661</b>	<b>INTERIOR MODULE PADS</b> Vinyl upholstered, foam cushioned head/back pads shall be installed as follows: the lower edge of the upper front wall cabinet (above the partition doorway or window), above the rear doors, above the side door, and on the street side wall behind and on each side of the CPR seat. The pads shall be covered with a flame retardant color coordinated vinyl upholstery material.	Y ___ N ___
<b>50-51-6003</b>	<b>LONPLATE II, NON-SLIP EMBOSSED SM. GRID - GUNMETAL #424</b> The floor in the patient compartment shall be covered with Lonseal brand "Lonplate II" non-slip; small grid (embossed) Gunmetal #424, resilient sheet vinyl flooring material, which shall be covered 3-inches up the wall on the street side, and to the top of the squad bench base on the curbside. The flooring material shall be stripped and waxed before delivery.	Y ___ N ___
<b>50-51-2002</b>	<b>CABINET DOORS - CLEAR POLYCARBONATE</b> All cabinet doors shall be clear polycarbonate material. The sliding cabinet doors shall be installed in aluminum track lined with PPL inserts to eliminate rattles and prevent the doors from opening during transit. An edge mounted aluminum handle shall be installed on each sliding cabinet door.	Y ___ N ___
<b>50-51-3001</b>	<b>CABINETS/ WALLS - POLYCHROMATIC COATING - MARBLE STONE</b> All exposed side walls, the partition wall (on the patient compartment side only), the headliner, along with the cabinet and drawer fronts, aluminum doors, cabinet and drawer interiors shall be covered with a washable #99-7371 Marble Stone sprayed-on multi-use polychromatic coating, to create a laminate-free interior.	Y ___ N ___
<b>IS-CNT2-ACR</b>	<b>COUNTER TOP, SOLID ACRYLIC - REAR ACTION AREA</b> The countertop in the secondary action area shall be solid acrylic.	Y ___ N ___
<b>IS-CNT-ACR</b>	<b>COUNTER TOP, SOLID ACRYLIC</b> A solid acrylic counter top with a 1/2" lip shall be installed to prevent equipment from sliding off. The solid acrylic counter top shall be provided on the primary action area counter.	Y ___ N ___
<b>50-51-4050</b>	<b>COUNTER TOP ACCENT STRIPE NOT REQUIRED</b> No counter access stripe	Y ___ N ___
<b>50-51-4112</b>	<b>COUNTER TOP - SOLID ACRYLIC - NIGHT STARS</b> A solid acrylic counter top, Night Stars with a 1/2" lip shall be installed to prevent equipment from sliding off.	Y ___ N ___
<b>50-01-0408</b>	<b>LATCHES, CABINET, CN10 COMPLIANT AS APPLICABLE - INCLUDING RADIO CABINET</b> The ACP (attendant control panel) door, the PDQ (power distribution quarters) door, and the radio cabinet door shall be secured with chrome locking lever latches; All remaining interior hinged cabinet doors shall be secured with center squeeze latches. All interior drawers shall be secured with locking flush pull latches. Cabinet(s) shall be KKK-A-1822F Change Notice 10 compliant and conform to all applicable SAE J3058 requirements.	Y ___ N ___
<b>50-10-0229</b>	<b>LEFT WALL - ATTENDANT CONTROL PANEL - WITH FLAT AREA</b> A Weldon Vista Control Screen shall be mounted on a hinged access panel and secured with two (2) latches. The panel will be located to the immediate right of the attendant's seat. The forward portion of the panel will contain a flat area that may be used for future radio mounting, etc.	Y ___ N ___



<b>IS1XL1OP1</b>	<p>CABINET - FIXED FRAME WITH SLIDING POLYCARBONATE DOORS AND (1) ADJ. SHELF EACH SIDE OF CENTER DIVIDER</p> <p>The left wall, upper rear interior cabinet (#1) shall be enclosed by one (1) set of sliding polycarbonate doors attached to a fixed frame. The doors shall have full length handles with the outer most sliding door to have handles on both ends. The cabinet shall contain a center divider with one (1) adjustable shelf each side of center divider.</p> <p>-----</p>	Y ___ N ___
<b>IS2XL1OP1</b>	<p>CABINET - FIXED FRAME WITH SLIDING POLYCARBONATE DOORS AND (1) ADJ. SHELF EACH SIDE OF CENTER DIVIDER</p> <p>The left wall, upper interior cabinet (#2), above the attendant control panel shall be enclosed by one (1) set of sliding polycarbonate doors, with a fixed frame. The doors shall have full length handles with the outer most sliding door to have handles on both ends. The cabinet shall contain a center divider with one (1) adjustable shelf, each side.</p> <p>-----</p>	Y ___ N ___
<b>IS3XL1OP1</b>	<p>CABINET - HINGED POLYCARBONATE DOORS WITH CENTER SQUEEZE LATCHES AND FULL LENGTH HANDLES, INSIDE/OUTSIDE ACCESS TO OSS #3</p> <p>The left wall rear interior cabinet (#3) shall be enclosed by one (1) set of hinged polycarbonate doors with center squeeze latches and full length handles. This cabinet shall provide inside / outside access to OSS #3. (reference exterior outside storage compartment #3 in module section for shelving configurations)</p> <p>-----</p>	Y ___ N ___
<b>IS4XL1OP1</b>	<p>CABINET - SLIDING POLYCARBONATEDOORS WITH (1) ADJUSTABLE SHELF</p> <p>The left wall interior cabinet (#4), below the secondary action area, shall be enclosed by a set of sliding polycarbonate doors attached to a fixed frame. The doors shall have full length handles and the outermost door to have handles on both ends. The cabinet shall contain one (1) adjustable shelf.</p> <p>-----</p>	Y ___ N ___
<b>IS5XL1OP1</b>	<p>PULL-OUT DRAWER WITH HINGED ACRYLIC WRITING SURFACE AND LOCKING STAINLESS STEEL FLUSH PULL LATCH. RECESSED SSCOR SUCTION BELOW DRAWER</p> <p>The left lower wall shall have (1) one drawer (#5), aisle facing, installed in the primary action area under the attendant control panel. The drawer shall have a hinged acrylic writing surface and a locking stainless steel flush pull latch. A recessed SSCOR suction canister shall be located below the drawer. An SSCOR suction system with a 12 VDC electric vacuum pump shall be recessed into the street side lower interior wall near the attendant seat. The 12 VDC electric vacuum pump shall be mounted in the #2 outside storage compartment. The system shall be activated by a switch on the attendant control panel. The SSCOR vacuum pump exhaust shall be vented to the exterior of the vehicle.</p> <p>-----</p>	Y ___ N ___
<b>AA1XL1OP1</b>	<p>PRIMARY ACTION AREA WITH SUCTION CONTROL, 125VAC/12VDC/DUAL USB OUTLETS, OXYGEN OUTLET AND BYPASS, VISTA SCREEN ON AN ANGLED FLIP-DOWN PANEL</p> <p>-----</p>	Y ___ N ___
<b>AA2XL1OP1</b>	<p>SECONDARY ACTION AREA WITH 125VAC OUTLET</p> <p>-----</p>	Y ___ N ___
<b>50-60-0018</b>	<p>ASPIRATOR / SUCTION - SSCOR - WITH ELECTRIC PUMP - RECESSED</p> <p>An SSCOR suction system with a 12 VDC electric vacuum pump shall be recessed into the street side lower interior wall near the attendant's seat. The 12 VDC electric vacuum pump to be installed in an exterior compartment per the location on the drawing The system shall be activated by a switch on the attendant control panel. The SSCOR vacuum</p>	Y ___ N ___



pump exhaust shall be vented to the exterior of the vehicle.

<b>IC1XL1OP1</b>	<p>SHALLOW DEPTH CABINET WITH HINGED POLYCARBONATE DOOR, FULL LENGTH HANDLE, CENTER SQUEEZE LATCH, AND (4) ADJ. SHELVES</p> <p>Cabinet #1 shall be installed on the rearward curb side wall, and shall be of shallow depth with a hinged polycarbonate door, and four (4) adjustable shelves. The door shall have a full length handle with a center squeeze latch.</p>	Y ___ N ___
<b>IC2XL1OP1</b>	<p>SQUAD BENCH WITH RECESSED SHARPS/WASTE AND (2) VALOR 4PT SEATS. SECOND PATIENT TRANSPORT ON THE SQUAD BENCH.</p> <p>The Curbside wall shall have a squad bench with two (2) Valor A-Val back, 4pt seats, base storage, a split lid with hold opens, and a recessed sharps and trash container.</p>	Y ___ N ___
<b>IC3XL1OP1</b>	<p>(2) ANGLED LED LIGHTS OVERHEAD WITH OXYGEN OUTLET MOUNTED TO THE WALL</p> <p>Two (2) LED lights shall be located on an overhead angled panel on the curb side upper wall.</p>	Y ___ N ___
<b>50-50-0503</b>	<p>SQUAD BENCH TOP - SPLIT WITH HINGED LID FORWARD WITH SHARPS / TRASH ACCESS</p> <p>The squad bench top and cushion shall be split into two (2) sections with separate hinged lids. The forward most section shall have the sharps and trash container installed in the squad bench base, with access via a separate hinged clear acrylic door on top of the bench. The squad bench cushion shall be covered with color coordinated vinyl upholstery material and sewn with seams only at the vertical corners to minimize entrapment of fluids. An automatic latching fastener shall be installed in both sections to secure the squad bench top and the lid in the closed position.</p>	Y ___ N ___
<b>50-50-0541</b>	<p>HOLD OPENS - SQUAD BENCH LID - GAS CYLINDERS</p> <p>Two (2) gas cylinders hold -opens shall be provided and installed to hold the cushioned lid in the open and closed position.</p>	Y ___ N ___
<b>50-60-0709</b>	<p>SHARPS AND TRASH CONTAINERS - ACCESS THRU SQUAD BENCH LID</p> <p>A 6.9 qt. #BD5489 sharps container, and a 8 qt. trash container shall be installed in the forward end of the squad bench base. The containers shall be accessed through the squad bench lid, and covered with a 3/8" thick clear acrylic hinged lid with a biohazard warning label.</p>	Y ___ N ___
<b>50-60-0718</b>	<p>SQUAD BENCH FACE - VINYL FLOORING MATERIAL</p> <p>The face of the squad bench shall be covered with vinyl flooring material.</p>	Y ___ N ___
<b>SQ-BN-BASE</b>	<p>SQUAD BENCH BASE W/STORAGE</p> <p>A storage area shall be provided in the squad bench base. The squad bench base shall be constructed of .090" thick aluminum for maximum storage capacity and minimum weight. The interior of the squad bench shall be sprayed with sound absorbing polyurethane material.</p>	Y ___ N ___
<b>IF3PDQ</b>	<p>CABINET - PDQ</p> <p>The Power Distribution Quarters (PDQ) shall hold electrical components, (i.e. power distribution nodes, circuit breakers, etc). The electrical compartment shall have a hinged door with (2) two chrome locking lever latches and be shall located on the partition wall behind the attendant seat.</p>	Y ___ N ___
<b>IF1XL1OP1</b>	<p>PROAIR 3856 HEAT/AC AND CABINET WITH SLIDING POLYCARBONATE DOORS WITH (1) ADJUSTABLE SHELF</p>	Y ___ N ___



The front wall interior cabinet #1 shall be enclosed by one (1) set of sliding polycarbonate doors with full length handles . The outer most sliding door to have handles on both ends, and there shall be one (1) adjustable shelf.

**IF2XL1OP1** CABINET - UPPER/LOWER WITH HINGED POLYCARBONATE DOORS, CENTER SQUEEZE LATCHES, (1) ADJ. SHELF PER CABINET Y \_\_\_ N \_\_\_

The front interior wall cabinet #2 shall have a fixed frame and be separated into two (2) cabinet sections, an upper section and a lower section. Each shall be enclosed by one (1) set of hinged polycarbonate doors with center squeeze latches, and one (1) adjustable shelf per section.

**IF3XL1OP1** CABINET - VENTED RADIO CABINET PDQ ABOVE Y \_\_\_ N \_\_\_

The Power Distribution Quarters (PDQ) compartment and a vented radio compartment below the PDQ, shall be located in front wall, left.

**IF3XL1RAD** CABINET - FRONT WALL, LOWER BELOW PDQ (SINGLE VENTED DOOR) Y \_\_\_ N \_\_\_

A radio cabinet with a vented, hinged aluminum door, secured by a chrome locking lever latch, shall be located on the front lower left wall. Door to open towards rear of the module.

**IF4XL1OP1** PASS-THROUGH WINDOW OPEN TO THE CAB Y \_\_\_ N \_\_\_

A window opening, as a pass-through from cab to module, shall be located on module front wall.

**IF-CNT-NO** COUNTER TOP NOT REQUIRED Y \_\_\_ N \_\_\_

**50-20-0507** PASS THROUGH - CAB TO MODULE, WINDOW OPENING Y \_\_\_ N \_\_\_

A window opening shall be provided in the rear of the cab to accommodate pass-through communications to the patient compartment. A bellows shall be provided to connect the cab to the module.

**50-50-0118** SEATING - ATTENDANT - USSC VALOR R - BACK INTEGRAL CHILD, SWIVEL SEAT CN8 Y \_\_\_ N \_\_\_

COMPLIANT  
A USSC Valor rear facing, R-back attendant seat with an integrated child seat shall be installed at the head of the patient cot. The attendant seat shall be a two (2) position swivel seat mounted on a pedestal base with a heavy duty seat frame for an ABTS (All Belts To Seat) application with four (4) point / four (4) retractors single click internal mount belt system. The seat shall be 20" wide with discontinuous recline and a 6" horizontal" slide for fore and aft adjustment(s). The seat shall be KKK-A-1822F Change Notice 8 compliant and conform to all applicable FMVSS and SAE J3026 requirements. Documentation from a certified independent testing facility shall be required stating the seat has passed SAE J3026 requirements and tested in accordance with SAE J2917, Occupant Restraint and Equipment Mounting Integrity – Frontal Impact System-Level Ambulance Patient Compartment and SAE J2956, Occupant Restraint and Equipment Mounting Integrity – Side Impact System-Level Ambulance Patient Compartment. The seat shall be padded and covered with sewn color matching vinyl upholstery.

**50-50-0122** SEATING - ATTENDANT - SIDE MOUNT POSITION Y \_\_\_ N \_\_\_

The attendant seat shall be in a side mount position.



<b>CPROP1</b>	<p>SEATING - CPR - VALOR WITH 4PT BELTING</p> <p>A CPR seat shall be installed on the street side of the patient compartment aft of the primary action area counter. The CPR seat shall be KKK-A-1822F Change Notice 8 compliant with a VALOR A-VAL shelf mount back frame and internal bolsters. The seat belt shall consist of a single click, four (4) point / four (4) retractors, internal mount belt system. The seat shall conform to all applicable FMVSS and SAE J3026 requirements. Documentation from a certified independent testing facility shall be required stating the seating configuration has passed SAE J3026 requirements and tested in accordance with SAE J2917, Occupant Restraint and Equipment Mounting Integrity – Frontal Impact System-Level Ambulance Patient Compartment and SAE J2956, Occupant Restraint and Equipment Mounting Integrity – Side Impact System-Level Ambulance Patient Compartment. The VALOR A-VAL shelf mount back frame and the seat shall be padded and covered with cushioned, color coordinated, cut and sewn vinyl.</p> <p>-----</p>	Y ___ N ___
<b>SQSTOP1</b>	<p>SEATING - CN8 COMPLIANT TWO (2) VALOR A-VAL BACK</p> <p>A Squad bench seat with two (2) Valor A-Val Back individual seating positions will be installed on the curb side of the patient compartment. The squad bench seat shall be KKK-A-1822F Change Notice 8 compliant with (2) V4 harness style shoulder / seat belts and conform to all applicable FMVSS and SAE J3026 requirements. Documentation from a certified independent testing facility shall be required stating the seat has passed SAE J3026 requirements and tested in accordance with SAE J2917, Occupant Restraint and Equipment Mounting Integrity – Frontal Impact System-Level Ambulance Patient Compartment and SAE J2956, Occupant Restraint and Equipment Mounting Integrity – Side Impact System-Level Ambulance Patient Compartment. VALOR A-VAL shelf mount back frame and internal bolsters with (4) point / (2) retractors single click internal mount belt system / padded and covered with cushioned, color coordinated, cut and sewn vinyl.</p> <p>-----</p>	Y ___ N ___
<b>50-62-0302</b>	<p>COT FASTENER - STAT-TRAC SINGLE - CENTER POSITION CN8 COMPLIANT</p> <p>A Stat Trac, single-position (center mount) cot fastener, meeting SAE J3027 dynamic crash test safety standards, shall be installed on the module floor to accommodate a Ferno series cot. 0.625" thick aluminum tapping plate(s) shall be installed below the aluminum floor to secure the cot floor mounting plates.</p> <p>-----</p>	Y ___ N ___
<b>50-41-0203</b>	<p>HEAT/AIR CONDITIONING, PROAIR IW-3856 700 CFM (56,000 BTU HEAT / 38,000 BTU COOL), BRUSHLESS BLOWER MOTOR</p> <p>A ProAir IW-3856 700 CFM heater/air conditioner system with 56,000 BTU heating capacity and 38,000 BTU cooling capacity utilizing a 10-speed brushless blower motor controlled through, the pulse-width-modulated output of the microprocessor based electrical system, shall be provided for high volume air movement with minimal noise. The heater/air conditioner air return shall be filtered to minimize contamination of the heater/air conditioner cores. The cab and module environmental systems shall be simultaneously capable of heating in the front while cooling in the rear and vice-versa. A thermostatically controlled rear system shall be provided for heating and air conditioning the patient compartment. The temperature, whether heating or cooling, shall be controlled by a thermostat built into the attendant control panel screen, located in the street side cabinet and from the cab master control console screen. Heating and cooling may be selected automatically or manually. The heater/air conditioner system shall function only when the ignition system and the module power switch are on. The rear heater shall have EPDM/Nomex heater hoses. The rear air conditioner shall have barrier air conditioner hoses for R-134A refrigerant. Full module HVAC controls shall be located on both the rear ACP screen and the cab MCC screen. The module heat and ac system shall be installed in the upper portion of the front wall. Four (4) adjustable heat/ac vents</p>	Y ___ N ___





shall be located above the heater/ac.  
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**50-61-0001** ASSIST HANDLES, (6) BLACK RUBBER Y \_\_\_ N \_\_\_  
 A total of six (6) 10-7/8" black vulcanized rubber with steel core assist handles shall be provided and installed: one (1) handle on each rear door, one (1) on the curbside door, one (1) at the curbside doorway and two (2) at the rear doorway.

**50-60-0730** DOOR PANELS - MODULE PASSAGE DOORS - FULL LENGTH ALUMINUM - W/ACCESS PANELS Y \_\_\_ N \_\_\_  
 The inner door panels shall be manufactured from aluminum, and covered with a washable sprayed-on multi-use polychromatic coating. The panels shall run the full length of the door and will contain a removable latch access panel.

**50-60-0256** EXHAUST VENTILATOR, 3-SPEED - MULTIPLEX ELECTRIC SYSTEM Y \_\_\_ N \_\_\_  
 A three-speed, 250 CFM (minimum) exhaust fan meeting KKK-A-1822F requirements shall be provided and located in the street side cabinet in the patient compartment. The exhaust fan shall be pulse width modulated from a switch on the attendant control panel vista screen. The exhaust system shall have a louvered grille inside and a chrome vent outside. The exhaust system shall vent through the side of the vehicle, not through the roof.

**50-60-0322** GLOVE DISPENSER - (3) BOX - ABOVE ENTRY DOOR - CURBSIDE (ABS) Y \_\_\_ N \_\_\_  
 A three (3) - box glove dispenser unit, with a 1/4" clear acrylic hinged access panel with three (3) cut-outs, shall be recessed above the curbside entry door. The dispenser shall be 8.25" high x 33.50" wide with interior dimensions of 5.38" high x 30.25" wide x 3.25" deep. A 1/4" turn latch will be installed on the face of the glove box access panel.

**50-60-0340** GRAB RAIL, 1-1/4" DIAMETER, (96") OVER COT AREA Y \_\_\_ N \_\_\_  
 One (1) 1-1/4" diameter x 96" long stainless steel grab rail shall be installed on the ceiling for attendant/ patient balance control. The grab rail shall be attached to the ceiling with three (3) mounting brackets that secure it to the super structure of the module. Installation of the grab rail shall comply with AMD-008 requirements.

**50-60-0431** IV HANGERS - CEILING RECESSED - CAST PRODUCTS #IV2008-1 (2) Y \_\_\_ N \_\_\_  
 Two (2) Cast Products #IV2008-1 recessed, dual, ceiling I.V. hangers shall be provided. One (1) installed near the Streetside above the cot area, and one (1) near the Curbside above the squad bench area.

**50-60-0640** OXYGEN SYSTEM, ELECTRIC - MULTIPLEX ELECTRIC SYSTEM Y \_\_\_ N \_\_\_  
 A 12 VDC controlled electric O2 system operated through the v-mux multiplex electrical system shall be provided and installed.

The oxygen system shall be completely installed and include a pre-set oxygen regulator with a cylinder pressure gauge and a 200 PSI safety valve with all necessary piping and connections. The oxygen system shall be completely low pressure, and the regulator shall be fastened directly to the cylinder. The regulator shall be set to operate at approximately 50 PSI. The oxygen cylinder shall be installed so the system may be easily turned on and off at the main cylinder valve from the patient compartment. The oxygen cylinder shall be provided by the purchaser.

The oxygen system monitor shall be readily available to the attendant while seated at the head of the cot as part of the microprocessor based electrical system. Flexible



conductive oxygen hose with a minimum 900 lbs. burst rating shall be installed between the regulator and the oxygen receptacles. The system shall be tested and tagged in conformance with NFPA-56-F and KKK-A-1822F.

The electric oxygen system shall be provided with an on/off switch on the attendant control panel. The emergency manual bypass valve shall be located near the oxygen storage compartment in the patient compartment.

<b>50-60-1601</b>	OXYGEN OUTLET (1) LEFT WALL - OHIO MED - ACTION AREA One (1) Ohio Medical flush mounted, quick release wall outlet shall be installed in the forward street side cabinet action area. -----	Y___N___
<b>50-60-1640</b>	OXYGEN OUTLET (1) RIGHT WALL - OHIO MED - HEAD END OF SEATING AREA One (1) Ohio Medical flush mounted, quick release wall outlet shall be installed in the right wall above the head end of the curbside seating area. -----	Y___N___
<b>50-60-1680</b>	OXYGEN OUTLET (1) CEILING - OHIO MED - ABOVE HEAD OF COT One (1) Ohio Medical flush mounted, quick release oxygen outlet shall be installed in the ceiling above the head of cot in the center mount position. -----	Y___N___
<b>50-60-0629</b>	FLOW METER, OXYGEN - THORPE STYLE One (1) Thorpe style oxygen flow meter (15LPM) shall be shipped loose with the completed vehicle. -----	Y___N___
<b>50-60-0761</b>	STAINLESS STEEL WALL PROTECTION - INTERIOR STREETSIDE A brushed stainless steel panel shall be provided on the street side wall from the bottom of the CPR seat -----	Y___N___
<b>50-60-0820</b>	TURTLE TILE - SKID-RESISTANT MAT, CURBSIDE STEPWELL Skid resistant charcoal gray turtle tile matting shall be installed in the curbside step well. -----	Y___N___

**Braun - Paint / Graphics**

Item Number	Name	
<b>60-01-0001</b>	PAINT PROCEDURE All non-anodized aluminum module body surfaces shall be completely chemically steam cleaned, filled with premium body filler as needed, sanded smooth and primed with an epoxy primer and then primed again with a high solid primer. The cured primer surfacer shall be DA sanded with 320 grit and cleaned. A high solid primer shall then be applied, where needed, as a sealer.	Y___N___
<b>60-01-0005</b>	STANDARDS AND SPECIFICATIONS FOR VEHICLE PAINT APPEARANCE Standards and Specifications for Vehicle Paint Appearance <b>1. PURPOSE:</b> To provide cosmetic standards that represent a common language and set of shared expectations of the appearance quality the Bidder's vehicle. This and associated documents define the appearance acceptability and non-acceptability criteria for the Bidder's Ambulance. These standards represent a realistic balance between our Customer expectations and the derived output from our current manufacturing process. Any output required beyond these objectively based requirements requires extraordinary means and comes with associated costs and timing. <b>2. SCOPE:</b> These standards apply to all of the Bidder's vehicles being produced beginning in calendar year 2016. <b>3. DEFINITONS:</b> <b>3.1</b> Class A Surfaces are defined as:	Y___N___



A. Highly Visible or reflective surfaces that cause the viewer's eye to focus on that area of the vehicle.

B. The exterior of the vehicle from 36 inches off of the ground to 96 inches off of the ground.

C. Areas that passengers of the vehicle would view in a normal viewing direction of (+/- 45 degrees) and a distance of (24 Inches – 36 inches).

**3.2 Class B Surfaces are defined as;**

A. Less visible area that is viewed as a general area. This would include areas beyond the normal viewing direction as specified in Class A surfaces including those higher than 96 inches off of the ground or lower than 36 inches off of the ground.

B. Another description would include areas seen peripherally.

C. Any area that must be viewed at an unusual angle.

**3.3 Class C Surfaces are defined as;**

A. Any area that must be viewed by close inspection.

B. This would include the roof area of a cab.

C. Any area that would be visible less than 1% of the time such as door jams or the back of doors including those on the module

**3.4 Class D Surfaces are defined as;**

A. Areas that the consumer will be unable to evaluate without removal of other component parts.

B. Any area that must be viewed at an abnormal or unusual angle.

C. Any area that can only be seen when lying on the ground, from under the vehicle, or require a ladder to see, such as the roof.

#### **4. PROCEDURE:**

**4.1 General Inspection Requirements:**

A. Cosmetic inspection by the Bidder or its suppliers shall use the TIME and DISTANCE method of inspection as described in different sections of this document.

B. The Cosmetic standards defined in this document shall be used for training personnel, checking surface quality produced by any process and used in making "Accept/Reject" decisions.

**4.2 Viewing Conditions:**

A. All visual inspection will be made under normal artificial lighting, unaided and viewed in a manner that duplicates the typical end use of the vehicle. During cosmetic inspection, only visual qualities (appearance) of the part surface shall be considered. surfaces shall be viewed without the aid of magnification, at an angle approx. 45° to normal of the surface to be inspected.

**4.3 The following are Inspection criteria:**

A. Inspection shall be conducted using the unaided eye.

B. Viewing distance shall be 18" or 24" as specified by surface class.

C. Viewing angle shall be at a minimum of 45° to the surface.

D. Light source shall be fluorescent light; the light source shall provide optimal viewing and minimized glare and shadowing of the vehicle.

E. Where subjectiveness intervenes in the assessment, form/fit/function shall take precedent.

**4.4 The following table shall be used to determine viewing distance and duration:**

Codes: Class A Class B Class C Class D

Viewing Distance: 18 inches 18 inches 24 inches 24 inches

Viewing Time: 10 seconds 5 seconds 3 seconds 3 seconds

Viewing Area: 50 Inches SQD 50 Inches SQD 50 Inches SQD 50 Inches SQD

**4.5 Conditions and Acceptance Criteria**

A. The total number of defects per surface shall not exceed the acceptable limit.



4.6 Specific boundary samples are logged in the Bidder's Database and reviewed annually at a minimum for applicability.

4.7 These standards do not apply to an OEM chassis in which case, OEM acceptance standards apply unless it has been quoted to meet the Bidder's Appearance Standards.

4.8 Any OEM chassis painted by the Bidder will conform to the original OEM acceptance standards unless it has been quoted to meet the Bidder's Appearance Standards.

Specification Limits For Vehicle Appearance (Exterior)

ITEM "A" Surface "B" Surface "C" Surface "D" Surface

Bare Substrate NOT ALLOWED NOT ALLOWED NOT ALLOWED NOT ALLOWED

Pin Hole/Solvent Pop .5 mm max. size/1 per 50 inches Squared /must be a minimum of 50 inches apart - MUST NOT BE DEEPER THAN THE CLEAR COAT 1.0 mm max. size/1 per 50 inches Squared /must be a minimum of 50 inches apart - MUST NOT BE DEEPER THAN THE CLEAR COAT 1.5 mm max. size/2 per 50 inches Squared /must be a minimum of 25 inches apart - MUST NOT BE DEEPER THAN THE CLEAR COAT 2.0 mm max. size/3 per 25 inches Squared / must be 12 inches apart - MUST NOT BE DEEPER THAN THE CLEAR COAT Chips/Damage NOT ALLOWED NOT ALLOWED NOT ALLOWED NOT ALLOWED

Cracking NOT ALLOWED NOT ALLOWED NOT ALLOWED NOT ALLOWED

Fish Eyes NOT ALLOWED NOT ALLOWED NOT ALLOWED Must match Boundry Sample

Dings NOT ALLOWED NOT ALLOWED NOT ALLOWED NOT ALLOWED

Dirt - Must "feel" flat .5 mm max. size/1 per 50 inches Squared /must be a minimum of 50 inches apart 1.0 mm max. size/1 per 50 inches Squared /must be a minimum of 50 inches apart 1.5 mm max. size/1 per 50 inches Squared /must be a minimum of 25 inches apart 2.0 mm max. size/ 3 per 25 inches Squared / must be 12 inches apart

Dry Spray NONE ALLOWED NONE ALLOWED NONE ALLOWED Must match Boundry Sample

Mottling - Color Specific Must match Boundry Sample Must match Boundry Sample Must match Boundry Sample Must match Boundry Sample

Off Color to Cab or other Module elements Visually acceptable to the Master Plaque or the Delta E is not greater than 1.5 Visually acceptable to the Master Plaque or the Delta E is not greater than 1.5 Visually acceptable to the Master Plaque or the Delta E is not greater than 1.5 Visually acceptable to the Master Plaque or the Delta E is not greater than 1.5

Orange Peel Equivalent to # 10 panel MIN. Equivalent to # 10 panel MIN. Equivalent to # 10 panel MIN. Equivalent to # 7 panel MIN.

Overspray NONE ALLOWED NONE ALLOWED NONE ALLOWED Must match Boundry Sample

Paint Drops/Drips NONE ALLOWED NONE ALLOWED NONE ALLOWED NONE ALLOWED

Pits/Porosity NONE ALLOWED NONE ALLOWED NONE ALLOWED NONE ALLOWED

Crooked Mask Lines NONE ALLOWED NONE ALLOWED NONE ALLOWED NONE ALLOWED

Burn Through NONE ALLOWED NONE ALLOWED NONE ALLOWED NONE ALLOWED

Sags/Runs NONE ALLOWED NONE ALLOWED NONE ALLOWED NONE ALLOWED

Scratches NONE ALLOWED NONE ALLOWED NONE ALLOWED NONE ALLOWED

Polishing Swirls (Scratches) Minimal amount of micro scratches from polishing are acceptable, must not be felt or able to be seen from 24 inches Minimal amount of micro scratches from polishing are acceptable, must not be felt or able to be seen from 24 inches Minimal amount of micro scratches from polishing are acceptable, must not be felt or able to be seen from 24 inches Minimal amount of micro scratches from polishing are acceptable, must not be felt or able to be seen from 24 inches

Shrinking NONE ALLOWED NONE ALLOWED NONE ALLOWED NONE ALLOWED

Thin Paint NONE ALLOWED NONE ALLOWED NONE ALLOWED NONE ALLOWED

Water Spots/Rinse Blisters NONE ALLOWED NONE ALLOWED NONE ALLOWED NONE ALLOWED NONE ALLOWED



Wet Mark NONE ALLOWED NONE ALLOWED NONE ALLOWED NONE ALLOWED  
 Wrinkling NONE ALLOWED NONE ALLOWED NONE ALLOWED NONE ALLOWED

Specification Limits For Vehicle Appearance (Interior)

ITEM "A" Surface "B" Surface "C" Surface "D" Surface  
 Bare Substrate NOT ALLOWED NOT ALLOWED NOT ALLOWED NOT ALLOWED  
 Pin Hole/Solvent Pop NOT ALLOWED NOT ALLOWED NOT ALLOWED N/A  
 Chips/Damage NOT ALLOWED NOT ALLOWED NOT ALLOWED N/A  
 Cracking NOT ALLOWED NOT ALLOWED NOT ALLOWED N/A  
 Dirt - Must "feel" flat NOT ALLOWED NOT ALLOWED 1mm in diameter or 1.5mm surface area (L x W) at a minimum of 400 mm apart.  
 N/A  
 Dry Spray NOT ALLOWED NOT ALLOWED ALLOWED N/A  
 Off Color to other Module elements NOT ALLOWED NOT ALLOWED NOT ALLOWED N/A  
 Overspray NOT ALLOWED NOT ALLOWED ALLOWED N/A  
 Paint Drops/Drips NOT ALLOWED NOT ALLOWED 1mm in diameter N/A  
 Pits/Porosity NOT ALLOWED NOT ALLOWED NOT ALLOWED N/A  
 Crooked Mask Lines NOT ALLOWED NOT ALLOWED NOT ALLOWED N/A  
 Sags/Runs NOT ALLOWED NOT ALLOWED SAG - 2mm Wide by 2mm Long by .5mm High  
 MAX / RUN - 3mm WIDE by 2mm Long by .5mm High MAX N/A  
 Scratches NOT ALLOWED NOT ALLOWED NOT ALLOWED N/A  
 Shrinking NOT ALLOWED NOT ALLOWED NOT ALLOWED N/A  
 Thin Paint NOT ALLOWED NOT ALLOWED NOT ALLOWED N/A  
 Wrinkling NOT ALLOWED NOT ALLOWED NOT ALLOWED N/A

ITEM "A" Surface "B" Surface "C" Surface "D" Surface

Bare Substrate NOT ALLOWED NOT ALLOWED NOT ALLOWED NOT ALLOWED  
 Pin Hole/Solvent Pop .5 mm max. size/1 per 50 inches Squared /must be a minimum of 50 inches apart - MUST NOT BE DEEPER THAN THE CLEAR COAT 1.0 mm max. size/1 per 50 inches Squared /must be a minimum of 50 inches apart - MUST NOT BE DEEPER THAN THE CLEAR COAT 1.5 mm max. size/2 per 50 inches Squared /must be a minimum of 25 inches apart - MUST NOT BE DEEPER THAN THE CLEAR COAT 2.0 mm max. size/3 per 25 inches Squared / must be 12 inches apart - MUST NOT BE DEEPER THAN THE CLEAR COAT  
 Chips/Damage NOT ALLOWED NOT ALLOWED NOT ALLOWED NOT ALLOWED  
 Cracking NOT ALLOWED NOT ALLOWED NOT ALLOWED NOT ALLOWED  
 Fish Eyes NOT ALLOWED NOT ALLOWED NOT ALLOWED Must match Boundary Sample  
 Dings NOT ALLOWED NOT ALLOWED NOT ALLOWED NOT ALLOWED  
 Dirt - Must "feel" flat .5 mm max. size/1 per 50 inches Squared /must be a minimum of 50 inches apart 1.0 mm max. size/1 per 50 inches Squared /must be a minimum of 50 inches apart 1.5 mm max. size/1 per 50 inches Squared /must be a minimum of 25 inches apart 2.0 mm max. size/ 3 per 25 inches Squared / must be 12 inches apart  
 Dry Spray NONE ALLOWED NONE ALLOWED NONE ALLOWED Must match Boundary Sample



Mottling - Color Specific Must match Boundary Sample Must match Boundary Sample  
 Must match Boundary Sample Must match Boundary Sample  
 Off Color to Cab or other Module elements Visually acceptable to the Master Plaque or  
 the Delta E is not greater than 1.5 Visually acceptable to the Master Plaque or the Delta  
 E is not greater than 1.5 Visually acceptable to the Master Plaque or the Delta E is not  
 greater than 1.5 Visually acceptable to the Master Plaque or the Delta E is not greater  
 than 1.5  
 Orange Peel Equivalent to # 10 panel MIN. Equivalent to # 10 panel MIN. Equivalent to #  
 10 panel MIN. Equivalent to # 7 panel MIN.  
 Overspray NONE ALLOWED NONE ALLOWED NONE ALLOWED Must match Boundary  
 Sample  
 Paint Drops/Drips NONE ALLOWED NONE ALLOWED NONE ALLOWED NONE ALLOWED  
 Pits/Porosity NONE ALLOWED NONE ALLOWED NONE ALLOWED NONE ALLOWED  
 Crooked Mask Lines NONE ALLOWED NONE ALLOWED NONE ALLOWED NONE ALLOWED  
 Burn Through NONE ALLOWED NONE ALLOWED NONE ALLOWED NONE ALLOWED  
 Sags/Runs NONE ALLOWED NONE ALLOWED NONE ALLOWED NONE ALLOWED  
 Scratches NONE ALLOWED NONE ALLOWED NONE ALLOWED NONE ALLOWED  
 Polishing Swirls (Scratches) Minimal amount of micro scratches from polishing are  
 acceptable, must not be felt or able to be seen from 24 inches Minimal amount of micro  
 scratches from polishing are acceptable, must not be felt or able to be seen from 24  
 inches Minimal amount of micro scratches from polishing are acceptable, must not be  
 felt or able to be seen from 24 inches Minimal amount of micro scratches from polishing  
 are acceptable, must not be felt or able to be seen from 24 inches  
 Shrinking NONE ALLOWED NONE ALLOWED NONE ALLOWED NONE ALLOWED  
 Thin Paint NONE ALLOWED NONE ALLOWED NONE ALLOWED NONE ALLOWED  
 Water Spots/Rinse Blisters NONE ALLOWED NONE ALLOWED NONE ALLOWED NONE  
 ALLOWED  
 Wet Mark NONE ALLOWED NONE ALLOWED NONE ALLOWED NONE ALLOWED  
 Wrinkling NONE ALLOWED NONE ALLOWED NONE ALLOWED NONE ALLOWED  
 Gaps in Diamond Plate at intersection of Cab Steps N/A NONE ALLOWED N/A N/A

<b>60-10-0108</b>	CAB - OEM PAINT White The cab shall have OEM paint.	Y ___ N ___
<b>60-01-0004</b>	BUFFING, PAINT - MODULE The paint on the module sides shall be buffed to a high shine using a recommended paint buff system. -----	Y ___ N ___
<b>60-01-0002</b>	PAINT MODULE - OEM PAINT PLUS CLEAR COAT White The module shall be painted with a low voc Axalta polyurethane paint, to match the OEM chassis color, at a dry thickness of no less than 2 to 2.5 mils. The entire module shall be clear-coated, using an Axalta Process, sprayed over the final paint coat. -----	Y ___ N ___
<b>60-30-0200</b>	REFLECTIVE - DOOR REFLECTIVITY Reflective material (25" x 2.5" red/silver chevron style), meeting FMVSS 108 requirements, shall be installed on the lower interior stainless steel panel of each rear door and hinged side door.	Y ___ N ___

If a sliding side door is provided, it shall have a 1.50" x 40.00" white reflective stripe  
 installed on the rear facing edge.



<b>60-25-0101</b>	REFLECTIVE - BLACK MATERIAL IN RUB RAILS Rub rails shall incorporate a 5/8" wide black reflective scotchlite safety accent stripe. -----	Y ___ N ___
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**Braun - Vehicle Manuals**

<i>Item Number</i>	<i>Name</i>	
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<b>80-20-0001</b>	VEHICLE MANUALS (1) PACKAGE SET One (1) Delivery Manual Package shall be supplied with the vehicle, and shall include the following items:	Y ___ N ___
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- Ambulance manufacturer parts, service and operation manuals
- OEM chassis owner's guide
- Complete 12 VDC and 125 VAC wiring schematics for all included standard and optional systems
- Multiplex Electrical system programming - electronic media

<b>90-10-0007</b>	STATEMENT OF LIMITED WARRANTY NEW AMBULANCES	Y ___ N ___
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