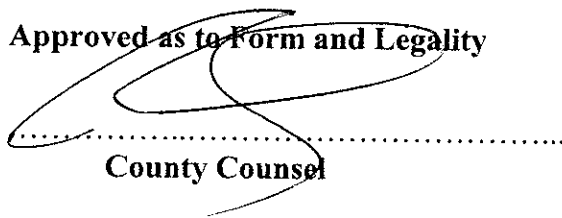


<b>CONTRACT AWARD</b>	
<b>CK09MERCER2019-10 ONE (1) 2019 OR NEWER FORD E-450 SHUTTLE BUS 12 AMBULATORY PASSENGERS PLUS 2 WHEELCHAIR OR 16 AMBULATORY OR EQUIVALENT FOR USE BY AIRPORT</b>	
<b>BID OPENING DATE : APRIL 10, 2019</b>	
<b>CONTRACT TERM: MAY 13, 2019 THROUGH MAY 12, 2021</b>	<b>RES. NO. 2019-290</b>
NAME OF RESPONDENT	ROHRER ENTERPRISES, INC.
ADDRESS	314 DICKINSON STREET
CITY, STATE, ZIP	TRENTON, NJ 08638
CONTACT	MATT FITTANTE
TELEPHONE	732 261 6643
FAX	
E-MAIL	<a href="mailto:MFITTANTE@ROHRERBUS.COM">MFITTANTE@ROHRERBUS.COM</a>
<b>UNIT COST FOR ONE (1) 2019 OR NEWER FORD E-450 SHUTTLE BUS 12 AMBULATORY PASSENGERS PLUS 2 WHEELCHAIR OR 16 AMBULATORY OR EQUIVALENT</b>	<b>\$ 71,870.00</b>
<b>MANUFACTURER</b>	<b>FORD</b>
<b>MODEL</b>	<b>E450 CHAMPION CHALLENGER</b>
<b>YEAR</b>	<b>2019</b>
<b>DELIVERY DATE</b>	<b>120 DAYS AFTER RECEIPT OF ORDER</b>
EXCEPTIONS	NONE
FATAL FLAW	NO

Approved as to Form and Legality

Date

  
 .....  
 County Counsel

June 13, 2019  
 .....

AWARD OF BID RECEIVED APRIL 10, 2019 TO ROHRER ENTERPRISES, INC. FOR ONE (1) 2019 OR NEWER FORD E-450 SHUTTLE BUS 12 AMBULATORY PASSENGERS PLUS 2 WHEELCHAIR OR 16 AMBULATORY FOR TRENTON MERCER AIRPORT AND THE MERCER COUNTY COOPERATIVE CONTRACT PURCHASING SYSTEM. PERIOD: MAY 13, 2019 THROUGH MAY 12, 2021. TOTAL AMOUNT NOT TO EXCEED \$71,870.00 (CK09MERCER2019-10)

WHEREAS, the Mercer County Purchasing Department has advertised for bids for one (1) 2019 or newer Ford E-450 Shuttle Bus 12 Ambulatory Passengers Plus 2 Wheelchair or 16 Ambulatory for use by the Trenton Mercer Airport and the Mercer County Cooperative Contract Purchasing System for a period of two (2) years, authorized by Resolution No. 2018-89, adopted February 8, 2018; and,

WHEREAS, two (2) sealed bids was received on April 10, 2019 in connection with the aforementioned procurement; and,

WHEREAS, the low bid received from Alliance Bus Group, Inc., 51 Kero Road, Carlstadt, NJ 07072, provided exceptions to the bid that the Department of Transportation and Infrastructure could not accept because they did not meet the specifications; and,

.....  
 Clerk to the Board

RECORD OF VOTE													
FREEHOLDER	Aye	Nay	N.V.	Abs.	Res.	Sec.	FREEHOLDER	Aye	Nay	N.V.	Abs.	Res.	Sec.
Cannon	X						Melker				X		
Colavita	X					✓	Walter	X					
Frisby	X						Cimino	X					
Koontz	X				✓								

X—Indicates Vote      Abs.—Absent      N.V.—Not Voting  
 Res.—Resolution Moved      Sec.—Resolution Seconded

-2-

WHEREAS, the bid received from Rohrer Enterprises, Inc., 314 Dickinson Street, Trenton, NJ 08638 met the specifications and shall be awarded for one (1) 2019 or newer Ford E-450 Shuttle Bus 12 Ambulatory Passengers Plus 2 Wheelchair or 16 Ambulatory for use by the Trenton Mercer Airport for the period of May 13, 2019 through May 12, 2021, in a total amount not to exceed \$71,870.00; and,

WHEREAS, the Chief Financial Officer of Mercer County has certified in writing the availability of funds for the purposes set forth in this Resolution, said certification is on file with the Clerk to the Board, now, therefore,

BE IT RESOLVED, that the County Executive and Clerk to the Board be and are hereby authorized to execute said contracts when presented in a form approved by County Counsel; and,

BE IT FURTHER RESOLVED, that the Clerk to the Board shall forward a copy of this Resolution to the Administrator of the Trenton - Mercer Airport and the Mercer County Purchasing Department for further distribution.

  
.....  
*Clerk to the Board*

**BID SPECIFICATIONS  
ONE (1) 2019 OR NEWER FORD E-450 SHUTTLE BUS  
12 AMBULATORY PASSENGERS PLUS 2 WHEELCHAIR OR 16 AMBULATORY  
FOR USE BY AIRPORT**

**CONTACT PERSON: MOTOR POOL -JODI HAWRYLUK (609) 530-7525**

**INTENT**

The County of Mercer requests bids for One (1) New 2019 Or Newer Ford E-450 Shuttle Bus 12 Ambulatory Passengers Plus 2 Wheelchair Or 16 Ambulatory or Equivalent. The County requests the bid price to be held for two years. Bids shall be for new, current year production equipment. Demonstrator, used or lessor model equipment will not be accepted. All references to brand name shall be interpreted as brand name or equivalent. All questions shall be directed to the Purchasing Department, 609 989 6710.

**EXCEPTIONS**

If bidding an equivalent manufacturer, provide the manufacturer's published literature and list all exceptions with descriptions of each exception.

A certificate of origin will be provided with the equipment upon delivery. Any questions regarding the bid must be directed to purchasing.

Upon delivery, vendors must provide set-up, operating training by an authorized manufacturer's representative and two sets of training manuals. All equipment shall include standard safety features.

As this is a cooperative bid, the awarded vendor(s) may provide the equipment herein bid upon to local governmental contracting units located within the County of Mercer without substitution or deviation from specifications, size, features, quality, price or availability as herein set forth. It is understood that orders will be placed directly by the contracting units, subject to the terms of the contract to be awarded by the County of Mercer, and that no additional service or delivery charges will be allowed. References to brand names shall be interpreted as brand or equivalent.

All equipment shall be delivered F.O.B destination with delivery charge included, within 90 days from receipt of purchase order. All equipment shall be delivered as stated above with to the **Mercer County Highway Division at 300 Scotch Road, West Trenton, NJ 08628.**

**WARRANTY**

The awarded vendor shall provide the warranty as stated in the specifications.

**AWARDED CONTRACTOR SHALL PROVIDE OPERATING TRAINING BY AN AUTHORIZED MANUFACTURER'S REPRESENTATIVE UPON DELIVERY OF EQUIPMENT. VENDORS MUST SPECIFY THE MANUFACTURER'S CUT-OFF DATE.**

**VENDOR WILL HOLD PRICING FIRM FOR ONE YEAR**

YES         NO     

**BID SPECIFICATIONS**

**ONE (1) 2019 OR NEWER FORD E-450 SHUTTLE BUS  
12 AMBULATORY PASSENGERS PLUS 2 WHEELCHAIR OR 16 AMBULATORY  
FOR USE BY AIRPORT**

**SCOPE**

These specifications define requirements for buses that shall have a minimum expected life of seven (7) years or 200,000 miles, and are intended for the widest possible spectrum of passengers, including children, adults, the elderly and people with disabilities.

This bus shall be a 2019 model year or newer Ford E-450 cutaway chassis with shuttle bus body built on the chassis by a single bus manufacturer. Passenger capacity of this vehicle in addition to the driver shall include 12 ambulatory passengers plus 2 wheelchair locations or 16 ambulatory passengers.

**Legal Requirements**

The Contractor shall comply with all applicable federal and state regulations. These shall include but not be limited to ADA, as well as state safety requirements.

Buses shall meet all applicable FMVSS regulations in effect at the date of manufacture.

Buses must be Altoona tested for the 7-years/200,000 miles category and an Executive summary shall be included with bid packet.

**Chassis**

The Ford E450 Shuttle Bus chassis with a GVWR of 14,500 pounds must include the following:

- 5,000 pound maximum front GAWR Twin I-Beam IFS; 9,600 pound maximum Dana Full Floating Rear Axle
- Engine shall be a 6.8l V-10 gas with 305 HP @ 4250 RPM/420lb-ft. torque @ 3250 RPM
- 6-speed automatic transmission
- Brake system to be power, self-adjusting, four wheel disc with four wheel anti-lock
- Single fuel tank with maximum capacity of 55-gallons, located aft-rear axle. The vehicle fuel tank must be installed by the chassis manufacturer; fully compliant with California Air Resources Board (CARB) standards and must not be modified in any way.
- Fuel Cap to be tethered to the body and enclosed in a housing with brushed stainless door.
- Chassis must be stretched to a minimum 190" wheelbase
- Exhaust system to be aluminized exhaust pipes and muffler properly installed with heat shield and baffles. Exhaust tail pipe shall exit to the street-side of the bus behind the rear wheels.
- 225-amp OEM alternator

- Dual batteries rated at 650 CCA minimum each. Both batteries to be located in a skirt mounted steel box with a stainless steel slide-out tray for ease of maintenance.
- A master disconnect switch shall be installed on the battery tray to turn off power to the body.
- (7) LT225/75Rx16E tires with 16.0x6, white steel wheels. Spare tire to be mounted on white steel wheel and shipped loose in the bus.
- Valve stem extensions shall be installed on both inner rear wheels for ease of inflation.
- A MorRyde rear suspension system shall be added to the OEM leaf suspension.
- A wide (12") running board shall be installed at the drivers' door for ease of entry.
- Mud flaps shall be installed behind both front wheels of the bus in addition to the rear mud flaps
- Rear tow hooks shall be supplied.

General Requirements and Dimensions:

- |    |                               |              |
|----|-------------------------------|--------------|
| a. | Overall Exterior Length:      | 313" Minimum |
| b. | Exterior Width:               | 95" Maximum  |
| c. | Exterior Height:              | 114" Maximum |
| d. | Interior Height at aisle:     | 78" Minimum  |
| e. | Interior Width at seat level: | 90" Maximum  |
| f. | Ground to first step:         | 11" Maximum  |
| g. | Step Riser Height:            | 9.5" Maximum |
| h. | Step Tread Depth:             | 9" Minimum   |
| i. | Aisle Width:                  | 30" Minimum  |

Comply: Yes \_\_\_\_\_ No \_\_\_\_\_

Exceptions: \_\_\_\_\_

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**MANUFACTURER CERTIFICATIONS**

The body manufacturer must be an ISO 9001:2008 certified company and have a Fully Meets rating in the Ford Quality Vehicle Manufacturer Program. Proof of compliance must be submitted with the bid.

Comply: Yes \_\_\_\_\_ No \_\_\_\_\_

Exceptions: \_\_\_\_\_

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**Body Structure**

The body must be constructed of minimum 16 gauge GatorShield™ Galvanized tubular steel cage body to ensure passenger safety. Minimum requirements include:

- Sidewalls shall be constructed of 1.5" x 1.5" 16-gauge GatorShield™ Galvanized tubular steel studs and corner costs on maximum 48" centers. A 14-gauge, 1-1/2" x 2" tubular horizontal stringer shall be welded to the top of the studs with a 16 gauge Z-rail welded to the studs at the bottom of the sidewall. Seat track shall be welded to the sidewall studs.
- The roof consists of 1.5" x 1.5" 16 gauge tubular steel rafters installed on maximum 48" centers. The rafters are welded into two (2) 16-gauge steel "U" shaped sidewall cap
- The rafters, in conjunction with "C" Channels, form a "steel cage" type of construction. The back wall has a 1.5" x 1.5" 16 gauge tubular steel frame, reinforced with 16-gauge "C" channel. A section of 16-gauge Z-channel shall be welded to the bottom of the back wall.
- The floor frame shall be constructed of 11-gauge, 2"x 2.88" x 2" channel cross members, on a maximum 34" center, with an outer 14-gauge angle steel impact rail. 11-gauge, 4" wide flat steel shall be provided to support the floor track. The body is to be bolted through the sub-floor structure to the chassis frame and utilize rubber isolating mount pads (long strips of rubber do not satisfy this requirement) and Grade 8, 7/16-14 UNC bolts torqued to 60-65 ft.-lbs. No part of the body is to be welded directly to the chassis frame structure. The sub floor shall be 3/4" marine grade plywood.
- The body shall be plumb, square and level before installation on the body.
- In order to ensure passenger safety in the event of skin delaminating, the body structure shall comply with FMVSS 220, School Bus Rollover Protection, when tested without the exterior or interior skin. Proof of compliance (test results based on body structure alone) shall be submitted with the bid.

Comply:      Yes\_\_\_\_\_      No\_\_\_\_\_

Exceptions:\_\_\_\_\_

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### **Corrosion Resistance**

In order to provide superior corrosion resistance, all tubular steel shall be galvanized, coated with a 99.9% pure zinc coating during the steel milling process. The steel shall have minimum 50 ksi strength and three layers of corrosion prevention coatings.

The body floor sub-frame assembly shall be primed to meet the 1,000-hour salt spray test per ASTM procedure B-117, with no structural detrimental effects to normally visible surfaces. The floor structure shall also be rated no less than five using the crosshatch adhesion test per ASTM D3359.

Certification of compliance with this requirement shall be published by an independent company and be submitted with the bid. Prior to shipment, the vehicle shall be undercoated.

Comply: Yes \_\_\_\_\_ No \_\_\_\_\_

Exceptions: \_\_\_\_\_

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### **Body EXTERIOR**

The roof shall consist of a one-piece composite material that is lightweight, extremely durable and impact resistant. The only roof seams that are allowed are at the junction of the roof skin and the front and rear cap. The exterior sidewall shall be constructed of a gel-coated product that is a durable semi-rigid fiberglass reinforced polyester resin (FRP). This gel-coated surface is highly scratch and abrasion resistant with excellent weathering characteristics and has been tested in a thermotron from -40 to 180 degrees Fahrenheit.

Exterior mirrors are to be Rosco heated and power remote controlled.

Large 2" rain gutters shall be provided over all windows and passenger entrance doors to prevent water flowing from the roof onto the passenger doors and driver's side window. A 2" gutter shall be mounted on the drivers' side of the front cap to shield run off from the drivers' door area. When the bus is decelerated, the gutters shall not drain onto the windshield, driver's side window or door boarding area. Cross-sections of the gutters shall be adequate for proper operation.

Flexible black fender skirts shall be provided at the rear wheel housings. Wheels and tires shall be removable with the fender skirts in place. Mud flaps are required behind the rear duals.

The OEM chassis chrome bumper shall be provided on the front of the bus. The rear bumper shall be a Romeo Rim or equivalent energy absorbing black bumper with minimum four (4) Intermotive Hawkeye backup proximity sensors integrated into the bumper. The proximity sensor shall also include a driver display to show the distance from objects behind the back bumper of the bus.

A rear emergency egress window equipped with two (2) release handles minimum shall be installed in the rear wall of the bus.

Comply: Yes \_\_\_\_\_ No \_\_\_\_\_

Exceptions: \_\_\_\_\_

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## Passenger Entry

The entry door shall be an outward opening, two-leaf type with an overlapping rubber seal at the meeting edges of the panels. The door shall be attached to the body with two heavy-duty steel pivot pins with nylon bushings. A heavy-duty bulb seal shall be installed at the top and hinged edge of the door. Each door panel shall have an 11-gauge aluminum frame and shall be glazed with a full-height AS2 glass panel. The door shall be electrically controlled by a switch located within reach of a seated driver. The door clear opening shall be a minimum of 36" wide by 80.5" high. The stepwell shall be a minimum of 40" wide to accommodate passengers carrying luggage onto the vehicle.

An exterior mounted key lock shall be installed beside the passenger entry door for driver operation to open and close the door with a key.

Driver's Door - The original chassis door, with a roll-up window, shall be supplied.

Comply: Yes\_\_\_\_\_ No\_\_\_\_\_

Exceptions:\_\_\_\_\_

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## ELECTRICAL Body Power Distribution Center

The body builder power distribution center must use connector plug in type or equivalent for easy removal or testing. It must be made of a heavy-duty type printed circuit card with all base components located on the front of the card including all interior light relays, master relay, master breaker and manual reset circuit breakers. It must include an 80 amp non-replaceable relay to minimize resistance for the ignition circuits including a 50-amp maxi fuse. All of the relays must be removable for replacement except the primary 80-amp relay and shall be +12v DC. All fuses shall be upgraded to manual reset circuit breakers for ease of operation. LED lights shall be included for troubleshooting. Red LED indicates a circuit breaker has blown while a green LED indicates the relay is good and a yellow LED to indicate a signal wire is active. All grounds must use a connector plug in type at the electrical center for common grounding location and can only use single wire termination for each ground wire by the use of a standard blade type fuse to commonize parts. These options will be marked as Jumpers and shall be considered low current. The card shall contain a single

common buzzer utilizing these jumpers. Fuses on the panel shall be upgraded to manual reset circuit breakers.

The power distribution center must include all major options to be adapted directly to the main card. These must be included on 3 distinct cards listed as stop request module, heater module and flasher module. All cards shall contain LED lights for troubleshooting. The cards below shall not use any harness or wires to connect to the main card. They shall use metal type standoffs to carry the circuit with screws.

- a. The heater module must have the ability to relay heaters with independent high and low speeds.
- b. The flasher module shall contain options for OEM lights or body builder added lights through the use of jumpers. Options will include lift door open, rear door open, entry door open and an auxiliary input to activate for additional requested options.

An electrical Legend shall be provided on the door of the electrical panel to assist in identifying circuits.

A complete body manufacturers As-Built Electrical Schematic of the bus body shall be included at delivery for future electrical troubleshooting.

Comply: Yes\_\_\_\_\_ No\_\_\_\_\_

Exceptions: \_\_\_\_\_  
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### **ELECTRICAL Body Wiring Harness**

General-purpose wiring shall be cross-linked polyolefin insulated and shall meet SAE standards J1127 & J1128 types SGX and GXL. Wires shall be stamped every 6" and stamping shall be opposite color of wire to allow easy reading (dark wire uses white ink, light wires use dark ink). Multiple colors are required for different circuits and can be done through solid colors or colors with stripes. One color harnesses are not allowed. All harnesses shall contain a protective barrier through the use of loom, grommets, wire ties and insulated clamps. Routing shall be used as to best protect the harness. Protective covering shall be rated for the area of routing. Temperature, liquids and chafing shall be considered. All connectors shall be plug in type and keyed connectors with locks meeting SAE automotive standards. Dielectric grease shall be used on all exterior connections. All primary harness connectors shall be color coded for ease of removal and assembly. The harness shall include all options available on the primary power distribution center and the use of add on modules. This allows multiple spare circuits. The harness shall be split into sections for easy replacement with one single harness for the rear, body and front of the vehicle. All connectors must be accessible.

The complete electrical system shall be installed, certified, tested and warranted by the system manufacturer.

Comply: Yes\_\_\_\_\_ No\_\_\_\_\_

Exceptions: \_\_\_\_\_  
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\_\_\_\_\_

### Electrical- Interior options

A switch panel shall be installed on the dashboard and within drivers reach containing all of the component switches that the driver is expected to operate (ie. Entry door, passenger air conditioning, passenger heater, dome lights, defrost fan, etc.)

An OEM Ford AM/FM/CD Radio including one (1) premium drivers' speaker and four (4) passenger compartment speakers shall be installed.

A defrost fan for the windshield shall be installed in front of the passenger entry door with a switch within the drivers reach.

A Rosco (Model #4730) back-up camera system shall be installed and include a high mounted camera on the backwall of the bus. The 7" monitor shall be integrated into the drivers' windshield mounted rear view mirror.

Comply: Yes\_\_\_\_\_ No\_\_\_\_\_

Exceptions: \_\_\_\_\_  
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\_\_\_\_\_

### Lighting

Exterior Lighting – All exterior lighting, with the exception of lighting supplied by the chassis manufacturer, shall be LED.

Exterior Body Lighting shall include the following as a minimum:

- a. OEM cab lights including headlights and turn signals
- b. Front cap shall include 5 amber marker lights
- c. Entry door exterior light
- d. Side marker and turn signal lights mounted mid-ship of the bus in skirt panels
- e. Light (4" round) mounted below the wheelchair lift doors to light platform area
- f. Rear side marker red lights

- g. Rear Cap to include 5 red marker lights at top of cap
- h. Pair of RED rear tail running/brake lights
- i. Pair of AMBER rear turn signal lights
- j. Pair of WHITE rear reverse lights
- k. High mounted RED center brake light
- l. Pair of additional red LED tail-lamps to be wired as independent function brake lights.

Interior Lighting – All interior lighting, with the exception of lighting supplied by the chassis manufacturer, shall be LED. The passenger compartment lighting shall be controlled by a switch located within the driver area.

Interior Body Lighting shall include the following as a minimum:

- m. Door actuated dome lights in the entrance area including (1) exterior light, (2) stepwell lights, and (1) ceiling mounted light above stepwell
- n. Door actuated dome lights in the passenger area to consist of a minimum of five (5) lights
- o. One (1) LED light mounted above the wheelchair lift area

Comply: Yes\_\_\_\_\_ No\_\_\_\_\_

Exceptions: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Flooring**

The step treads and step risers of each step must all be consistent for safe passenger entry and exit of the vehicle. The stepwell shall be constructed of a minimum 14-gauge steel with treads and risers covered in Gerflor material consistent with the passenger area.

The plywood floor shall be minimum 3/4" thick (minimum) marine grade treated plywood, mounted with Tek screws installed into the steel floor frame. All plywood edges should be sealed. The rear wheel housings shall be a minimum of 14-gauge steel.

Interior flooring shall have yellow step nosings and a passenger standee line integrated into the floor covering. "WATCH YOUR STEP" in yellow letters printed on the Gerflor material shall be installed on the top step riser.

Interior floor covering shall be Gerflor Anthracite Slip Resistant Flooring, a minimum of 2.25 mm, Seam-sealed and covered up the interior walls of the vehicle.

Comply: Yes\_\_\_\_\_ No\_\_\_\_\_

Exceptions: \_\_\_\_\_  
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### **Insulation**

Spray foam insulation in sides, rear, and roof shall be equal to an R-9.5 Thermo barrier and sound absorption.

Comply:    Yes\_\_\_\_\_    No\_\_\_\_\_

Exceptions: \_\_\_\_\_  
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### **Interior Panels & Finishes**

Coved flooring material will cover the interior wall panels up to the seat rails. H-rail and screws along the seams retain the ceiling panels. Trim molding covers the seams and fasteners.

Ceiling, transition and side panels shall provide a hard, vandal resistant, flame retardant surface consisting of vinyl clad luaun, a London smoke color to match the bus interior.

Front bulkhead and transition panel cover shall be light gray ABS plastic and/or a combination of a padded vinyl. A hinged locking door shall be incorporated into this bulkhead location to access a driver's storage box. This option will allow the driver to store personal items, cleaning supplies, etc. and keep the bus clear of passenger obstructions.

Comply:    Yes\_\_\_\_\_    No\_\_\_\_\_

Exceptions: \_\_\_\_\_  
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### **Stanchions and grab bars**

Yellow and textured (Dura Diamond) grab handles shall be placed at entrance area on the left side and on the right side parallel to the steps and a yellow handrail shall be mounted on the forward and rear leaf of the entrance doors. The right side (forward)

step handrail shall be fastened to the body at approximately the middle of the front bulkhead and the lower fastening point shall be approximately at the upper step. The single piece piping shall be curved to minimize encroachment into the path of the passengers as they board or disembark but be located so as to provide easy hand-hold access.

Two yellow and textured steel grab rails running the length of the vehicle shall be installed in the ceiling attached to roof bows for increased strength and safety.

A floor to ceiling stanchion and a wall to stanchion guardrail shall be located behind the driver's seat and behind the step well. All rails shall be yellow and textured. There shall be a padded vinyl covered color coordinated modesty panel attached to each of these assemblies.

A Plexiglas driver's shield shall be attached to stanchion /guardrail assembly behind driver's seat.

All piping, hangers, and hardware must be of transit grade quality, machine bended with smooth finished edges on the complete assemblies including fasteners.

Comply: Yes\_\_\_\_\_ No\_\_\_\_\_

Exceptions: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## **Seating**

Driver seat to be OEM Ford power seat and base finished with the OEM Ford cloth cover.

Passenger seats shall be Freedman Mid-High rigid type in a perimeter layout. There shall be seven (7) seats provided behind the entry door on the curbside wall of the bus facing the aisle. On the street side of the bus, there shall be a (42"x24"x58") luggage rack with shelves provided behind the driver. Following the luggage rack, there shall be five (5) Mid-High rigid seats mounted on the perimeter and be aisle facing.

At the rear street-side wall of the bus, there shall be two (2) 35" Freedman double handi-flip forward facing seats mounted to provide four (4) additional ambulatory seats for use when wheelchair positions are not used.

Passenger seat fabric shall be upgraded to include fourteen (16) Level 4 Freedman seat covers. Seat upholstery shall be D-90 Vinyl and color is to be "#117 Wine".

Passenger seats shall include Freedman under-seat retractable (USR) seatbelts for each fourteen (16) positions to avoid lose belts laying on the seats or hanging down to the floor and presenting a trip hazard.

Freedman US Arm black rubber coated flip-up armrests shall be included on each end and aisle seat for a total of five (5) on the end seats.

Comply: Yes\_\_\_\_\_ No\_\_\_\_\_

Exceptions:\_\_\_\_\_

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### **Wheelchair Lift**

A Braun Century 2 series lift with a lifting capacity of 800 lbs. shall be provided that fully meets or exceeds ADA requirements. Platform width will be thirty-seven (34") inches minimum and length to be fifty-one (51") inch minimum. It is recommended that the vendor submit product description, warranty information, and product literature with bid, but must submit this information within 48 hours of request. Lift must comply with new and/or current Federal Regulations.

The lift package installed on the bus must include dual panel lift doors with upper windows in each leaf and positioned on the curbside of the vehicle behind the rear wheels. The exterior door panels should be finished with FRP white panels to be aesthetically pleasant and match the vehicles exterior. An exterior key lockable handle shall be placed on the leaf doors. A gas strut shall also be included on each leaf door to prohibit the door from swinging out too far and contacting the body.

- a. The lift shall be installed by bolting through the floor into structural steel that is an integral part of the body underfloor structure.
- b. The power unit shall be placed at the forward side of the lift for rear mounted lifts and be readily accessible for service. In the event of power failure, the deployed lift platform shall be able to lower manually with passengers and raised without passengers.
- c. System control valve shall be solenoid controlled and shall be accessibly mounted for easy maintenance. All lift components shall either be inside the vehicle or enclosed and protected from water wash.
- d. Electrical control switches shall be completely weather proof and labeled as to function. All switches shall be of the momentary type.
- e. The lift installation shall provide a hand-held switch for remote operation of the lift in addition to or in place of the regular door-mounted electrical lift controls. The lift control cable shall have a protective steel wire cover from control to base of lift, if available.
- f. An Intermotive Gateway Interlock system shall be provided which renders the lift inoperative unless the transmission shift lever is in the "Park" position and the emergency brake is applied.
- g. A fast-idle system shall also be included to activate when the lift circuit is activated.

- h. The lift should feature a belt connected to the handrails that will protect the passenger on the wheelchair lift from falling from the outboard edge of the lift.
- i. The lift shall have two LED lights mounted on it to light the exterior area around the platform.
- j. Priority seating signs and wheelchair location signs shall be posted within the bus.

Comply: Yes\_\_\_\_\_ No\_\_\_\_\_

Exceptions: \_\_\_\_\_

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\_\_\_\_\_

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**Wheelchair Lift doors**

The wheelchair lift door shall be located on the curbside, behind the rear axle. Door shall be 2 leaf-style doors and shall meet ADA-requirements pertaining to the door height.

The wheelchair lift doors shall have a window. The glass shall be made of tempered AS3 glazing with a 30% light transmittance tint.

All doors shall be weather-sealed with bulb-type seal trim made of EPDM rubber. The door hinges shall be of heavy-duty type and their openings shall be accessible for easy adjustment. Each door hinge shall have a non- protruding integrated door stop to prevent the doors from hitting the side of the bus.

There will be a positive door latch or latching system in place to secure door when doors are open to prevent door movement.

The exterior door panels should be finished with FRP white panels to be aesthetically pleasant and match the vehicles exterior.

An exterior key lockable handle shall be placed on the leaf doors.

A gas strut shall also be included on each leaf door to prohibit the door from swinging out too far and contacting the body.

A lamp shall be mounted on the interior roof panel directly over the lift entrance. The lens of the lamp shall be made of polycarbonate. The lamp shall have an output of at least 15 candle power. A lamp shall be mounted outside of the bus just below the lift door. The lens of the lamp shall be made of polycarbonate. The lamp shall have an output of at least 32 candle power.

The required composite type flooring must be level over this area.

Comply: Yes\_\_\_\_\_ No\_\_\_\_\_



Exceptions: \_\_\_\_\_

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### **Wheelchair Securements**

Two (2) sets of wheelchair tie-down securements shall be included and each should consist of (4) Q'Straint floor retractors with Slide-N-Click fittings, (4) Slide-N-Click anchors in the floor, Retractable shoulder belts mounted in the side and rear walls of the bus, and adjustable lap belts for each wheelchair position.

A TDSS securement storage system shall be mounted under the double handi-flip seats in the wheelchair securement area to store two sets of retractors. There shall be one Q'Straint black vinyl bag mounted to the side wall for storage of the lap belts and extensions.

Two (2) Q'Straint 20" lap belt extenders shall be provided with each bus delivered.

Comply:    Yes\_\_\_\_\_    No\_\_\_\_\_

Exceptions: \_\_\_\_\_

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### **Heating / Air Conditioning**

OEM Ford heating and air conditioning will be provided in the dash for driver comfort and operation.

A rear floor heater with a minimum rating of 65k btu's shall be provided under one of the double passenger seats in the middle of the bus. The heater will have a 3-setting switch located within the drivers reach to operate this heater.

An ACT rear air conditioning system with a minimum rating of 70k btu's with evaporator mounted on the rear interior wall of the bus shall be provided. The system shall consist of an add-on TM-16 compressor, EZ-5 evaporator, and a CS-3 condenser.

Comply:    Yes\_\_\_\_\_    No\_\_\_\_\_

Exceptions: \_\_\_\_\_

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## Safety Options

Drivers Interior mirror 6"x16" shall be positioned for driver to see passenger cabin from seated position.

Backup alarm shall be installed for traffic around the bus to know the vehicle is in reverse motion.

Five pound minimum Fire extinguisher to be mounted in front interior area of the bus.

First Aid kit- minimum 13 units to be installed in front interior area of the bus.

Reflector triangles kit of three (3) units to be mounted in box at front interior of bus.

Seatbelt web cutter to be installed in driver's area of the bus.

A specialty brand Pro-Lo model #9245 deluxe roof hatch/vent shall be installed approximately above the rear axle.

Comply:    Yes\_\_\_\_\_    No\_\_\_\_\_

Exceptions: \_\_\_\_\_

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## Video and Audio Recording

The vehicle shall be equipped with a Rosco Dual-Vision XC4 model DV440 camera system. Cameras shall be windshield mounted camera system with forward facing, inward facing and an added 3rd Dome camera to help provide added continual and audio visual in other target areas such as the wheelchair lift and securement area.

There shall be added capability for 72 hour surveillance and post route GPS tracking recorder on to a 64 GB SD card with expansion capability to 2TB. The video recording shall be continuous loop recording that will operate with the ignition and will note events that will be protected from being overwritten. The camera will provide up to 800 – 5000+ hours (Based on SD card size) of continuous video recording with G-Force, Panic & Speed Event recording & tagging.

Panic button must be placed in a close and easily accessible area for the driver.

The SD card is an integral part of the camera and shall be located in a self- locking port to hinder tampering or theft. Videos should have the capabilities to be converted to .avi files for data transfer via e-mail. Self- managed system, with software provided to

manage, sort and report data with capability to output Excel Reports. SD Cards can be read from any computer with USB/SD Card Reader capabilities

Requirements include: Built-In CMOS Digital Cameras, Cameras will have 10 infrared LEDs for night vision (Cabin View Only), Resolution; HD video resolution shall be 720x960, Audio: built -in microphone, Volume: Configurable, Configurable in G-force accelerometer and GPS antenna, 2 (two) 64 GB memory SD cards

**Wireless Capabilities:** Camera shall be capable to provide live streaming and instantaneous events through a cloud-based software which will allow up to 1GB of data to review events and offer 10GB of cloud storage per month, will also offer full integration with a Geotab telematics GO Device and a standalone service will also be provided for all-in-one GPS tracking.

**Training & Warranty:** Shall include at a minimum, a two (2) year manufactures warranty, Unlimited phone and in person technical support shall be provided for this project, a manufacturer's operations manual shall be supplied with each order.

Comply: Yes\_\_\_\_\_ No\_\_\_\_\_

Exceptions: \_\_\_\_\_  
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## Decals

The following signs shall be mounted on the front interior header panel of the bus above the driver:

- a. No-Smoking
- b. Seatbelt must be worn at all times
- c. Clearance Height decal for driver
- d. No Eating or Drinking on the bus
- e. This vehicle is under video surveillance.  
Exterior decals mounted on rear wall of the bus shall include:
- f. Stops at all railroad crossings.
- g. Vehicle makes sudden and frequent stops (red lettering).

Exterior lettering to be completed prior to time of delivery should include "AIRPORT PARKING SHUTTLE" lettered in vinyl on both the front and rear caps. All exterior graphics must be approved by the county during pre-production meeting and are subject to change.

Comply: Yes\_\_\_\_\_ No\_\_\_\_\_

Exceptions: \_\_\_\_\_  
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### Road and water test

Prior to shipment the bus shall undergo thorough road and water testing to verify operational readiness.

The purpose of the road tests is to observe and verify the operation of the bus as a system and to verify the functional operation of the subsystems that can be operated only while the bus is in motion. Each bus shall be driven a minimum of 15 miles on the road test.

Prior to water test, the bus shall be driven a minimum of one-half mile on a track simulating various rough road conditions including staggered bumpers, chatter bumps and frame twists. The water test shall be run for 15 minutes to check the integrity of the vehicle's body seams, window frame seals and other exterior component close-outs for their ability to keep rainwater, road splash, melting snow and slush, and other exterior water from entering the inside of the vehicle. If a water leak is found, it will be repaired and the vehicle will be retested.

Comply: Yes \_\_\_\_\_ No \_\_\_\_\_

Exceptions: \_\_\_\_\_  
\_\_\_\_\_

### Delivery

Delivery of the buses shall commence within 150 days of receipt of purchase order.

Vehicles shall be delivered with no less than  $\frac{3}{4}$  (three-quarters) of a tank of fuel.

Vehicle shall have CG license plates (NJ County Government plates) installed and vehicle registration to Mercer County at time of delivery. All necessary NJMVC safety and emissions inspections shall have been completed prior to delivery of bus to County.

Comply: Yes \_\_\_\_\_ No \_\_\_\_\_

Exceptions: \_\_\_\_\_  
\_\_\_\_\_

**Service Facility**

The bidder shall have a service facility within a distance of 50 miles from the County's garage and have a service and parts delivery program to be utilized for minor repairs or service during the warranty period.

If the service facility's name and address is different than the bidder's, the bidder is required to indicate below the authorized body and body component warranty repair facility's name and address, including a letter from the owner of that facility indicating it is authorized by the body manufacturer, all bus component manufacturers and the bidder to perform warranty work on the bus bid.

Comply:    Yes\_\_\_\_    No\_\_\_\_

Exceptions:\_\_\_\_\_

**Manuals**

**Wiring:** An "AS BUILT" wiring manual shall be supplied with each bus delivered.

**Operations:** A body manufacturer's operations manual shall be supplied with each Purchase Order.

**Components:** Air conditioner, wheelchair lift, wheelchair tie down, and other component service and operation manuals shall be supplied at delivery. One owner's manual per bus, one parts book, repair manual, and an as-wired electrical diagram manual per Purchase Order shall be supplied at delivery.

Comply:    Yes\_\_\_\_    No\_\_\_\_

Exceptions:\_\_\_\_\_

**Quality Assurance**

The Contractor's Quality Management System shall be registered as compliant with ISO 9001:2008.

Comply:    Yes\_\_\_\_    No\_\_\_\_

Exceptions:\_\_\_\_\_

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**Submissions Required** - Failure to include any requested documentation may result in the bid being deemed non-responsive.

A. FLOORPLAN: Bidder shall submit with the bid a detailed floorplan showing:

- Overall length
- Overall width
- Wheelbase
- Aisle width
- Wheelchair securement location and dimensions

B. FMVSS Listing from manufacturer

C. "As-built" Weight Analysis of Unit Being Bid

D. "Altoona" Executive Summary

E. Simulated Roll-over ECE r.66 Test Results

F. WARRANTY COVERAGE proposed

Comply: Yes \_\_\_\_\_ No \_\_\_\_\_

Exceptions: \_\_\_\_\_

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**WARRANTY**- Bidders are to include copies of the warranty coverage provided. If manufacturers' standard warranty exceeds that which is described below, it shall be supplied with vehicle.

A. BODY

- Comprehensive: 1 year / 12,000 miles
- Structural: 5 years / 75,000 miles

B. CHASSIS

- Bumper to Bumper: 3 year / 36,000 miles
- Engine: 5 year / 60,000 miles

C. COMPONENTS

- Wheelchair Lift: 3 years
- Rear Air Conditioning: 3 years / unlimited miles

Comply: Yes \_\_\_\_\_ No \_\_\_\_\_

Exceptions: \_\_\_\_\_

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