Proposal Summary

Reference:	QUO0000008782 Rev: 0	**Opportunity:**	Dodgeville - MXP170
Purchaser:	**Dodgeville Area Ambulance**	**Account**	Pomasl Fire Equipment
Contact:	Brian Cushman	**Contact:**	Kevin Pomasl
Address:	300 W. Spring Street	**Shipping**	1918 Neva Road
	Dodgeville, WI 53533	**Address:**	Antigo, WI 54409
Sales Contact:	Kevin Pomasl	**Quotation Date:**	2023-08-27
Mobile:	715-610-4210	**Expiration:**	2023-10-27
Phone:	715-623-7454		

Name	Specifications
Type I - MXP170	Overall Length 318" – Approx. with HERD guard Overall Width 95" Overall Height 110" **Headroom 72"** Wheelbase 192.5" *Depending on chassis selection **Total height of vehicle may differ according to chassis and suspension

Product	Description
MXP170	Type I Ambulance Chassis Cab: Modular Aluminum Body **170"L x 95"W x 72" HR**

Chassis

Item Number	Name/Description
CHP-FRD-17	**Ford F550 XLT Super Duty Diesel Chassis Cab 4X4 193** - 6.7L Power Stroke V8 Diesel Engine - Wheelbase 193" - 4 X 4 - GVWR (Gross vehicle weight rating) 18,000 lbs. - XLT package - Adjustable brake / gas pedals - Traction tires - Vinyl flooring - Operator commanded regeneration - SYNC3 with large touch screen - Ford OEM white paint
CHP-SPC-01	**Tire fill extensions** Tire fill extensions installed on inside rear dual rear wheels
CHP-SPC-02	**Wheel Covers** The front and rear wheels will be have stainless steel wheel covers installed.

Demers Ambulance USA Inc.
1170 Production Drive. Van Wert OH, 45891

Page 1 of 26

Suspension

Item Number	Name/Description
SUS-LIQ-10	**Liquid Spring Front Suspension** Compressible Liquid Adaptive Suspension System, is a smart suspension systems. Liquid--based struts and an on--board processor provide better handling and control, and a smoother, softer ride. The reduced vehicle vibration increases comfort. - A single controller will be installed in the cab within reach of the driver to manually control the Ride Quality and Ride Height for both the front and rear suspension.
SUS-LIQ-11	**Liquid Spring™ Rear Suspension Type I** Compressible Liquid Adaptive Suspension System, is a smart suspension systems. Liquid--based struts and an on--board processor provide better handling and control, and a smoother, softer ride. The reduced vehicle vibration increases comfort. - A single controller will be installed in the cab within reach of the driver to manually control the Ride Quality and Ride Height for both the front and rear suspension.

Module & Insulation

Item Number	Name/Description
MOD-ALU-14	**MXP170 Ambulance Module** Ambulance Module Structure / Door Structure and Accessories **170" long ambulance body x 95" wide with 72" interior headroom** **Advanced Safety Testing** per attached specifications: - Ambulance will meet all North American Testing requirements (both USA and Canada) to provide superior strength and safety - Cabinet Structural testing, up to 13,000 lb. pull test - Passenger and safety restraint load test, 5,100 lb. pull test - Safety seat test, 5,035 lb. pull test - Main cot retention, 5,034 lb. pull test - Safety net, 3,080 lb. pull test - Grab rail pull testing, 500 lbs. - Static load test – side - Static load test – roof - Sound level testing of patient interior and cab interior - Climate control testing to AMD requirements: both heating and cooling **Drop Skirts:** On **both sides** of the ambulance module, there shall be a **6'' drop skirt**. **Lifetime Structural Warranty** **Lifetime Cabinet Warranty**
MOD-SPC-01	**Super Insulation Package** Two (2) layers of radiant aluminum insulation installed in addition to our plank insulation in all four side walls, ceiling, and the floor
MOD-SPC-02	**Additional Sound Deadening Package** **Dynamat Sound Deadening material** installed on the bottom of the ambulance, under the

Demers Ambulance USA Inc.
1170 Production Drive. Van Wert OH, 45891

Page 2 of 26

side doorstep and above the rear wheel well to provide additional sound deadening to the patient area

Curbside Exterior	
Item Number	Name/Description
MCF-CC1-11	**C1 Door, ALS Access and Battery Location** First door on curbside (C1) for In/Out ALS compartment access. - One upper adjustable shelf - One fixed center shelf - One lower adjustable shelf Battery slide out sealed compartment under ALS with conversions batteries installed. Sealed storage area.
MCF-CC2-11	**C2, Curbside Entry Door** Side entry door on curbside (C2) for patient compartment access, with flush-mounted, automotive-style window. - Demers specific flush mounted window that *does not leak salt* - **Lock / Unlock door switch** installed on side entry door - Emergency release latches installed on top and bottom door latch
MCF-CC3-11	**C3 Door, Storage Exterior Compartment** Third door on curbside (C3) for backboard, Stair Chair and other storage.
MCF-CC3-13	**Stair Chair Location, Two (2) Adjustable Shelves** C3 with center backboard divider and stair chair location forward of divider with pocket in the door and two (2) adjustable shelves above stair chair location One (1) retaining safety belt for backboard in C3 compartment. One (1) retaining safety belt for the stair chair in C3 compartment.
MCF-CC3-15	**KED Storage on inside of C3 Door** Storage for KED or similar equipment will be provided on the inside of the C3 door, opposite of the backboards when the door is closed. The bottom bracket will be 10" wide. There will be three straps installed on the door to secure the item to the door.
MCF-RDR-13	**Inside / Outside access** is provided in the area forward of the divider and above stair chair mounting location.
MCF-RDR-13	**A1 and A2, Rear Entry Doors, with Defrost** Two (2) rear entry doors for patient compartment access, each with its individual exterior door handle. Includes frameless flush-mounted tinted windows **and defrost feature.** - Demers specific flush mounted windows that *do not leak salt* - **Lock / Unlock door** switch installed on right rear entry door - Liquid Spring override switch installed on right rear entry door - Emergency release latches installed on top and bottom door latch
MCF-SS1-11	**S1 Door, Main Oxygen Exterior Compartment** First door on street side (S1) for main vertical oxygen cylinder.

Tethered oxygen bottle wrench installed on wall of compartment.

Coat Pole in the upper portion of the cabinet

MCF-SS2-15   **S2 Door, Storage Exterior Comp**
Second door on street side (S2) for equipment storage.

MCF-SS2-16   **S2 Adjustable Shelf**
One (1) adjustable shelf in S2 compartment.

MCF-ELE-11   **E Door, Electrical Exterior Compartment**
Upper door (E) for electrical panel access.

MCF-SS3-12   **S3 Compartment, Equipment Storage**
Third door on street side (S3) for equipment storage. The door and compartment will be ¾ height of the body.

The upper portion will be half depth with outside only access.

MCF-SS3-13   **S3 Shelving**
Two (2) full-depth, adjustable shelves in the lower full depth portion of the S3 compartment.

Two (2) half-depth, adjustable shelves in the upper half depth portion of the S3 compartment.

MCF-CML-12   **High-Intensity LED Compartment Lighting**
High-intensity LED lighting installed in all exterior compartment

LED light to illuminate Side entry doorsteps

DOT & Other Lighting

Item Number	Name/Description
LGT-FSL-14	**Turn Signal Arrows, Amber (2), LED** Two (2) amber turn-signal arrows, installed on the **front of the module**. Whelen M9 series (9 x 7) LED lights.
LGT-LSL-14	**Turn Signal Lights, Amber (2), LED** Two (2) amber turn-signal lights **over the rear wheels**. Whelen M7 series (7 x 3) LED lights.
LGT-RSL-23	**Rear Step Plate: Turn Signal Light, Brake, Reverse** Two (2) LED red brake Two (2) LED amber turn lights Two (2) LED white reverse lights - installed in rear step plate, Round LED lights.
LGT-TPL-11	**Marker Lights, Amber (7) and Red (7), LED** Seven (7) front upper center and corner amber LED marker lights. Seven (7) rear upper center and corner red LED marker lights.
LGT-TPL-12	**Marker Lights, Two (2) rear mid-height red LED** Two (2) rear mid-height red LED marker lights.

LGT-UVL-11   **Ground Lighting, LED**
LED Ground lighting underneath the module.

SPC-FOG-01   **Fog Lights, Pre-wire**
Pre-wire for future fog lights: switch in console with wiring routed to and tied up behind center of front bumper. The dealer will supply and install the fog lights.
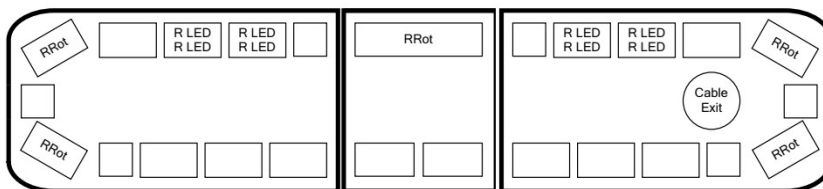
Emergency Warning Lighting	
Item Number	*Name/Description*
EWL-ACC-15	**Dimmer switch for Emergency lights** Dimmer switch for emergency lights.

EWL-BEZ-11   **Chrome bezels**
Chrome bezels on all warning and DOT lighting

EWL-BEZ-11   **Whelen M-Series Upgrade – Lifetime Warranty**
All the warning lights will be Whelen M-series. M-series lights installed by and OEM builder will have a <mark>**LIFETIME Warranty**</mark>.

EWL-FWD-20   **Emergency Lights, Red, White, Red, LED**
Three (3) emergency lights installed on the front of the module; includes two (2) red and one (1) white. **Whelen M9** series (10 x 6) LED lights.
- Lights will be red-white-red

EWL-SPC-01   **Lightbar, Cab Roof, Whelen Freedom**
A Whelen Freedom IV 55" wide light bar with clear lenses will be provided on the chassis cab roof.

There will be (5) Roto-Beam red LED modules; the four corners and the front center.

There will be (4) 400 long linear red LED modules; two left side, and two right side.

EWL-GRL-19   **Lights in Front Grill Guard**
Two (2) Whelen TCRWX2, TRACER DUO 2-POD warning lights will be supplied and installed on the HERD bumper/grill guard.

The lights will be Dual Color red and white and are programable with special flash patterns.

The red and white lights will alternately flash when the Primary switch is active.

The red lights will flash when the Secondary switch is active.

Both lights will be connected to the Dimming feature.

The dealer will supply and install the lights after the HERD guard is installed.

EWL-ITC-14   **Intersection Lights, Sides of HERD Bumper**
Two (2) red intersection lights will be installed on the sides of the HERD bumper. **Whelen M6** series (7 x 3) red LED lights.

The dealer will supply and install the lights after the HERD guard is installed.

EWL-ITC-14   **Intersection Lights, Chassis Fenders**
Two (2) white/red intersection lights on the chassis fenders with turning priority. **Whelen M7** series (7 x 3) LED lights.

EWL-LTI-12   **Emergency Lights, Over the rear wheels**
Two (2) white/red emergency lights will be installed over the rear wheels. **Whelen M7 series (7 x 3) LED lights.**

EWL-LTS-18   **Four (4) red LED Upper Side Body emergency lights**
Four (4) red lateral emergency lights (two (2) on each side) on the upper outer body corners. Whelen M9 series (10 x 6) LED lights.

EWL-LTS-20   **Scene Lights, Four (4), Clear LED, (M9)**
Four (4) lateral LED scene lights (two (2) on each side) on the upper outer body corners inside the emergency lights. Whelen M9 series (10 x 6) **LED scene lights**.

EWL-SPC-LTS   **LED side lower emergency lights**
Eight (8) lateral emergency lights (four (4) on each side). **Whelen ION T-series** series LED lights with chrome flanges installed above the rub rail on the body; two forward and two rear of the rear wheels. Lights will be red / white / red / white.

EWL-RER-17   **Emergency Lights, Red (3), LED**
Two (2) red rear emergency lights at upper rear corners. **Whelen M9** series (10 x 6) LED lights.

One (1) red rear emergency light at upper center. **Whelen M6** series (6 x 4) LED lights.

- **Brake override feature** installed on upper outer lights. Light will activate with rear brake lights in addition to warning lights

EWL-RER-18   **Emergency Lights, Amber (2), LED**
Two (2) rear upper amber lights above the rear doors. **Whelen M6** series (6 x 4) LED lights.

EWL-RER-19   **Loading Lights, Two (2), LED**
Two (2) rear loading lights. **Whelen M6** series (6 x 4) **LED lights**.

EWL-RER-20   **Emergency Lights, Additional, Window Height**
Four (4) additional red lights at **window height;** two left side and two right side to illuminate thru the rear entry windows when the doors are open. **Whelen M9** series (10 x 6) LED lights.

EWL-INT-11   **Lights on Inside of Doors**
One LED red emergency light on each compartment and entry door inside panel. Total of eight (8) round LED lights.

Demers Ambulance USA Inc.
1170 Production Drive. Van Wert OH, 45891

Page 6 of 26

SPC-FLS-01   **Special Flash Pattern**
Signal Alert flash pattern when warning lights in Primary mode.

Standard flash pattern when warning lights in Secondary mode.

SPC-FLS-02   **Special Light Activation**
When the chassis is placed in reverse, the upper M9 warning lights rear of the rear wheels will activate.
- Left side upper rear M9
- Right side upper rear M9
- (2) rear facing upper outer M9

Audible Warning

Item Number	Name/Description
WRN-BUA-11	**Back-Up Alarm** Back up alarm (97dB) with override switch.
WRN-SIR-11	**Whelen 295HFSC9 Siren** Whelen model 295HFSC9 siren amplifier with 17 Scan-Lock™ siren tones. - **Dual tone siren with Removable microphone**
WRN-SPK-11	**Whelen SA315 Series Speakers** Two (2) Whelen SA315 series speakers is a compact speaker meeting SAE Class A requirement when paired with Whelen 100-watt siren amplifier.

Exterior Mechanical Features

Item Number	Name/Description
VFT-FUL-11	**Full Fuel & DEF at Delivery** Full tank of diesel fuel at delivery to your station. Full tank of DEF at delivery to your station.
VFT-MIR-11	**OEM exterior mirrors** Keep OEM exterior mirrors – Ford mirror are **Power and Heated**
VFT-MOP-11	**Module Rub Rails, Aluminum** Aluminum rub rails on module sides.
VFT-MOP-12	**Module Corner Protectors, Stainless-Steel** Stainless-steel protectors on module corners.
VFT-MOP-13	**Module Wheel Trims, Fiberglass** Formed fiberglass wheel trimming on module.
VFT-MOP-14	**Undercoating Protection** Undercoating protection for module and chassis.
VFT-MOP-15	**Rear Wheel Mud Guards** Mud guards on module for rear wheels.

Demers Ambulance USA Inc.
1170 Production Drive. Van Wert OH, 45891

Page 7 of 26

VFT-PLT-11   **License Plate with Light**
Surface mounted license plate location with LED light.

VFT-STP-11   **Cab Steps, Anti-Skid Material with Mud Guards**
Anti-skid **'Grip-Strut'** lateral steps. Includes mud guards for front wheels.

VFT-STP-12   **Rear Step Bumper, Retractable Center Section**
Anti-skid **'Grip-Strut'** rear retractable step. Diamond plate corner bumper. Rubber
bumperette.

VFT-STP-15   **Rear Tow Hooks**
Two (2) rear tow hooks will be installed in the rear kick plate below the rear entry doors.

Exterior Electrical Features

Item Number	Name/Description

CNV-ACC-13   **Valet Switch in Front Grille**
The **hidden door unlock switch** is located on the back of the front grille, on the driver's side
half portion of the grille. It allows unlocking all doors of the vehicle but cannot lock the
doors.

CNV-ACC-15   **Demers Fast Idle**
Demers fast idle is generated by the multiplex module, it allows fast charging of the
batteries by the engine when specific conditions are met.

CNV-CAM-17   <mark>360-Degree Full HD</mark> **Exterior Camera System**
360-degree Full HD camera system with top-down **'birds-eye' view** of the vehicle with integrated DVR.
The DVR uses SD cards for records. If no cards are installed, the system does not record.

There will be a color camera on the front, left side, right side, and rear that communicate to the 360-
camera system.

There will be a **patient area dome camera** with an **On/Off switch** on the cab console to activate the
camera to the monitor in the cab. This allows the driver to see the patient area more easily.

A **7" HD digital LCD monitor** will be installed in the cab in place of the rear-view mirror. The monitor
will provide a split screen.
- Left side will show the 'birds-eye' view of the vehicle
- Right side will show the camera active via the selected trigger

CNV-LCK-11   **Anti-Theft System**
The <mark>anti-theft</mark> allows to leave the vehicle with the keys with the engine running to keep the
vehicle at the ideal operating temperature. It protects against theft by running off the
engine if the vehicle moves.

CNV-LCK-12   **ECOSMART Anti-Idling System**
The <mark>ECOSMART Anti-Idling System</mark> automatically stops the engine and restarts the engine
of the vehicle in idling conditions. The ECOSMART Anti-Idling System is managed by the
Demers Electronic Multiplex System (DEMS).

CNV-LCK-SPC   **Keyless Push Button Unlock**
A keyless push button unless access pad will be installed on the rear of the ambulance to
the left of the rear entry doors. The key pad will unlock all the entrance doors when the
code is entered.

Paint & Graphics

Item Number	Name/Description	Custom?
DEC-PNT-11	**Tri-Star Urethane Paint**	

All exposed metal surfaces that are not plated or stainless steel shall be cleaned and prepared and shall be painted or coated. The paint or coating, including any primer, shall be applied in accordance with the manufacturer's recommendation. The paint used shall be from Tristar, a high built polyurethane surface over epoxy primer application using one (1) acid stabilizing treatment. This paint is preferred by the purchaser as it has a durable lifespan, is resilient to harsh climates and remains pliable even in its hardened state to prevent cracking and chipping from normal ambulance body torsion.

The paint process will consist of two (2) coats of primer and two (2) topcoats. The primer will be an epoxy/polyamide strontium chromate primer boasting excellent impact and chemical resistance designed specifically for the aerospace industry's high-performance requirements.

The base primer coat will need to pass the following tests, with testing documentation:

Impact Resistance: No flaking or cracking when subjected to 40-inch pounds direct impact or a 40-inch pounds reverse impact.

Hardness: Pencil Hardness 2H minimum.

Fuel Resistance: Withstands immersion of Jet Al Fuel for 14 days at ambient temperatures without showing any defects. After a 24-hour recovery period, the primer regains its pretest hardness.

Lubricating Oil Resistance: Withstands immersion in lubricating oil at 25º C for 14 days without showing any softening, blistering, or loss of adhesion.

Hydraulic Fluid Resistance: Withstands immersion in Skydrol hydraulic fluid without showing any defects for 30 days.

Salt Spray Resistance: With a scribed film at an angle of 6º, it exhibits no blistering, lifting of the primer, or substrate corrosion after exposure to 5% salt spray following ASTM B117 on treated aluminum substrate 3000 hours.

Water Resistance: No blistering or loss of adhesion after 14 hours immersion in distilled water at ambient temperature. Will regain its pretest hardness after a recovery period of 24 hours.

The manufacturer's paint facility shall be free of dust and contaminants that could have an adverse effect on the paint finish. The manufacturer's paint facility shall also be certified to apply the paint specified.

The aluminum structure shall be prepared by thoroughly washing the aluminum body with wax and grease remover, preferred product is PPG DX440.

The surfaces shall be sanded smooth. All sand and dust shall be removed with air when sanding is complete and rewashing with PPG DX-440.

Demers Ambulance USA Inc.
1170 Production Drive. Van Wert OH, 45891

Page 9 of 26

A pre-treatment shall be used for better adhesion. This pre-treatment is a phosphoric acid base, non-flammable and specifically designed for aluminum substrate. The process of using a non-flammable phosphoric acid involves removing any surface contaminants, then chemically preparing a clean surface. This process increases the overall surface area, promote adhesion, enhanced corrosion, and blister resistance.

A two (2) stage epoxy primer layering process shall be applied to the module and all painted components. This primer stage is critical to the adhesion of the paint and shall be necessary to the paint process. A 1.5 mil of Starproxy primer application shall be used. After adequate drying time, a second layer of the Starproxy primer shall be applied. When completed, the finished primer layer shall be two (2) layers thick and shall be sanded smooth to a surface grade of 9 or 10. If during the sanding process the primer is partially removed and the aluminum is no longer covered by the primer layer, a primer layer must be added in the exposed area. This application allows for superior adhesion to the module body.

The finish coat shall be applied and be allowed to dry for the paint manufacturers recommended amount of time. A second finish coat shall be applied. All imperfections shall be sanded; the finish shall be free of any runs, fisheyes, and other paint blemishes

- **5-year / 180,000-mile paint warranty – 100% coverage** for defects and corrosion for full five (5) years.

DEC-SPR-PT **Order chassis in Ford OEM White**
Ford will supply the chassis in Ford OEM white.

DEC-SPR-PT **Chassis Re-Paint**
The **Ford chassis will be re-painted Orange** to match the customers current ambulance. The paint code will be JP12:KL4 (product ID: ABP P1).

DEC-PNT-SPC **Body Paint**
Body will be painted to **match the orange paint for the chassis**. The paint code will be JP12:KL4 (product ID: ABP P1).

Premium Paint process: Two (2) coats of primer, two (2) coats of base coat, Sanding with fine sandpaper between coats, buff to high gloss finish after application of 2nd base coat

GRAPHICS **Graphics Allowance – Dealers Supplied**
A $ 10,000.00 graphics allowance is included in the pricing so the graphics match the previous ambulances.

Proof(s) will be provided and approved of the design before any graphics are installed.

Cab Features

Item Number	Name/Description
CAB-ACC-17	**Glove Storage in Cab OEM Door Panels, Loose Gloves** Glove storage compartment will be integrated into the OEM door panels for loose gloves, three glove sizes per cab door.
CAB-CON-11	**Floor-Mounted Console** Floor-mounted console in front cab for the front switch panel / touch screen, mounting the siren, mounting the mobile radio, map storage, and other items.

CAB-CTR-14   **Control Center with Rocker Switch Controls**
Control center with the **Siren control head** and **rocker switches** in front of the floor mounted console by the cab dash.

The air horn push button switch will be mounted in the upper left of the control panel, separate of the other switches.

CAB-CON-15   **Modular panels Rear of Upper Control Center**
Rear of the switch panel will be an easily adjustable modular panel system. The layout will be as follows:
- Arrow Stick control head (left mounted) with a small storage pocket (right mounted)
- A blank panel for the future installation of the customers mobile radio head
- Liquid spring control head
- (2) individual large cupholders
- Map storage bin(s)

CAB-CON-14   **Armrests, Driver and Passenger, Individual**
Individual driver and passenger-side armrests on sides of floor-mounted console.

CAB-LGT-11   **Cab headliner with Reading Lights, Red/Clear (2)**
Two (2) clear and red overhead LED reading lights.

Curbside Interior

Item Number	Name/Description

The overall cabinet structure shall consist of interlocking extrusions. Extruded framework shall provide the structural integrity of the cabinets as well as creating the individual cabinet sections. These extrusions shall be custom fit and CNC cut to form the cabinet configuration. All cabinet extrusions shall incorporate a rounded edge to give an aesthetically pleasing appearance as well as providing a smooth, safe surface for the crew member. Mitered box framed cabinetry will not be accepted as a mitered corner produces sharp edges and potential gaps. Each interlocking extrusion joint shall be attached by two (2) hex machine bolts into the extrusion via a tap and die holes. These fasteners shall lock the cabinet frame structure into place and shall prevent the cabinet sections from twisting. Cabinet inserts shall be placed on the lip of the extrusion and shall be fixed with an adhesive as well as mechanically fastened into position. This structure alone shall resist to the pull test, the structural integrity of the cabinetry is not reliant on the interior storage cavity.

All cabinets shall be easy to clean, impervious to soap, water, body fluids, and disinfectants and shall be mildew resistant.

The compartment and closure device of the doors must meet KKK-A-1822F Change Notice 10 compliant to meet: SAE J3058 - Ambulance Interior Storage Compartment Integrity. The SAE J3058 explains dynamic and static testing procedures for evaluating the integrity of the cabinet and cabinet latch integrity standard, which will ensure cabinets retain rated equipment up to 40 lbs.

CRB-NET-11   **Safety Net**
Safety net at the head of the curbside configuration, by the side entry door (C2).

CRB-TEC-11   **Squad Bench, 2-person**
Full-length, thermoformed, molded seat cushion on top of the squad bench, hinged at the rear to access storage under the bench

12vdc power and ground pre-wire will be installed inside the squad bench for future use.

CRB-SPC-02   **Second patient securement**
Three (3) seat belts will be installed that match up to the seat belts on the rear of the seat cushion to secure a second patient on a backboard to the squad bench.

CRB-TEC-14   **Seat Backrest**
Full length backrest above the full-length seat cushion.

CRB-TEC-18   **Seating, Three (3) Passengers**
Seating for three (3) passengers on the squad bench.

FCT-RGT-18   ==Drop-In Sharps and Trash Container==
A drop in large trash container and sharps container will be installed at the head of the squad bench. A sliding door will be installed above to enclose the containers when not needed.

The squad bench will need to be opened to access the containers to remove them.

FCT-SPC-03   **O2 Bottle storage, head of squad bench**
Storage for two (2) 'D' size portable oxygen bottles will be installed at the head end of the squad bench facing the side entry doorsteps. A hinged door will be provided over the storage.

FCT-SPC-04   **Storage cabinet above the squad bench**
A **Large storage cabinet** will be installed above the squad bench. The cabinet will have a center divider with one adjustable shelf on each side of the divider.
- Each shelf will have (5) adjustable Lexan dividers installed.
- Five (5) adjustable Lexan dividers will be installed on the floor of each cabinet.
- Each cabinet will have dual sliding Lexan doors.
- LED lighting will be provided

FCT-RGT-26   ==(2) Slide Out Drawers Recessed into C3==
Two (2) slide out drawers will be installed above the squad bench and will slide open toward the squad bench. The drawers will be recessed into the C3 exterior compartment above the stair chair mounting location. The drawers will be enclosed in the C3 compartment.

FCT-RGT-26   **In/Out to C3 Backboard Compartment**
Inside / Outside access is provided in the area forward of the divider and above stair chair mounting location.

FCT-SPC-05   **Glove storage – Shipped Loose**
A two box stainless steel glove storage will be shipped loose for the dealer to install.

Street Side Interior	
Item Number	*Name/Description*
	The overall cabinet structure shall consist of interlocking extrusions. Extruded framework shall provide the structural integrity of the cabinets as well as creating the individual cabinet sections. These extrusions shall be custom fit and CNC cut to form the cabinet configuration. All cabinet extrusions shall incorporate a rounded edge to give an

aesthetically pleasing appearance as well as providing a smooth, safe surface for the crew member. Mitered box framed cabinetry will not be accepted as a mitered corner produces sharp edges and potential gaps. Each interlocking extrusion joint shall be attached by two (2) hex machine bolts into the extrusion via a tap and die holes. These fasteners shall lock the cabinet frame structure into place and shall prevent the cabinet sections from twisting. Cabinet inserts shall be placed on the lip of the extrusion and shall be fixed with an adhesive as well as mechanically fastened into position. This structure alone shall resist to the pull test, the structural integrity of the cabinetry is not reliant on the interior storage cavity.

All cabinets shall be easy to clean, impervious to soap, water, body fluids, and disinfectants and shall be mildew resistant.

The compartment and closure device of the doors must meet KKK-A-1822F Change Notice 10 compliant to meet: SAE J3058 - Ambulance Interior Storage Compartment Integrity. The SAE J3058 explains dynamic and static testing procedures for evaluating the integrity of the cabinet and cabinet latch integrity standard, which will ensure cabinets retain rated equipment up to 40 lbs.

STR-ACS-01   **Primary action area**
A Premium 'Corian' style counter with a 1.0" lip shall be installed on top of the primary action counter.

One (1) oxygen outlet shall be installed above the counter.

A manual bypass valve / oxygen override switch shall be installed next to the oxygen outlets.

A manual suction regulator shall be installed above the counter with a Rico suction container will be provided.

An angled black panel will be installed below the upper cabinet with a **rocker switch controls** for the dome lights, suction, cabinet lighting, action area light, the inverter control panel, and other functions to duplicate the curbside touch screen controls.

STR-SPC-01   **Cabinet above the counter**
A storage cabinet will be installed above the forward portion of the counter below the upper cabinet. A single hinged door will be provided on the cabinet.
- **SPECIAL NOTE:** Special height cabinet, 22.00" tall x standard width and standard dept

STR-ACS-25   **Storage cabinet below action area**
Storage cabinet below action area with sliding windows.

Adjustable dividers will be installed on the adjustable shelf in the cabinet for storing equipment.

STR-SPC-02   **Radio Speakers with controls**
Two (2) radio speakers will be installed in the patient area ceiling. A radio volume control will be installed on the street side switch panel area.
- **SPECIAL NOTE:** Radio volume control will be installed on the back wall above the ECC counter in place of standard to make room for the customer to install (2) mobile radios

STR-ACS-23   **Cabinet above main counter**
A large storage cabinet shall be installed above the street side forward primary counter with two sliding doors.
- One (1) adjustable shelf shall be installed.
- **Five (5) adjustable dividers** shall be installed on the floor of the cabinet.
- **Five (5) adjustable dividers** shall be installed on the shelf.
- **LED strip lighting** shall be installed.

Restocking Feature: A piano style hinge shall be securely fastened to the top of the cabinet structure. Two (2) gas struts, one (1) on each side, shall be installed on the side of the cabinet to lift the cabinet's face when the two elbow latches are released. The bottom lip of the cavity shall have a door stopper on which a pvc coating is applied to eliminate vibrations of the flip up.

The compartment and closure device of the doors must meet KKK-A-1822F Change Notice 10 compliant to meet: SAE J3058 - Ambulance Interior Storage Compartment Integrity. The SAE J3058 explains dynamic and static testing procedures for evaluating the integrity of the cabinet and cabinet latch integrity standard, which will ensure cabinets retain rated equipment up to 40lbs.

STR-SPC-03   **Suction Recessed Under the main Counter**
The Bemis 1200cc container will be recessed under the primary counter next to the CPR seat. Tubing will be routed to the suction control installed above the main counter.

STR-SPC-04   **Storage cabinet under ECC counter**
A storage cabinet will be installed under the primary counter forward of the recessed suction. The cabinet will have sliding doors with **LED lighting**.

STR-REA-11   **CPR Seat**
Seating for one EMT with a 2-point seat belt will be provided as a CPR seat.

STR-SPC-05   **Storage cabinet above CPR seat**
A storage cabinet will be installed above the CPR seat. The cabinet will have a single hinged swing up door with **LED lighting**.

STR-MED-10   **Rear Counter**
A second action area rear of the CPR seat will be installed.

Premium Corian style counter with No Lip installed.

STR-SPC-06   **Two (2) slide out drawers under rear counter**
Two (2) slide out drawers will be installed under the counter rear of the CPR seat; stacked one above the other.

STR-CRD-14   **Technimount Cardiac Monitor Base**
Technimount cardiac universal monitor base only mounted on counter rear of CPR seat

STR-MED-11   **Upper rear interior storage cabinet**
A large storage cabinet shall be in the upper section towards the rear with two (2) sliding doors. This cabinet shall extend from the CPR seat to rear door area.
- One (1) adjustable shelf shall be installed.

- **Five (5) adjustable dividers** shall be installed on the floor of the cabinet.
- **Five (5) adjustable dividers** shall be installed on the shelf.
- **LED strip lighting** shall be installed.

Restocking Feature: A piano style hinge shall be securely fastened to the top of the cabinet structure. Two (2) gas struts, one (1) on each side, shall be installed on the side of the cabinet to lift the cabinet's face when the two elbow latches are released. The bottom lip of the cavity shall have a door stopper on which a pvc coating is applied to eliminate vibrations of the flip up.

The compartment and closure device of the doors must meet KKK-A-1822F Change Notice 10 compliant to meet: SAE J3058 - Ambulance Interior Storage Compartment Integrity. The SAE J3058 explains dynamic and static testing procedures for evaluating the integrity of the cabinet and cabinet latch integrity standard, which will ensure cabinets retain rated equipment up to 40lbs.

Item Number	Name/Description
STR-MED-12	**Medical Cabinet, Rear Middle, Half Depth** A rear middle medical cabinet rear of counter rearward of the CPR seat will be installed. Polycarbonate tinted self-latching sliding windows will be installed. The cabinet will have approximately 8.0" deep and will be opposite the half depth exterior portion of the S3 compartment.
STR-SPC-07	**Recessed glove storage by rear doors** Recessed storage for three glove boxes will be installed by the rear entry doors.

Front Wall

Item Number	Name/Description
FWB-DIV-11	**Sliding Door Crawl-Through** Crawl-through with sliding door on front division to access to the cab. Opening will be approximately 20" wide x the height of the cab to the floor of the patient area.
FWB-LFT-11	**Corner Cabinet, Streetside, Two Adjustable Shelves** Corner cabinet on streetside of front wall. Includes two (2) hinged aluminum extruded doors with see through windows - **Two (2) adjustable shelves** - **LED strip lighting** installed.
FWB-LFT-14	**Locking Radio Communication Compartment** Lockable storage area on the front bulkhead wall above the pass thru door for installation of radio communication or other equipment shall be provided. The storage area will have a hinged drop down door.
FWB-RGT-11	**Compartment above ALS Cabinet** A storage cabinet will be located above the front wall ALS cabinet. A hinged swing up door will be installed on the cabinet.
FWB-RGT-12	**ALS Cabinet – In/Out to exterior C1 door** The **ALS cabinet** shall be made of an aluminum structure with smooth powder coated aluminum cavities and shelves.

The middle section shall be accessed via a rollup door. The mechanism is protected by an aluminum cover on the inside of the door.
- One (1) adjustable shelf, upper
- One (1) fixed shelf, lower
- One (1) adjustable shelf, lower
- **LED strip lighting** installed.

A slide out drawer will be installed in the lowest portion of the ALS cabinet just above the floor. The drawer will be full width x 7.5" high x 20" deep.

Rear Facing Attendant Seat

Item Number	Name/Description
AST-BSE-12	**Attendant Seat Swivel Seat Base, Two (2) Position** An E.V.S. swivel 360 degrees seat base, locking in two (2) positions will be provided for the attendant seat.
AST-HRS-11	**E.V.S. Vac-Formed Seamless Seat with ICS** The attendant's seat includes an **integrated child safety seat** and **4-point one-click seat belt**.

Cot Securement

Item Number	Name/Description
COT-ANC-23	**Floor Plate & Pre-wire Power-LOAD - GEN 2 (NEW)** Stryker Power-Load floor plate. No cot fastener included. Include pre-wiring for charging feature. Default option for new Power-LOAD system from the field. The dealer will supply and install the cot mounting system. Please see 'Dealer Supplied Items' on the last page of the proposal.
COT-POS-11	**Center Floor-Mount Cot Configuration** Center floor mount cot configuration

Switch Panels

Item Number	Name/Description
CAR-CAB-11	**Rocker Switch Controls with LED Backlit Pictograms** Rocker switch controls with LED backlit pictograms will be installed in the cab on the console by the dash. • Primary / Secondary warning light switch • Left, Right, Rear scene light switches • Fog Light switch • Dimming switch • Other switches as necessary per selected options • Exhaust fan switch • Patient status indicator (green/yellow/red) with audible alarm • Soft touch panel with patient area thermostat controls
CAR-CTR-11	**Rocker Switch Controls with LED Backlit Pictograms** Rocker switch controls with LED backlit pictograms will be installed on the street side of the patient area that will control the patient area functions.

Demers Ambulance USA Inc.
1170 Production Drive. Van Wert OH, 45891

Page 16 of 26

- Left side LED dome light switch
- Right side LED dome light switch
- Cabinet light switch
- Counter light switch
- Exhaust fan switch
- Suction switch
- Soft touch panel with patient area thermostat controls
- Patient status controls (green/yellow/red)

CAR-AUX-12   **Rocker Switch Controls with LED Backlit Pictograms**
Rocker switch controls with LED backlit pictograms will be installed on the street side of the patient area that will control the patient area functions.
- Dome light switch
- Exhaust fan switch
- Soft touch panel with patient area thermostat controls

Oxygen System

Item Number	Name/Description
OXY-NTW-14	**Oxygen Outlets, Three (3)** Three (3) oxygen outlets: - One (1) in ECC primary counter area - One (1) on curbside above the squad bench cabinet - One (1) on the ceiling centered above the cot
OXY-OUT-11	**Oxygen Outlet, Quick-Connect** Quick-connect OHIO style oxygen outlet.
OXY-REG-12	**Oxygen Regulator, Manual, Sensor and Dig. Read-Out** Manual oxygen regulator on the oxygen bottle with digital pressure sensor and **digital read-out** visible on all three switch panel locations.
OXY-REG-13	**Oxygen Control Valve, Electronic, Manual By-Pass** **Electronic oxygen control valve** with manual by-pass.
OXY-SPR-12	**Universal Vertical Holder for Main Oxygen Cylinder** Universal vertical holder for types "K" or "M" main oxygen cylinder in S1 streetside exterior compartment.

Suction System

Item Number	Name/Description
SUC-LOC-11	**Suction System location under ECC** Main suction system is located in front streetside action area with the suction control above the main counter and the suction container recessed under the counter.
SUC-MOT-11	**Thomas high flow vacuum pump** Thomas high flow vacuum pump
SUC-OUT-11	**Vacuum outlet QD in action area** Vacuum outlet QD Puritan with yellow 5/16" hose 4 ft long

Demers Ambulance USA Inc.
1170 Production Drive. Van Wert OH, 45891

Page 17 of 26

SUC-REG-11   **Vacuum regulator with disposable canister**
Vacuum regulator with a Bemis 1200 cc disposable canister will be supplied.

SPC-SUC-XX   **Bemis 1200 Canister**
Bemis 1200 canister with KKK bracket in place of standard

Electrical System and Features	
Item Number	*Name/Description*

Multiplex Electronic Management System

A 12VDC electrical system shall be added in junction with the OEM system. They shall be isolated from each other, yet they still exchange data. This is achieved by using a multiplex system in combination with a CAN BUS connectivity between the two (2) systems. It reduces the number of wires in the harness, thus reduces the number of welds and connections. Using programmable solid-state devices allows for easy updating and customizing of the vehicle without needing to add relays or modify the wiring system, even at a later stage while the vehicle is in the field. Printed circuit board or, so called "hardwired" electrical systems shall not be acceptable.

The ambulance manufacturer shall have significant experience in installing multiplex and electrical systems. The purchaser is not interested in prototypical or logical systems that are untested or unproven by the ambulance manufacturer. The multiplex system specified here shall be fully developed, tested, in service for at least 15 years and shall be installed on at least 9000 units. Documentation of electrical systems installed, and in-service shall be provided at the purchaser's request.

Electronic Controller Units (ECU)

Multiplexing electrical system shall consist of solid-state electronic controller units mounted in the electrical control panel. Electronic controller units shall act as the central communications system for the entire electrical system. These electrical controller units shall command all electrical components installed by the ambulance manufacturer in the cab and in the patient compartment. Each electronic controller unit shall be self-diagnostic with easy-to-read LED. A CD of the programing and the electrical schematics as well as detailed printed schematics of all components and wiring shall be provided with the completed ambulance.

All Electronic controller units shall be sealed in a weatherproof exterior casing. The ECUs main control panel shall be coated in weather resistant from the factory. All electronic controller units shall be installed in electrical control panel compartment for centralized location.

Electronic controller units shall be programmed using already established automotive communication language. Electronic controller units shall be programmed to communicate and receive signals in the SAE J1939 protocol via the CAN BUS connection. This type of system is preferred to allow for future expansion and. No auxiliary printed circuit boards, circuit breakers or relays shall be needed in future expansion or to assist in the functionality of standard electrical components.

Serviceability

The ambulance multiplexing electrical system shall be designed to be maintained and serviced easily. In the unlikely event of an electrical problem, the ambulance's electrical system shall be able to be connected remotely to the Internet and shall be able to be

diagnosed or reprogrammed by a service technician at the ambulance manufacturer's main facility. This multiplex electrical system shall be proven to be virtually maintenance free. A failure (warranty) rate of less than 1% is required because this agency wishes to purchase an ambulance with the utmost reliability in service. Documentation of warranty claims relating to the electrical system shall be provided to the purchaser upon request.

Wiring
All wiring for the electrical systems shall be stranded copper or copper alloy conductors of a gauge rated to carry 125 percent of the maximum current for which the circuit is protected. Voltage drops in all wiring from the power source to the component shall not exceed 10 percent. All circuits shall be wired in conformance with SAE J1292, Automobile, Truck, Truck-Tractor, Trailer, and Motor Coach Wiring. None of the ambulances electrical wiring and components shall terminate or originate in the oxygen storage compartment except for the oxygen flow control solenoid, compartment light, and switch plunger or trigger device.

Wiring Harness
The ambulance wiring harnesses shall be a continuous run to each electrical component. The ambulance wiring shall contain no splices in the main wiring harness. The terminals on connectors of each end shall be machined crimped. Hand crimped electrical connectors are not permitted by the purchaser as they have been proven to be prone to premature failure and/or irregularities.

All ambulance wiring harnesses shall be enclosed in a plastic loom. This loom shall run from the electronic controller units to each specified electrical component. Instances where conduit must travel through a tube structure, a rubber grommet shall be placed in the hole to prevent premature wear of the plastic loom and/or wiring. All wiring harnesses shall be secured to the roof and walls tube structures with insulated clamping fasteners.

The overall covering of jacketed cables shall be moisture resistant and have a minimum continuous temperature rating of 194°F (90°C), except for cable installations where the wiring may be exposed to higher temperatures. All wiring connections and terminations shall use a method that provides a positive standard connection. Wiring connections and terminations shall be installed in accordance with the device manufacturer's instructions. Wire nut, insulation displacement, and insulation piercing connections shall not be used.

All connections to the electrical components shall include a minimum 6 in. service loop of. All wiring connections shall utilize easy plug-in style connectors.

Wiring Identification
All wiring shall be identified f every 6" at a minimum. The wiring identification code shall be the position on the electronic controller unit for easy maintenance and diagnosis. Wiring identification shall be clearly visible and shall be printed on the insulated wire. No stickers will be allowed.

Circuit Protection
Circuits shall be provided with properly rated low voltage overcurrent protective devices. Such devices shall be readily accessible and protected against heat more than the overcurrent device's design range, mechanical damage, and water spray. Circuit protection shall be accomplished by utilizing fuses, circuit breakers, fusible links, or solid-state equivalent devices.

Wiring Schematics
The complete set of wiring schematics shall clearly identify all wiring locations, routing, and component connection. A sample document shall be available to the purchaser on request to examine the quality of the electrical schematic. All instances of wiring not conforming to the standards established in this document shall be documented at the time of the proposal. Failure to comply with this requirement shall be cause for rejection of the proposal.

Electric Panel
The electrical panel shall be protected by a removable panel or a compartment door. It shall include in addition to the ECUs all block fuses and other electronic devices.

For future upgradability, one (1) extra 15-amp 12VDC circuit breaker shall be provided. It shall be wired and shall be ready for a future programmable function with the multiplexing electrical system.

Grounding
Dedicated grounding locations for all appliances, circuits, etc. shall be supplied. Appliance mounting screws/hardware shall not be used for grounding purposes, nor shall the body of the ambulance be used as a ground location. Star washers or unapproved, untested grounding methods shall not be used.

OEM grounds shall not be used as grounding location for the conversion circuits.

Switching Requirements
Switches, relays, terminals, and connectors shall have a direct current (dc) rating of 125 percent of maximum current for which the circuit is protected.

Voltage Alarm
The multiplex system shall incorporate an audible voltage warning should the system voltage at the battery or at the master load disconnect switch drops below 11.8VDC for a duration of 120 seconds for 12VDC nominal systems.

Load Management
The multiplexing electrical system shall be programmed to automatically shed electrical load should the electrical output rating of the installed alternator drop below a programmed voltage level. Electrical components shall shed in order of priority. External load management systems or load management systems not programmable shall not be considered as the purchaser requires this electrical system to be customizable.

5-year / 180,000-mile electrical warranty, 100% coverage

ELE-GES-11   **Remote Diagnostics Cable**
A remote diagnostics cable is included to assist with remote troubleshooting issues.

ELE-ALT-14   **Super Auto Eject Power Inlet, 20 Amps, Yellow**
Kussmaul 120 Volts AC, 20 Amps Automatically disconnects shoreline
- Red cover
- **Green indicator light**

ELE-ALT-11   **Power Inverter, Xantrex Freedom, True Sine**
A Xantrex Freedom CX power inverter rated for 2000 watts shall be installed in the patient

compartment, behind the streetside cabinetry, in a ventilated storage area. The inverter shall be powered via a control panel in the rear attendant console. When this inverter is activated, all 110VAC outlets shall be energized.

An inverter **integrated battery charger** shall be provided for maintaining, in conjunction with the multiplex isolator and the shoreline, OEM and conversion batteries in a fully charged condition when the shoreline is plugged.

ELE-CON-13   **AC Delco Conversion Batteries**
Two (2) AC Delco batteries shall be installed *in addition to* the two OEM batteries. The OEM batteries shall not be relocated from their original positions while the additional conversion batteries shall be in a ventilated slide out drawer under the ALS compartment.

A programmable multiplex battery isolator shall be installed to separate the chassis batteries from the patient compartment batteries. It shall monitor battery voltage and allow for OEM battery boost by the conversion batteries and full OEM battery charging via the shoreline. The different voltage limits will be programmable. A system comprised of an isolator, boost solenoid and trickle charger shall not be acceptable as this requires more components, cables, and connections.

NOTE: two (2) Ford OEM Motorcraft batteries will be installed under the hood of the chassis and will be dedicated to the chassis system for starting and chassis functions.

- Four (4) total batteries to be installed.

ELE-CON-14   **12vdc Electrical Outlets**
12VDC power point outlets specified here shall be properly tested and shall be protected with a **Schottky-style diode to isolate** the medical equipment batteries from other loads. The diode shall be in the electrical panel and shall be wired to the conversion batteries. It shall be designed to handle voltage of at least 48VDC. All wiring to the 12VDC outlets shall be clearly labeled and shall be one (1) continuous run from the diode to the outlet. The locations shall be:
- One above the primary action counter
- One in the cabinet at the head of the action counter, centered
- One in the cabinet under the action counter, top left corner
- One above the counter rear of the CPR seat
- One in the upper ALS cabinet

ELE-CON-18   **Dual USB DC outlet with indicator**
Dual USB outlet with blue indicator lights will be installed as follows:
- One (1) street side above ECC counter
- One in the cabinet at the head of the action counter, upper
- Two (2) on the cab console

ELE-ALT-21   **120vac Electrical Outlets with Indicator**
120VAC outlets shall be energized from the shoreline and/or from the inverter. All 120VAC outlets shall be UL certified, Nema 5-15, clearly identified on the unit, rated to 60Hz and have a pilot light when powered.

A 120VAC GFCI shall be installed beyond the shoreline and shall disable all 110VAC outlets when tripped. The GFCI shall be in the rear attendant console for ease of consulting and/or resetting if needed.

120VAC outlets shall be energized from the shoreline and/or from the inverter if equipped. All 120VAC outlets shall be UL certified, Nema 5-15, clearly identified on the unit, rated to 60Hz and have a pilot light when powered. The outlet locations shall be:
- One street side above the primary action counter, head end
- One street side above the primary action counter, by CPR seat
- One in the cabinet at the head of the action counter, lower
- One in the cabinet under the action counter, top left corner
- One street side above the second action small counter
- One curbside above the counter at the head of the squad bench
- One curbside above the counter at the rear of the squad bench
- One in the front bulkhead angled cabinet, centered
- One in the upper ALS cabinet
- One in the lower ALS cabinet
- One in the cabinet above the ALS cabinet

Radio Pre-Wire & Misc. Feature

Item Number	Name/Description
COM-RAD-14	**Radio Communications Compartment** A ventilated radio compartment above the cab to body walk-thru with a hinged door should be easily accessible. It shall contain a universal board, Bussmann blade-type fuse panels, and harness. (12V battery feed, ground, ignition).
COM-RAD-15	**Radio Communications Front Console** The front console in the driver's compartment shall have a universal board, Bussmann blade-type fuse panels, and harness for radio communication systems It shall contain a universal board, Bussmann blade-type fuse panels, and harness. (12V battery feed, ground, ignition).
COM-REC-11	**Data Recorder Available Signals** Data recorder available signals through a universal connector in the electrical compartment.

Air Conditioning, Heating, Exhaust Vent, Other

Item Number	Name/Description
CVC-CLD-11	**OEM Tie-In Air Conditioning Unit System** The air conditioning unit shall be tie-in to the OEM air conditioning system, cooling the air of the patient compartment through the ducted outlets. The Hoseline evaporator unit shall have a capacity of 580 CFM and cooling capacity of 30,000 BTU. The evaporator shall be installed in the patient compartment above the oxygen compartment. An AC high-capacity filter-drier shall be installed to the inlet of the evaporator to prevent debris and moisture in the system. It shall be accessible by removing the partition ceiling protector. **Five (5) round adjustable vents** installed at the ceiling with manual closures are installed above the street side cabinet in a padded diffuser and shall project at a downward angle toward the patient and crew. Cold air runs from the front evaporator to the vents through a one-piece angled duct to maximize and regulate air flow. It is made of a lightweight material and insulated with high performance insulation to reduce thermal transfers and condensation.

- **Cold air blows out evenly throughout patient area evenly and efficiently cooling the entire patient area**

The patient compartment HVAC system shall be controlled by the driver cab console or the patient compartment, both sides, via the multiplex touch pad or touch screen. The patient compartment temperature shall be monitored by a thermostat incorporated in the multiplexing electrical system.

Additional to the three (3) preprogramed speeds, an automatic mode shall be able to decide between heating, cooling, and fan speed in function of the set temperature versus the patient compartment temperature.

To achieve maximum efficiency and optimization of this system, the fans' speed shall be optimized via **Pulse Width Modulation** (PWM) to allow the heating and cooling system to run at its most effective speed. Adequate room for hose connections and hose lines shall be provided when installing HVAC components. The hoses shall be protected and insulated to optimize performance and longevity. They shall also be clamped every 18" with high strength clips and routed without sharp bends and kinks.

CVC-HOT-11 **Heating Unit**
The heating unit shall be installed in the patient compartment in a location behind the street side cabinet, in the wheel well area. The heated air shall blow from below the side wall and just above the roll up floor in a cabinet full length aluminum vent. This ventilation system shall blow heat below the patient immediately and circulate upward, also creating a radiator effect as the heated air warms the side wall. The interior ducting shall be designed such that debris or liquids cannot enter vent.

CVC-VNT-13 **Exhaust Fans (2)**
Two (2) exhaust fans for contaminated air. Activated by front control interface or rear console switch.

The system must be able to circulate clean air into the patient area in 100 seconds or less.

CVC-VNT-15 **UV Air Sterilization System**
The INTERCEPTOR's UVC Germicidal process will destroy airborne pathogens that technicians, drivers, patients and passengers come into contact with. To be installed inside module.

Dome Lights	
Item Number	*Name/Description*
ILG-PLF-11	**LED Dome Lights, Adjustable, Dig. Timer** The ceiling lights have four (4) different intensities: Low, Med-Low, Med-High, High. Each time the ceiling lights button is pushed, the intensity increases, until maximum intensity is reached. Check Out Timer: 5-minute, 10-minute, and 15-minute **'check out' timer** included on all three switch panels
ILG-GEN-12	**Blue LED strip lighting at floor level** Blue LED 12V lighting in aluminum channel on both sides of the module for floor lighting

Grab Handles

Item Number	Name/Description
GBR-COL-12	**Grab Bars Color, Yellow** Color of selected grab bars is Yellow.
GBR-DRS-11	**Rear Door-Mounted Grab Bars, 16" x 16"** Two (2) door-mounted grab bars, 16" x 16", inside of rear doors (A1 and A2).
GBR-DRS-12	**Curbside Door-Mounted Grab Bar, 12"** One (1) door-mounted grab bar, 12'' each, on the inside of the side entry door (C2).
GBR-EMB-11	**Embarking Grab Bars, 12"** Two (2) entry grab bars, 12" each, mounted inside the patient compartment. One (1) near the curbside entry door, and one (1) near the R2 rear entry door.
GBR-PLF-11	**Ceiling Grab Rails, 90", Two (2)** Two (2) ceiling-mounted grab rails, 90".

Flooring, Vinyl, Etc.

Item Number	Name/Description
FNS-FLR-11	**Lonseal, Lonplate II, Gun metal** Lonseal, Lonplate II, Gun Metal floor covering.
FNS-GRD-11	**Black Upholstery** Black vinyl upholstery for seat and padding covering.
FNS-GRD-15	**Safety Yellow Upholstery** Yellow vinyl upholstery for safety exit padding covering.
FNS-PLF-11	**Fiberglass Ceiling** Fiberglass ceiling in Patient Compartment.
FNS-STK-11	**General Vehicle Identification** Vehicle general labels identification.

Misc. Additional Features

Item Number	Name/Description
FCT-PLF-11	**Radio Speakers, Recessed, Two (2)** Two (2) recessed radio speakers. (Included)
FCT-PLF-13	**IV Hooks, Recessed in Ceiling, Flexible, Four (4)** Four (4) recessed flexible IV hooks in ceiling.
FCT-RWR-11	**Digital Clock, Driver and Step Indicator Lights** Digital clock recess mounted into the rear head pad. Clock is designed for road use. Clock is 12vdc direct wire to the ambulance electrical. - Rear step indicator light - Brake indicator light - Turn signal indicator light

Demers Ambulance USA Inc.
1170 Production Drive. Van Wert OH, 45891

Page 24 of 26

DEALER SUPPLIED ITEMS

- **(2) 5 lb. fire extinguishers with heavy duty vehicle mounting brackets**
  - Installed per customer direction

- **A HERD grill guard will be supplied and installed on the front of the chassis. The Ford OEM bumper will be shipped loose at delivery**
- **Grill Warning Lights:**
  - (2) Whelen TCRWX2 TRACER DUO 2 POD warning lights will be installed on the HERD bumper, one on the center upper rail and one on the center lower rail. Demers will have the wiring installed and routed.
- **Side of Bumper Warning Lights:**
  - Whelen M6RC red LED warning lights will be installed one on each side of the HERD bumper. Demers will have the wiring installed and routed.
- **Fog Lights, Amber LED**
  - Supply and install (1) amber LED center fog bar and (2) amber LED fog lights to the Demes pre-wire
- **Air Horn Kit:**
  - Supply and install dual Buell air horns thru or under the HERD bumper. The following will be installed:
    - (1) 10" Buell air horn
    - (1) 12" Buell air horn
    - (1) 2-gallon air tank
    - VIAIR compressor
    - Air manifold
    - Pressure switch
    - Cover to protect the compressor, manifold, pressure switch wiring inside an exterior compartment
    - Air lines to all necessary components
    - Momentary push button on top of the cab console
    - Air bleeder line with a fixed mounted pipe and pull cord to the bleeder valve

- **Install (2) customer supplied Streamlight hand lights in the S3 compartment**

- **Install a customer supplied Plymovent adapter on the chassis exhaust**

- **Technimount # 100-20-UN universal base** on the counter rear of the CPR seat

- **AeroClave ADP-PT connection port** installed on the right wall in exterior compartment S3. The misting nozzle will be installed in the head pad above the rear entry doors

- **(10) Code 3 Vito Via LED bacteria killing dome lights** in place of the lights installed at Demers

- **(2) NMO mounts with coaxial cables** for future installation of mobile radios

- **(1) Bowman double glove box holder**; location to determined

- **(1) Coat pole in street side exterior compartment S1**

- **Rosco DV440 XC4 windshield mount dual camera system**

- ➢ **Stryker MTS 6390, Power-LOAD cot loading system installed in the Demers supplied floor plates**
- ➢ **Stryker 6507 Power Pro 2 cot, high-level configuration**

- ➢ **Graphics to match the previous ambulance**

- ➢ **Delivery to your station in Dodgeville, Wisconsin**
- ➢ **Full tank of diesel fuel upon delivery**
- ➢ **Full tank of DEF upon delivery**

- ➢ **Orientation by the dealer**
- ➢ **Mobile Service by dealer with three mobile service vehicles**

Demers Ambulance USA Inc.
1170 Production Drive. Van Wert OH, 45891

Page 26 of 26