

RESOLUTION NO. 2018 - 354

**A RESOLUTION BY THE BOARD OF COUNTY COMMISSIONERS OF ST. JOHNS COUNTY, FLORIDA, AUTHORIZING THE COUNTY ADMINISTRATOR, OR DESIGNEE, TO PURCHASE AND TO EXECUTE A PURCHASE ORDER FOR TWO NEW 2018 BRAUN AMBULANCES**

**RECITALS**

**WHEREAS**, the County seeks to purchase of two (2) 2018 Braun Ambulances; and

**WHEREAS**, in accordance with section 302.6.5.4 of the St. Johns County Purchasing Manual, entitled "Piggyback or Cooperative Purchasing", the County is authorized make said purchase subject to the terms and conditions of Florida Sheriff's Association, Florida Association of Counties & Florida Fire Chief's Association Contract #FSA18-VEF13.0 ("Contract"); and

**WHEREAS**, purchase of the ambulances will be funded by the EMS Department and Fire impact Fees; and

**WHEREAS**, the County has reviewed the terms, provisions, conditions and requirements of the Contract and finds that entering into the Contract for purchase of the ambulances serves a public purpose.

**NOW, THEREFORE BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF ST. JOHNS COUNTY, FLORIDA**, as follows:

Section 1. The above Recitals are incorporated by reference into the body of this Resolution and such Recitals are adopted as finds of fact.

Section 2. The County Administrator, or designee, is hereby authorized to purchase two (2) 2018 Braun Ambulances.

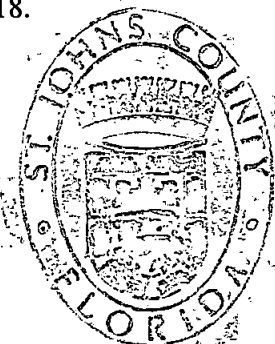
Section 3. In accordance with the terms and conditions of the Contract, the County Administrator, or designee, is further authorized to execute a purchase order in the amount of \$493,668.00 for purchase of the ambulances from Ten-8 Fire Equipment, Inc.

Section 4. To the extent that there are typographical and/or administrative errors that do not change the tone, tenor, or concept of this Resolution, then this Resolution may be revised without subsequent approval by the Board of County Commissioners.

**PASSED AND ADOPTED** by the Board of County Commissioners of St. Johns County, Florida, this 11 day of October, 2018.

**ATTEST:** Hunter S. Conrad, Clerk

By: *Pam Halterman*  
Deputy Clerk



**BOARD OF COUNTY COMMISSIONERS  
OF ST. JOHNS COUNTY, FLORIDA**

By: *Henry Dean*  
Henry Dean, Chair

**RENDITION DATE** 10/18/18

Registration is now open for the 2018 Executive Leadership and Fleet **X**  
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(<http://www.cvent.com/d/pgqhp6>)

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## PURCHASING

« [Back to Main Purchasing Page \(https://www.flsheriffs.org/law-enforcement-programs/cooperative-purchasing-program\)](https://www.flsheriffs.org/law-enforcement-programs/cooperative-purchasing-program)

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## **PURCHASING: AMBULANCE**

**Contract: FSA18-VEF13.0 | Effective May 4, 2018 – March 31, 2020**

The Florida Sheriffs Association offers statewide purchasing contracts on a variety of vehicles, equipment, and services that are available to all eligible\* agencies. While most agencies purchasing from our contracts are within the state of Florida, eligible\* agencies from other states have used the contracts if their governing purchases ordinance allows.

For details of the products and services available, use the links located below that match the commodity you are seeking to purchase. The bid links will take you to pages that are solely dedicated to the bid award for that particular commodity and includes all of the supporting bid documents and the maintenance thereof.



ORDERING INSTRUCTIONS ([HTTPS://S3.AMAZONAWS.COM/FSA-PURCHASING-2018/FIRE-RESCUE-CONTRACT-ORDERING-INSTRUCTIONS.PDF](https://s3.amazonaws.com/fsa-purchasing-2018/fire-rescue-contract-ordering-instructions.pdf))

VENDOR DIRECTORY ([HTTPS://S3.AMAZONAWS.COM/FSA-PURCHASING-2018/FSA18-VEF13.0-AMBULANCE-VENDOR-DIRECTORY.PDF](https://s3.amazonaws.com/fsa-purchasing-2018/fsa18-vef13.0-ambulance-vendor-directory.pdf))

## Products and Services Available

^ Terms and Conditions

Terms and Conditions (<https://www.flsheriffs.org/uploads/docs/terms-conditions-fire-2018-20-v5.1.pdf>)

^ Spec 1 - Type 1 Ambulance 2WD-4WD Optional Diesel Engine

Spec 1 - Type 1 Ambulance 2WD-4WD Optional Diesel Engine (<https://www.flsheriffs.org/uploads/docs/spec-1.pdf>)

ETR, LMC EW (<https://s3.amazonaws.com/fsa-purchasing-2018/spec-1/etr-sbd1.pdf>)

Excellence M (<https://s3.amazonaws.com/fsa-purchasing-2018/spec-1/excellance-sbd1.pdf>)

Quality Emergency Services (<https://s3.amazonaws.com/fsa-purchasing-2018/spec-1/qev-sbd1.pdf>)

REV RTC EW (<https://s3.amazonaws.com/fsa-purchasing-2018/spec-1/revrtc-sbd1.pdf>)

Ten-8 M (<https://s3.amazonaws.com/fsa-purchasing-2018/spec-1/ten-8-sbd1.pdf>)

> Spec 2 - Type 1 Ambulance 2WD-4WD Optional Gas Engine

> Spec 3 - Type 1 Ambulance 2WD Medium Duty

> Spec 4 - Type 2 Ambulance 2 Wheel Drive Van

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➤ Spec 5 - Type 3 Ambulance 2WD Diesel Engine

➤ Spec 6 - Type 3 Ambulance 2WD Gas Engine

OTHER RELATED DOCUMENTS ([HTTPS://WWW.FLSHERIFFS.ORG/LAW-ENFORCEMENT-PROGRAMS/PURCHASING/FIRE-RESCUE-EMS-RELATED-DOCUMENTS-FSA18-VEF13](https://www.flsheriffs.org/law-enforcement-programs/purchasing/fire-rescue-ems-related-documents-fsa18-vef13))

**THE FSA STORE**

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The advertisement features a woman with long dark hair smiling on the right side. The background is a dark, textured grey.

([https://www.companypromostore.com/stores/fsamembers/?utm\\_source=website&utm\\_medium=footer](https://www.companypromostore.com/stores/fsamembers/?utm_source=website&utm_medium=footer))

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[FSA Store !\[\]\(21226b58c700e5231ab98d27101bac58\_img.jpg\) \(https://www.companypromostore.com/stores/fsamembers/?utm\\_source=website&utm\\_medium=footer\)](https://www.companypromostore.com/stores/fsamembers/?utm_source=website&utm_medium=footer)

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Florida Sheriffs Association

2617 Mahan Drive

Tallahassee, FL 32308

(800) 877-2168



The advertisement features a dark, textured background. On the left is the logo for the Global Institute of Forensic Training, which includes a shield with a scale of justice and a crown. The main text reads: "IMPROVE YOUR INTERVIEWING STRATEGIES WHEN INTERVIEWING VICTIMS, WITNESSES, AND SUSPECTS." Below this, it says "Sign up for The PEACE Model certified online training!". On the right side, it says "TO LEARN MORE VISIT [gifinc.com/peace](http://gifinc.com/peace)".

(<https://engine.multiview.com/r?>

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**SPECIFICATION #01 – TYPE I AMBULANCE  
2 WHEEL DRIVE – 4 WHEEL DRIVE OPTIONAL (DIESEL ENGINE, DUAL REAR WHEEL, CAB & CHASSIS)**

Bidding Company: Ten-8 Fire Equipment, Inc.

Manufacturer	Chassis Make/Model	Modular Box	Base Price Discount Included	% Discount Off MSRP	Build Sheets <small>Insert name of USB file</small>
Osage	Ford F350/Warrior	148"x96"x68"HR	\$152,900	10%	<a href="#">Build Sheet</a>
Osage	Ford F450/Warrior	148"x96"x68"HR	\$168,800	10%	<a href="#">Build Sheet</a>
Osage	F450/SuperWarrior	168"x96x72"HR	\$178,700	10%	<a href="#">Build Sheet</a>
Osage	F550/SuperWarrior	168"x96x72"HR	\$179,500	10%	<a href="#">Build Sheet</a>
Osage	Ram4500/Warrior	148"x96"x68"HR	\$168,400	10%	<a href="#">Build Sheet</a>
Osage	Ram4500/SuperWarrior	168"x96x72"HR	\$177,700	10%	<a href="#">Build Sheet</a>
Braun	F350/ExpressPlus	150"x95"x72"HR	\$169,100	10%	<a href="#">Build Sheet</a>
Braun	F450/ExpressPlus	150"x95"x72"HR	\$184,300	10%	<a href="#">Build Sheet</a>
Braun	F450/ChiefXL	169"x95"x72"HR	\$215,200	10%	<a href="#">Build Sheet</a>
Braun	F550/Chief XL	169"x95"x72"HR	\$216,200	10%	<a href="#">Build Sheet</a>
Braun	Ram4500/Express Plus	150"x95"x72"HR	\$179,200	10%	<a href="#">Build Sheet</a>
Braun	Ram4500/ChiefXL	169"x95"x72"HR	\$209,200	10%	<a href="#">Build Sheet</a>





**Equipment Proposal**

**IN SERVICE TO SERVE YOU**

This Equipment Proposal (the "Proposal") has been prepared by Ten-8 Fire Equipment, Inc. ("Company") in response to the undersigned Customer's request for a proposal. This Proposal is comprised of the special terms set forth below, the Proposal Option List (or for ambulance sales, the Quotation, or Order Form, as applicable), Warranty, and Company's Purchasing Terms and Conditions. Through its signature below or other Acceptance (as defined below), Customer acknowledges having received, read and being bound by this Proposal, all attachments and Company's Purchasing Terms and Conditions.

**Date:** September 20, 2018 ("Proposal Date **Customer:** St Johns County Fire Rescue ("Customer")

**Customer Address:** 3657 Gaines Road St Augustine, FL 32804

Quantity	Product Description & Options	Price
2	2018 Braun Chief XL on 2019 Ford F450 Diesel 4x2 chassis FSA Contract #FSA18-VEF13.0	\$246,834.00
<b>Purchase Price:</b>		<b>\$493,668.00</b>

**Delivery Timing:** The Product described above in the Product Description and Options Section of this document will be built by and shipped from the manufacturer approximately 8 (months) after Company receives Customer's acceptance of this Proposal as defined below.

**Other:** Contingent upon receipt of chassis

Unless accepted within 60 days from date of proposal, the right is reserved to withdraw this proposal.

ACCEPTANCE OF THIS PROPOSAL CREATES AN ENFORCEABLE BINDING AGREEMENT BETWEEN COMPANY AND CUSTOMER. "ACCEPTANCE" MEANS THAT CUSTOMER DELIVERS TO COMPANY: (A) A PROPOSAL SIGNED BY AN AUTHORIZED REPRESENTATIVE, OR (B) A PURCHASE ORDER INCORPORATING THIS PROPOSAL, WHICH IS DULY APPROVED, TO THE EXTENT APPLICABLE, BY CUSTOMER'S GOVERNING BOARD. ACCEPTANCE OF THIS PROPOSAL IS EXPRESSLY LIMITED TO THE TERMS CONTAINED IN THIS PROPOSAL AND COMPANY'S PURCHASING TERMS AND CONDITIONS. ANY ADDITIONAL OR DIFFERENT TERMS, WHETHER CONTAINED IN CUSTOMER'S FORMS OR OTHERWISE PRESENTED BY CUSTOMER AT ANY TIME, ARE HEREBY REJECTED.

**INTENDING TO CREATE A BINDING AGREEMENT,** Customer and Company have each caused this Proposal to be executed by their duly authorized representatives as of date of the last signature below.

**Customer:** St Johns County Fire Rescue

**Ten-8 Fire Equipment, Inc.**

By: \_\_\_\_\_

By: 

Title: \_\_\_\_\_

Title: **Authorized Sales Representative**

Print: \_\_\_\_\_

Print: **Eric Wilcox**

Date: \_\_\_\_\_

Date: **9-20-18**

**EXHIBIT A**

**PROPOSAL OPTION LIST  
(OR FOR AMBULANCE, SALES, THE QUOTATION, OR ORDER FORM, AS APPLICABLE)**

PART #	DESCRIPTION	
20-10-0112	INBOARD ARM RESTS FOR ALUMINUM CONSOLE	225.00
20-10-0209	BATTERY - THREE SYSTEM - D SERIES CHASSIS	804.00
20-20-0126	FLOOR CONSOLE - ANGLED FRONT - REMOVABLE PLATES - ALUMINUM	950.00
20-40-0208	OEM WHEELS - WITH VALVE STEM EXTENSIONS	912.00
20-SP-0001	ADD SECOND COMPRESSOR	2,691.00
30-06-0126	ELECTRICAL COMPARTMENT (PDQ) - MULTIPLEX ELECTRICAL SYSTEM	180.00
30-10-0012	AIR HORNS - BUELL DUAL TRUMPETS 10" & 12", UNDR BMPR W/SW	1,938.00
30-10-0073	CAMERA PATIENT AREA SINGLE SYSTEM - VISTA SCREEN	542.00
30-10-0230	INTERCOM SYSTEM - FIRE RESEARCH (ICA 100)	621.00
30-10-0262	INVERTER, VANNER - 1050 WATT, #20-1050CUL-DC CHARGER	1,493.00
30-10-0412	LIGHT OSS-COMPARTMENT - LED ROPE	578.00
30-10-0431	LIGHT, STEPWELL - CURBSIDE DOORWAY - 2" LED SURFACE MNT	232.00
30-10-0534	OUTLETS, 12SVAC - FOUR (4) INTERIOR DUPLEX	76.00
30-10-0560	OUTLETS, 12VDC - THREE (3) INTERIOR POWERPOINT	64.00
30-10-0738	REFRIGERATOR - NORCOLD 1.7 CU FT BUILT-IN	1,726.00
30-11-0104	LIGHTS, DOME LED (7) Grote Dimmable	2,771.00
30-25-0201	LIGHTS, RUNNING BOARD - WHELEN MINI - LED (1) EACH SIDE	198.00
30-25-3116	LIGHTS, FRONT GRILLE - (4) WHELEN 700 SUPER LED -SPLIT RED/CLEAR	703.00
30-26-3008	LIGHTS, REAR TAIL - WHELEN 600 LED STOP, TURN; & MINIMUM INTENSITY BACK-UP	65.00
30-27-1102	LIGHTS, WHELEN 70BTT RED DOT TURN IPOSS ICC	267.00
30-27-4151	LIGHTS, ABOVE RUB RAIL -TECNIQ LED - 4 EACH SIDE	287.00
30-SP-0001	TRAFFIC ADVISOR	935.00
40-09-0164	ZICO SCBA HOLDERS TWO (2)	352.00
40-10-0030	DOCK BUMPERS, REAR	181.00
40-10-0100	FENDERETTES -RUBBER	252.00
40-10-0152	SWITCH DOOR UNLOCK - HIDDEN NEAR REAR LICENSE PLATE	38.00
40-10-0360	KICKPLATE/THRESHOLD, REAR DOORWAY - ANODIZED DIAMOND PLATE	90.00
40-10-0386	VEHICLE ID PLACARDS (Total 3)	225.00
40-10-0506	WINDOWS, PASSAGE DOOR - (CURB SLIDING, REAR SLIDING)	251.00
40-SP-0001	BATTERY COMPARTMENT	892.00
41-01-0207	OUTSIDE STORAGE #1 - STREETSIDE FORWARD -Modified and transverse BB storage	739.00
42-01-0202	OUTSIDE STORAGE #2 - STREETSIDE CENTER- MODIFIED	942.00
43-01-0204	OUTSIDE STORAGE #3 - STREETSIDE REAR - DOUBLE DOORS / OXYGEN STORAGE	3,536.00
43-03-0102	DIVIDER, FIXED - ONE (1) IN OSS #3	284.00
43-04-0102	TRAY (1) SLIDE OUT BOARD W/TREMPRO LINING OUTSIDE STORAGE #3	631.00
44-01-0208	OUTSIDE STORAGE #4A RT. REAR - MODIFIED	1,641.00
45-01-0203	OUTSIDE STORAGE #5 - CURBSIDE FORWARD	1,855.00
50-10-0112	CABINET - LEFT WALL, UPPER REAR #1 - RESTOCKING HINGE (UP)-MODIFIED	289.00
50-10-0229	LEFT WALL - ATTENDANT CONTROL PANEL - HINGED PANEL - MODIFIED	90.00
50-10-0230	CABINET - LEFT WALL, UPPER OVER PANEL #2 RESTOCKING HINGE-MODIFIED	241.00
50-10-0303	CABINET LEFT WALL UPPER #3 - MEDVAULT	2,513.00
50-10-0421	LEFT WALL CABINET #4	621.00
50-10-0522	CABINET #5 - LEFT WALL - REAR ACTION AREA - MODIFIED	289.00
50-20-0279	CABINET - FRONT WALL, LOWER #1- INSIDE/OUTSIDE ACCESS	180.00
50-31-0018	CABINETS - RIGHT WALL, UPPER #1 - #2, NO ANGLED PANEL WITH LIGHTS	714.00
50-41-0203	HEAT/AC 125V/12V COMBINATION UNIT FT-454 W/TMC2007 CONDENSER	7,229.00
50-50-0316	CPR SEAT USSC VALOR CUSHION AND STORAGE BELOW	451.00
50-60-0030	ASSIST HANDLES, (2) 'V' STAINLESS STEEL	102.00

50-60-0095	CLOCK - DIGITAL- INTELLITEC 12VDC MULTI FUNCTION	362.00
50-60-0166	COT FASTENER - CUSTOMER SUPPLIED STRYKER POWER LOAD SYSTEM CENTER POSITION	(1,625.00)
50-60-0351	GRAB RAILS, 1-1/4" DIAMETER, (96") OVER COT & (64") SQ BENCH	103.00
50-60-0435	I.V HANGERS - PERKO TWO (2), WITH VELCRO STRAPS	27.00
50-60-0437	I.V HANGERS - CEILING RECESSED - CAST PRODUCTS #IV2008-1 (4)	194.00
50-60-0590	NET, SQUAD BENCH - CURBSIDE INTERIOR (RED)	266.00
50-60-0612	OXYGEN OUTLETS (3) WALL - OHIO MEDICAL TYPE	157.00
50-60-0709	SHARPS AND TRASH-SQUAD BENCH	456.00
50-SP-0002	MONITOR MOUNT	1,260.00
60-10-0110	PAINT - MODULE	1,647.00
60-10-0170	PAINT CAB	3,598.00
60-SP-0001	GRAPHICS - SPECIAL OPTION	2,390.00
SE-99-0002	HANSON ASSIST HANDLES	110.00
SP-99-0002	PREWIRES (3) 12V	149.00
SP-99-4001	Buss Bar	75.00
SP-99-4012	Cabinet , Drawer Curbside (2)	1,226.00
SP-99-4014	Cabinet , Drop down, pass thru	1,039.00
SP-99-4015	Install customer supplied Aero-Clave	315.00
SP-99-4016	Install tapping plate on back wall of OSS#2	50.00
SP-99-0001	OEM CHASSIS INCENTIVE	(4,000.00)

Options Total \$ 50,685.00

FSA BID Ford F450 4x2 Diesel Braun Chief XL \$215,200.00  
3% discount for first year of contract \$ (6,456.00)  
Braun discount \$ (10,095.00)  
Aluminum Tariff \$ (2,500.00)  
Final price \$246,834.00



QUOTATION

FSA S1 F450 Chief XL 2018

Ten-8 Fire Equipment

Quote No: 10058-0001  
03/29/2018

PART NO	DESCRIPTION	QTY
	<b>== Chief XL 2018 Type I MOD 169" - 18.400 03/07/18 ==</b>	1
00-01-0006	DYNAMIC SIDE IMPACT & ROLLOVER TESTS	1
	<b>KKK CHANGE NOTICE 8 REQUIRED</b>	1
00-01-0018	BIDDER KKK-A-1822F CHANGE NOTICE 8 COMPLIANT	1
00-01-0019	BIDDER KKK-A-1822F CHANGE NOTICE 9 COMPLIANT	1
00-01-0020	BIDDER KKK-A-1822F CHANGE NOTICE 10 COMPLIANT	1
00-01-0021	WEIGHT RATINGS SPECIFIED, INTERIOR, LABELS, CN10 COMPLIANT	1
00-01-0031	NO PERFORMANCE BOND REQUIRED	1
00-01-0041	NO BID BOND REQUIRED	1
00-01-0051	NO REQUIRED DELIVERY DATE	1
00-01-0053	PRECONSTRUCTION MEETING NOT REQUIRED / REQUESTED	1
00-01-0062	LEAD TIME DEFINED	1
00-01-0091	REQUIRED REMAINING EQUIPMENT PAYLOAD:	1
00-01-0222	TYPE I - AMBULANCE - CHIEF XL I - 72" INTERIOR HEADROOM CHASSIS PACKAGES	1
09-10-0001	<b>** IMPORTANT ** CHASSIS NOTIFICATION</b>	1
10-01-0194	CHASSIS - FORD F-450 CHASSIS, 193" WB 4 x 2	1
10-08-0000	<b>** NO CUSTOM CHASSIS REQUIRED **</b>	1
20-10-0099	FUEL TANK - FULL UPON FACTORY RELEASE	1
20-10-0103	SUSPENSION - LIQUID SPRING	1
20-10-0206	BATTERY - TWO SYSTEM - F SERIES CHASSIS	1
20-10-0603	ENGINE BLOCK HEATER - OEM PLUG	1
20-20-0133	FLOOR CONSOLE - ANGLED FACE REMOVABLE PLATES - ALUMINUM	1
20-20-0252	HEAT SHIELDS, PROTECTIVE	1
20-20-0277	HIGH IDLE SYSTEM, AUTOMATIC	1
20-30-0202	MIRRORS, EXTERIOR OEM MANUAL TELESCOPING W/REMOTE & HEAT	1
20-30-0261	OEM AUTO-LOCK DISABLED (cab & module doors do not auto lock or unlock)	1
20-30-0806	RUNNING BOARDS - STAR PUNCHED DIAMOND PLATE	1
20-40-0206	WHEEL SIMULATORS, STAINLESS STEEL WITH VALVE STEM EXTENSIONS	1
	<b>ELECTRICAL SYSTEM FEATURES</b>	1
30-06-0004	ELECTRICAL SYSTEM - WELDON V-MUX, MICRO PROCESSOR BASED	1
30-06-0010	VISTA IV MCC - PUSH BUTTON	1

PART NO	DESCRIPTION	QTY
30-06-0015	VISTA IV ACP - PUSH BUTTON	1
30-06-0026	WARNING DISPLAY - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0050	DAYTIME RUNNING LAMPS - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0076	MASTER CONTROL CONSOLE (MCC) - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0101	ATTENDANT CONTROL PANEL (ACP) - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0126	ELECTRICAL COMPARTMENT (PDQ) - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0150	SPARE CIRCUIT - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0175	WIRING HARNESS CONNECTORS - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0200	RADIO TIE-IN POINTS - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0225	EMERGENCY MASTER SWITCH - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0250	CONTROL PANEL SWITCHES - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0275	MODULE POWER SWITCH - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0285	MODULE DISCONNECT - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0300	VOLTMETER - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0325	FLASHER - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0350	FLASHING HEADLIGHTS - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0375	PARK OVERRIDE - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0400	LOAD MANAGER-SEQUENTIAL SWITCHING SYSTEM - MULTIPLEX ELECTRIC SYSTEM	1
30-06-0410	WARNING LIGHTS FLASH PATTERN SIGNAL ALERT 75 - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0450	FRONT CLEAR DISABLE SWITCH - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0475	CURBSIDE SCENE LIGHTS "ON" WITH CURBSIDE DOOR - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0500	REAR SCENE LIGHTS "ON" WITH REAR DOORS OPEN - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0525	DISABLE SWITCH FOR REAR SCENE LIGHTS - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0550	DISABLE SWITCH FOR SIDE SCENE LIGHTS - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0575	REVERSE (TRANSMISSION) FUNCTIONS - MULTIPLEX ELECTRICAL SYSTEM	1
30-10-0030	BACKUP ALARM	1
30-10-0050	BATTERY CONVERTER / CHARGER	1
30-10-0071	CAMERA REAR VIEW - SINGLE SYSTEM - VISTA SCREEN	1
30-10-0110	ELECTRICAL CIRCUITS	1
30-10-0190	GROUND FAULT CIRCUIT INTERRUPTER (GFCI)	1
30-10-0291	LIGHT, ATTENDANT CONTROL PANEL AREA - LED - WARM WHITE	1
30-10-0310	LIGHT, LED ELECTRICAL COMPARTMENT (PDQ)	1
30-10-0410	LIGHT OSS COMPARTMENT - INCANDESCENT	1
30-10-0527	OUTLETS, 125VAC - THREE (3) INTERIOR DUPLEX	1
30-10-0543	OUTLETS, 12VDC - TWO (2) INTERIOR POWERPOINT	1
30-10-0657	RADIO ANTENNA BASES - TWO (2)	1
30-10-0723	RECEPTACLE SHORELINE INLET-SUPER 20 AMP, AUTO EJECT	1
30-10-0753	SIREN, WHELEN 295-HFSA7-REMOTE WITH MICROPHONE	1
30-10-0812	SIREN SPEAKERS, CAST PRODUCTS - IN FRONT BUMPER	1
30-10-0901	SYSTEM ACTIVE AND CHECK OUT LIGHTS - 15 MINUTES	1
30-11-0106	LIGHTS, DOME SUPER LED (8) WHELEN	1
30-11-0152	LIGHTS, TECNIQ LED PANEL (3) STREETSIDE - ANGLED	1
30-11-0176	LIGHTS, TECNIQ LED PANEL (2) CURBSIDE - ANGLED	1
	<b>EXTERIOR LIGHTING</b>	<b>1</b>
30-25-0122	LIGHTS, ICC / LED CLEARANCE - ON MODULE FRONT - TECNIQ	1
30-25-0123	LIGHTS, ICC / LED CLEARANCE - ON MODULE REAR - TECNIQ	1
30-25-3110	LIGHTS, FRONT GRILLE - (2) WHELEN 500 SUPER LED - RED W/CLEAR LENS	1
30-25-4201	LIGHTS, FRONT MODULE - WHELEN (7)900 - (6)RED, (1) CLEAR LED W/CLEAR LENS	1

PART NO	DESCRIPTION	QTY
30-26-3002	LIGHTS, REAR TAIL - WHELEN 600 LED STOP, TURN, HALOGEN BK-UP	1
30-26-5101	LIGHTS, REAR WINDOW-LEVEL - WHELEN (2)900 LED - RED W/CLR LENS	1
30-26-6155	LIGHTS, REAR MODULE -WHELEN (5)900, (2)RED, (1)AMB LED, (2)LED SCN CLR LENS	1
30-26-7002	LIGHT, LICENSE PLATE LED	1
30-27-1102	LIGHTS, ICC / LED CLEARANCE - ON MODULE SIDE - TECNIQ	1
30-27-1114	LIGHTS, INTERSECTION FRONT - WHELEN 700 SUPER LED - RED W/CLR LENS	1
30-27-2008	LIGHTS, SIDE MODULE SCENE - WHELEN 900 24 DIODE LED - CLEAR	1
30-27-3009	LIGHTS, SIDE MODULE WARNING - WHELEN 900 SUPER LED - RED W/CLR LENS	1
30-27-4115	LIGHTS, INTERSECTION REAR - WHELEN 700 SUPER LED - RED W/CLR LENS	1
<b>MODULE BODY CONSTRUCTION AND CONNECTIONS</b>		1
39-00-0001	MODULE BODY CONSTRUCTION - SEAMLESS	1
39-00-0002	SOLE SOURCE MODULE BODY CONSTRUCTION	1
39-00-0005	AWS ALUMINUM CERTIFIED WELDERS	1
39-10-0003	CONNECTIONS, MODULE	1
<b>MODULE FEATURES / EXTERIOR</b>		1
40-00-0009	ALUMINUM PARTS - MODULE EXTERIOR	1
40-00-0010	CORROSION MINIMIZATION - MODULE	1
40-00-0019	DOOR SKINS, OUTSIDE STORAGE COMPARTMENTS - DIAMOND PLATE INTERIOR SKINS	1
40-00-0020	DOOR CONSTRUCTION - GASKET PLACEMENT	1
40-00-0030	EXTERIOR COMPARTMENTS DESIGN	1
40-00-0050	EXTERIOR COMPARTMENTS, VENTING	1
40-00-0055	EXTERIOR COMPARTMENTS, VENTING - OXYGEN STORAGE	1
40-00-0060	EXTERIOR COMPARTMENTS - SWEEP-OUT	1
40-00-0070	HANDLES, EBERHARD - CHROME FREE FLOATING TYPE	1
40-00-0080	INSULATION - POLYURETHANE SPRAY FOAM	1
40-00-0091	THRESHOLD, STAINLESS STEEL - ALL OSS STORAGE COMPARTMENTS	1
40-10-0066	DOOR SLIDING - MODULE CURBSIDE PASSAGE	1
40-10-0072	LOWERED MODULE SIDES	1
40-10-0088	DOORS - REAR PASSAGE	1
40-10-0103	FENDERETTES - POLISHED ALUMINUM	1
40-10-0120	HOLD-OPEN - REAR DOORS - GRABBERS	1
40-10-0130	EMERGENCY RELEASE LEVER, EXPOSED, REAR PATIENT PASSAGE DOORS	1
40-10-0151	SWITCH UNLOCK, WATERPROOF - HIDDEN IN FRONT GRILLE AREA	1
40-10-0189	LOCKS POWER - PASSAGE, COMPARTMENTS, KEY FOBS	1
40-10-0204	MUD FLAPS, REAR - BLACK RUBBER FIBERGLASS REINFORCED - THREE COLOR	1
40-10-0266	REAR STEP/BUMPER -FLIP-UP CENTER SECTION - STAR PUNCHED AND ANODIZED	1
40-10-0280	RUB RAILS, ANODIZED ALUMINUM	1
40-10-0321	STEPWELL, CURBSIDE DOORWAY - MID STEP AREA	1
40-10-0340	STONE GUARDS, MODULE FRONT - ANODIZED DIAMOND PLATE (24" H)	1
40-10-0360	KICKPLATE/THRESHOLD, REAR DOORWAY - ANODIZED DIAMOND PLATE	1
40-10-0381	TOW HOOKS, MODULE REAR	1

PART NO	DESCRIPTION	QTY
40-10-0505	WINDOWS, PASSAGE DOOR - (CURB SLIDING, REAR FIXED)	1
41-01-0207	OUTSIDE STORAGE #1 - STREETSIDE FORWARD	1
42-01-0202	OUTSIDE STORAGE #2 - STREETSIDE CENTER	1
42-02-0056	SHELF TRACK - EXPOSED - OSS #2	1
42-02-0107	SHELF ONE (1) IN OSS #2	1
43-01-0204	OUTSIDE STORAGE #3 - STREETSIDE REAR - TALL DOOR	1
43-02-0051	SHELF TRACK - EXPOSED - OSS #3	1
43-02-0108	SHELF ONE (1) IN OSS #3	1
44-01-0208	OUTSIDE STORAGE #4A BOARD/SCOOP, #4B O2 CYLINDER - RT. REAR	1
45-01-0203	OUTSIDE STORAGE #5 - CURBSIDE FORWARD	1
	<b>MODULE INTERIOR / PATIENT COMPARTMENT FEATURES</b>	1
50-00-0202	ROUNDED INTERIOR CORNERS	1
50-01-0408	LATCHES, CABINET, CN10 COMPLIANT AS APPLICABLE	1
50-10-0110	CABINET - LEFT WALL, UPPER REAR #1 - FIXED FRAME	1
50-10-0229	LEFT WALL - ATTENDANT CONTROL PANEL - HINGED PANEL	1
50-10-0237	CABINET - LEFT WALL, UPPER OVER PANEL #2 - FIXED FRAME	1
50-10-0340	CABINET - LEFT WALL, LOWER REAR #3 - INSIDE/OUTSIDE	1
50-10-0430	CABINET # 4 - LEFT WALL - REAR ACTION AREA	1
50-10-0604	PRIMARY ACTION AREA	1
50-10-0637	SECONDARY ACTION AREA 2018 CHFSLI	1
50-10-0705	DRAWER - SLIDE-OUT / WRITING TABLE STREETSIDE INTERIOR	1
50-20-0147	CABINET - FRONT WALL, UPPER #1	1
50-20-0289	CABINET - FRONT WALL, LOWER #2 & #3 - INSIDE/OUTSIDE ACCESS	1
50-20-0381	CABINET - FRONT WALL, LOWER BELOW PDQ (SINGLE VENTED DOOR)	1
50-20-0507	PASS THROUGH - CAB TO MODULE, WINDOW OPENING	1
50-30-0114	CABINET - RIGHT WALL, REAR WITH (1) DOOR FACING AISLE #1	1
50-41-0203	HEAT/AIR CONDITIONING, PROAIR IW-3856 580 CFM 4X4 HEAT/AC CORE	1
50-50-0027	SEATING - SQUAD BENCH BASE W/ STORAGE CN8 COMPLIANT VALOR A-VAL BACK	1
50-50-0118	ATTN SEAT - USSC VALOR R - BACK INTEGRAL CHILD, SWIVEL SEAT CN8 COMPLIANT	1
50-50-0318	CPR SEAT FIXED, VALOR A-VAL BACK, CN8 COMPLIANT	1
50-50-0522	SQUAD BENCH LID - WITH SHARPS AND TRASH ACCESS	1
50-50-0541	HOLD OPENS - SQUAD BENCH LID - GAS CYLINDERS	1
50-51-1001	CABINET CONSTRUCTION - INTERIOR - ALUMINUM	1
50-51-1011	RECESSED ADJUSTABLE SHELF TRACK - CABINETS	1
50-51-1013	HOLD OPENS FOR INTERIOR DOORS	1
50-51-1014	CATCH, MAGNETIC - ADHESIVE BACK FOR INTERIOR DOOR(S) OVER 36 INCHES	1
50-51-2004	CABINET DOORS - CLEAR POLYCARBONATE	1
50-51-3001	CABINETS/ WALLS - POLYCHROMATIC COATING - MARBLE STONE	1

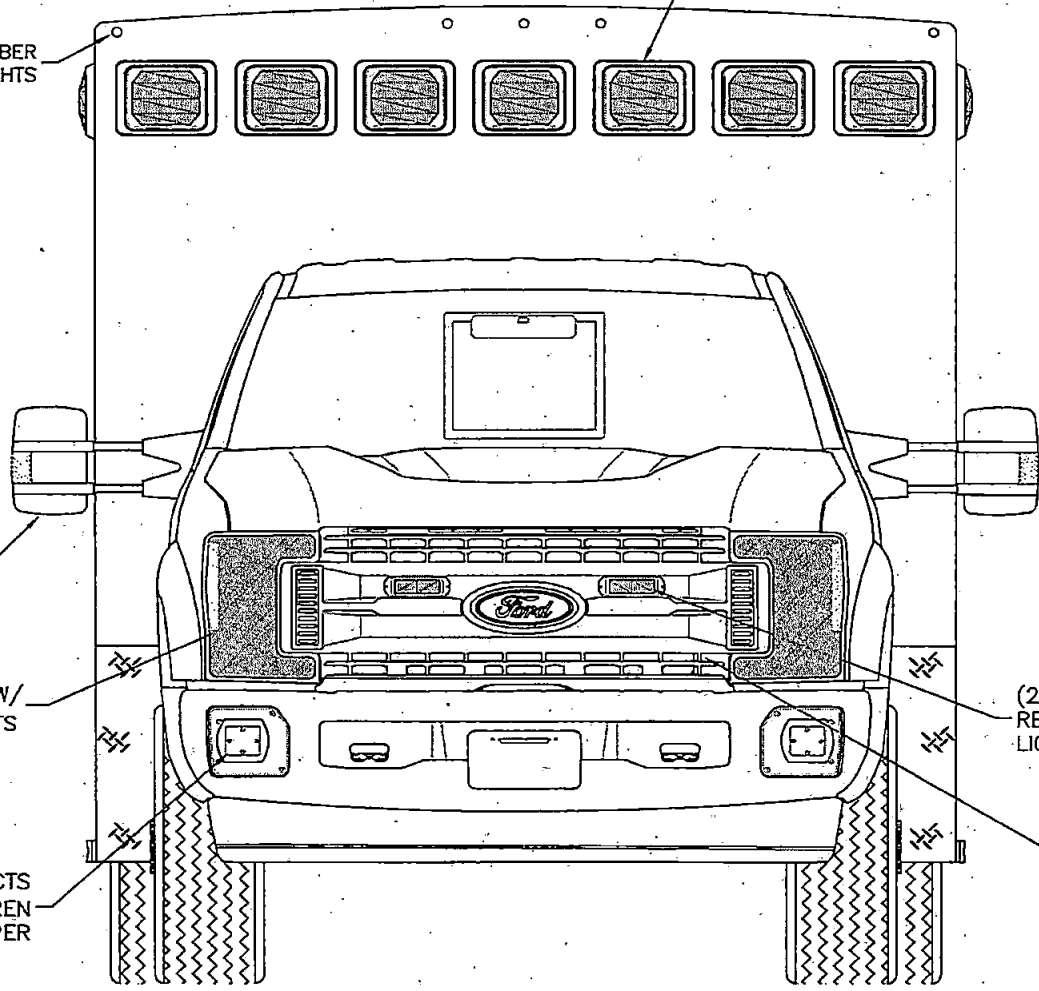


PART NO	DESCRIPTION	QTY
50-51-4011	COUNTER TOP - SOLID ACRYLIC - RAVEN BOULDER (BLACK)	1
50-51-5001	UPHOLSTERY - SPRADLING "ARCTIC" CHARCOAL #9017	1
50-51-6003	LONPLATE II, NON-SLIP EMBOSSED SM. GRID - GUNMETAL #424	1
	<b>OPTIONAL PATIENT COMPARTMENT ITEMS</b>	<b>1</b>
50-60-0019	ASPIRATOR / SUCTION - SSCOR - WITH ELECTRIC PUMP - RECESSED	1
50-60-0037	ASSIST HANDLES, (6) BLACK RUBBER	1
50-60-0161	COT FASTENER - STAT-TRAC SINGLE - CENTER POSITION CN8 COMPLIANT	1
50-60-0220	EMBLEMS / SIGNS - REAR PATIENT COMPARTMENT	1
50-60-0256	EXHAUST VENTILATOR, 3-SPEED - MULTIPLEX ELECTRIC SYSTEM	1
50-60-0300	FLOOR CONSTRUCTION- PATIENT COMPARTMENT, NON-WOOD COMPOSITE	1
50-60-0301	FLOORING - COVE	1
50-60-0322	GLOVE DISPENSER - (3) BOX - ABOVE ENTRY DOOR - CURBSIDE (ABS)	1
50-60-0340	GRAB RAIL, 1-1/4" DIAMETER, (96") OVER COT AREA	1
50-60-0391	HEADLINER - REAR PATIENT COMPARTMENT	1
50-60-0431	I V HANGERS - CEILING RECESSED - CAST PRODUCTS #IV2008-1 (2)	1
50-60-0613	OXYGEN OUTLETS (2) WALL/(1)CEILING - OHIO MEDICAL TYPE	1
50-60-0629	FLOW METER, OXYGEN - THORPE STYLE	1
50-60-0640	OXYGEN SYSTEM, ELECTRIC - MULTIPLEX ELECTRIC SYSTEM	1
50-60-0660	PADDED EDGING PROTECTION	1
50-60-0661	PADS, HEAD AND BACK	1
50-60-0709	SHARPS AND TRASH CONTAINERS - ACCESS THRU SQUAD BENCH LID	1
50-60-0718	SQUAD BENCH FACE - VINYL FLOORING MATERIAL	1
50-60-0730	DOOR PANELS - MODULE PASSAGE DOORS - FULL LENGTH ALUMINUM - W/ACCESS PANELS	1
50-60-0761	STAINLESS STEEL WALL PROTECTION - INTERIOR STREETSIDE	1
50-60-0820	TURTLE TILE - SKID-RESISTANT MAT, CURBSIDE STEPWELL	1
60-01-0001	PAINT PROCEDURE	1
60-01-0002	PAINT MODULE - OEM WHITE	1
60-01-0003	CLEAR COATING - MODULE PAINT	1
60-01-0004	BUFFING, PAINT - MODULE	1
60-01-0005	STANDARDS AND SPECIFICATIONS FOR VEHICLE PAINT APPEARANCE	1
60-10-0108	CAB - OEM PAINT	1
60-25-0101	BLACK REFLECTIVE MATERIAL IN RUB RAILS	1
60-30-0200	DOOR REFLECTIVITY	1
80-10-0101	KKK-A-1822F COMPLIANCE	1
	<b>VEHICLE MANUALS</b>	<b>1</b>
80-20-0001	VEHICLE MANUALS (1) PACKAGE SET	1
90-10-0007	STATEMENT OF LIMITED WARRANTY NEW AMBULANCES	1

DIMENSIONS FOR OVERALL HEIGHT AND LENGTH ARE APPROXIMATE  
 OVERALL HEIGHT = 112"  
 OVERALL WIDTH WITH RUB  
 RAILS & FENDERETTES = 98"

(7) WHELEN 900 SUPER LED WARNING LIGHTS  
 RED/RED/RED/WHITE/RED/RED/RED  
 WITH CLEAR LENSES

(5) TECNIQ S330 AMBER  
 MINI-LED MARKER LIGHTS



OEM POWER  
 ADJUSTABLE  
 MIRRORS

FLASHING HEADLIGHTS W/  
 DAYTIME RUNNING LIGHTS

CAST PRODUCTS  
 SAD3815/SAP3816 SIREN  
 SPEAKERS IN THE BUMPER

(2) WHELEN 500 SERIES  
 RED SUPER LED GRILLE  
 LIGHTS WITH CLEAR LENSES

HIDDEN UNLOCK SWITCH  
 IN GRILLE AREA

THIS DRAWING IS FOR REPRESENTATIONAL PURPOSES ONLY. DETAILS ARE CONCEPTUAL AND ARE SUBJECT TO CHANGE DURING DESIGN AND CONSTRUCTION  
 DIMENSIONS ARE APPROXIMATE UNLESS NOTED OTHERWISE TO MEET A SPECIFIC CUSTOMER NEED.

BRAUN  
 CHIEF XL



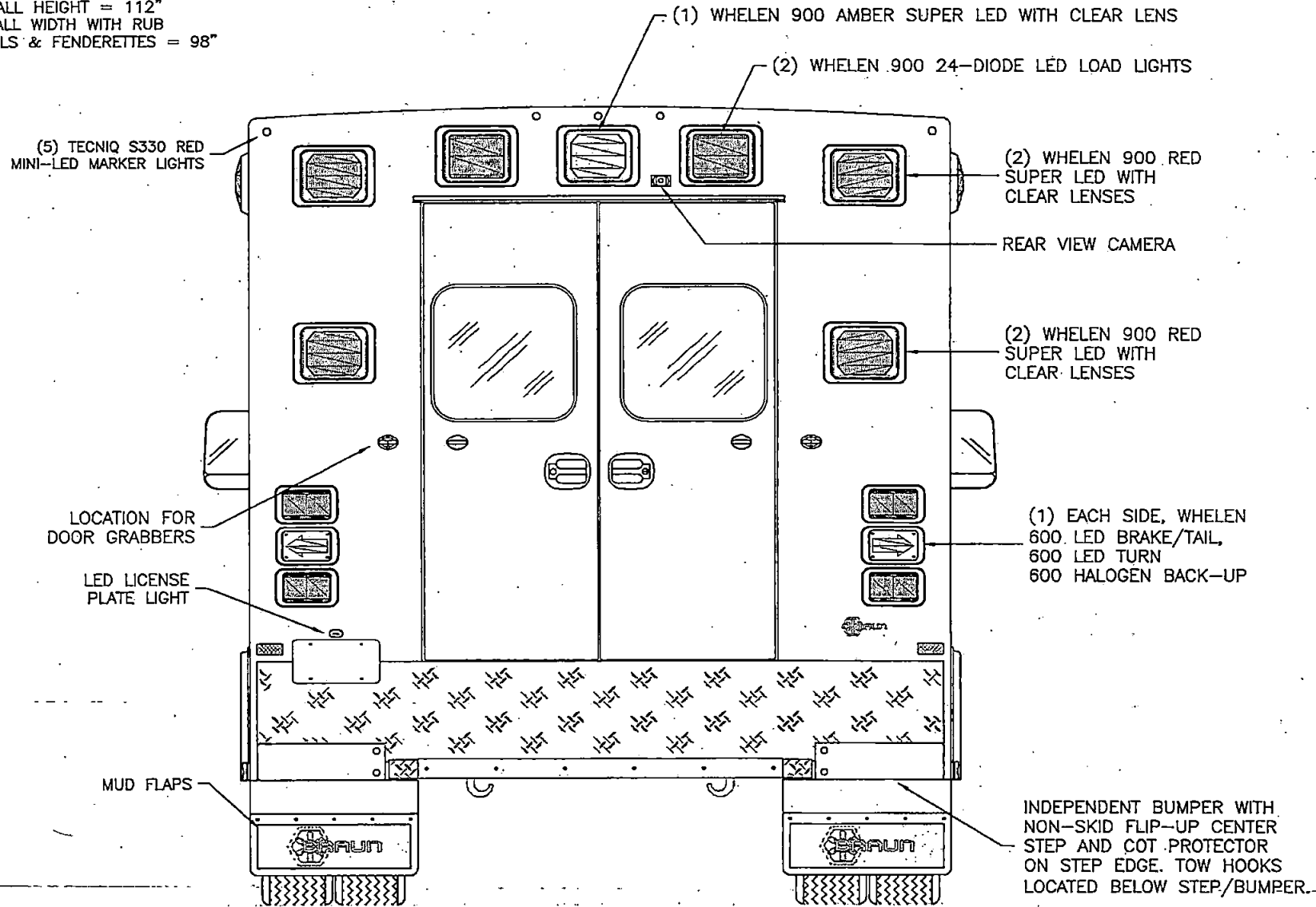
2018 FRONT EXTERIOR VIEW  
 CHIEF XL-1/FORD F-450 CHASSIS

DATE	2-1-17	DRAWING NO.	
DATE	AAB NR	REV.	18XLF450-1

APPROVAL SIGNATURE:

DATE:

DIMENSIONS FOR OVERALL HEIGHT AND LENGTH ARE APPROXIMATE  
 OVERALL HEIGHT = 112"  
 OVERALL WIDTH WITH RUB  
 RAILS & FENDERETTES = 98"



THIS DRAWING IS FOR REPRESENTATIONAL PURPOSES ONLY. DETAILS ARE CONCEPTUAL AND ARE SUBJECT TO CHANGE DURING DESIGN AND CONSTRUCTION  
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BRAUN  
 CHIEF XL

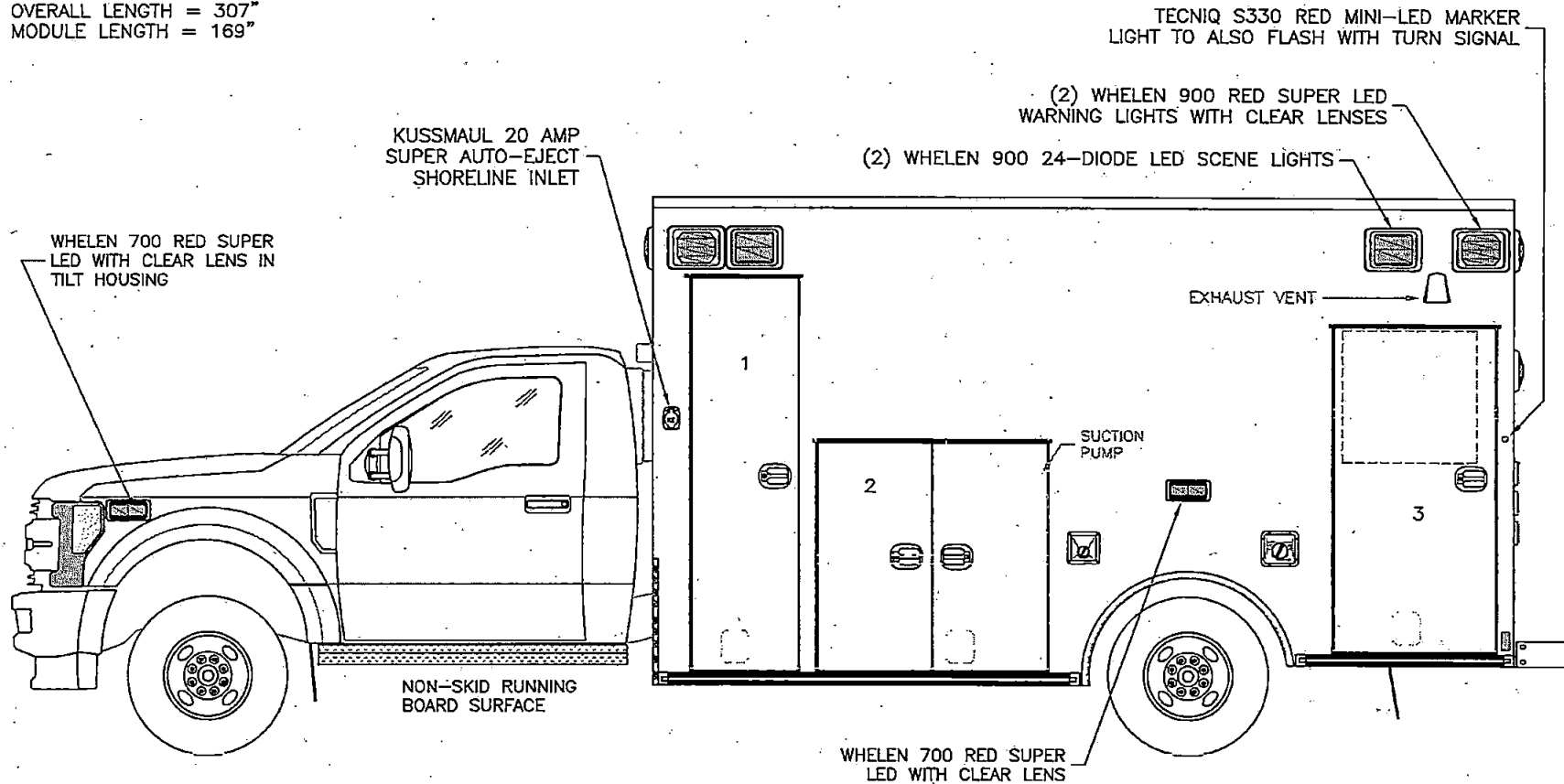


2018 REAR EXTERIOR VIEW  
 CHIEF XL-I/FORD F-450 CHASSIS

1:16

DATE: 6-12-17	DRAWING NO.
DWG. AAB	REV. NR 18XLF450-2

DIMENSIONS FOR OVERALL HEIGHT AND LENGTH ARE APPROXIMATE  
 OVERALL HEIGHT = 112"  
 OVERALL LENGTH = 307"  
 MODULE LENGTH = 169"



COMPARTMENT

O.S.S #1

CLEAR OPENING: 77.00h x 18.25w  
 INSIDE DIM'S.: 86.75h x 24.50w x 20.75d  
 BACKBOARD/SCOOP STORAGE

O.S.S #2

CLEAR OPENING: 44.25h x 39.50w  
 INSIDE DIM'S.: 47.75h x 45.50w x 20.75d  
 (1) ADJUSTABLE SHELF

O.S.S #3

CLEAR OPENING: 63.50h x 28.75w  
 INSIDE DIM'S.: 65.25h x 32.50w x 20.75d  
 INSIDE/OUTSIDE ACCESS  
 (1) ADJUSTABLE SHELF

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 DIMENSIONS ARE APPROXIMATE UNLESS NOTED OTHERWISE TO MEET A SPECIFIC CUSTOMER NEED.

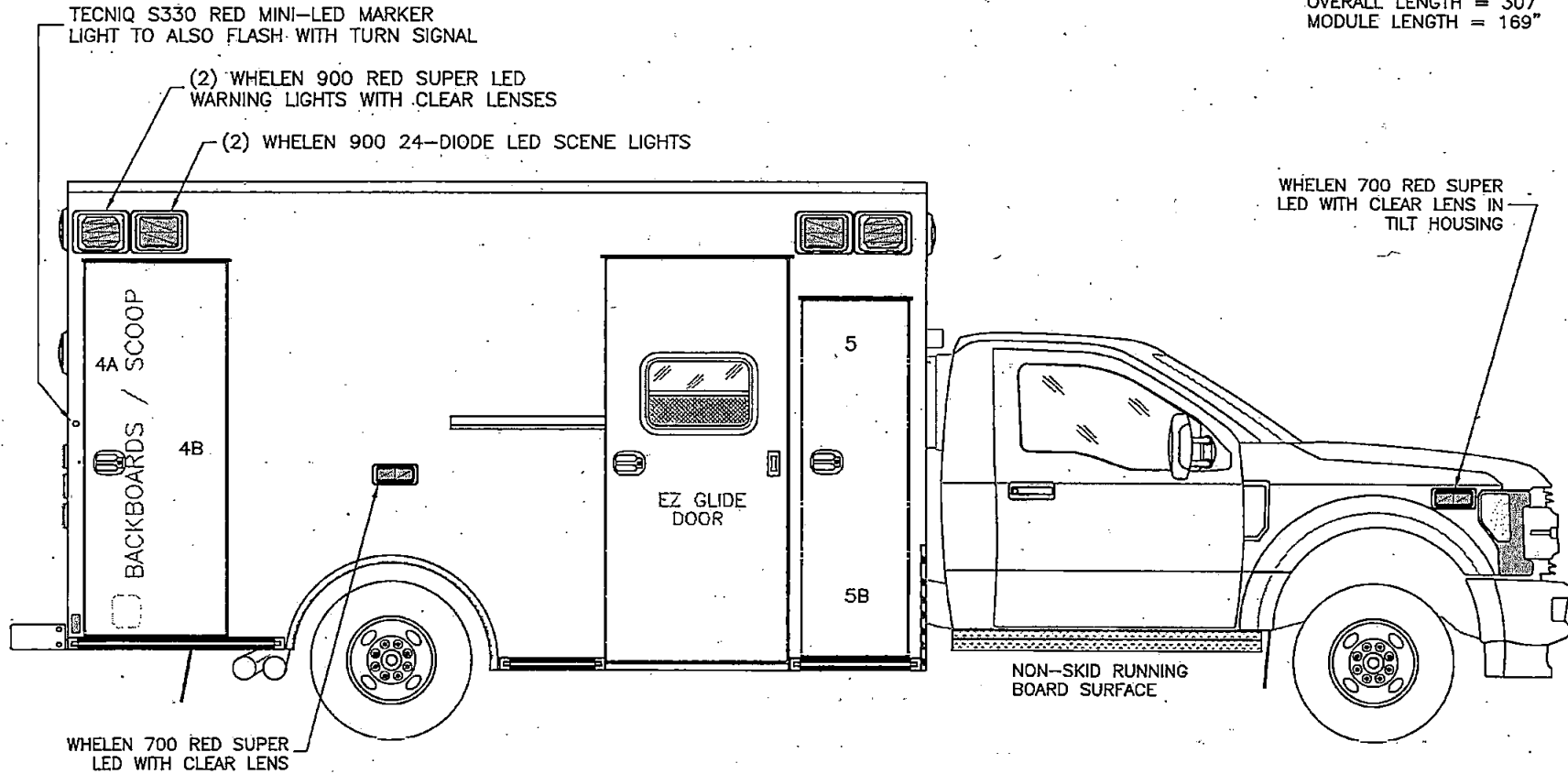
BRAUN  
 CHIEF XL



2018 STREETSIDE EXTERIOR VIEW  
 CHIEF XL-1/FORD F-450 CHASSIS

DATE:	6-26-17		DRAWING NO.
DWG.	AAB	REV.	NR
1:30			18XLF450-3

DIMENSIONS FOR OVERALL HEIGHT AND LENGTH ARE APPROXIMATE  
 OVERALL HEIGHT = 112"  
 OVERALL LENGTH = 307"  
 MODULE LENGTH = 169"



COMPARTMENT  
 O.S.S #4

CLEAR OPENING: 73.00h x 24.75w  
 INSIDE DIM'S. 4A: 82.75h x 15.00w x 20.75d  
 BACKBOARD/SCOOP STORAGE

INSIDE DIM'S. 4B: 82.75h x 13.50w x 12.00d  
 MAIN OXYGEN STORAGE

O.S.S #5

CLEAR OPENING: 69.50h x 17.50w  
 INSIDE DIM'S. 5A: SEE PARTITION INTERIOR VIEW  
 INSIDE/OUTSIDE STORAGE WITH (3) ADJUSTABLE SHELVES

INSIDE DIM'S. 5B: 19.00h x 20.25w x 18.00d

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 DIMENSIONS ARE APPROXIMATE UNLESS NOTED OTHERWISE TO MEET A SPECIFIC CUSTOMER NEED.

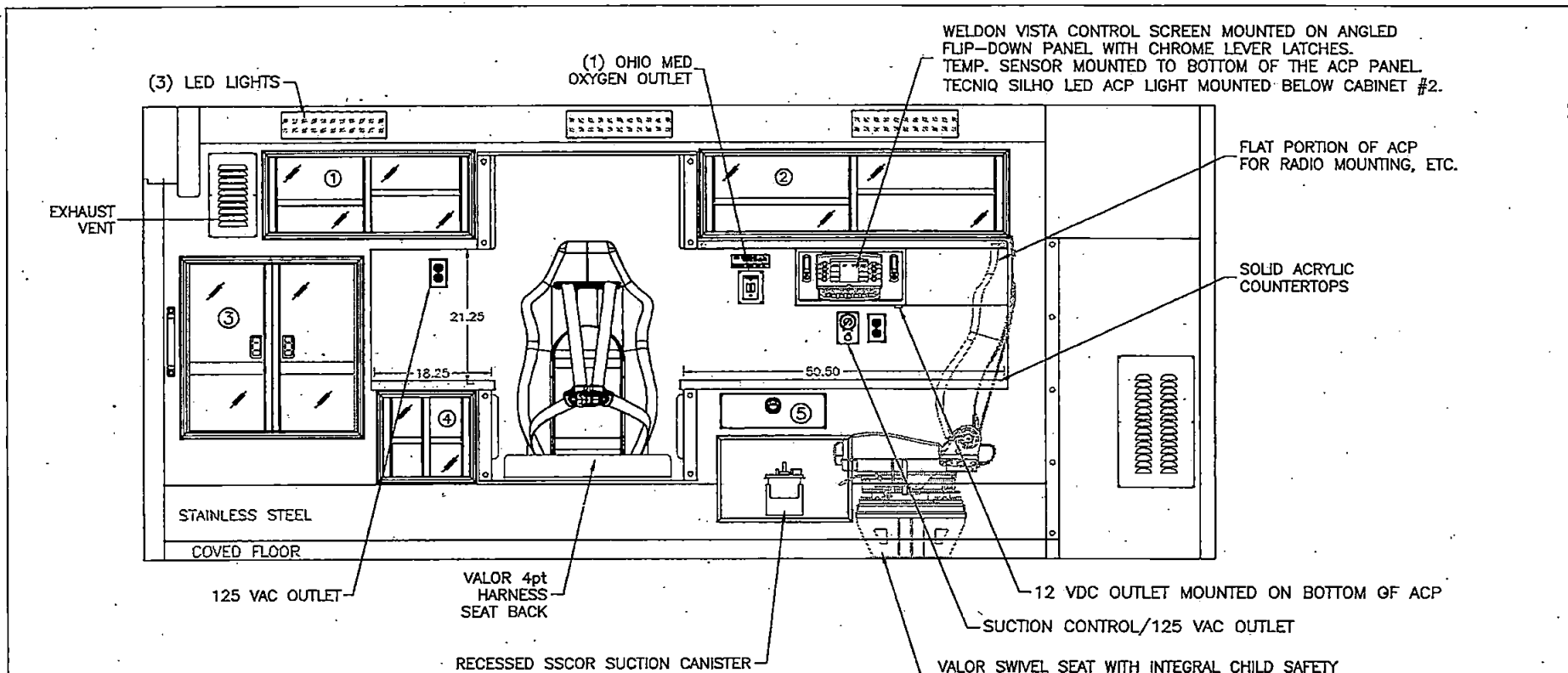
BRAUN  
 CHIEF XL



2018 CURBSIDE EXTERIOR VIEW  
 CHIEF XL-1/FORD F-450 CHASSIS

DATE:		2-15-18		DRAWING NO.
DATE:	2-15-18	REV.		
DATE:	AAB	REV.	NR	18XLF450-4

1:30



COMPARTMENT

#1 DOOR OPENING: 11.75h x 31.50w  
 INSIDE DIMS: 13.25h x 33.00w x 17.25d  
 (1) ADJ SHELF EACH SIDE OF CENTER DIVIDER  
 SLIDING POLYCARBONATE DOORS  
 TOTAL CABINET WEIGHT RATING = 25 lbs.

#2 DOOR OPENING: 11.75h x 46.50w  
 INSIDE DIMS: 13.25h x 48.00w x 17.25d  
 (1) ADJ SHELF EACH SIDE OF CENTER DIVIDER  
 SLIDING POLYCARBONATE DOORS  
 TOTAL CABINET WEIGHT RATING = 25 lbs.

#3 DOOR OPENING: 26.50h x 26.75w  
 INSIDE DIMS: O.S.S. #3  
 HINGED POLYCARBONATE DOORS WITH FULL LENGTH HANDLES  
 CENTER SQUEEZE LATCHES  
 TOTAL CABINET WEIGHT RATING = 40 lbs.

#4 DOOR OPENING: 12.50h x 13.50w  
 INSIDE DIMS: 14.00h x 15.00w x 17.25d  
 (1) ADJUSTABLE SHELF  
 SLIDING POLYCARBONATE DOORS  
 TOTAL CABINET WEIGHT RATING = 15 lbs.

#5 PULL-OUT DRAWER WITH HINGED ACRYLIC WRITING SURFACE  
 INSIDE DIMS: 4.50h x 14.50w x 13.25d  
 LOCKING STAINLESS STEEL FLUSH PULL LATCH  
 TOTAL DRAWER WEIGHT RATING = 10 lbs.

CABINETS TO BE ALUMINUM

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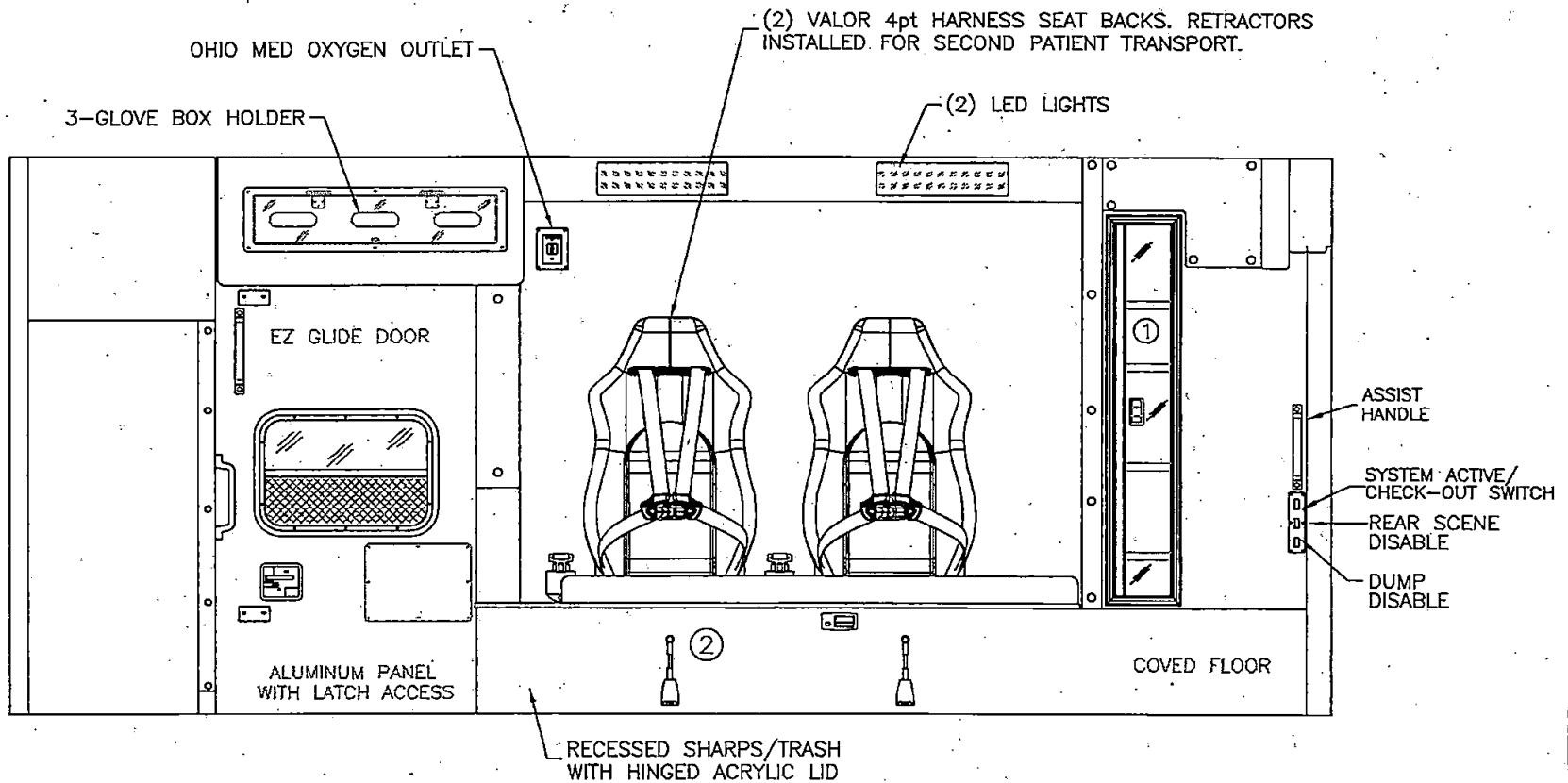
BRAUN  
 CHIEF XL



2018 STREETSIDE INTERIOR VIEW  
 CHIEF XL-I

DATE:	12-15-17	DRAWING NO.	18XLF450-5
DATE:	AAB	REV:	

1:22



COMPARTMENT

#1 DOOR OPENING: 48.00h x 7.25w  
 INSIDE DIMS: 50.00h x 11.50w x 7.50d  
 HINGED POLYCARBONATE DOOR WITH FULL LENGTH HANDLE  
 CENTER SQUEEZE LATCH  
 (4) ADJUSTABLE SHELVES  
 TOTAL CABINET WEIGHT RATING = 25 lbs.

#2 INSIDE DIMS: 14.25h x 77.00w x 21.00d

CABINETS TO BE ALUMINUM

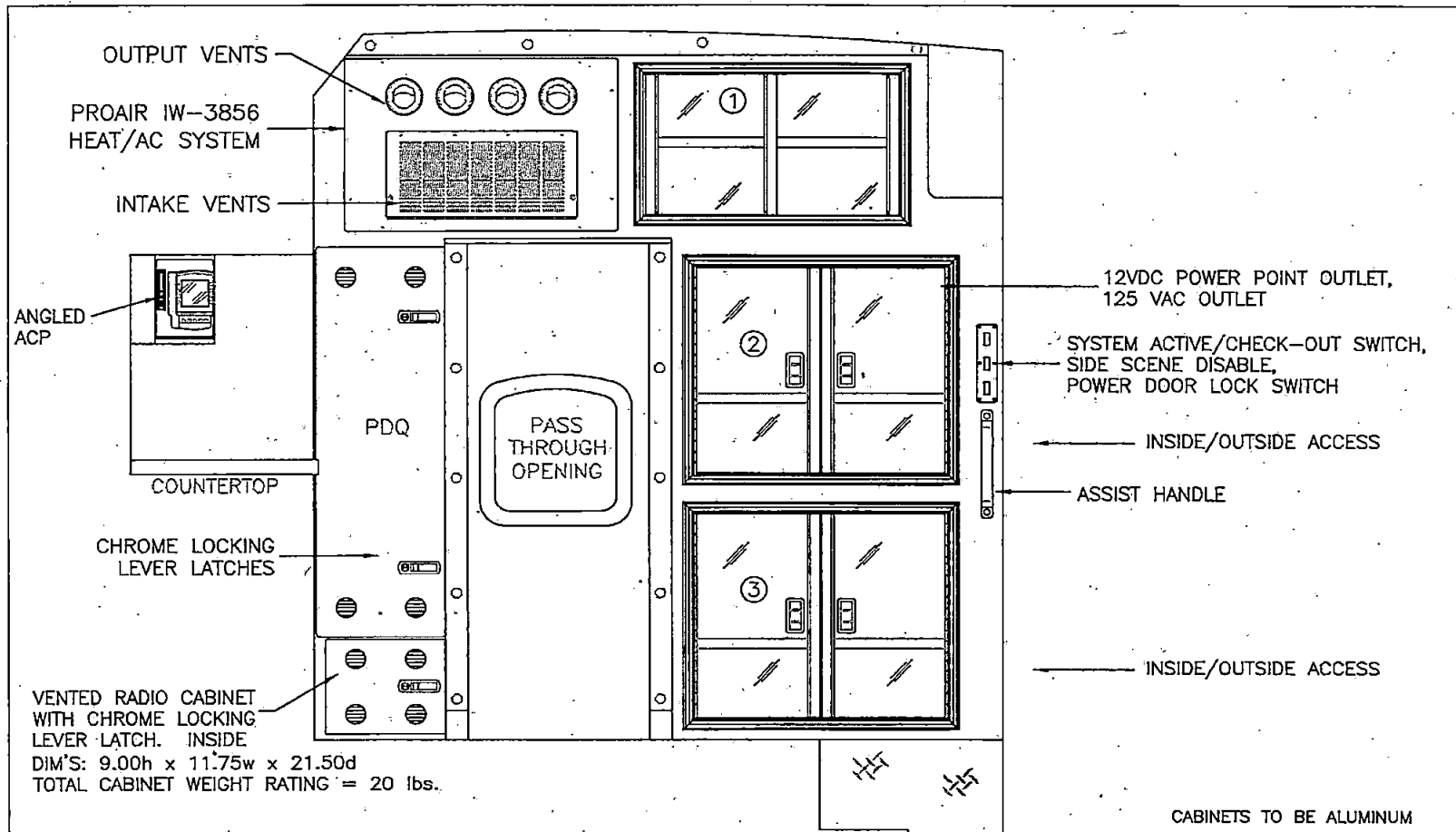
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BRAUN  
CHIEF XL



2018 CURBSIDE INTERIOR VIEW  
CHIEF XL-I

DATE	6-26-17		DRAWING NO.
DESIGNER	AAB	REV.	NR
1:20		18XLF450-6	



**COMPARTMENT**  
 #1 DOOR OPENING: 14.25h x 25.50w  
 INSIDE DIMS: 16.00h x 27.25w x 20.50d  
 (1) ADJUSTABLE SHELF  
 SLIDING POLYCARBONATE DOORS  
 TOTAL CABINET WEIGHT RATING = 25 lbs.

#2 & #3 DOOR OPENINGS: 21.00h x 25.25w  
 INSIDE DIMS: 24.75h x 31.50w x 21.50d  
 HINGED POLYCARBONATE DOORS WITH FULL LENGTH HANDLES  
 CENTER SQUEEZE LATCHES  
 (1) ADJUSTABLE SHELF PER COMPARTMENT  
 TOTAL CABINET WEIGHT RATING = 40 lbs. EACH

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BRAUN  
 CHIEF XL



2018 PARTITION INTERIOR VIEW  
 CHIEF XL-I

DATE 6-26-17		DRAWING NO. 18XLF450-7
DRG. AAB	REV NR	



OXYGEN BYPASS

OXYGEN ACCESS

ALUMINUM PANEL WITH LATCH ACCESS

ALUMINUM PANEL WITH LATCH ACCESS

RED/WHITE REFLECTIVE STRIP ON INSIDE OF EACH DOOR

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BRAUN  
CHIEF XL

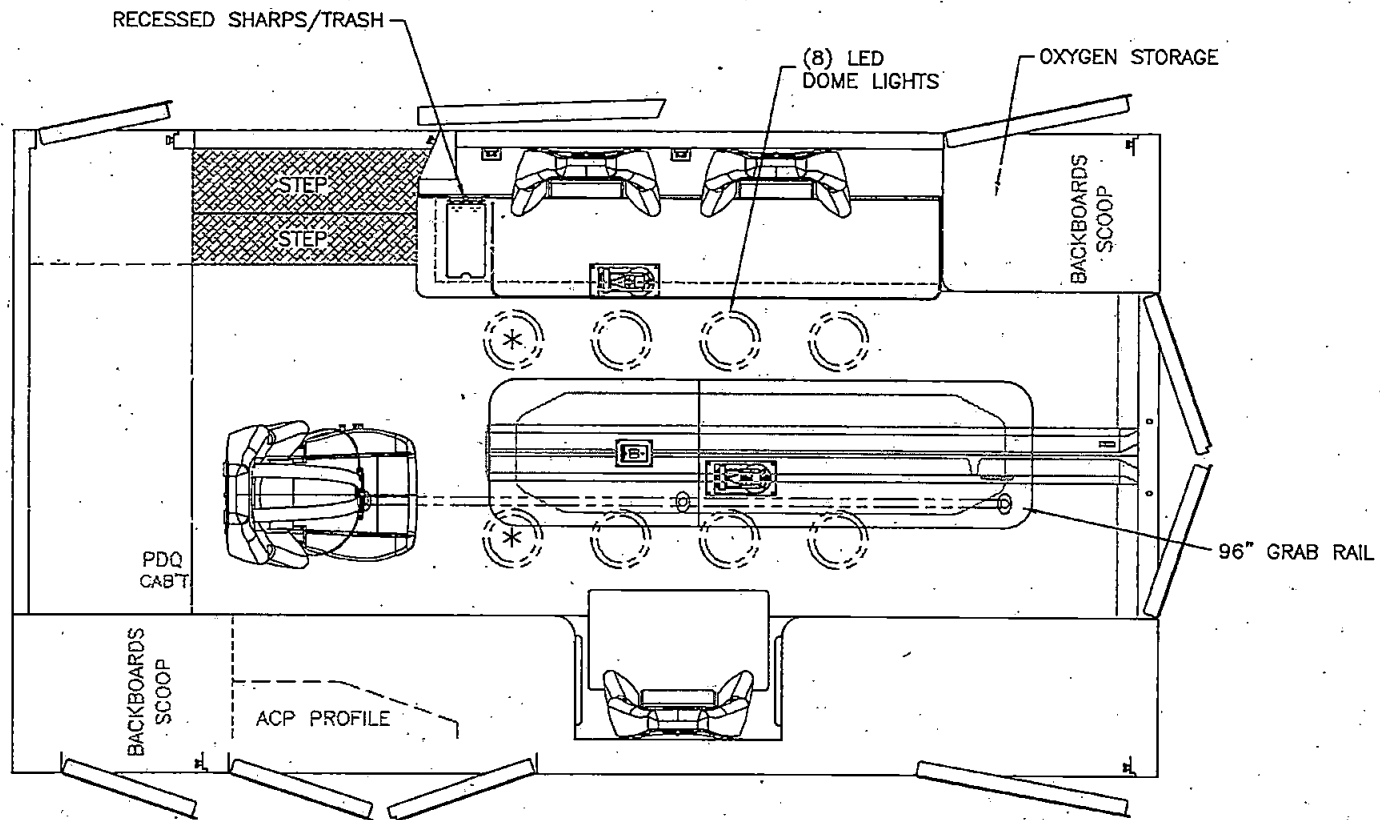


2018 REAR INTERIOR VIEW  
CHIEF XL-I


1:12

DATE:  
2-1-17  
DRAFTER:  
AAB

DESIGNER:  
NR  
DRAWING NO.  
18XLF450-8



 = (2) RECESSED CEILING IV HANGER LOCATIONS

 = (1) CEILING OXYGEN OUTLET

\* (2) ANTENNA BASES LOCATED OUTBOARD OF DOME LIGHTS WITH COAX SERVICE LOOP

96" FERNO STAT-TRAC CENTER MOUNT COT HARDWARE

MODULE WIDTH = 96"  
 MODULE LENGTH = 169"  
 MODULE HEAD ROOM = 72"

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BRAUN  
 CHIEF XL



2018 FLOOR INTERIOR VIEW  
 CHIEF XL-I

1:22

DATE: 2-1-17	DESIGNED NO.:
BY: AAB	REV. NO.:
CHK: NR	18XLF450-9

## Ten 8 Fire Equipment Inc.

### GENERAL CONDITIONS

**PURCHASER:** 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).

**BIDDER:** The "Bidder" is hereinafter defined as the ambulance manufacturer and/or it's authorized Representative/Dealer.

### BIDDER'S INSTRUCTIONS

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.

**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.

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.

**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 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

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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 Ten 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.

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### 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.

### AMD STANDARD 001: STATIC LOAD TEST

**A.M.D. 001 - MANUFACTURERS' BODY STRUCTURE TESTING:** The ambulance described herein shall be tested to the National Truck Equipment Association's Ambulance Manufacturer's Division, AMD Standard 001 - Static Load Test, except the test weight shall be at least 32,000 pounds. 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

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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
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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.

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### 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.

### DYNAMIC SIDE IMPACT & ROLLOVER TESTS

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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.

### **KKK CHANGE NOTICE 8 REQUIRED**

End User / State is required by law to 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.

To be Grandfathered and not require CN8 compliance, please provide a copy of your pre-existing contract for this customer when you submit your order.

### **BIDDER KKK-A-1822F CHANGE NOTICE 8 COMPLIANT**

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.

### **BIDDER KKK-A-1822F CHANGE NOTICE 9 COMPLIANT**

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.

### **BIDDER KKK-A-1822F CHANGE NOTICE 10 COMPLIANT**

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.

### **WEIGHT RATINGS SPECIFIED, INTERIOR, LABELS, CN10 COMPLIANT**

All interior storage compartments and drawers shall have an affixed label that identifies weight rating specifications for each respective compartment / drawer. Specifications must be adhered to in order to comply with all applicable requirements of KKK-A 1822F Change Notice 10, J3058 storage compartment retention requirements.

### **NO PERFORMANCE BOND REQUIRED**

No performance bond required on this order.

### **NO BID BOND REQUIRED**

No Bid Bond Required

### **NO REQUIRED DELIVERY DATE**

No specific required by delivery date.

### **PRECONSTRUCTION MEETING NOT REQUIRED / REQUESTED**

The purchaser and / or end user does not wish to request a Pre-Construction meeting with the manufacturer.

### **LEAD TIME DEFINED**

PLEASE NOTE: Vehicle lead time is established upon date of accepted order and receipt of chassis.

### **TYPE I - AMBULANCE - CHIEF XL I - 72" INTERIOR HEADROOM**

SPECIFICATION INTENT: Type I 169-inch module, constructed with not less than a 72-inch interior module height, an overall length of 307-inches, an overall width of 98-inches and an overall exterior height not to exceed 112-inches.

### **\*\* IMPORTANT \*\* CHASSIS NOTIFICATION**

Manufacturer is not responsible nor can control the OEM chassis production build out dates and change of model years. Published model years and pricing are subject to change between data sets and may need to be updated during the quote and / or order process.

**CHASSIS - FORD F-450 CHASSIS, 193" WB 4 x 2**



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**2019 SPECS NOT RELEASED, USE 2018 FOR REFERENCE ONLY:**

**F4G 2018 FORD F450 CHASSIS CAB, 193" WB 4X2 DRW (108 C.A.)**

### MECHANICAL

- Axle - Mono beam front axle w/coil spring suspension
- Rear-axle 4.10 Limited-slip w/DRW (\*X4N\*)
- Battery - Batteries Dual 750 CCA
- Brakes - Four-wheel Disc Brakes; Anti-lock Brake System (ABS)
- Emission 50-State Emissions System
- Engine - 6.7L 4V OHV POWER STROKE V8 TURBO DIESEL B20 (\*99T\*)
- Engine block heater (\*41H\*)
- Operator Command Regeneration (\*98R\*)
- Tires - 225/70R19.5G BSW A/S (\*TFB\*)
- Transmission - TorqShift® Six-Speed automatic w/SelectShift® automatic (6R140) (\*44W\*)

### FUNCTIONAL

- Alternators: Dual extra heavy duty (\*67B\*)
- Ambulance Prep Package (\*47L\*)
- Hood release
- Horn - dual electric
- Oil minder system
- Shock absorbers - heavy -duty gas
- Sirius XM® Radio (Note: Includes a 6-month prepaid subscription. Service is not available in Alaska or Hawaii).
- Spare Tire, Wheel and Jack (Excludes carrier; includes Hydraulic Jack (\*512\* \*61J\*))
- Springs, rear auxiliary
- Stabilizer bars - front & rear
- Trailer Brake Controller

### EXTERIOR

- Back Panel, rear - solid, no sliding rear window
- Bumper - front, chrome
- CLEAN IDLE DECAL, CAL SER VEH EXP (\*63B\* \*936\*)
- Color - Oxford White (\*Z1\*)
- Fender vents - front
- Front License Plate Bracket
- Fuel Tank - 40 gallon aft axle (F-350 DRW/F-450/F-550)
- Glass - privacy
- Grille - two (2) bar, bright chrome
- Manual locking hubs
- Preferred Equipment Package, XLT Trim (\*653A\*)
- Scuff plates - front, color-coordinated
- Splash Guards/Mud Flaps - Front
- "Three Blink" Lane change signal
- Tow hooks - front (2)

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- Trailer wiring – 7 wire harness w/relays, blunt cut & labeled
- Wheels - 19.5" Argent Painted Steel
- Windshield Wipers – intermittent

### INTERIOR/COMFORT/CONVENIENCE

- 4.2" LCD Productivity Screen in IP Cluster w/Compass display
- 12V Power point, auxiliary
- Air conditioning – single-zone, manual
- Air conditioning vents – black w/chrome ring and knob
- AM/FM Stereo Single-CD/MP3 Player, Clock, (4) four speakers
- Auxiliary audio input jack
- Cabin Air Particulate Filter
- Carpet Delete (\*166\*)
- Coat hooks, LH/RH color-coordinated
- Cruise Control
- Dash top tray
- Dome lamp – LH/RH door activated & I/P switch operated w/delay
- Door locks w/ backlit switches
- Door-trim – soft armrest, grab handle, power window/lock switches and reflector; front map pockets on Regular Cab and SuperCab; front and rear map pockets on Crew Cab
- Gauges & Meters - Fuel, Transmission temperature, Engine coolant temperature, Oil pressure (gas engine), and Turbo (diesel engine) gauges, Speedometer, Odometer, and Tachometer
- Handles, grab – driver & front-passenger Handles, roof ride – front-passenger
- Headrests - driver and passenger 4 way adjustable
- Mirror – rearview 11.5" day/night
- Outside Temperature Display
- Power Equipment Group – 1ST row (front-seat) windows w/one-touch up/down, power/door-locks w/backlit switches & accessory delay
- Seat –Front, high-series cloth 40/20/40, medium earth gr (\*35\*) split bench - 20% center under-seat storage, – w/center armrest, cup holder and storage (manual lumbar – driver's side) – Four-way adjustable driver/passenger headrests
- Steering – power
- Steering wheel – Black urethane with tilt and telescoping steering wheel/column; includes three (3) button message control
- Sun visors – color-coordinated cloth, driver w/pocket, both driver and passenger w/covered mirrors
- Upfitter Interface Module (\*18A\*)
- Upfitter switches – 6 located in Overhead Console

### SAFETY/SECURITY

- AdvanceTrac® with RSC® (Roll Stability Control™)
- AutoLamp – Auto On/Off Headlamps

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- Belt-Minder® (front safety belt reminder)
- Driver and passenger frontal and side airbag/curtain; passenger side deactivation switch
- Headlamps – Quad beam Jewel effect halogen
- Lamps – Roof marker/clearance – LED
- Mirrors – manually telescoping (\*54k\*) /folding trailer tow with power/heated glass, heated convex spotter mirror, integrated clearance lamps/turn signals
- MyKey® owner controls feature
- Remote keyless entry and Perimeter anti-theft alarm
- Safety Belts – color-coordinated w/height adjustment (front-outboard seating positions only)
- Safety Canopy® System
- SecuriLock® Passive Anti-Theft System (PATS)
- Stationary Elevated Idle Control (SEIC)
- SOS Post-Crash Alert System™
- Under hood service light

### DRIVER ASSIST

- AutoLamp (Auto On/Off Headlamps) with Rainlamp Wiper Activated Headlamps
- Cruise control (steering wheel-mounted)
- SYNC® with MyFord® – Voice-activated Communications and Entertainment System with 911 Assist® and AppLink™

### WEIGHT RATINGS

FRONT AXLE WEIGHT RATING	7000
REAR AXLE WEIGHT RATING	12000
GROSS VEHICLE WEIGHT RATING	16500

### 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.

### SUSPENSION - LIQUID SPRING

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.

### BATTERY - TWO SYSTEM - F SERIES CHASSIS

The vehicle shall have a 12 V two (2) battery system rated at 1500 cold cranking amps. Both batteries shall be securely installed in the Ford OEM locations, under the vehicle hood.

### 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.

### FLOOR CONSOLE - ANGLED FACE REMOVABLE PLATES - ALUMINUM

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 shall include an angled face to accommodate (2) USB plugin(s), and the Weldon Vista display. The lower portion of the console shall consist of a flat area that shall contain the siren, two (2) drink holders, and then to the rear center a recessed storage area for maps and reports. The console face plates shall be removable for accessibility and serviceability.

### HEAT SHIELDS, PROTECTIVE

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Three (3) 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.

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

### **MIRRORS, EXTERIOR OEM MANUAL TELESCOPING W/REMOTE & HEAT**

The chassis shall have OEM telescopic trailer tow mirrors with power adjustable flat heated glass and manual adjustable convex glass.

### **OEM AUTO-LOCK DISABLED (cab & module doors do not auto lock or unlock)**

The OEM auto-lock feature will be disabled.

### **RUNNING BOARDS - STAR PUNCHED DIAMOND PLATE**

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.

### **WHEEL SIMULATORS, STAINLESS STEEL WITH VALVE STEM EXTENSIONS**

Stainless steel full wheel simulators shall be provided for the front and the outside rear wheels. Air Max valve extensions shall be provided to properly inflate the inner dual rear tires.

### **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 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.

### **VISTA IV MCC - PUSH BUTTON**

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.

### **VISTA IV ACP - PUSH BUTTON**

A Weldon V-MUX Vista IV interface module / display screen shall be provided and installed in the patient compartment. The Vista module shall be operated through the use of push buttons.

### **WARNING DISPLAY - MULTIPLEX ELECTRICAL SYSTEM**

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)

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Individual outside storage compartment "door open" warnings in vehicle outline form.

Low voltage alarm

Low oxygen pressure alarm

### **DAYTIME RUNNING LAMPS - MULTIPLEX ELECTRICAL SYSTEM**

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)

### **MASTER CONTROL CONSOLE (MCC) - MULTIPLEX ELECTRICAL SYSTEM**

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.

### **ATTENDANT CONTROL PANEL (ACP) - MULTIPLEX ELECTRICAL SYSTEM**

The Attendant Control Panel (ACP) shall contain a color micro processor screen, which will control all equipment installed in the patient compartment.

### **ELECTRICAL COMPARTMENT (PDQ) - MULTIPLEX ELECTRICAL SYSTEM**

The Power Distribution Quarters (PDQ) shall hold electrical components, (i.e. power distribution nodes, circuit breakers, etc). The electrical compartment shall be enclosed by a drop in door with (2) two chrome locking lever latches and be shall located on the partition wall behind the attendant seat.

### **SPARE CIRCUIT - MULTIPLEX ELECTRICAL SYSTEM**

One (1) spare 15 amp circuit shall be provided.

### **WIRING HARNESS CONNECTORS - MULTIPLEX ELECTRICAL SYSTEM**

All wiring harnesses shall be connected via quick connect circular plug connectors.

### **RADIO TIE-IN POINTS - MULTIPLEX ELECTRICAL SYSTEM**

Radio tie-in points shall be installed and labeled in the lower area of the electrical compartment. The radio tie-in points shall be comprised of insulated terminal stud blocks with one "battery hot" and one "ignition hot".

### **EMERGENCY MASTER SWITCH - MULTIPLEX ELECTRICAL SYSTEM**

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.

### **CONTROL PANEL SWITCHES - MULTIPLEX ELECTRICAL SYSTEM**

The switches on the master control console and attendant control panel screens shall have dimmable perimeter backlighting for easy identification.

### **MODULE POWER SWITCH - MULTIPLEX ELECTRICAL SYSTEM**

A module power switch for the electrical system shall be provided on both the master control console and the Attendant Control Panel screens.

### **MODULE DISCONNECT - MULTIPLEX ELECTRICAL SYSTEM**

An In-Power 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.

### **VOLTMETER - MULTIPLEX ELECTRICAL SYSTEM**

One (1) digital voltmeter shall be provided on the master control console screen.

### **FLASHER - MULTIPLEX ELECTRICAL SYSTEM**

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

### **FLASHING HEADLIGHTS - MULTIPLEX ELECTRICAL SYSTEM**

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.

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### **PARK OVERRIDE - MULTIPLEX ELECTRICAL SYSTEM**

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.

### **LOAD MANAGER-SEQUENTIAL SWITCHING SYSTEM - MULTIPLEX ELECTRIC SYSTEM**

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 not-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.

### **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.

### **FRONT CLEAR DISABLE SWITCH - MULTIPLEX ELECTRICAL SYSTEM**

Activation of the switch on the master control console screen shall disable all forward facing clear warning lights.

### **CURBSIDE SCENE LIGHTS "ON" WITH CURBSIDE DOOR - MULTIPLEX ELECTRICAL SYSTEM**

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

### **REAR SCENE LIGHTS "ON" WITH REAR DOORS OPEN - MULTIPLEX ELECTRICAL SYSTEM**

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

### **DISABLE SWITCH FOR REAR SCENE LIGHTS - MULTIPLEX ELECTRICAL SYSTEM**

A disable switch shall be installed at the rear door area to disable the rear scene lights.

### **DISABLE SWITCH FOR SIDE SCENE LIGHTS - MULTIPLEX ELECTRICAL SYSTEM**

A disable switch shall be installed at the curbside door area to disable the curbside scene lights.

### **REVERSE (TRANSMISSION) FUNCTIONS - MULTIPLEX ELECTRICAL SYSTEM**

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.

### **BACKUP ALARM**

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.

### **BATTERY CONVERTER / CHARGER**

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.

### **CAMERA REAR VIEW - SINGLE SYSTEM - VISTA SCREEN**

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.

### **ELECTRICAL CIRCUITS**

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.

SGX 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.

### **GROUND FAULT CIRCUIT INTERRUPTER (GFCI)**

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.

### **LIGHT, ATTENDANT CONTROL PANEL AREA - LED - WARM WHITE**

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A Tecnig 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 the a button on the ACP Vista screen labeled "Attendant Light"

### **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.

### **LIGHT OSS COMPARTMENT - INCANDESCENT**

Each outside storage compartment shall be equipped with two (2) clear Truck-Lite brand incandescent lights, activated by a magnetic switch.

### **OUTLETS, 125VAC - THREE (3) INTERIOR DUPLEX**

Three (3), 2-wire +plus ground 125 VAC hospital-grade duplex outlets shall be installed in the patient compartment with wiring connected to the shoreline. Two (2) outlets shall be installed in the street side cabinet action area, one (1) forward and one (1) rearward, to supply 125 VAC to the monitoring equipment. The third outlet shall be installed in the lower front wall cabinet. An indicator lamp shall be located within each 125 VAC outlet as a line monitor to indicate a live circuit. The outlets shall be labeled, "125 VAC".

### **OUTLETS, 12VDC - TWO (2) INTERIOR POWERPOINT**

Two (2) 12 VDC power point outlets shall be installed in the patient compartment, one (1) in the front wall equipment area, and one (1) in the attendant control panel area in the street side cabinet. The outlets shall be labeled, "12 VDC". A Schottky diode medical isolator shall be provided to protect the 12 VDC outlets.

### **RADIO ANTENNA BASES - TWO (2)**

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.

### **RECEPTACLE SHORELINE INLET-SUPER 20 AMP, AUTO EJECT**

A Kussmaul super auto eject shoreline inlet receptacle with yellow cover shall be installed on the module exterior (forward street side) near the driver's door. The receptacle shall be equipped with an integral dynamic disconnect.

The 125 VAC, heavy duty 20-amp circuit breaker shall have GFCI protection and shall be connected to the lighted 125 VAC patient compartment outlet(s). A mating connector shall be shipped loose with the completed ambulance.

### **SIREN, WHELEN 295-HFSA7-REMOTE WITH MICROPHONE**

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. 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

### **SIREN SPEAKERS, CAST PRODUCTS - IN FRONT BUMPER**

Two (2) Cast Products - 100-watt siren speakers, shall be installed in outer ends of the front bumper.

### **SYSTEM ACTIVE AND CHECK OUT LIGHTS - 15 MINUTES**

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A switch shall be located at the curb and rear entry doors that will allow activation of the V-MUX electrical system. There shall also be a check out light switch located at the curb and rear doors that will allow activation of the left LED angled lights prior to entering the module. The system shall be programmed to shut down automatically after 15 minutes unless the ignition is on. This shutdown delay shall be user adjustable.

### **LIGHTS, DOME SUPER LED (8) WHELEN**

Eight (8) Super LED dome lights, Whelen #80C0EHCR, 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.

### **LIGHTS, TECNIQ LED PANEL (3) STREETSIDE - ANGLED**

Three (3) Tecniq (E30-L010-1) 21 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.

### **LIGHTS, TECNIQ LED PANEL (2) CURBSIDE - ANGLED**

Two (2) Tecniq (E30-L010-1) 21 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.

### **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.

### **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.

### **LIGHTS, FRONT GRILLE - (2) WHELEN 500 SUPER LED - RED W/CLEAR LENS**

Two (2) Whelen 500 series red super LED warning lights, with clear lens and waterproof connectors shall be installed in the grille area of the chassis. The lights shall operate from a switch on the master control console labeled "Flashers".

### **LIGHTS, FRONT MODULE - WHELEN (7)900 - (6)RED, (1) CLEAR LED W/CLEAR LENS**

Seven (7) Whelen 900 series super LED warning lights with chrome flanges shall be installed on the module front. There shall be six (6) red and one (1) center clear light. All lights shall have clear lens. The lights shall operate from a switch on the master control console, labeled "Flashers".

### **LIGHTS, REAR TAIL - WHELEN 600 LED STOP, TURN, HALOGEN BK-UP**

One (1) pair each of Whelen 600 series LED stop/tail lights, turn lights, and halogen back-up lights with chrome bezels shall be installed on the rear of the module.

### **LIGHTS, REAR WINDOW-LEVEL - WHELEN (2)900 LED - RED W/CLR LENS**

Two (2) Whelen 900 series red super LED warning lights with clear lenses and 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".

### **LIGHTS, REAR MODULE -WHELEN (5)900, (2)RED, (1)AMB LED, (2)LED SCN CLR LENS**

Two (2) Whelen 900 series red super LED warning lights with clear lens, two (2) Whelen 900 series 24 diode LED scene/load lights, and one (1) Whelen 900 series amber super LED warning light with clear lens shall be installed on the rear of the module. The lights shall be installed with chrome flanges and shall be operated from switches on the master control console labeled "Flashers" and "Rear Scene Lights".

### **LIGHT, LICENSE PLATE LED**

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.

### **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.

### **LIGHTS, INTERSECTION FRONT - WHELEN 700 SUPER LED - RED W/CLR LENS**

Two (2) Whelen 700 series red super LED warning lights, with clear lens and 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".



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NOTE: When vehicle is placed in park, the override switch must be on for intersection light(s) to remain on.

### **LIGHTS, SIDE MODULE SCENE - WHELEN 900 24 DIODE LED - CLEAR**

Four (4) Whelen 900 series (clear 2-40° light spread) 24 Diode LED scene lights with chrome flanges shall be installed, two (2) each module side. Streetside shall have one (1) scene light inboard of the module rear warning light, and one (1) scene light inboard of the module front warning light. Curbside shall have one (1) scene light inboard of the module rear warning light, and one (1) scene light below side front warning light. These lights shall operate from switches on the master control console labeled "Left Scene Light" and "Right Scene Light".

### **LIGHTS, SIDE MODULE WARNING - WHELEN 900 SUPER LED - RED W/CLR LENS**

Four (4) Whelen 900 series red super LED warning lights with clear lenses and 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; curbside forward stacked. These lights shall operate from a switch on the master control console labeled "Flashers".

### **LIGHTS, INTERSECTION REAR - WHELEN 700 SUPER LED - RED W/CLR LENS**

Two (2) Whelen 700 series red super LED warning lights with clear lenses, chrome flanges and water-proof connectors, shall be installed above the rear wheel wells, one (1) on each side. These lights shall operate from the master control console, labeled "Flashers", via the MasterTech Electrical System. NOTE: When vehicle is placed in park, the override control must be on for intersection light(s) to remain on.

### **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) 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.

### **SOLE SOURCE MODULE BODY CONSTRUCTION**

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.

### **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).

### **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.

### **ALUMINUM PARTS - MODULE EXTERIOR**

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All unpainted exterior aluminum parts shall be bright dip anodized after fabrication to retain the finish and increase corrosion resistance.

### **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.

### **DOOR SKINS, OUTSIDE STORAGE COMPARTMENTS - DIAMOND PLATE INTERIOR SKINS**

The interior door skins for all outside storage compartments shall be constructed of .063" thick aluminum diamond plate.

### **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. Gaskets attached to interior door frames are not satisfactory and shall not be accepted.

### **EXTERIOR COMPARTMENTS DESIGN**

All exterior compartments shall include these features:

- Sound absorbing slip resistant polyurethane material shall be sprayed on the inside of all compartments and compartment shelving, slide out trays and closeouts.
- Baffled seep holes shall be provided to prevent water from splashing or seeping into the exterior compartments.
- Full-length, two-way adjustable, stainless steel hinges on all exterior compartment doors with 3/16" stainless steel hinge pins.
- Compartment doors shall be installed, flush with the module body.
- 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 forward door is locked). All exterior compartments and passage doors shall be keyed alike.
- Lockable, Eberhard "free-floating" type chrome plated handles with rotary locks. A gasket shall be installed under each handle to protect the paint.
- Drip rails shall be installed above all exterior compartment doors.

### **EXTERIOR COMPARTMENTS, VENTING**

A minimum of nine (9) square inches of venting shall be provided inside the #1, #2, #3, & #4 exterior storage compartments to provide for easier closure of the compartment doors.

### **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.

### **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.

### **HANDLES, EBERHARD - CHROME FREE FLOATING TYPE**

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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.

### **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.

### **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.

### **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 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.

Failure to provide the required documentation shall be considered as non-responsive.

### **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.

### **DOORS - REAR PASSAGE**

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. Each door shall have an access port adjacent to the rotary locks.

### **FENDERETTES - POLISHED ALUMINUM**

Polished aluminum fenderettes shall be installed around the rear wheel well openings.

### **HOLD-OPEN - REAR DOORS - GRABBERS**

Door grabbers (1 pair) with hard rubber inserts shall be installed on the rear doors, permitting a door hold open position of 180 degrees.

### **EMERGENCY RELEASE LEVER, EXPOSED, REAR PATIENT PASSAGE DOORS**

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An emergency release lever with a ball knob shall be attached to each rear passage door latch and shall be operated with a sliding motion within a slotted track located towards the edge of the door frame. These levers shall provide an externally mounted means of actuating the latches from the patient compartment without the use of the interior door handles.

### **SWITCH UNLOCK, WATERPROOF - HIDDEN IN FRONT GRILLE AREA**

An exterior waterproof hidden door unlock switch shall also be included.

### **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 door 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.

### **MUD FLAPS, REAR - BLACK RUBBER FIBERGLASS REINFORCED - THREE COLOR**

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.

### **REAR STEP/BUMPER -FLIP-UP CENTER SECTION - STAR PUNCHED AND ANODIZED**

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.

### **RUB RAILS, ANODIZED ALUMINUM**

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.

### **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.

### **STONE GUARDS, MODULE FRONT - ANODIZED DIAMOND PLATE (24" H)**

Bright dip anodized aluminum diamond plate stone guards shall be installed on the lower 24" of the module front, one (1) each side. These stone guards shall be 14" wide.

### **KICKPLATE/THRESHOLD, REAR DOORWAY - ANODIZED DIAMOND PLATE**

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.

### **TOW HOOKS, MODULE REAR**

Two (2) tow hooks shall be provided in the rear step area and shall be securely fastened to the vehicle frame.

### **WINDOWS, PASSAGE DOOR - (CURB SLIDING, REAR FIXED)**

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. The distance between the rear window glass shall not exceed 6" 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.

### **OUTSIDE STORAGE #1 - STREETSIDE FORWARD**

#1 (forward street side compartment) shall have an 77.00" high x 18.25" wide clear door opening with 86.75" high x 24.50" wide x 20.75" deep interior dimensions. The compartment door shall be held open with a spring loaded gas cylinder. A locking handle shall be installed on the exterior of the door.

### **OUTSIDE STORAGE #2 - STREETSIDE CENTER**

#2 (street side center compartment) shall have a 44.25" high x 39.50" wide clear door opening with double doors and shall have 47.75" high x 45.50" wide x 20.75" deep interior dimensions. One (1) fusee holder shall be installed on the inner door skin of the forward compartment door. The compartment shall have double doors held open with a spring loaded gas cylinders. An exterior handle shall be installed on each door. A locking handle shall be installed on the forward door.

### **SHELF TRACK - EXPOSED - OSS #2**

Unistrut 1-1/4" x 3/4", 19 gauge "T" grooved track channel shall be installed in outside storage compartment #2. Exposed tracks will be welded in place and coated with Gatorhyde material for a cleaner look and no exposed fasteners.

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### **SHELF ONE (1) IN OSS #2**

One (1) adjustable shelf with sprayed on polyurethane material shall be provided and installed in outside storage compartment #2.

### **OUTSIDE STORAGE #3 - STREETSIDE REAR - TALL DOOR**

#3 (street side rear compartment) shall have a 63.50" high x 28.75" wide clear door opening with 65.25" high x 32.50" wide x 20.75" deep interior dimensions. This compartment shall have inside/outside access. The compartment door shall be held open with a spring loaded gas cylinder. A locking handle shall be installed on the exterior of the door.

### **SHELF TRACK - EXPOSED - OSS #3**

Unistrut 1-1/4" x 3/4", 19 gauge "T" grooved track channel shall be installed in outside storage compartment #2. Exposed tracks shall be welded in place and coated with Gatorhyde for a cleaner look and no exposed fasteners.

### **SHELF ONE (1) IN OSS #3**

One (1) adjustable shelf with sprayed on polyurethane material shall be provided and installed in outside storage compartment #3.

### **OUTSIDE STORAGE #4A BOARD/SCOOP, #4B O2 CYLINDER - RT. REAR**

#4 (rear curbside compartment) shall have split compartments (#4A / #4B), with an 73.00" high x 24.75" wide clear door opening: compartment #4A shall have 82.75" high x 15.00" wide x 20.75" deep interior dimensions. This compartment shall provide storage for backboards and a scoop stretcher.

Compartment #4B shall have an 82.75" high x 13.50" wide x 12.00" deep interior dimensions with storage for one (1) "M" or "H" oxygen cylinder. A spring loaded hinged acrylic door shall be provided to allow access from inside the patient compartment to the oxygen cylinder valve. A 9-square inch vent shall be provided in the oxygen storage compartment to permit leaking gas to dissipate to the exterior of the vehicle. The oxygen cylinder shall be secured with a minimum of four (4) restraining devices, meeting AMD standard 003. A cylinder changing wrench shall be provided and secured inside the oxygen cylinder compartment. The compartment door shall be held open with a spring loaded gas cylinder. A locking handle shall be installed on the exterior of the door. The oxygen cylinder shall be provided by the purchaser.

### **OUTSIDE STORAGE #5 - CURBSIDE FORWARD**

#5 (forward curbside compartment) shall have a 69.50" high x 17.50" wide clear door opening. The compartment shall be split into two (2) compartments. #5A provides inside/outside storage and shall have and shall have two (2) adjustable shelves. (Reference the lower front wall cabinet in patient compartment specification for interior dimensions). #5B shall have 19.00" high x 20.25" wide x 18.00" deep interior dimensions. The compartment door shall be held open with a spring loaded gas cylinder. A locking handle shall be installed on the exterior of the door.

### **ROUNDED INTERIOR CORNERS**

Interior vertical edges shall have rounded corners in the following locations: forward and aft edges of the CPR seat, the wall at the aft end of the squad bench, the partition opening cabinet edges and the upper front wall cabinet.

### **LATCHES, CABINET, CN10 COMPLIANT AS APPLICABLE**

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.

### **CABINET - LEFT WALL, UPPER REAR #1 - FIXED FRAME**

The left wall, upper rear interior cabinet (#1) shall be enclosed by one (1) set of sliding polycarbonate doors. 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.

### **LEFT WALL - ATTENDANT CONTROL PANEL - HINGED PANEL**

A WELDON Vista Control Screen mounted on an angled flip - down panel secured with locking chrome lever 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.

### **CABINET - LEFT WALL, UPPER OVER PANEL #2 - FIXED FRAME**

The left wall, interior upper cabinet (#2), above the attendant control panel shall be enclosed by one (1) set of sliding polycarbonate doors. 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.

### **CABINET - LEFT WALL, LOWER REAR #3 - INSIDE/OUTSIDE**

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The left wall, lower rear interior cabinet (#3) shall provide inside/outside access into outside storage compartment #3 and be enclosed with hinged polycarbonate doors (reference exterior compartment outside storage compartment #3 in module section shelving configurations.) Each door shall have a full length hinge, a full length handle, and latches.

### **CABINET # 4 - LEFT WALL - REAR ACTION AREA**

An interior cabinet unit (#4) shall be installed under the second action area on the interior left wall of the module. The compartment shall be enclosed by one (1) set of sliding polycarbonate doors with full length handles and the outer most sliding door to have handles on both ends. The cabinet shall be equipped with one (1) adjustable shelf.

### **PRIMARY ACTION AREA**

The primary action area shall be located beside the attendant seat with work area dimensions of 50.50" wide x 17.00" deep.

### **SECONDARY ACTION AREA 2018 CHFSLI**

The secondary action area shall be located to the rear of the CPR seat with work area dimensions of 21.25" high x 18.25" wide x 17.00" deep.

### **DRAWER - SLIDE-OUT / WRITING TABLE STREETSIDE INTERIOR**

A slide-out drawer with a hinged acrylic writing surface shall be provided in the street side wall beside the attendant seat. The drawer shall be constructed of .090" thick aluminum and shall be secured with one (1) stainless steel flush pull latch. The writing surface shall be installed on top of the drawer with a hinge. The drawer interior dimensions shall be 4.50" high x 14.50" wide x 13.25" deep.

### **CABINET - FRONT WALL, UPPER #1**

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

### **CABINET - FRONT WALL, LOWER #2 & #3 - INSIDE/OUTSIDE ACCESS**

The lower front interior wall shall have two (2) cabinets with three (3) adjustable shelves on Unistrut adjustable track brackets. One shelf shall serve as the divider for the cabinets.

The front wall lower cabinet (#2) shall provide inside/outside access. One (1) clear light mounted in a removable panel will provide illumination in this compartment. There shall be aluminum beveled ramp edging installed on two edges of each shelf. This compartment shall be enclosed by one (1) pair of hinged polycarbonate doors. Each door shall have a full length hinge and center squeeze latches.

The front wall lower cabinet (#3) shall provide inside/outside access. One (1) clear light mounted in a removable panel will provide illumination in this compartment. There shall be aluminum beveled ramp edging installed on two edges of each shelf. This compartment shall be enclosed by one (1) pair of hinged polycarbonate doors. Each door shall have a full length hinge and center squeeze latches.

### **CABINET - FRONT WALL, LOWER BELOW PDQ (SINGLE VENTED DOOR)**

The compartment below the power distribution cabinet (PDQ) shall have a vented, hinged aluminum door secured by a chrome locking lever latch. Door to open towards rear of the ambulance module.

### **PASS THROUGH - CAB TO MODULE, WINDOW OPENING**

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.

### **CABINET - RIGHT WALL, REAR WITH (1) DOOR FACING AISLE #1**

A storage compartment (#1) shall be provided to the rear of the squad bench. The compartment shall face the patient compartment aisle and shall be enclosed by a hinged polycarbonate door and with full length handles and center squeeze latch. The compartment shall contain four (4) adjustable shelves.

### **HEAT/AIR CONDITIONING, PROAIR IW-3856 580 CFM 4X4 HEAT/AC CORE**

A ProAir IW-3856 580 CFM heater/air conditioner system with 56,000 BTU heating capacity and 38,000 BTU cooling capacity utilizing a 4x4 AC/Heat core and with a 10-speed blower 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

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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 shall be located above the heater/ac.

### **SEATING - SQUAD BENCH BASE W/ STORAGE CN8 COMPLIANT VALOR A-VAL BACK**

A squad bench seat with two (2) individual seating positions and two (2) VALOR A-VAL shelf mount back frames with internal bolsters will be installed on the curb side of the patient compartment. There shall be two (2) seat belts shall consist of four (4) point / four (4) retractors single click internal mount belt system. Retractors installed for second patient transport. The squad bench seats 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 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 frames and the bench shall be padded and covered with cushioned, color coordinated, cut and sewn vinyl. A storage area shall be provided in the squad bench base under the lift up cushion. 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.

### **ATTN SEAT - USSC VALOR R - BACK INTEGRAL CHILD, SWIVEL SEAT CN8 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.

### **CPR SEAT FIXED, VALOR A-VAL BACK, CN8 COMPLIANT**

A CPR seat shall be installed on the street side of the patient compartment aft of the main 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 four (4) point / four (4) retractors single click 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.

### **SQUAD BENCH LID - WITH SHARPS AND TRASH ACCESS**

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The squad bench lid area shall be 15.75" wide x 77.00" long. The padded cushion shall be 15.50" wide x 62.00" long. The squad bench cushion shall be covered with color coordinated vinyl upholstery material and shall be one-piece, liftable on a full length continuous hinge. The squad bench cushion upholstery shall be sewn with seams only at the vertical corners to minimize entrapment of fluids. An automatic latching fastener shall be installed to secure the squad bench lid in the closed position. Provisions shall be made for the sharps and trash containers to be installed in the squad bench base with access via a hinged clear acrylic door on top of the forward end of the squad bench.

### **HOLD OPENS - SQUAD BENCH LID - GAS CYLINDERS**

Two (2) gas cylinders hold-opens shall be provided and installed to hold the cushioned lid in the open and closed position.

### **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.

### **RECESSED ADJUSTABLE SHELF TRACK - CABINETS**

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.

### **HOLD OPENS FOR INTERIOR DOORS**

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).

### **CATCH, MAGNETIC - ADHESIVE BACK FOR INTERIOR DOOR(S) OVER 36 INCHES**

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.

### **CABINET DOORS - CLEAR POLYCARBONATE**

All sliding 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.

### **CABINETS/ WALLS - POLYCHROMATIC COATING - MARBLE STONE**

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.

### **COUNTER TOP - SOLID ACRYLIC - RAVEN BOULDER (BLACK)**

A Meganite solid acrylic counter top, Raven Boulder (black) #810, with a 1/2" lip shall be installed to prevent equipment from sliding off. The solid acrylic counter top shall be provided on both the primary and secondary action area counters, fore and aft of the CPR seat.

### **UPHOLSTERY - SPRADLING "ARCTIC" CHARCOAL #9017**

All cushions, head pads and seats shall be covered with Spradling International "Arctic" Charcoal #9017 expanded vinyl upholstery material. The arctic vinyl and all foam cushion material shall comply with FMVSS #302 flame spread requirements.

### **LONPLATE II, NON-SLIP EMBOSSED SM. GRID - GUNMETAL #424**

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.

### **ASPIRATOR / SUCTION - SSCOR - WITH ELECTRIC PUMP - RECESSED**

An SSCOR suction system shall be recessed into the street side lower interior wall near the attendant's seat over main action area. The system shall be activated by a switch on the attendant control panel. The 12 VDC electric vacuum pump shall be mounted in the standard outside storage compartment. The SSCOR vacuum pump exhaust shall be vented to the exterior of the vehicle.

### **ASSIST HANDLES, (6) BLACK RUBBER**



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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.

### **COT FASTENER - STAT-TRAC SINGLE - CENTER POSITION CN8 COMPLIANT**

A Stat Trac, single-position (center mount) cot fastener 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.

### **EMBLEMS / SIGNS - REAR PATIENT COMPARTMENT**

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.

### **EXHAUST VENTILATOR, 3-SPEED - MULTIPLEX ELECTRIC SYSTEM**

A three-speed, 300 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.

### **FLOOR CONSTRUCTION- PATIENT COMPARTMENT, NON-WOOD COMPOSITE**

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 single piece of 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.

### **FLOORING - COVE**

The patient compartment floor radius shall be covered with pre-formed floor coving material. The coving shall be installed behind the vinyl floor covering, along both the street side and curbside walls.

### **GLOVE DISPENSER - (3) BOX - ABOVE ENTRY DOOR - CURBSIDE (ABS)**

A three (3) - box glove dispenser unit, with a clear polycarbonate 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.

### **GRAB RAIL, 1-1/4" DIAMETER, (96") OVER COT AREA**

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.

### **HEADLINER - REAR PATIENT COMPARTMENT**

The headliner in the patient compartment shall be one-piece, seamless, .090 thick aluminum finished with sprayed-on multi-use polychromatic coating.

### **I V HANGERS - CEILING RECESSED - CAST PRODUCTS #IV2008-1 (2)**

Two (2) Cast Products #IV2008-1 recessed, dual, ceiling I.V. hangers shall be provided. One (1) installed near the street side above the cot area, and one (1) near the curbside above the squad bench area.

### **OXYGEN OUTLETS (2) WALL/(1)CEILING - OHIO MEDICAL TYPE**

Three (3) Ohio Medical flush mounted, quick release outlets shall be installed. One (1) in the forward street side cabinet action area, one (1) shall be installed in the wall above the squad bench and one (1) shall be installed in the ceiling above the head end of the cot.

### **FLOW METER, OXYGEN - THORPE STYLE**

One (1) Thorpe style oxygen flow meter (15LPM) shall be shipped loose with the completed vehicle.

### **OXYGEN SYSTEM, ELECTRIC - MULTIPLEX ELECTRIC SYSTEM**

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

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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 screen. The emergency manual bypass valve shall be located near the oxygen storage compartment in the patient compartment.

### **PADDED EDGING PROTECTION**

Padded corner edging shall be installed where necessary on exposed corners and edges in the patient compartment for patient and attendant protection.

### **PADS, HEAD AND BACK**

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 each side of the CPR seat. The pads shall be covered with a flame retardant color coordinated vinyl upholstery material.

### **SHARPS AND TRASH CONTAINERS - ACCESS THRU SQUAD BENCH LID**

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 access through the squad bench lid, and covered with a 3/8" thick clear acrylic hinged lid with a biohazard warning label.

### **SQUAD BENCH FACE - VINYL FLOORING MATERIAL**

The face of the squad bench shall be covered with vinyl flooring material.

### **DOOR PANELS - MODULE PASSAGE DOORS - FULL LENGTH ALUMINUM - W/ACCESS PANELS**

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:

### **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 cushion down to the flooring material to protect this area when the cot is taken in or out of the vehicle.

### **TURTLE TILE - SKID-RESISTANT MAT, CURBSIDE STEPWELL**

Skid resistant charcoal gray turtle tile matting shall be installed in the curbside step well.

### **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.

### **PAINT MODULE - OEM 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.

### **CLEAR COATING - MODULE PAINT**

The entire module shall be clear-coated, using an Axalta Process, sprayed over the final paint coat.

### **BUFFING, PAINT - MODULE**

The paint on the module sides shall be buffed to a high shine using a recommended paint buff system.

### **STANDARDS AND SPECIFICATIONS FOR VEHICLE PAINT APPEARANCE**

## **Standards and Specifications for Vehicle Paint Appearance**

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1. **PURPOSE:** 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.
2. **SCOPE:** These standards apply to all of the Bidder's vehicles being produced beginning in calendar year 2016.
3. **DEFINITIONS:**
  - 3.1 Class A Surfaces are defined as:
    - 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:

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- 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 cased, 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)

ITBM	"A" Surface	"B" Surface	"C" Surface	"D" Surface
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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
Flash 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
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

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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

## Ten 8 Fire Equipment Inc.

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

**BLACK REFLECTIVE MATERIAL IN RUB RAILS**

Rub rails shall incorporate a 5/8" wide black reflective scotchlite safety accent stripe.

**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.

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.

**KKK-A-1822F COMPLIANCE**

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.

**VEHICLE MANUALS (1) PACKAGE SET**

One (1) Delivery Manual Package shall be supplied with the vehicle, and shall include the following items:

- 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