**RFP 26-84944**

**MOBILITY VAN SPECIFICATIONS, TERMS, AND CONDITIONS**

**ATTACHMENT M**

***Respondent’s Name:***

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1. **Overview**

# 1.1. Introduction

This Attachment provides the specifications, terms, and conditions for the three types of Mobility Vans covered by the RFP. Respondents must be aware that Mobility Vans have additional federally-driven contract terms and conditions. Due to federal funding guidelines, should any of the State’s terms and conditions conflict with Federal terms and conditions (as listed in this Attachment), the Federal terms and conditions will prevail.

The vehicles are to meet or exceed all federal safety standards (FMVSS) requirements including, but not restricted to, seats and attachments, bolts, wiring, flammability, structural integrity and all components.

The successful Respondent shall provide a complete operating vehicle and the vehicle shall, at a minimum, conform in strength, quality of material, and workmanship to what is provided by the automotive industry generally. The vehicle provided shall be a new, latest current model vehicle, incorporating the latest engineering changes. All parts necessary to provide the vehicle shall be included and all parts shall be new. A chassis that has been stored for an excessive period of time in a depot, supply center or other area exposed to the weather, shall not be provided. The vehicle shall conform in all respects to the applicable Motor Vehicle Laws of the State of Indiana and to Title 49, Code of Federal Regulations, Part 38, Subparts A and B.

The fact that every item constituting the construction of the unit is not specifically mentioned nor described will be interpreted to mean that the Respondent shall install items that conform to the **best known engineering standards of the trade, relative to design, strength, quality, and workmanship**. Furthermore, each unit is to be delivered fully equipped, with all manufacturer's standard equipment and accessories, unless otherwise requested. This equipment must meet the latest federal safety regulations.

The vehicle shall be thoroughly inspected and tested during construction and upon completion to ensure all equipment is installed and operating properly. Tests shall be performed to ensure that the completed vehicle is rustproof, watertight, fume proof and all vehicle and equipment fluids are specifications. All provisions of 49 CFR part 665 (Bus testing) shall be met, and a certificate assuring compliance with these regulations shall be submitted with the proposal.

The Requesting Entity reserves the right to inspect the first vehicle, or any subsequent vehicle or vehicles, produced in conformation with these specifications by any manufacturer and intended for delivery to the specified recipient agency.

The inspection may be performed at the place of manufacture (or conversion) or at any stage of construction, if the Requesting Entity desires to exercise this option, or may be performed at the Respondent's place of business, or at a mutually agreed upon site. The Respondent and/or manufacturer shall give all needed assistance to the Requesting Entity’s personnel in the performance of this inspection.

The inspection, if made, will be in detail by the Requesting Entity’s personnel and may involve modifications, additions, and/or deletions to the vehicle and all other like vehicles for the purposes of complying with the specifications, before the vehicle(s) will be accepted and payment authorized. Also, any delivered vehicle not conforming to the specifications can be rejected and major corrections required, or the production of a new vehicle meeting the specifications may be required.

Vehicle specifications are detailed in this Attachment. The Respondent shall describe the vehicle and equipment proposed to be furnished as part of the proposal. The vehicle specifications are for a “base vehicle” that may include optional equipment desired by the requesting entity. For example –

* INDOT has traditionally requested a forward-facing rear fold away center seat as an option for the low floor minivan. This allows INDOT subrecipients to transport additional ambulatory passengers when the center wheelchair position is not in use.
* INDOT has traditionally requested an optional 12 ambulatory/ 2 wheelchair bus body size on a minimum 156-inch wheelbase (typically built on a Ford E450 cutaway chassis). This allows INDOT subrecipients to operate a vehicle with a capacity that does not require a Commercial Driver’s License (CDL).

The Contractor shall use commercially reasonable best efforts to maintain a Fill Rate of 100% delivery of new vehicles within the maximum delivery date range of 180 calendar days from receipt of chassis (mobility vans only), or a date mutually agreed upon by the Requesting Entity and the Contractor.

**NOTE:** Proper evaluation of your RFP proposal can be made only if the Respondent provides all information requested.

# 1.2. **Overview of the Mobility Van Types**

* + 1. **Low Floor Minivan**

This item shall be a passenger transportation vehicle that is a minivan which has been modified or converted to provide additional interior headroom and clearances and improved passenger accessibility. The vehicle shall be equipped with all of the vehicle manufacturer’s standard equipment (or manufacturer’s better optional equipment), where possible.

Examples of this vehicle are any of the following or its current model year equivalent: Braun Entervan, Driverge Vehicle Innovations, Mobility Works or VMI conversions. Vehicles similar to these listed by any manufacturer, meeting the basic specifications will receive equal consideration.

The preceding examples are listed for the sole purpose of demonstrating the type of vehicle desired by these specifications. Prior approval of these vehicles is not to be assumed by any Respondent nor is it to be assumed that similar vehicles by these or other manufacturers will have automatic prior approval. Vehicles similar to those listed above, by any manufacturer, meeting the basic specifications will receive equal consideration.

It is the responsibility of the Respondent to supply the basic minivan and modify it in accordance with these specifications. The modification shall consist of the following:

1. Removal of the standard production minivan floor and lowering of same to increase the interior headroom. Also, reinforcement of the body frame as appropriate, including any roof extension needed to meet entryway specifications.
2. Installation of insulation, floor covering, interior fixtures and finishings.
3. At a minimum, seat three (3) ambulatory passengers (excluding driver). The vehicle shall contain a removable (quick release) front passenger seat to increase the seating capacity to four (4) ambulatory passengers.
4. Installation of a securement system and occupant restraint system for mobility aid users.
5. Installation of a manual ramp in the passenger entrance way. The ramp shall allow for easy boarding of individuals with mobility aids and ambulatory persons.
6. Installation of extended passenger door as necessary to accommodate the ramp.
7. Other modifications called for in these specifications, as well as any and all modifications required to provide a complete functioning vehicle.
   * 1. **Small Transit Vehicle**

This vehicle shall be a vehicle suitable for social service agency transportation. The intent of the specifications in Appendix A2 is to obtain a vehicle that is not a school bus or a modified version of a school bus. Small buses, modified or unmodified, of a bus manufacturer's school bus line, such as the Blue Bird "Microbird", Thomas "Minotour", or similar buses of these or other manufacturers, are not acceptable. Examples of the type of vehicle desired are:

1) Startrans Candidate; manufactured by Forest River

2) Challenger; manufactured by Forest Tiver

3) Terra Transit; manufactured by Turtle Top

4) Starcraft Allstar, manufactured by Forest River

5) Phoenix, manufactured by Coach & Equipment MFG CORP

The preceding examples are listed for the sole purpose of demonstrating the type of vehicle desired by these specifications. Prior approval of these vehicles is not to be assumed by any Respondent nor is it to be assumed that similar vehicles by these or other manufacturers will have automatic prior approval. Vehicles similar to those listed above, by any manufacturer, meeting the basic specifications will receive equal consideration.

* + 1. **Large Transit Vehicle**

This vehicle shall be a vehicle suitable for social service agency transportation. The intent of these specifications in Appendix A3 is to obtain a vehicle that is not a school bus or a modified version of a school bus. Small buses, modified or unmodified, of a bus manufacturer's school bus line, such as the Blue Bird "Microbird", Thomas "Minotour", or similar buses of these or other manufacturers, are not acceptable. Examples of the type of vehicle desired are:

1) Startrans Candidate; manufactured by Forest River

2) Challenger; manufactured by Champion Bus

3) Terra Transit; manufactured by Turtle Top

4) Starcraft Allstar, manufactured by Forest River

5) Phoenix, manufactured by Coach & Equipment MFG CORP

The preceding examples are listed for the sole purpose of demonstrating the type of vehicle desired by these specifications. Prior approval of these vehicles is not to be assumed by any Respondent nor is it to be assumed that similar vehicles by these or other manufacturers will have automatic prior approval. Vehicles similar to those listed above, by any manufacturer, meeting the basic specifications will receive equal consideration.

* + 1. **Ford Transit Cutaway**

This item shall be a passenger transportation vehicle that is a 8 passenger 2 wheelchair plus driver Ford Transit cutaway van with a curbside lift which has been upfitted for improved passenger accessibility. The vehicle shall be equipped with all of the vehicle manufacturer’s standard equipment (or manufacturer’s better optional equipment), where possible.

Examples of Manufacturers that produce this type of vehicle include: Forest River, Mobility Works, Fenton Mobility, Driverge or Turtle Top. Other manufacturers meeting the basic specifications in will receive equal consideration.

The preceding examples are listed for the sole purpose of demonstrating the type of vehicle desired by these specifications. Prior approval of these vehicles is not to be assumed by any Respondent nor is it to be assumed that similar vehicles by these or other manufacturers will have automatic prior approval. Vehicles similar to those listed above, by any manufacturer, meeting the basic specifications will receive equal consideration.

# 1.3 Volumes

Quantities to be purchased by the Indiana Department of Transportation (INDOT) for Section 5310 and 5311/5339 (rural) subrecipients are estimated; actual numbers will vary.

1. Low Floor Minivan: up to Eighty (80) per year
2. Small Transit Vehicle: up to Fifty (50) per year
3. Large Transit Vehicle: up to Fifty-five (55) per year (the optional 12 passenger/ 2 wheelchair size typically comprises a large majority of these orders)
4. Ford Transit Cutaway Van: up to Ten (10) per year

INDOT quantities are subject to annual federal allocations, operating needs of subrecipients, and the availability of chassis. Quantities do not include possible piggy-backing opportunities.

# 2.0 Requested Information

### **Specification Compliance Checklist - Low Floor Minivan**

In the yellow shaded boxes, please confirm the Respondent meets each Vehicle Specification by adding a “Yes” or “No”, unless otherwise specified. Please refer to the RFP for how to submit questions or concerns about any of the specifications, or to request an exception to the specifications.

| **Low Floor Minivan Specification** | **Meets Specification? (Yes/No Unless Otherwise Specified)** |
| --- | --- |
|  |  |
| 1. **GENERAL DESCRIPTION OF VEHICLE** | |
| Installation of insulation, floor covering, interior fixtures and finishings. |  |
| Removal of the standard factory production minivan floor and lowering of same to increase the interior headroom. Also, reinforcement of the body frame as appropriate. The floor and other modifications to the vehicle shall be done in a manner such that the structural integrity of the vehicle is not degraded. The body including the roof shall be of sufficient strength to support the entire weight of the fully loaded vehicle on its top or side if overturned. |  |
| The vehicle shall at a minimum, seat three (3) ambulatory passengers (excluding the driver). The front passenger seat shall be removable so the vehicle can accommodate two (2) wheelchair or other mobility aid passengers and three (3) ambulatory passengers (see attached floor plans in Section 3.1 of this Attachment). An option to provide a convertible two-passenger center bench seat may be chosen to increase the seating capacity to five (5) ambulatory passengers excluding driver. |  |
| Installation of a securement system and occupant restraint system for mobility aid users. |  |
| Installation of a manual in-floor ramp in the passenger entrance way. The ramp shall allow for easy boarding of persons in mobility aids and for boarding of ambulatory persons. |  |
| Installation of extended passenger door as necessary to accommodate the ramp. |  |
| Other modifications called for in these specifications, as well as any and all modifications required to provide a complete functioning vehicle |  |
| 1. **BASIC VEHICLE**   *The basic vehicle shall be provided with the following factory-installed (except where noted) equipment* | |
| Minimum G.V.W.R. of 6,050 pounds with manufacturer’s heaviest duty suspension, minimum wheelbase of 121 inches, minimum overall length of 200 inches, and a minimum overall width of 76 inches. |  |
| Six-cylinder gasoline engine with a minimum displacement of 3.3 liters. |  |
| 6 speed w/overdrive automatic transmission minimum |  |
| Factory Anti-Lock Brake System (ABS). |  |
| Power steering, including a tilt steering wheel and cruise control. |  |
| Maximum (heavy duty) cooling system. |  |
| Total battery capacity of at least 600 cca (cranking performance amperes at 0 degrees Fahrenheit). **The capacity (in cca’s) must be stated in the proposal.** | **Battery Capacity: \_\_\_\_\_\_\_\_\_\_\_** |
| Alternator or generator with a minimum capacity of 160 amps. **The capacity (in amps) must be stated in the proposal.** | **Alternator Capacity: \_\_\_\_\_\_\_\_** |
| Fuel tank – Minimum capacity of 19 gallons. **The actual capacity (in gallons) must be stated in the proposal.** | **Fuel Tank Capacity: \_\_\_\_\_\_\_\_** |
| Oil pressure, temperature, ammeter or voltmeter gauges or warning lights. |  |
| 12-volt power outlet. |  |
| Standard dual adjustable remote controlled heated exterior mirrors. |  |
| Windows all around (i.e. all factory available windows in body side, side doors and rear). |  |
| Tinted glass in windshield and all windows. |  |
| High output front heater. |  |
| Front and rear bumpers. |  |
| Insulated headliner for the full length of the driver and passenger compartments. |  |
| The vehicle shall contain OEM standard insulation in the roof and all body panels, including the extended door, to deaden sound, and reduce vibrations and heat transfers. |  |
| Insulated sidewalls finished with the minivan manufacturer’s standard, or equivalent, covering. Interior of all doors shall be covered by manufacturer’s standard, or equivalent trim panels and insulated. Also, factory standard, or equivalent, window moldings shall be provided. Carpeting is not allowed in the vehicle interior, unless prior approval is obtained from INDOT. |  |
| The interior of the vehicle shall be free of all projections. All sharp edges, protruding fasteners and brackets that could cause injury to passengers or catch hold of clothing shall be covered. The interior of the vehicle shall be completely finished. The interior of the vehicle shall be completely finished, and insulated sidewalls shall be vinyl or melamine covered. |  |
| The interior of the vehicle shall be free of all projections. All sharp edges, protruding fasteners and brackets that could cause injury to passengers or catch hold of clothing shall be covered. |  |
| Two speed windshield wipers with intermittent feature. |  |
| Heater and defroster, including rear window defroster and rear heater. |  |
| Rear window washer/wiper. |  |
| OEM AM/FM radio with Bluetooth and factory installed speakers. |  |
| Air conditioning, front and rear. |  |
| Driver’s side and front passenger airbags. |  |
| Chassis must be equipped with Electronic Stability Control (FMVSS 126). |  |
| Alarm to sound automatically when the vehicle is placed in reverse. The back-up alarm shall be frame mounted toward the rearmost part of the vehicle and protected from water and road spray. |  |
| 1. **RUSTPROOFING** | |
| The vehicle shall be furnished with the standard rustproofing available from the van manufacturer. All extended wheelchair access and entryway door panels shall be rustproofed in a manner equal to or greater than the rustproofing provided by the van manufacturer. |  |
| 1. **UNDERCOATING** | |
| All exposed floor attachment seams shall be sealed with a high rated butyl caulk or equivalent. The entire surface of exterior lowered floor shall have a rust inhibiting coating, such as an epoxy primer base, applied to cover all welded areas, and then a fresh application of undercoating over the entire surface. Undercoating shall comply with current Federal and State flammability standards. |  |
| 1. **FLOOR** | |
| *Sub Floor*: The interior floor shall be thermoplastic panels, consisting of a polypropylene honeycomb core with chopped glass reinforced facing on both sides – providing a durable water-resistant base with superior strength to weight ratio. The panels shall provide a smooth surface for flooring attachment and minimize interior noise. |  |
| *Floor Assembly*: The lowered floor skin shall be constructed of 20 ga. aluminized steel. The frame rails shall be made of 14 ga. formed channels; the floor shall be reinforced with 16 ga. formed channel cross ribs. The floor shall be lowered from the front firewall to just before the rear axle. The width of the floor shall extend from side doorsill to side doorsill. Mobility aid restraint tracks and seat locks shall be beveled, with no sharp edges and will protrude no more than ¼” above floor surface. |  |
| The entire floor and modification shall be sealed to prevent any water or air leakage. |  |
| Manufacturer shall ensure that all components attached to the undercarriage (or other major components) under the vehicle are securely attached and have a minimum of five (5) inches of ground clearance from the roadway when loaded with 1100 lbs. maximum. If the exhaust system has been relocated, it shall be properly attached and not under tension. A heat shield shall be installed in any area where the exhaust pipe is within six (6) inches or less of the gasoline tank. |  |
| Other methods of floor construction will be considered if prior approval is obtained from INDOT. |  |
| 1. **FLOOR COVERING** | |
| The floor shall be covered with a slip retardant sheet flooring consisting of a vinyl composition, similar to Altro or Gerflor flooring, or approved equal. It shall be permanently bonded to the floor with adhesive of waterproof type. All edges of the floor covering are to be properly sealed to prevent entrance of moisture that could cause bulging, ply separation, and/or material failure. All joints in the floor covering shall be the butt type and floor covering shall be cemented to the floor to prevent bubbles or blisters which could create a safety hazard. |  |
| The floor covering shall be at least 2.2 millimeters thick overall gauge. |  |
| All portions of the floor covering shall be of the same material and color including the floor area under and adjacent to the driver’s seat, unless prior approval for an alternative is obtained from INDOT. |  |
| 1. **DOORS** | |
| *Driver’s and Right Front Passenger Doors*: No modifications are required on these doors. |  |
| Only the driver’s door shall be lockable by key from the exterior. |  |
| *Wheelchair Access/Sliding Passenger Door*: The wheelchair access/sliding passenger door shall be modified to accommodate the in-floor ramp and the lowered floor. The modification shall involve the removal and reinstallation of the door, extending the lower portion of the door to meet the new floor height, and the replacement of the factory installed door track with new galvanized or stainless-steel track. The door shall measure, at a minimum, 31.5 inches wide and 56 inches high. Provisions shall be made to keep the door in an open position during passenger loading and unloading. A warning light in the driver’s compartment shall indicate the door is open or ajar. |  |
| *Rear Emergency Exit Door (Liftgate)*: The rear door (liftgate) shall be equipped with a manual device for opening from the inside and outside, which may be quickly released but designed to offer protection against accidental release. The opening device shall be easily reached from the interior of the vehicle. |  |
| *Left Side Sliding Passenger Door*: An OEM-built second sliding door shall be provided on the rear passenger left side of the vehicle. Second stage manufacturer-built sliding doors are not acceptable for this specification. Door height opening shall be a minimum of 52 inches. Door width shall be as provided by the OEM. Door shall be equipped with an interlock system so that door cannot be opened from the inside or outside when fuel door is open. |  |
| 1. **ELECTRICAL** | |
| All wiring added during the modification shall be color coded or number coded. All wiring shall be properly insulated and, as necessary, shall be held in place with insulated clamps at a maximum of two-foot intervals. There shall be no exposed or loose wiring in the driver or passenger compartment of the vehicle. |  |
| A system including an OEM rearview backup camera and monitor is required. The monitor shall provide a clear view of what is behind the vehicle to the operator while the vehicle is in the reverse gear. Camera must be mounted at rear in middle of vehicle. |  |
| 1. **LIGHTING** | |
| The interior of the vehicle shall be adequately illuminated, and overhead lighting fixtures shall be arranged in such a manner that adequate lighting is provided at the reading plane of the passengers. |  |
| The stepwell and doorway immediately adjacent to the driver shall have, when the door is open, at least 2 foot-candles of illumination measured on the step tread. |  |
| The other stepwells and doorways, including the doorway in which the ramp is installed, shall have, at all times, at least 2 foot-candles of illumination measured on the step tread, or ramp, when deployed at the vehicle floor level. |  |
| The vehicle doorways, including the doorway in which the ramp is installed, shall have light(s) which, when the door is open, provide at least 1 foot-candle of illumination on the street surface for a distance of 3 feet perpendicular to all points on the bottom step tread outer edge. Such light(s) shall be located below window level and shielded to protect the eyes of entering and exiting passengers. |  |
| 1. **PAINT** | |
| All exposed metal surfaces, excepting aluminum and stainless steel, must be painted, chromed or galvanized. |  |
| All painted exterior surfaces shall match the exterior paint color of the basic van. The exterior paint scheme is to be a solid white color. |  |
| All interior surfaces which require painting shall be painted the same color. This includes the exposed interior metal surfaces, if any, of the side and rear doors. The successful Respondent shall choose an interior color that is color-keyed to the van’s exterior color and harmonizes with the color of the roof liner and any side paneling or other covering. |  |
| 1. **TIRES AND WHEELS** | |
| All tires shall be radial tires. The tires shall have a minimum width of 7 inches (178 millimeters) and a minimum nominal rim diameter of 16 inches. A full size spare tire and wheel shall be provided. All tires and wheels shall be of the same size and type and shall be interchangeable. Tires and wheels shall be properly aligned. The type and size of tires must be stated in the proposal. |  |
| The OEM inflatable spare tire (or approved equal) in the rear hatch area. Tire changing equipment, as provided by the OEM, shall include a jack of sufficient strength/capacity, and other tools necessary for changing the mounted tires, shall be stored in a compartment/container within the vehicle. |  |
| 1. **EMERGENCY EQUIPMENT** | |
| *Warning Devices*: Three (3) portable warning reflectors (mounted on stands) stored in a latched box. |  |
| *Fire Extinguisher*: One dry chemical fire extinguisher of at least five (5) pound capacity. The extinguisher shall be a multi-purpose A-B-C type and shall be bracket mounted and easily accessible to the driver. |  |
| *First Aid Kit*: A first aid kit with a minimum of sixteen (16) different units (each unit shall be of a different type from every other unit) shall be mounted in a location most easily accessible to the driver. The box or container shall not be considered as one of the 16 units. |  |
| *Lug Wrench*: A lug wrench of the proper size and type to remove wheels from the van. |  |
| Seat Belt Cutter mounted in easily accessible locations, one near the wheelchair ramp, and one easily accessible by the driver. Instructions for use must accompany device. |  |
| All equipment listed above, shall be firmly secured inside the vehicle to prevent any movement by them while the vehicle is in motion. The mounted location of any of the above equipment shall not interfere with the driver’s or passenger’s limbs or placement of feet or interfere with the movement of passengers and/or mobility aids within the vehicle. Also, none of the equipment shall be mounted on the door. |  |
| 1. **HEADROOM** | |
| The inside body height of the vehicle from surface of the floor cover to ceiling as measured at any point along the longitudinal center line of the passenger aisleway shall not be less than 57 inches and a minimum interior height of 56 inches must be maintained along the path from the ramp to all securement locations. |  |
| 1. **DRIVER’S SEAT** | |
| The driver’s seat shall be the original OEM seat modified as necessary to accommodate for the lowered floor and located as close as possible to the original position. All original seat adjustments shall be retained in working order. If necessary, a foot rest shall be positioned at the original floor level. |  |
| 1. **REGULAR PASSENGER SEAT** | |
| The original OEM rear-most 3-passenger bench seat shall be retained, but may be relocated, as necessary, to accommodate for the lowering of the floor and to provide for the maximum possible seating room between the ambulatory passengers and any secured mobility aid. |  |
| The passenger seat shall be arranged such that the unobstructed hip-to-knee room as measured at the seat level which is provided for each seated passenger shall not be less than 25.5 inches. Note: This is the minimal acceptable spacing. |  |
| The seat back and cushions shall be of the same color and pattern, shall be color-keyed to the vehicle’s exterior color and shall harmonize with the vehicle’s interior color. |  |
| All seats shall have vinyl covering. |  |
| 1. **FOLD AWAY REAR SEAT FOOTREST** | |
| Full width, steel footrest for rear seat passengers with positive, up/down positions, manually operated. Top of footrest is minimum 7.25 inches above the floor. Powder coated to match interior floor/trim color. |  |
| 1. **FRONT PASSENGER SEAT** | |
| The front right passenger seat shall be OEM, matching the driver’s seat. The seat base shall be adapted to permit easy roll out for mobility aid access/securement. The seat shall lock and unlock easily from the floor area and have a positive lock device. |  |
| The seat shall be modified in such a manner that the tops of the seat backs are approximately the same distance from the vehicle roof as originally intended before lowering the floor. |  |
| All non-OEM seats shall meet all applicable FMVSS standard including 207, 208 and 210. |  |
| Furthermore, a foot rest shall be placed on the front passenger’s seat at original floor level and constructed in such a manner to eliminate any gaps between the foot rest and the right front passenger entry door. |  |
| A complete description of the seat modifications and the method of providing the quick release seat shall be provided with the proposal. |  |
| 1. **SEATING CONFIGURATION** | |
| The seats and wheelchair positions shall be arranged such that the following seating configurations can be accomplished: |  |
| Three ambulatory passengers (excluding driver) and two mobility aid users - no removable seat in place. |  |
| Three ambulatory passengers (excluding driver) and one mobility aid user - front right passenger seat in place. |  |
| Four ambulatory passengers (excluding driver) and no mobility aid users. |  |
| All seat backs and cushions shall be of the same color and pattern, shall be color-keyed to the vehicle’s exterior color, and shall harmonize with the vehicle’s interior color. |  |
| 1. **SEAT BELTS/SHOULDER HARNESS** | |
| A standard retractable seat belt and shoulder harness shall be provided at the driver’s seat. At each passenger seating position, a standard retractable seat belt shall be provided and, if required by applicable state and federal laws, a shoulder harness shall also be provided. All seat belts and shoulder harnesses shall be of sufficient length to comfortably fit a large adult. |  |
| Separate belts shall be provided to secure mobility aid passengers (see Securement System). |  |
| Two 12-inch seat belt extenders |  |
| 1. **MOBILITY AID POSITIONS** | |
| Mobility aid positions are spaces inside the vehicle for transporting people in wheelchairs or other mobility aids. Each position shall consist of a usable floor area in which a passenger in a mobility aid may be positioned and in which an occupant restraint system and securement devices are to be installed. |  |
| Two mobility-aid positions will be provided on this vehicle. One position shall be located adjacent and to the right of the driver, and the other position shall be located immediately behind the driver as close to the left side of the vehicle as possible. Both positions shall be forward facing. |  |
| The securement system shall be placed as near to the accessible entrance as practicable and shall have a clear floor area of 30 inches by 48 inches. Such space shall adjoin, and may overlap, an access path. Not more than 6 inches of the required clear floor space may be accommodated for footrests under another seat provided there is a minimum of 9 inches from the floor to the lowest part of the seat overhanging the space. |  |
| The dimensions of these mobility-aid positions are intended to give adequate room for the final traveling position of the mobility-aid and its occupant AND sufficient room for the maneuverability of the mobility aid into that position. The actual placement of the securement devices within the position is described in the Securement System section of these specifications. |  |
| 1. **MOBILITY AID SYSTEM** | |
| The mobility-aid system shall permit wheelchair or other mobility aid users to enter and leave the vehicle by means of a ramp and provide for the safe transportation of these persons inside the vehicle. The entire systems shall meet, at a minimum, all applicable requirements of 36 CFR Section 1192.23 (a), (c) and (d) in addition to these specifications. |  |
| The components of the mobility aid system shall include the following: |  |
| Ramp |  |
| Securement system |  |
| Occupant restraint system |  |
| All modifications required to the exterior and interior of the minivan to provide a complete functioning system. |  |
| Control Interlock |  |
| All parts shall be new. All necessary servicing and adjustments shall be made on the equipment prior to delivery of the vehicle. All equipment shall be ready for immediate and continuous operation upon delivery of the minivan. All exposed metal services shall be painted or shall be corrosion resistant. |  |
| 1. **RAMP** | |
| Mobility Aid Ramp: The vehicle shall be equipped with a manually operated mobility aid ramp located at the curbside passenger entry door that deploys from, and stores in, the vehicle floor. The ramp stows in the lowered floor, providing unobstructed ambulatory passenger entry/exit when not in use. The installed ramp shall not obstruct the view of the driver through any vehicle window. When the in-floor ramp is deployed, it shall provide a minimum usable width of 30”, length of 63.5 inches and a slope of 12.5 degrees (maximum). The ramp surface shall be continuous and made skid resistant through powder coating. It shall have no protrusions from the surface greater than ¼” and shall accommodate both four-wheel and three-wheel mobility aids. The ramp shall have a rated capacity of 1,000 lbs., with a safety factor of at least three (3) based on the ultimate strength of the material. Each side of the ramp shall have protective barriers at least two (2) inches high to prevent mobility aids from rolling off the ramp edge. |  |
| When in use for boarding or alighting, the ramp shall be firmly attached to the vehicle so that it is not subject to displacement when loading or unloading a heavy power mobility aid and that no gap between the vehicle and ramp exceeds 5/8 inch. |  |
| A compartment, securement system, or other appropriate method shall be provided to ensure that the stowed ramp does not impinge on a passenger’s wheelchair or mobility aid, or pose any hazard to passengers in the event of a sudden stop or maneuver. |  |
| A white, yellow or orange band running the full width of the ramp shall be provided on the vehicle floor at the edge of the platform and a similar band shall be placed on the ramp at the boarding edge. Edge guards shall extend the full length of the ramp platform on both sides and shall have a minimum height of 2 inches. |  |
| A warning light in the driver’s compartment shall indicate the passenger entrance door is open or ajar. |  |
| 1. **SECUREMENT SYSTEM** | |
| At two mobility aid position a securement system shall be provided to securely hold the mobility aid in position. |  |
| Q-Straint Model # QTR Deluxe Model Q-8100-A1-L with L-Track Fittings and Q8-6325-A Standard Lap & Shoulder Belt Assembly. Systems by other manufacturers may be accepted with prior approval. |  |
| The system shall utilize flanged “L” continuous track, capable of securing a variety of common mobility aid designs and accommodate a wide range of occupant sizes. |  |
| Each securement position system shall consist of four (4) adjustable, securement strap assemblies that attach to the structural frame of the mobility aid at four separate points, and anchor into the track on the vehicle floor at four separate points. Each securement system shall have a corresponding occupant restraint system. The occupant restraint system shall consist of adjustable lap belt and a shoulder belt and shall meet all applicable Federal Motor Vehicle Safety Standards. |  |
| The securement system and their attachments to the vehicle shall restrain a force in the forward longitudinal direction of up to 2,500 pounds per securement leg and a minimum of 5,000 pounds for each mobility aid. In addition, the securement system shall meet the “30 mph /20g standard” developed at the University of Michigan. Test results verifying these requirements shall be available and, if requested, a copy shall be submitted to INDOT. |  |
| The securement system shall secure wheelchairs/mobility aids and shall either be automatic or easily attached by a person familiar with the system and mobility aid and having average dexterity. |  |
| Mobility securement tracks must meet ADA requirements, includes mobility  securement system, tie downs and ramp. Tracks will be medium duty flanged LTrack,  flush mounted in vehicle. |  |
| *Note*: Alternative belt-track systems, using shorter pieces of track (if maneuverability of mobility aids or safety of ambulatory persons is affected) and alternative locations for mounting track, will be considered provided that prior approval is obtained from INDOT. |  |
| The tracks shall be securely flush mounted to the floor of the vehicle in such a way as to ensure they will not pull away from the floor or shift position under anticipated loads. The flush mounted tracks shall have no gaps between the ends or sides of the track and the floor covering. The vehicle floor anchorage for the securement system shall be capable of withstanding a tensile load of 6,000 lbs. applied at a 45 degree angle at each track or floor plate slot when tested with the applicable track fitting. Test results to verify this requirement shall be available and, if requested, shall be submitted to INDOT. |  |
| Care should be taken to avoid damage to any of the vehicle’s components during installation of the securement system. |  |
| When the wheelchair or mobility aid is secured in accordance with manufacturer’s instructions, the securement system shall limit the movement of an occupied wheelchair or mobility aid to no more than 2 inches in any direction under normal vehicle operating conditions. |  |
| In addition, storage pouches shall be made to store the straps and buckles off the floor when they are not in use. The stored straps and the securement tracks shall not interfere with passenger movement or sitting space, shall not present any hazardous condition, shall be reasonably protected from vandalism, and shall be readily accessed when needed for use. Q-Straint Q5-8522 or approved equal. One storage pouch per each wheelchair tiedown position. |  |
| The Respondent shall submit with the proposal a description, in detail, with supporting drawings (may be clear hand-drawn sketches) and literature showing the type and location of the securement system to be furnished. |  |
| 1. **WEBBING LOOPS** | |
| Q-Straint Q5-7580, Sure-Lok FE-200750 or approved equal. Quantity of 4 per wheelchair position/8 per van. To assist with securement of wheelchairs. |  |
| 1. **OCCUPANT RESTRAINT SYSTEM** | |
| A restraint system shall be provided for the occupant of the wheelchair or other mobility aid. |  |
| The occupant restraint system shall be a seat belt and shoulder harness assembly, complying with all applicable provisions of 49 CFR part 571, attached to the floor or side of the vehicle. A retractor or other device (such as a detachable clip) shall be provided to keep the belt webbing and strap off the floor when the belt is not in use. |  |
| 1. **CONTROL INTERLOCK** | |
| The ramp doors shall be interlocked with the vehicle transmission to ensure the vehicle cannot be moved when the ramp doors are opened. The interlock shall be a fully automatic, solid state, microprocessor-controlled unit capable of self-diagnosis. Interlock shall utilize an LED display panel to show subsystem status, either/or add door ajar switch to the passenger side sliding door. LED flashing light mounted on the center of the dash that flashes while either sliding door is ajar. |  |
| 1. **GRAB HANDLES** | |
| At least one OEM grab handle, located at the wheelchair access/sliding passenger door.  The handrail shall permit sufficient turning and maneuvering space for wheelchairs and other mobility aids to reach the securement locations from the ramp.  The handrail shall be provided in a configuration which allows persons with disabilities to grasp such assists from outside the vehicle while starting to board, and to continue using such assists throughout the boarding process. |  |
| 1. **SERVICE POLICY/WARRANTY** | |
| The successful Respondent shall furnish with the vehicle the manufacturer’s owner service policies and warranties for the basis vehicle, the modification of the vehicle and all equipment. |  |
| The warranty for the basis van shall be the manufacturer’s standard warranty minimum 3 years/36,000 miles. |  |
| The radial tires and battery shall be covered by the warranty that is standard to the industry, at a minimum. |  |
| The rustproofing shall be covered by a warranty that is standard to the rustproofing industry and which shall provide for, at a minimum, at least five (5) years/100,000 miles of protection through rust-through. |  |

### Specification Compliance Checklist - Small Transit Vehicle

In the yellow shaded boxes, please confirm the Respondent meets each Vehicle Specification by adding a “Yes” or “No”, unless otherwise specified. Please refer to the RFP for how to submit questions or concerns about any of the specifications, or to request an exception to the specifications.

| **Small Transit Vehicle Specification** | **Meets Specification? (Yes/No Unless Otherwise Specified)** |
| --- | --- |
| 1. **BODY AND CHASSIS REQUIREMENTS** | |
| This vehicle shall be of the "body on chassis" type and will involve construction of a bus body on a heavy duty cut-away van chassis. The vehicle body shall be manufactured by a body manufacturer for transit application, not "converted" or "modified" to a transit vehicle from a sports van, passenger van or wagon, delivery vehicle, school bus, recreational vehicle or similar vehicle. Body construction shall be conventional type (panels on structural metal frames) as described below. |  |
| 1. **BODY CONSTRUCTION** | |
| Structural body members shall be all metal. The metal used in construction of the vehicle body shall be prime commercial quality steel (18 gauge minimum). All other metal shall be zinc-coated steel, aluminum-coated steel, stainless steel, galvanized steel, aluminum or aluminum alloy. |  |
| Fiberglass may be used for the construction of the exterior panels ("outer skin") of the body/or the roof "cap") as long as they are securely fastened to metal interior structural members, as specified, and conform to all applicable Federal Motor Vehicle Safety Standards (FMVSS). |  |
| The body structure shall be adequately reinforced at all points and corners where stress concentrations may occur, to adequately carry required loads and withstand road shock. The side and end forming shall be so designed and constructed that they will carry their share of the stresses imposed without damage and absorb excessive impacts with as little damage as is practical. |  |
| Adequate reinforcement shall be provided around all doors, windows and other openings in order to transfer stresses around these openings. |  |
| All posts in body side and roof sections shall be of durable channel or box construction securely fastened to the underframe structure so that the entire frame shall act as one unit without any movement at the joinings. The end posts shall be designed to resist shear. Joints shall be rigid. |  |
| A complete description of the frame, including a sketch, showing size, type, location, how frame is attached to chassis, etc. of frame members shall be submitted. |  |
| The body shall be of sufficient strength to support the entire weight of the fully-loaded vehicle on its top or side, if overturned. A copy of the FMVSS 220 roll over protection test results shall be available and submitted if requested. |  |
| All interior ceiling and wall panels, shall be composed of a uniform appearing, easily cleanable, scuff-resistant material, similar to molded or sheet fiberglass, fiberglass reinforced panels, vinyl-clad metal sheeting, or painted metal sheeting. All interior panels shall be riveted, welded, or otherwise fastened to body frame. Standard vinyl covered plywood shall be used in the driver area wall panels, rear air-conditioning bulkhead and wheelchair door header. Carpeting used as a roof, side, or floor covering will not be allowed, except with prior approval. |  |
| All exterior joints and seams shall be protected by the application of a caulking compound. The body shall be sealed and made tight to prevent entrance of dust or moisture into passenger and driver compartments. All nuts, bolts, clips, washers, clamps, and like fasteners shall be zinc or cadmium plates, phosphate coated or stainless steel to prevent corrosion. Exterior body panels shall be securely riveted, welded or fastened in place. Exterior body seams shall be constructed in such a manner as to shed water. |  |
| The vehicle body shall be attached to the chassis frame in such a manner as to prevent shifting or separation of the body from the chassis under severe operating conditions. |  |
| 1. **FLOOR** | |
| The floor shall be metal sheeting covered with marine grade plywood not less than three-quarters (0.75) inch thick. The sheet metal shall be galvanized, aluminum or otherwise protected to deter rust. |  |
| 1. **FLOOR COVERING** | |
| All floor covering shall be securely bonded to the floor with fasteners and adhesive of waterproof type. All edges of floor covering are to be properly sealed to prevent entrance of moisture that could cause bulging, ply separation and/or material failure. All joints in floor covering shall be the butt cut type and floor covering shall be cemented to the floor to prevent bubbles or blisters which could create a safety hazard. |  |
| The floor covering shall be OEM black, pebble grain floor mat in the driver’s area. |  |
| Slip Resistant Floor covering: Minimum 2.2 mm (.08 inches) thick and shall in either  wet or dry conditions provide a coefficient of friction that is greater than or equal to  .8. Examples are Altro Transflor VM20, or Tarabus GerFlor flooring or approved  equivalent. All joints shall be of the butt cut type and heat-welded in accordance with  the floor manufacturer's recommended procedure. |  |
| A water tight seal shall be provided at the junction of the floor covering with the sidewall panels and wheel housings; and shall be firmly attached to the floor and conform closely to the floor, sidewalls and wheel housings. Alternative methods to ensure a water-tight seal may be used with prior approval. |  |
| All portions of the floor covering shall be the same material. |  |
| 1. **INSULATION** | |
| The vehicle body shall be fully insulated in the roof and all body panels to deaden sound and reduce vibrations and heat transfers. |  |
| The sidewalls of the vehicle shall be fully insulated with fiberglass or other fire-resistant insulation material to a minimum R-value of 6. |  |
| The roof of the vehicle shall be fully insulated with fiberglass or other fire-resistant insulation material to a minimum R-value of 5. |  |
| 1. **EXTERIOR WIDTH** | |
| The width of the vehicle shall be 94" minimum and 96" maximum, excluding outside mirrors, rear fenders and rear bumper. |  |
| 1. **AXLES** | |
| The front and rear axles of the vehicle shall have the minimum weight ratings of 4,600 and 7,800 pounds respectively. The axles shall be of sufficient strength to carry without damage their share of the actual weight of the vehicle plus anticipated loads and stresses. |  |
| 1. **FRAME** | |
| Frame shall be of steel construction and shall be designed to correspond with or exceed standard practice performance criteria for vehicles of this type and for the vehicle weight and anticipated loads and stresses. Gross vehicle weight (GVW) rating shall be a minimum of 11,500 pounds. |  |
| 1. **SUSPENSION SYSTEM** | |
| Heavy-duty shock absorbers shall be installed on both the front and rear of the chassis. Springs shall be installed front and rear which are of sufficient strength to carry without damage their share of the actual weight of the vehicle plus anticipated loads and stresses. The suspension shall be strengthened as needed to prevent any listing or leaning to the side of the vehicle on which the lift is located. |  |
| The vehicle shall have a Mor/Ryde RS suspension system (or approved equal) |  |
| 1. **WHEELBASE** | |
| The wheelbase length of the vehicle shall be a minimum of 138 inches. |  |
| 1. **ENGINE** | |
| The vehicle shall be equipped with an “Premium” gasoline engine. The engine shall have a minimum of eight cylinders and meet or exceed a displacement of 445 cubic inches (7.3 liters). | **Engine Displacement (cubic inches or liters) \_\_\_\_\_\_\_\_\_\_\_** |
| The engine shall be of heavy-duty design and construction. The engine shall be equipped with oil bath or replaceable element dry type air cleaner and replaceable element full flow oil filter. |  |
| 1. **TRANSMISSION** | |
| The vehicle shall be equipped with a minimum heavy-duty automatic transmission with an external oil cooler. |  |
| 1. **COOLING SYSTEM** | |
| The cooling system will be of a capacity ample to keep the engine within a temperature range which will ensure continuous operation and peak performance under all operating conditions. The cooling system fan and water pump shall be of heavy-duty type. The cooling system shall be protected with permanent type antifreeze to twenty-five degrees below zero Fahrenheit. |  |
| 1. **EXHAUST SYSTEM** | |
| The vehicle shall be equipped with a heavy-duty truck type muffler and exhaust system and shall exit roadside (driver side of the vehicle). To facilitate this, the spare tire will be shipped loose. |  |
| 1. **BRAKES** | |
| The service brakes shall be anti-lock power Hydraulic brakes. Service brakes shall be provided on both front and rear wheels and shall be of the self-adjusting hydraulic type. Service brakes shall be disc type. |  |
| A heavy-duty parking brake shall also be provided. |  |
| 1. **STEERING GEAR** | |
| Power steering shall be provided on the vehicle with tilt, multi-position steering wheel and speed (cruise) control. |  |
| 1. **HORNS** | |
| The vehicle shall be equipped with dual horns or a single horn to achieve a 111 decibel rating at 32 feet |  |
| 1. **INSTRUMENT PANEL** | |
| The driver's instrument panel shall include, at least, a speedometer, odometer, upper beam headlight indicator, left and right turn signal indicator, fuel gauge, and ammeter or voltmeter. The instrument panel shall also contain either gauges or warning lights indicating oil pressure, brake system pressure and water temperature. The instrument panel shall be adequately lighted. The chassis manufacturer shall provide and cover instrument panel with plastic covering or equivalent in order to provide protection from precipitation from time of manufacture until body is mounted. |  |
| 1. **BACK-UP ALARM AND CAMERA** | |
| The vehicle shall have an audible, repetitive alarm automatically sounding when the vehicle is moving backwards. The back-up alarm shall be mounted toward the rearmost part of the vehicle and protected from water and road spray.  *Backup Camera:* Back Up Camera Rosco Model STSK4750B with 7" diagonal LCD Color Monitor (or approved equal). Standard Location is either driver overhead, rearview mirror or dash/console**.** Camera and monitor must show the area behind the vehicle when the vehicle is in reverse. |  |
| 1. **AM/FM RADIO with BLUETOOTH** | |
| Respondent shall provide an AM/FM stereo radio with Bluetooth, with a digital clock installed by the chassis or bus manufacturer and mounted on the appropriate location of the instrument panel, with five (5) speakers (one driver area, two behind driver area, two rear). |  |
| 1. **ELECTRICAL SYSTEM** | |
| The electrical system shall be the 12 volt type. All electrical components shall be designed to function effectively under both normal driving conditions and conditions of high amperage requirements at idle speeds. |  |
| 1. **TWELVE VOLT POWER OUTLET (CIGAR LIGHTER)** | |
| Respondent shall provide two 12 Volt power outlets. |  |
| 1. **ALTERNATOR** | |
| The generating system shall be the OEM standard alternating current type (heavy duty) with alternator capacity minimum 240 amps |  |
| 1. **BATTERY SYSTEM** | |
| Dual batteries with a minimum capacity of each battery of not less than 650 CCA. | **Battery Capacity (CCA capacity) \_\_\_\_\_\_\_\_\_** |
| The batteries shall be mounted in an accessible location and shall not be mounted in the passenger compartment of the vehicle. The Ford OEM battery shall remain under the hood in the OEM location. The second battery shall be located in a skirt mounted battery compartment with hinged door for easy accessibility from outside the bus. Under body rail mounted batteries will not be accepted. |  |
| Battery system cables, charging, service life, venting, storage, voltage drop, and installation shall follow SAE recommended practices as well as the criteria outlined in CFR49 393.30. |  |
| 1. **WIRING** | |
| All wiring shall be loomed, properly insulated and, as necessary shall be  held in place with insulated clamps of rubber or plastic coated to prevent cutting  insulation. Wiring shall be color, functioned and/or number coded. A spare wire of nominal size and rating shall be included in the main harness going to the rear of the bus. The wiring system shall in all respects meet the criteria set forth in CFR49 393.27 for specifications, 393.28 for protection, 393.29 for ground systems, 393.32 for detachable electrical connections and 393.33 for wiring installation. |  |
| 1. **LIGHTS, SIGNALS AND LIGHTING** | |
| The interior of the vehicle shall be adequately illuminated, and overhead lighting fixtures shall be arranged in such a manner that adequate lighting is provided at the reading plane of the passengers. The stepwell and doorway immediately adjacent to the driver shall have, when the door is open, at least 2 foot-candles of illumination measured on the step tread. |  |
| All interior and exterior lighting (except for the chassis OEM lights) will be LED. Interior LED lights shall provide a minimum 12-foot candle illumination on a one square foot plane, measured at seat level (except as noted). |  |
| The stepwell and doorway lighting shall be flush mounted or shielded with clear lens. |  |
| The other stepwells and doorways, including the doorway in which the lift is installed, shall have, at all times, at least 2 foot-candles of illumination measured on the step tread, or lift, when deployed at the vehicle floor level. |  |
| The vehicle doorways, including the doorway in which the lift is installed, shall have outside lighting which, when the door is open, provide at least 1 foot-candle of illumination on the street surface for a distance of 3 feet perpendicular to all points on the bottom step tread outer edge. Such light(s) shall be located below window level and shielded to protect the eyes of entering and exiting passengers. |  |
| The instrument panel shall be indirectly lighted. |  |
| Headlights with high and low beam, turn signal lights, rear brake lights, and rear back-  up light shall be provided. A four-way hazard warning flasher shall be connected with the turn signal lights. Roof marker lights shall be provided. |  |
| The rear stop, tail and turn lights shall be flush mounted into the rear body of the bus. The assemblies shall be separate. |  |
| *Center High Mount Brake Light*: In the back rear of the vehicle. Mounted above the rear emergency exit door (or optional rear window exit). |  |
| *Rear Amber Flashing Lights*: There shall be two (2) lights that are separate from the turn signals and shall be mounted on the upper rear corners of the rear cap. With engine on, rear amber lights and all other exterior hazard lights (front turn, rear turn, side turns, aux. upper lights) to flash with Ford OEM Hazard switch ON, or with Ford OEM Hazard switch OFF will automatically flash when lift door and/or entry doors are open then turn off when both doors are closed. With engine off and the Ford OEM Hazard switch ON and the entrance door or lift door is open, only the front and rear turn signal lights will flash.  This will provide for automatic operation of all lights when the lift or entrance doors are open and then shut off when closed. Pressing the Ford Hazard switch to ON will also allow the driver to manually activate all lights with doors closed and activate the standard FORD OEM visual & audible indicators that the Hazards are ON to remind the driver to turn flashers off. |  |
| *Additional Side Turn Signals*: Actuated by standard turn-signals. |  |
| 1. **BUMPER AND TOW HOOKS** | |
| Front bumper to be OEM standard. One piece heavy duty construction. Finished either chromed painted or powder coated black, white or grey. |  |
| An energy absorbing rear bumper of the HELP (Romeo Rim, Transpec) type, or approved equal, shall be provided on the vehicle, in place of the standard rear bumper. Rear tow hooks or tow eyes, with the hooks or eyes and their mountings of sufficient strength to tow the vehicle, must be provided on the vehicle. |  |
| 1. **HEATING SYSTEM** | |
| The heating system shall consist of at least one front and one rear high output unit type heater. The front heater shall be the chassis O.E.M. front unit located in the driver's area. The area heater shall have a minimum 60,000 BTU/Hr. rating and be located in the rear half of the passenger's compartment. All heaters shall have easily accessible driver controls to adjust temperature or heat output level and to turn the system on or off. All supplemental heater hoses shall be manufactured of EPDM rubber. Chassis supplied hoses shall remain OEM. |  |
| The heating system provided shall be capable of maintaining a minimum temperature of 60 degrees Fahrenheit throughout the driver and passenger areas of the vehicle at an outside ambient temperature of zero (0) Fahrenheit under normal operating conditions. |  |
| Temperature-controlled heat shall be provided at the driver's feet. |  |
| The rear heater (and any others) shall be installed in a parallel configuration with a heater control valve accessible to the driver. All hoses to and from the rear heater shall be supported by insulated clamps every 18 inches. Heater and associated hardware shall meet SAE standards and practices, and shall meet the applicable criteria of CFR49 393.77 |  |
| 1. **AIR CONDITIONER** | |
| Air conditioning equipment shall be adequately sized for proper cooling during stop-and-go operation of the vehicle. Air conditioning equipment shall be capable of providing at least minimal operation at vehicle idling speeds. The air conditioning system shall be thermostatically controlled and shall have condenser fans capable of operating at vehicle idling speeds. |  |
| The evaporator fans shall be of adequate size. The air conditioning system shall be capable of maintaining a temperature of 75 degrees Fahrenheit or less throughout the driver and passenger compartments of the vehicle with an outside ambient temperature of 95 degrees Fahrenheit and 50 percent relative humidity under normal operating conditions. The air conditioning equipment shall provide for cool air distribution for the full length of the passenger compartment. A complete description of the make and capacity (in BTU's) of the air conditioning system shall be provided with the proposal. |  |
| The air conditioning system shall consist of: |  |
| * the chassis O.E.M. front air conditioning unit |  |
| * a rear ceiling or rear wall mounted unit |  |
| * dual compressors meeting the following requirement of BTU/Hour Minimum Rating 60,000 |  |
| The Respondent shall provide descriptive material of the air conditioning equipment proposed to be furnished as part of the proposal. |  |
| 1. **FAST IDLE SOLENOID** | |
| A fast idle solenoid or equivalent system shall be installed on the vehicle. The system must permit higher engine RPM's while the vehicle is at rest without need of the driver to continuously depress the accelerator pedal. With transmission in Park, fast idle will automatically increase RPMs to a pre-set level when a low voltage condition is detected. |  |
| 1. **INTERIOR MIRROR** | |
| A 6” x 16” interior passenger compartment viewing mirror shall be provided. |  |
| 1. **EXTERIOR MIRRORS** | |
| Two powered, heated side-mounted exterior rear-view mirrors shall be provided, one on the left and one on the right side of the vehicle opposite the driver. The exterior rear-view mirrors shall be firmly supported and set to give a clear view past the left and right corners of the vehicle. The exterior mirrors support(s) must be of sufficient length to allow a clear view along the entire side of the vehicle. Each exterior rear view mirror shall be dual lens. The top lens shall be a flat mirror, measuring at least 6 inches by 9 inches. The bottom lens shall be a convex mirror measuring at least 6 inches by 3 inches. Mirror frames and supports shall have a corrosion-resistant finish. Mirrors shall meet SAE recommended standards and CFR49 393.80 as appropriate. |  |
| 1. **FRONT SERVICE ENTRANCE** | |
| A front service entrance shall be provided on the right side (i.e., curb side) of the vehicle directly opposite the driver's seat. The front service door shall have a minimum horizontal clear opening of 32.0 inches (measured between the opened door panels) and a minimum vertical opening of 75 inches. The sides of the front service entrance shall be vertical and parallel to each other. |  |
| The front service door shall be closed by means of a driver-actuated power-operated door control. |  |
| The front service entrance shall have at least two interior steps below floor level. Each step shall be at least 24 inches wide and have at least 9 inch tread depth at any location on the step. The first step height from the street level shall not be more than 12 inches from the ground as measured to top of step tread when the vehicle is empty except for seats and normal equipment. |  |
| The tread surfaces on the front service entrance steps shall be covered with slip resistant floor covering: Minimum 2.2 mm (.08 inches) thick and shall in either wet or dry conditions provide a coefficient of friction that is greater than or equal to .8. Examples are Altro Transflor VM20, or Tarabus GerFlor flooring or approved equivalent. All joints shall be of the butt cut type and heat-welded in accordance with the floor manufacturer's recommended procedure. |  |
| The covering shall be permanently bonded to the metal step surfaces and shall be properly sealed to prevent moisture from getting underneath. Step edges shall be marked in yellow. This includes the first step into the vehicle as well as the top of the last step at the intersection with the vehicle floor. |  |
| The outer edge of the front service door shall be weather-stripped, as necessary, to provide a water-tight seal around the entire entryway including all steps. Suitable padding, to protect the heads of boarding or exiting passengers, shall be installed on the inside of the vehicle on the lintel of the front service entrance doorway. Any "gap" between the lowest part of the door(s) and the mating step surface greater than 3/8" shall be sealed by a vinyl threshold seal or brush comb. |  |
| 1. **DRIVER ENTRANCE DOOR** | |
| A driver entrance door will be provided on the left side (i.e., driver's side) of the vehicle adjacent to the driver's seat. The entrance shall be hinged and of the sedan type and it shall be equipped with a key lock built into the door that may be locked to prevent opening of the door. The lock shall be such that it may be unlocked with the key from the outside. |  |
| An armrest on the left side must be provided for the driver. This armrest may be either attached to the left side of the vehicle or door or may be attached to the driver's seat. |  |
| 1. **WINDSHIELD** | |
| Tinted windshield with two speed electric windshield wipers with intermittent feature and windshield washers. |  |
| 1. **DRIVER WINDOWS** | |
| The driver shall be provided with an openable window on the left side. The driver's side window must be equipped with a locking device on the inside, unless it is the type which is rolled (i.e., cranked) up and down from the inside. If a driver entrance door is provided, the driver's side window shall be mounted in the driver entrance door. |  |
| The driver also shall be provided with one or two windows located in the right side of the vehicle between the forward side of the front service entrance and the dashboard or windshield. The window(s) shall provide improved viewing to the right of the vehicle when the driver is seated in the driver seat. The total area of the window glass (the area of one window is only one window is provided or the sum of the areas if two are provided) shall be a minimum of 290 square inches. |  |
| 1. **WINDOWS** | |
| Side passenger windows shall be provided throughout the passenger compartment. All side passenger windows must be of "T" type. All “T” type windows shall be mounted top venting. Only exception would be for any required smaller body fill windows where full size windows could not be provided. These windows can have solid glass. Only one such type window can be used per side. |  |
| All passenger service entrance doors shall contain windows of the fixed type. |  |
| All window glass shall be of the safety type and shall be tinted. All window glass shall conform to Federal Motor Vehicle Safety Standard No. 205. |  |
| At least one (1) window on each side will be an emergency exit window meeting FMVSS 217 requirement. |  |
| 1. **REAR EMERGENCY EXIT DOOR** | |
| Provide a rear emergency exit door 35" x 56” or larger with upper and lower window. The door shall be marked with interior and exterior “Emergency Door” or “Emergency Exit” signage with minimum 1" letters either applied above the door or on the upper most part of the top door window. The door shall also be identified with an interior red light. The light shall be mounted above the door and lighted at all times when the engine is running. The rear door shall include a lock warning system that will activate a light and buzzer in the driver’s area to alert the driver that the door is locked whenever the ignition is in the run position. The door lock warning system shall be independent from the rear emergency exit door ajar warning. |  |
| 1. **FUEL TANK** | |
| A fuel tank(s) with a total capacity of not less than 40 gallons shall be provided. | **Fuel Tank Capacity (gallons)**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| The fuel tank(s) shall be of heavy-duty construction, adequately protected, and shall be mounted outside of the passenger compartment of the vehicle. |  |
| 1. **DRIVE SHAFT GUARD** | |
| Each drive shaft shall be equipped with a protective metal guard or guards to prevent whipping through the floor or dropping to the ground in the event of a tube or universal joint failure or if the drive shaft breaks. |  |
| 1. **SUN VISOR** | |
| The vehicle shall be equipped with a sun visor on the driver's side of the vehicle. |  |
| 1. **UNDERCOATING** | |
| The Respondent shall undercoat the entire underside of the vehicle body including undersides of fenders with fire-resistant asphalt base, rubber base, water base or equivalent undercoating material applied by spray method in order to seal, deaden sound, insulate and prevent oxidation. The undercoating material shall be applied in addition to the rustproofing compound or sealant and shall be applied after the rustproofing procedure has been completed. Undercoating shall not be applied to those areas of the OEM chassis where undercoating is not recommended. Front fenders shall also be undercoated. |  |
| 1. **PAINTING** | |
| All exposed metal surfaces, except aluminum, stainless steel and chrome must be painted. |  |
| 1. **EXTERIOR PAINT** | |
| The exterior color shall be white or off-white. |  |
| 1. **INTERIOR PAINT** | |
| All interior metal surfaces (except stainless steel, bright aluminum or chrome) which require maintaining shall be painted the same color. This includes the exposed interior metal surfaces, if any, of the side and rear doors. The interior color shall be color-keyed to the vehicle's exterior or interior color and shall harmonize with the color of the roof liner and any side paneling or other covering. |  |
| 1. **TIRES AND WHEELS** | |
| All tires shall be steel-belted radial tires. Dual or tandem rear wheels shall be provided on the vehicle. The vehicle shall be equipped with two front and four rear wheels and tires. A spare steel-belted radial tire and wheel shall be provided (shipped loose). All wheels shall be either chromed or painted to match the exterior color of the body. Heavy duty rubber (or approved composite material) mud flaps shall be provided on the front and rear tires. |  |
| All tires and wheels, including the spare, shall be of the same type and size and shall be interchangeable. Tires and wheels shall be properly balanced and aligned. |  |
| Caster/camber kit and alignment documents to be provided with each bus. |  |
| 1. **EMERGENCY EQUIPMENT** | |
| The following equipment shall be provided on the vehicle. |  |
| * *Warning Devices*: The vehicle shall be equipped with a set of three (3) reflecting warning devices, in a latched container, meeting the requirements of FMVSS 571.125 |  |
| * *Fire Extinguisher*: One dry chemical fire extinguisher of at least five (5) pound capacity shall be furnished and shall be bracket mounted and easily accessible to the driver. The extinguisher shall be a multi-purpose A-B-C type. |  |
| * *First Aid Kit*: A first aid kit with a minimum of 16 different units (each unit shall be of a different type from every other unit) shall be furnished and mounted in a location easily accessible to the driver. The box or container shall not be considered as one of the 16 units. |  |
| * *OSHA Approved Body Fluid Clean Up Kit.* |  |
| * *Seat Belt Cutter* |  |
| All equipment listed above, shall be firmly secured inside the vehicle to prevent any movement by them while the vehicle is in motion. The mounted location of any of the above equipment shall not interfere with the driver's or passengers' limbs or placement of feet or interfere with movement of passengers and/or wheelchairs or other mobility aids within the vehicle. Also, none of the equipment shall be mounted on a door. |  |
| 1. **AISLE** | |
| The aisle will be 16" when measured between the bottom seat cushions but reduced to 14" when measured between arm rests. |  |
| 1. **HEADROOM** | |
| The inside body height of the vehicle from surface of floor covering to ceiling as measured at any point along the longitudinal center line or passenger aisleway shall not be less than 75 inches. If an air conditioning unit is provided, the minimum inside height may be less than 75 inches, as necessary for installation of the rear air conditioning unit, at the extreme rear of the vehicle only. |  |
| 1. **DRIVER'S SEAT** | |
| The driver's seat shall be the fully padded, high-back, contoured bucket type of heavy-duty construction. The driver's seat shall be easily adjusted forward and backward without the use of tools. The seat shall include a fold-up right armrest. |  |
| 1. **DRIVER’S SIDE RUNNING BOARD** | |
| A punched aluminum self-draining running board shall be installed on the driver’s side of the vehicle. The running board shall be of one-piece construction, rattle free, and extend from the rear of the front wheel to the rear of the driver’s door. The minimum useable step depth shall be 8 inches. |  |
| 1. **OVERHEAD STORAGE COMPARTMENT** | |
| A storage area with a hinged, lockable, access door shall be provided in the interior area above the windshield (without destination sign). Storage area door shall open upward, be hinged at the top and have a clip/spring to retain the door in the open position. |  |
| 1. **REGULAR PASSENGER SEATS** | |
| All regular passenger seats shall be forward-facing, mid-back bucket. |  |
| Passenger seats shall be securely fastened to parts of vehicle that support them by means of bolting or other method which allows for their removal by use of common tools (i.e., welding is not acceptable). All passenger seats and supporting frames shall be of heavy-duty construction. |  |
| Seat padding and covering shall be fire-resistant. Passenger seats shall be fully padded and shall be covered with commercial grade vinyl with a minimum weight of 32 ounces per linear yard. |  |
| All seatbacks and cushions in the vehicle shall be of the same color and pattern and shall be color-keyed to the vehicle's exterior color. |  |
| Passenger seat depth shall be at least 16 inches and the seating level at each passenger seat shall be approximately 18 inches, plus or minus 1/2 inch, above the floor. Passenger seats intended to seat two or more passengers abreast shall provide a minimum of 17 1/2 inches per passenger. The type of the seat back cushion at each passenger seat shall be between 32 inches and 38 inches above the floor (tops closer than 32 inches from the floor will not be accepted). The seat back cushion shall come close to the seat bottom cushion, and an interior angle of 97 degrees to 105 degrees shall be maintained. |  |
| Passenger seats shall be arranged such that the unobstructed hip-to-knee room as measured at seat level, which is provided for each, seated passenger shall not be less than 26 inches. (Note, this is the minimal acceptable spacing, greater spacing may be provided.) |  |
| Grab rails shall be provided on seats adjacent to the aisle, including fold away seats. |  |
| Folding, molded armrests shall be provided on all fixed and fold away seats adjacent to an aisle. |  |
| 1. **SEAT BELTS AND SHOULDER HARNESS** | |
| A retractable seat belt and shoulder harness shall be provided at the driver's seat and an underseat automatic retractable seat belt (and shoulder harness where required) at each passenger seating position. All seat belt systems shall be a minimum of 44 inches long when measured, with the belts buckled, from the junction of the belt and seat cushion, around the passenger to the junction of the belt and seat cushion on the other side. |  |
| 1. **TWO (2) 12” SEAT BELT EXTENSIONS** | |
| Two 12" seat belt extenders per vehicle, compatible with existing seat belts |  |
| 1. **MOBILITY AID POSITIONS** | |
| Mobility aid positions are spaces inside the vehicle for transporting persons in wheelchairs or other mobility aids, which are to be provided on vehicles having lifts. Each position shall consist of a usable floor area in which a passenger in a wheelchair or other mobility aid may be positioned and in which a occupant restraint system and a set of securement devices are to be installed. All mobility aid positions shall be designed to secure wheelchairs or other mobility aids in a forward-facing position and shall be flush mounted with the floor. |  |
| Each mobility aid position shall comply with WC18 recommendations. The dimensions of these positions are intended to give adequate room for the final traveling position of the wheelchair or other mobility aid and its occupant AND sufficient room for the maneuverability of the wheelchair or other mobility aid into that position. The actual placement of the securement devices within the mobility aid position is described under "Securement System." |  |
| 1. **FLOOR PLAN** | |
| An example of an acceptable floor plan for this vehicle is included in Section 3.2 of this Attachment. Other seating arrangements may be approved if all specifications are met. |  |
| A two-passenger fold away seat shall be installed just forward of the left rear wheelchair tiedown position. |  |
| The vehicle shall have up to two (2) mobility-aid positions with seating for a minimum of eight (8) ambulatory passengers. |  |
| 1. **STANCHIONS, GRAB RAILS AND BARRIER PANELS** | |
| An overhead ceiling-mounted grab rail, placed over one side of the aisle, shall be provided for the full length of the vehicle's passenger aisleway. |  |
| A grab rail shall be provided on each side (on the interior of the entryway) of the front service entrance doorway. Each front entryway grab rail shall be so positioned to permit easy use by passengers to assist them in embarking and debarking the vehicle. Grab rails shall be of minimum one and one-eighth (1 and 1/8) inch outside diameter stainless steel tubing. Grab rails shall not be padded. |  |
| One vertical stanchion as well as barrier panel shall be mounted at the rear of the driver's seat next to the aisle. Another vertical stanchion as well as a barrier panel shall be installed at the rear of the front service entrance stepwell. |  |
| All vertical stanchions shall extend from floor to ceiling or from floor to overhead grab rail. Stanchions shall be of minimum one and one-fourth (1.25) inches outside diameter stainless steel tubing. |  |
| 1. **INTERIOR FREE OF ALL PROJECTIONS** | |
| The interior or the vehicle shall be free of all projections. All sharp edged, protruding fasteners and brackets that could cause injury to passengers or catch hold of clothing shall be covered. |  |
| 1. **INTERIOR WIDTH** | |
| The vehicle shall have a minimum interior width, measured at seat cushion level, of 88 inches. |  |
| 1. **SIGNAGE** | |
| Each vehicle shall contain sign(s) which indicate that seats in the front of the vehicle are priority seats for persons with disabilities, and that other passengers should make such seats available to those who wish to use them. At least one set of forward-facing seats shall be so designated. Each securement location shall have a sign designating it as such. |  |
| Characters on such signs shall have a width-to-height ratio between 3:5 and 1:1 and a stroke width-to-height between 1:5 and 1:10, with a minimum character height (using an upper case "X") of 5/8 inch, with "wide" spacing (generally, the space between letters shall be 1/16 the height of upper case letters), and shall contrast with the background either light-on-dark or dark-on-light. |  |
| 1. **VEHICLE CLEARANCE STICKER** | |
| A vehicle clearance sticker indicating the maximum height of the vehicle shall be provided and located in easy view of the driver. |  |
| 1. **MOBILITY AID SYSTEM** | |
| A mobility aid system for users of wheelchairs or other mobility aids shall be provided on all vehicles. The system shall permit persons to enter and leave the vehicle while in a wheelchair or other mobility aid by means of a vertical lifting platform or lift and also provide for the safe transportation these persons inside the vehicle. |  |
| The components of the mobility aid system shall include the following: |  |
| * Lift |  |
| * Securement system |  |
| * Occupant restraint system |  |
| * Any and all modifications required to the exterior and interior of the vehicle to provide a complete, functioning system. |  |
| * Mobility Access (Lift) Door(s): Door Opening. |  |
| All parts shall be new. All necessary servicing and adjustments shall be made on the equipment prior to delivery of the vehicles. All equipment shall be ready for immediate and continuous operation upon delivery of the vehicle. All exposed metal surfaces shall be painted or shall be corrosion-resistant. All lift components (including wiring) located on the underside of the vehicle shall be concealed but accessible for maintenance purposes. All interior wiring shall be concealed. |  |
| 1. **WHEELCHAIR LIFT** | |
| An automatic wheelchair lift will be located on the right (curb) side of the vehicle behind the rear axle and will conform to the specifications as outlined in the Americans with Disabilities Act (ADA) regulations Subpart B - Buses, Vans and Systems, 38.23 Mobility Aid accessibility (b) Vehicle Lift, pages 45757 - 45758. |  |
| The lift controls shall be interlocked with the vehicle brakes, transmission, or door, or shall provide other appropriate mechanisms or systems, to ensure that the vehicle cannot be moved when the lift is not stowed, or if outside lift doors are open, so the lift cannot be deployed unless the interlocks or systems are engaged. The lift shall deploy to all levels (i.e., ground, curb and intermediate positions) normally encountered in the operating environment. Where provided, each control for deploying, lowering, raising and stowing the lift and lowering the roll-off barrier shall be of a momentary contact type requiring continuous manual pressure by the operator. |  |
| The wheelchair lift must conform to FMVSS #403 and 404. |  |
| Lift shall be rated at 1,000 # lifting capacity. Braun NCL1000IB3454HB-2 or approved equivalent. |  |
| The control unit shall be a box with a function switch (for the folding and unfolding of the platform), an operating switch (for the raising and lowering of the platform), or a combination thereof. The control unit may also have a power switch. The controls for the operation of the lift shall be designed for both portable and stationary operation. The control unit shall be supplied with a flexible cut resistant control cable of sufficient length to allow the lift operator to have a hand on the wheelchair or other mobility aid, and control the lift platform through all operations, and allow the lift operator to be on the vehicle during the lift operation. |  |
| The control unit shall have simple instructions placed in an easily read location while the operator is standing near the lift with the controls in hand, they should be able to clearly read the instructions and cautions. |  |
| The method of hanging the control unit, when not in use, out of the way of the lowered platform, shall be provided. The hanger provision shall be easily reached by the lift attendant while standing at the ground level. Control switch may be either toggle, rocker or push-button type and shall be spring loaded to automatically return to the off position when pressure is released. |  |
| The Respondent shall provide descriptive material of the lift equipment proposed to be furnished as part of the proposal. |  |
| 1. **DOORS, STEPS AND THRESHOLDS** | |
| The lift shall be installed in a separate entryway exclusively for the lift. All components of the lift mechanism shall be located in the vehicle or shall retract inside the vehicle such that, when the doors for the opening are closed, the side of the vehicle will present a smooth surface. The lift shall not contact the opened door and/or door frame during deployment and normal operation. |  |
| The opening shall have two doors of the type hinged at the side which fully seal the body opening when closed. |  |
| Provisions shall be made for fastening the door or doors in a wide open position. In addition, door posts, headers and all floor sections around the opening shall be reinforced such that the strength and support of the body at the opening is at least equivalent to that provided on the same type of vehicle without such an opening. A locking device shall be provided on the lift opening doors which prevents opening the doors from the outside when locked. |  |
| The opening for the lift shall have a minimum vertical clear opening measured form the lift platform at the vehicle floor level of 68 inches. No portion of the lift mechanism shall encroach upon the minimum vertical clear opening. Suitable padding, to protect the heads of wheelchair or other mobility aid users, shall be installed on the inside vehicle on the lintel of the doorway or the lift's crossarm, whichever is lower. A light shall be installed inside the vehicle over the lift area. |  |
| 1. **PRIORITY SEATING SIGNS** | |
| Shall conform to the specifications outlined in the ADA regulations Subpart B - Buses, Vans and Systems, 38.27 Priority seating signs, page 45759. |  |
| 1. **INTERIOR CIRCULATION, HANDRAILS AND STANCHIONS** | |
| Shall conform to the specifications outlined in the ADA regulations Subpart B - Buses, Vans and Systems, 38.29 Interior Circulation, handrails and stanchions, pages 45759 - 45760. |  |
| 1. **LIGHTING** | |
| Shall conform to the specifications outlined in the ADA regulations Subpart B - Buses, Vans and Systems, 38.31 Lighting, pages 45760. |  |
| 1. **SECUREMENT SYSTEM** | |
| At each mobility aid position a securement system shall be provided to securely hold a wheelchair or other mobility aid in the position. This system shall be composed of a complete belt-track system Q-Straint Model # Q-10010 QRT-360 Retractors with L-Track Fittings and Q-10007 for L-Track kit with Q8-6326-A1 Retractable Standard Lap & Shoulder Belt Assembly. Systems by other manufacturers may be accepted with prior approval. |  |
| The securement system shall be placed as near to the accessible entrance as practicable and shall have a clear floor area that meets WC18 recommendations. Such space shall adjoin, and may overlap, an access path. Not more than 6 inches of the required clear floor space may be accommodated for footrests under another seat provided there is a minimum of 9 inches from the floor to the lowest part of the seat overhanging the space. |  |
| At each mobility aid position a four-point attachment system shall be used consisting of four separate belts with all necessary buckles, hardware, fittings and other parts to make it a complete securement system. |  |
| The securement system and their attachments to the vehicle shall restrain a force in the forward longitudinal direction of up to 2,500 pounds per securement leg and a minimum of 5,000 pounds for each mobility aid. In addition, the securement system shall meet the "30mph/20g standard" developed at the University of Michigan. Test results verifying these requirements shall be available and, if requested, a copy shall be submitted. |  |
| A minimum of two tracks each of sufficient length for proper attachment and positioning of the belts shall be placed parallel to each other and perpendicular to the direction in which the MAP faces.  The side-to-side L-Track front to rear anchorage measurements shall be a minimum of 52” as per WC18 recommendation and securement suppliers recommended installation instructions. 54 inches is desirable if possible, and the length of track shall be NO less than 30” as to accommodate larger mobility devices. If there are 2 WC positions, one behind the other, the center run of track may share the securement of both chairs. In the event both locations cannot accommodate the 54 inch recommended spacing, the second location may be 48 to 52 inches in length and should be noted as such in the bid. Largest location should be closest to the lift. |  |
| The tracks shall be securely flush mounted to the floor of the vehicle in such a way as to insure the track will not pull away from the van floor or shift position under anticipated loads. The flush-mounted tracks shall have no gaps between the ends or sides of the track and the floor covering. The vehicle floor anchorage for the securement system shall be capable of withstanding a tensile load of 6,000 lbs. applied at a 45 degree angle at each track or floor plate slot when tested with the applicable track fitting. Test results to verify this requirement shall be available and, if requested, a copy shall be submitted to INDOT. |  |
| When the wheelchair or mobility aid is secured in accordance with manufacturer's instructions, the securement system shall limit the movement of an occupied wheelchair or mobility aid to no more than 2 inches in any direction under normal vehicle operating conditions. |  |
| In addition, two storage pouches shall be provided to store the straps and buckles off the floor when they are not in use. The stored straps and the securement tracks shall not interfere with passenger movement or sitting space, shall not present any hazardous condition, shall be reasonably protected from vandalism, and shall be readily accessed when needed for use. |  |
| Q-Straint Q5-8522 or approved equal. One storage pouch per each wheelchair tiedown position. |  |
| The Respondent shall provide with each vehicle upon delivery a pamphlet, brochure or similar literature describing (and instructing) the use of the securement system. |  |
| The Respondent shall submit with the proposal a description, in detail, with supporting drawings (may be clear hand-drawn sketches) and literature showing the type and location of the securement system to be furnished. |  |
| 1. **WEBBING LOOPS** | |
| Q-Straint Q5-7580, Sure-Lok FE-200750 or approved equal. To assist with securement of electric wheelchairs. Four webbing loops per each wheelchair position. |  |
| 1. **OCCUPANT RESTRAINT SYSTEM** | |
| A restraint system shall be provided for the occupant of a wheelchair or other mobility aid at each securement position. |  |
| The occupant restraint system shall be a seat belt and shoulder harness assembly, complying with all applicable provisions of 49 CFR Part 571, attached to the floor or side of the vehicle. A retractor shall be provided to keep the belt webbing and straps off the floor when the belt is not in use. |  |
| The Respondent shall provide descriptive material of the occupant restraint system to be furnished as part of the proposal. |  |
| 1. **SERVICE POLICY AND WARRANTY** | |
| The successful Respondent shall furnish with each vehicle the manufacturer's owner service policy and warranty for the vehicle body, the vehicle chassis, and all additional equipment. |  |
| Lift warranty (parts and labor) shall be minimum complete system three (3) years or 10,000 cycles. For certain powertrain parts (cable, cylinder, flow control, gear box, motor, pump, hydraulic hose and fittings) shall be warranted for 5 years or 15,000 cycles. |  |
| The owner service policies and warranties shall be recognized and accepted by local authorized service representatives. |  |
| The vehicle warranty shall provide that, at a minimum, all body repairs needed due to factory defects shall be furnished and installed promptly without charge by authorized service representatives within 36 months or 36,000 miles after final delivery of the vehicle.   * OEM Warranty for chassis – 3 years/36,000 miles * OEM Warranty for transmission – 5 years/100,000 miles/4,000 engine hours * OEM Warranty Corrosion Perforation – 5 years/unlimited mileage * Tires – standard manufacturer’s warranty |  |
| Air conditioning and seats shall be covered by a 12 month or standard manufacturer’s warranty providing that, at a minimum, all replacement parts and repairs needed due to defects in material or workmanship shall be provided without charge. |  |
| Other equipment (safety interlock, backup warning camera, etc.) shall include standard manufacturer's warranty. |  |
| 1. **COMPLIANCE WITH OEM** | |
| Any modifications made by the body manufacturer shall comply with the OEM chassis manufacturer’s specifications and requirements. For example, the Ford “Qualified Vehicle Modifier" program. |  |

### Specification Compliance Checklist - Large Transit Vehicle

In the yellow shaded boxes, please confirm the Respondent meets each Vehicle Specification by adding a “Yes” or “No”, unless otherwise specified. Please refer to the RFP for how to submit questions or concerns about any of the specifications, or to request an exception to the specifications.

| **Large Transit Vehicle Specification** | **Meets Specification? (Yes/No Unless Otherwise Specified)** |
| --- | --- |
| 1. **BODY AND CHASSIS REQUIREMENTS** | |
| This vehicle shall be of the "body on chassis" type and will involve construction of a bus body on a heavy duty cut-away van chassis. The vehicle body shall be manufactured by a body manufacturer for transit application, not "converted" or "modified" to a transit vehicle from a sports van, passenger van or wagon, delivery vehicle, school bus, recreational vehicle or similar vehicle. Body construction shall be conventional type (panels on structural metal frames) as described below. |  |
| 1. **BODY CONSTRUCTION** | |
| Structural body members shall be all metal. The metal used in construction of the vehicle body shall be prime commercial quality steel (18 gauge minimum). All other metal shall be zinc-coated steel, aluminum-coated steel, stainless steel, galvanized steel, aluminum or aluminum alloy. |  |
| Fiberglass may be used for the construction of the exterior panels ("outer skin") of the body/or the roof "cap") as long as they are securely fastened to metal interior structural members, as specified, and conform to all applicable Federal Motor Vehicle Safety Standards (FMVSS). |  |
| The body structure shall be adequately reinforced at all points and corners where stress concentrations may occur, to adequately carry required loads and withstand road shock. The side and end forming shall be so designed and constructed that they will carry their share of the stresses imposed without damage and absorb excessive impacts with as little damage as is practical. |  |
| Adequate reinforcement shall be provided around all doors, windows and other openings in order to transfer stresses around these openings. |  |
| All posts in body side and roof sections shall be of durable channel or box construction securely fastened to the underframe structure so that the entire frame shall act as one unit without any movement at the joinings. The end posts shall be designed to resist shear. Joints shall be rigid. |  |
| A complete description of the frame, including a sketch, showing size, type, location, how frame is attached to chassis, etc. of frame members shall be submitted. |  |
| The body shall be of sufficient strength to support the entire weight of the fully-loaded vehicle on its top or side, if overturned. A copy of the FMVSS 220 roll over protection test results shall be available and submitted if requested |  |
| All interior ceiling and wall panels, shall be composed of a uniform appearing, easily cleanable, scuff-resistant material, similar to molded or sheet fiberglass, fiberglass reinforced panels, vinyl-clad metal sheeting, or painted metal sheeting. All interior panels shall be riveted, welded, or otherwise fastened to body frame. Standard vinyl covered plywood shall be used in the driver area wall panels, rear air-conditioning bulkhead and wheelchair door header. Carpeting used as a roof, side, or floor covering will not be allowed, except with prior approval. Exterior body seams shall be constructed in such a manner as to shed water. |  |
| All exterior joints and seams shall be protected by the application of a caulking compound. The body shall be sealed and made tight to prevent entrance of dust or moisture into passenger and driver compartments. All nuts, bolts, clips, washers, clamps, and like fasteners shall be zinc or cadmium plates, phosphate coated or stainless steel to prevent corrosion. Exterior body panels shall be securely riveted, welded or fastened in place. |  |
| The vehicle body shall be attached to the chassis frame in such a manner as to prevent shifting or separation of the body from the chassis under severe operating conditions. |  |
| 1. **FLOOR** | |
| The floor shall be metal sheeting covered with marine grade plywood not less than three-quarters (0.75) inch thick. The sheet metal shall be galvanized, aluminum or otherwise protected to deter rust. |  |
| 1. **FLOOR COVERING** | |
| All floor covering shall be securely bonded to the floor with fasteners and adhesive of waterproof type. All edges of floor covering are to be properly sealed to prevent entrance of moisture that could cause bulging, ply separation and/or material failure. All joints in floor covering shall be the butt cut type and floor covering shall be cemented to the floor to prevent bubbles or blisters which could create a safety hazard. |  |
| The floor covering shall be OEM black, pebble grain floor mat in the driver’s area. |  |
| Slip Resistant Floor covering: Minimum 2.2 mm (.08 inches) thick and shall in either  wet or dry conditions provide a coefficient of friction that is greater than or equal to  .8. Examples are Altro Transflor VM20, or Tarabus GerFlor flooring or approved  equivalent. All joints shall be of the butt cut type and heat-welded in accordance with  the floor manufacturer's recommended procedure. |  |
| A water tight seal shall be provided at the junction of the floor covering with the sidewall panels and wheel housings; and shall be firmly attached to the floor and conform closely to the floor, sidewalls and wheel housings. Alternative methods to ensure a water-tight seal may be used with prior approval. |  |
| All portions of the floor covering shall be the same material. |  |
| 1. **INSULATION** | |
| The vehicle body shall be fully insulated in the roof and all body panels to deaden sound and reduce vibrations and heat transfers. |  |
| The sidewalls of the vehicle shall be fully insulated with fiberglass or other fire-resistant insulation material to a minimum R-value of 6. |  |
| The roof of the vehicle shall be fully insulated with fiberglass or other fire-resistant insulation material to a minimum R-value of 5. |  |
| 1. **EXTERIOR WIDTH** | |
| The width of the vehicle shall not exceed 96 inches at any point, excluding outside mirrors, rear fenders and rear bumper. |  |
| 1. **AXLES** | |
| The front and rear axles of the vehicle shall have the minimum weight ratings of 5,000 and 9,500 pounds respectively. The axles shall be of sufficient strength to carry without damage their share of the actual weight of the vehicle plus anticipated loads and stresses. |  |
| 1. **FRAME** | |
| Frame shall be of steel construction and shall be designed to correspond with or  exceed standard practice performance criteria for vehicles of this type and for the vehicle weight and anticipated loads and stresses. Gross vehicle weight (GVW) rating shall be a minimum of 14,500 pounds. |  |
| 1. **SUSPENSION SYSTEM** | |
| Heavy-duty shock absorbers shall be installed on both the front and rear of the chassis. Springs shall be installed front and rear which are of sufficient strength to carry without damage their share of the actual weight of the vehicle plus anticipated loads and stresses. The suspension shall be strengthened as needed to prevent any listing or leaning to the side of the vehicle on which the lift is located. |  |
| The vehicle shall have a Mor/Ryde “RS” suspension system (or approved equal). |  |
| 1. **WHEELBASE** | |
| The wheelbase length of the vehicle shall be a minimum of 176 inches. |  |
| 1. **ENGINE** | |
| The vehicle shall be equipped with a premium gasoline engine. The engine shall have a minimum of eight cylinders and meet or exceed a displacement of 445 cubic inches (7.3 liters). | **Engine Displacement**  **(cubic inches or liters):**  **\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| The engine shall be of heavy-duty design and construction. The engine shall be equipped with oil bath or replaceable element dry type air cleaner and replaceable element full flow oil filter. |  |
| 1. **TRANSMISSION** | |
| The vehicle shall be equipped with a minimum heavy-duty fully automatic transmission with an external oil cooler. |  |
| 1. **COOLING SYSTEM** | |
| The cooling system will be of a capacity ample to keep the engine within a temperature range which will ensure continuous operation and peak performance under all operating conditions. The cooling system fan and water pump shall be of heavy-duty type. The cooling system shall be protected with permanent type antifreeze to twenty-five degrees below zero Fahrenheit. |  |
| 1. **EXHAUST SYSTEM** | |
| The vehicle shall be equipped with a heavy-duty truck type muffler and exhaust system and shall exit roadside (driver side of the vehicle). To facilitate this, the spare tire will be shipped loose. |  |
| 1. **BRAKES** | |
| The service brakes shall be anti-lock power Hydraulic brakes. Service brakes shall be provided on both front and rear wheels and shall be of the self-adjusting hydraulic type. Service brakes shall be disc type. |  |
| A heavy-duty parking brake shall also be provided. |  |
| 1. **STEERING GEAR** | |
| Power steering shall be provided on the vehicle with tilt, multi-position steering wheel and speed (cruise) control. |  |
| 1. **HORNS** | |
| The vehicle shall be equipped with dual horns or a single horn to achieve a 111 decibel rating at 32 feet. |  |
| 1. **INSTRUMENT PANEL** | |
| The driver's instrument panel shall include, at least, a speedometer, odometer, upper beam headlight indicator, left and right turn signal indicator, fuel gauge, and ammeter or voltmeter. The instrument panel shall also contain either gauges or warning lights indicating oil pressure, brake system pressure and water temperature. The instrument panel shall be adequately lighted. The chassis manufacturer shall provide and cover instrument panel with plastic covering or equivalent in order to provide protection from precipitation from time of manufacture until body is mounted. |  |
| 1. **BACK-UP ALARM AND CAMERA** | |
| The vehicle shall have an audible, repetitive alarm automatically sounding when the vehicle is moving backwards. The back-up alarm shall be mounted toward the rearmost part of the vehicle and protected from water and road spray.  *Backup Camera:* Back Up Camera Rosco Model STSK4750B with 7" diagonal LCD Color Monitor (or approved equal). Standard Location is either driver overhead, rearview mirror or dash/console**.** Camera and monitor must show the area behind the vehicle when the vehicle is in reverse. |  |
| 1. **AM/FM RADIO with BLUETOOTH** | |
| Respondent shall provide an AM/FM stereo radio Bluetooth, with a digital clock installed by the chassis or bus manufacturer and mounted on the appropriate location of the instrument panel with five (5) speakers (one driver area, two behind driver area, two rear). |  |
| 1. **ELECTRICAL SYSTEM** | |
| The electrical system shall be the 12 volt type. All electrical components shall be designed to function effectively under both normal driving conditions and conditions of high amperage requirements at idle speeds. |  |
| 1. **TWELVE VOLT POWER OUTLET (CIGAR LIGHTER)** | |
| Respondent shall provide two 12 Volt power outlets. |  |
| 1. **ALTERNATOR** | |
| The generating system shall be the OEM standard alternating current type (heavy duty) with alternator capacity minimum 240 amps. |  |
| 1. **BATTERY SYSTEM** | |
| Dual batteries with a minimum capacity of each battery of not less than 650 CCA. |  |
| The batteries shall be mounted in an accessible location and shall not be mounted in the passenger compartment of the vehicle. The Ford OEM battery shall remain under the hood in the OEM location. The second battery shall be located in a skirt mounted battery compartment with hinged door for easy accessibility from outside the bus. Under body rail mounted batteries will not be accepted. | **Battery Capacity (CCA capacity):**  **\_\_\_\_\_\_\_\_\_\_\_\_** |
| Battery system cables, charging, service life, venting, storage, voltage drop, and installation shall follow SAE recommended practices as well as the criteria outlined in CFR49 393.30. |  |
| 1. **WIRING** | |
| All wiring shall be loomed, properly insulated and, as necessary shall be  held in place with insulated clamps of rubber or plastic coated to prevent cutting  insulation. Wiring shall be color, functioned and/or number coded. A spare wire of nominal size and rating shall be included in the main harness going to the rear of the bus. The wiring system shall in all respects meet the criteria set forth in CFR49 393.27 for specifications, 393.28 for protection, 393.29 for ground systems, 393.32 for detachable electrical connections and 393.33 for wiring installation. |  |
| 1. **LIGHTS, SIGNALS AND LIGHTING** | |
| The interior of the vehicle shall be adequately illuminated, and overhead lighting fixtures shall be arranged in such a manner that adequate lighting is provided at the reading plane of the passengers. The stepwell and doorway immediately adjacent to the driver shall have, when the door is open, at least 2 foot-candles of illumination measured on the step tread. |  |
| All interior and exterior lighting (except for the chassis OEM lights) will be LED. Interior LED lights shall provide a minimum 12-foot candle illumination on a one square foot plane, measured at seat level (except as noted). |  |
| The stepwell and doorway lighting shall be flush mounted or shielded with clear lens. |  |
| The other stepwells and doorways, including the doorway in which the lift is installed, shall have, at all times, at least 2 foot-candles of illumination measured on the step tread, or lift, when deployed at the vehicle floor level. |  |
| The vehicle doorways, including the doorway in which the lift is installed, shall have outside light(s) which, when the door is open, provide at least 1 foot-candle of illumination on the street surface for a distance of 3 feet perpendicular to all points on the bottom step tread outer edge. Such light(s) shall be located below window level and shielded to protect the eyes of entering and exiting passengers. |  |
| The instrument panel shall be indirectly lighted. |  |
| Headlights with high and low beam, turn signal lights, rear brake lights, and rear backup light shall be provided. A four-way hazard warning flasher shall be connected with the turn signal lights. Roof marker lights shall be provided. |  |
| The rear stop, tail and turn lights shall be flush mounted into the rear body of the bus. The assemblies shall be separate. |  |
| *Center High Mount Brake Light*: In the back rear of the vehicle. Mounted above rear emergency exit door. |  |
| *Rear Amber Flashing Lights*: There shall be two (2) lights that are separate from the turn signals and shall be mounted on the upper rear corners of the rear cap. With engine on, rear amber lights and all other exterior hazard lights (front turn, rear turn, side turns, aux. upper lights) to flash with Ford OEM Hazard switch ON, or with Ford OEM Hazard switch OFF will automatically flash when lift door and/or entry doors are open then turn off when both doors are closed. With engine off and the Ford OEM Hazard switch ON and the entrance door or lift door is open, only the front and rear turn signal lights will flash.  This will provide for automatic operation of all lights when the lift or entrance doors are open and then shut off when closed. Pressing the Ford Hazard switch to ON will also allow the driver to manually activate all lights with doors closed and activate the standard FORD OEM visual & audible indicators that the Hazards are ON to remind the driver to turn flashers off. |  |
| *Additional Side Turn Signals*: Actuated by standard turn-signals |  |
| 1. **BUMPER AND TOW HOOKS** | |
| Front bumper to be OEM standard. One piece heavy duty construction. Finished either chromed painted or powder coated black, white or grey. |  |
| An energy absorbing rear bumper to be Help Type (Romeo Rim, Transpec) or approved equal) shall be provided on the vehicle, in place of the standard rear bumper.  Rear tow hooks or eyes and their mountings of sufficient strength to tow vehicle. |  |
| 1. **HEATING SYSTEM** | |
| The heating system shall consist of at least one front and one rear high output unit type heater. The front heater shall be the chassis O.E.M. front unit located in the driver's area. The area heater shall have a minimum 60,000 BTU/Hr. rating and be located in the rear half of the passenger's compartment. All heaters shall have easily accessible driver controls to adjust temperature or heat output level and to turn the system on or off. All supplemental heater hoses shall be manufactured of EPDM rubber. Chassis supplied hoses shall remain OEM. |  |
| The heating system provided shall be capable of maintaining a minimum temperature of 60 degrees Fahrenheit throughout the driver and passenger areas of the vehicle at an outside ambient temperature of zero (0) Fahrenheit under normal operating conditions. |  |
| Temperature-controlled heat shall be provided at the driver's feet. |  |
| The rear heater (and any others) shall be installed in a parallel configuration with a heater control valve accessible to the driver. All hoses to and from the rear heater shall be supported by insulated clamps every 18 inches. Heater and associated hardware shall meet SAE standards and practices, and shall meet the applicable criteria of CFR49 393.77 |  |
| 1. **AIR CONDITIONER** | |
| Air conditioning equipment shall be adequately sized for proper cooling during stop-and-go operation of the vehicle. Air conditioning equipment shall be capable of providing at least minimal operation at vehicle idling speeds. The air conditioning system shall be thermostatically controlled and shall have condenser fans capable of operating at vehicle idling speeds. |  |
| The evaporator fans shall be of adequate size. The air conditioning system shall be capable of maintaining a temperature of 75 degrees Fahrenheit or less throughout the driver and passenger compartments of the vehicle with an outside ambient temperature of 95 degrees Fahrenheit and 50 percent relative humidity under normal operating conditions. The air conditioning equipment shall provide for cool air distribution for the full length of the passenger compartment. A complete description of the make and capacity (in BTU's) of the air conditioning system shall be provided with the proposal. |  |
| The air conditioning system shall consist of: |  |
| * The chassis O.E.M. front air conditioning unit |  |
| * A rear ceiling or rear wall mounted unit |  |
| * Dual compressors meeting the requirement of BTU/Hour Minimum Rating 70,000 |  |
| The Respondent shall provide descriptive material of the air conditioning equipment proposed to be furnished **as part of the proposal.** |  |
| 1. **FAST IDLE SOLENOID** | |
| A fast idle solenoid or equivalent system shall be installed on the vehicle. The system must permit higher engine RPM's while the vehicle is at rest without need of the driver to continuously depress the accelerator pedal. With transmission in Park,fast idle will automatically increase RPMs to a pre-set level when a low voltage condition is detected. |  |
| 1. **INTERIOR MIRROR** | |
| A 6” x 16” interior passenger compartment viewing mirror shall be provided. |  |
| 1. **EXTERIOR MIRRORS** | |
| Two powered, heated side-mounted exterior rear-view mirrors shall be provided, one on the left and one on the right side of the vehicle opposite the driver. The exterior rear-view mirrors shall be firmly supported and set to give a clear view past the left and right corners of the vehicle. The exterior mirrors support(s) must be of sufficient length to allow a clear view along the entire side of the vehicle. Each exterior rear view mirror shall be dual lens. The top lens shall be a flat mirror, measuring at least 6 inches by 9 inches. The bottom lens shall be a convex mirror measuring at least 6 inches by 3 inches. Mirror frames and supports shall have a corrosion-resistant finish. Mirrors shall meet SAE recommended standards and CFR49 393.80 as appropriate. |  |
| 1. **FRONT SERVICE ENTRANCE** | |
| A front service entrance shall be provided on the right side (i.e., curb side) of the vehicle directly opposite the driver's seat. The front service door shall have a minimum horizontal clear opening of 32.0 inches (measured between the opened door panels) and a minimum vertical opening of 75 inches. The sides of the front service entrance shall be vertical and parallel to each other. |  |
| The front service door shall be closed by means of a driver-actuated power-operated door control. |  |
| The front service entrance shall have at least two interior steps below floor level. Each step shall be at least 24 inches wide and have at least 9 inch tread depth at any location on the step. The first step height from the street level shall not be more than 12 inches from the ground as measured to top of step tread when the vehicle is empty except for seats and normal equipment. |  |
| The tread surfaces on the front service entrance steps shall be covered with slip resistant floor covering: Minimum 2.2 mm (.08 inches) thick and shall in either wet or dry conditions provide a coefficient of friction that is greater than or equal to .8. Examples are Altro Transflor VM20, or Tarabus GerFlor flooring or approved equivalent. All joints shall be of the butt cut type and heat-welded in accordance with the floor manufacturer's recommended procedure. |  |
| The covering shall be permanently bonded to the metal step surfaces and shall be properly sealed to prevent moisture from getting underneath. Step edges shall be marked in yellow. This includes the first step into the vehicle as well as the top of the last step at the intersection with the vehicle floor. |  |
| The outer edge of the front service door shall be weather-stripped, as necessary, to provide a water-tight seal around the entire entryway including all steps. Suitable padding, to protect the heads of boarding or exiting passengers, shall be installed on the inside of the vehicle on the lintel of the front service entrance doorway. Any "gap" between the lowest part of the door(s) and the mating step surface greater than 3/8" shall be sealed by a vinyl threshold seal or brush comb. |  |
| 1. **DRIVER ENTRANCE DOOR** | |
| A driver entrance door will be provided on the left side (i.e., driver's side) of the vehicle adjacent to the driver's seat. The entrance shall be hinged and of the sedan type and it shall be equipped with a key lock built into the door that may be locked to prevent opening of the door. The lock shall be such that it may be unlocked with the key from the outside. |  |
| An armrest on the left side must be provided for the driver. This armrest may be either attached to the left side of the vehicle or door or may be attached to the driver's seat. |  |
| 1. **WINDSHIELD** | |
| Tinted windshield with two speed electric windshield wipers with intermittent feature and windshield washers. |  |
| 1. **DRIVER WINDOWS** | |
| The driver shall be provided with an openable window on the left side. The driver's side window must be equipped with a locking device on the inside, unless it is the type which is rolled (i.e., cranked) up and down from the inside. If a driver entrance door is provided, the driver's side window shall be mounted in the driver entrance door. |  |
| The driver also shall be provided with one or two windows located in the right side of the vehicle between the forward side of the front service entrance and the dashboard or windshield. The window(s) shall provide improved viewing to the right of the vehicle when the driver is seated in the driver seat. The total area of the window glass (the area of one window is only one window is provided or the sum of the areas if two are provided) shall be a minimum of 290 square inches. |  |
| 1. **WINDOWS** | |
| Side passenger windows shall be provided throughout the passenger compartment. All side passenger windows must be of "T" type. All “T” type windows shall be mounted top venting. Only exception would be for any required smaller body fill windows where full size windows could not be provided. These windows can have solid glass. Only one such type window can be used per side. |  |
| All passenger service entrance doors shall contain windows of the fixed type. |  |
| All window glass shall be of the safety type and shall be tinted. All window glass shall conform to Federal Motor Vehicle Safety Standard No. 205. |  |
| At least one (1) window on each side will be an emergency exit window meeting FMVSS 217 requirement. |  |
| 1. **REAR EMERGENCY EXIT DOOR** | |
| Provide a rear emergency exit door 35" x 56" or larger with upper and lower window. The door shall be marked with interior and exterior “Emergency Door” or “Emergency Exit” signage with 1" letters either applied above the door or on the upper most part of the top door window. The door shall also be identified with an interior red light. The light shall be mounted above the door and lighted at all times when the engine is running. The rear door shall include a lock warning system that will activate a light and buzzer in the driver’s area to alert the driver that the door is locked whenever the ignition is in the run position. The door lock warning system shall be independent from the rear emergency exit door ajar warning. |  |
| 1. **FUEL TANK** | |
| A fuel tank(s) with a total capacity of not less than 55 gallons shall be provided. | **Fuel Tank Capacity (gallons)** |
| The fuel tank(s) shall be of heavy-duty construction, adequately protected, and shall be mounted outside of the passenger compartment of the vehicle. |  |
| 1. **DRIVE SHAFT GUARD** | |
| Each drive shaft shall be equipped with a protective metal guard or guards to prevent whipping through the floor or dropping to the ground in the event of a tube or universal joint failure or if the drive shaft breaks. |  |
| 1. **SUN VISOR** | |
| The vehicle shall be equipped with a sun visor on the driver's side of the vehicle. |  |
| 1. **UNDERCOATING** | |
| The Respondent shall undercoat the entire underside of the vehicle body including undersides of fenders with fire-resistant asphalt base, rubber base, water base or equivalent undercoating material applied by spray method in order to seal, deaden sound, insulate and prevent oxidation. The undercoating material shall be applied in addition to the rustproofing compound or sealant and shall be applied after the rustproofing procedure has been completed. . Undercoating shall not be applied to those areas of the OEM chassis where undercoating is not recommended. Front fenders shall also be undercoated. |  |
| 1. **PAINTING** | |
| All exposed metal surfaces, except aluminum and stainless steel and chrome must be painted. |  |
| 1. **EXTERIOR PAINT** | |
| The exterior color shall be white or off-white. |  |
| 1. **INTERIOR PAINT** | |
| All interior metal surfaces (except stainless steel, bright aluminum or chrome) which require maintaining shall be painted the same color. This includes the exposed interior metal surfaces, if any, of the side and rear doors. The interior color shall be color-keyed to the vehicle's exterior or interior color and shall harmonize with the color of the roof liner and any side paneling or other covering. |  |
| 1. **TIRES AND WHEELS** | |
| All tires shall be steel-belted radial tires. Dual or tandem rear wheels shall be provided on the vehicle. The vehicle shall be equipped with two front and four rear wheels and tires. A spare steel-belted radial tire and wheel shall be provided (shipped loose). All wheels shall be either chromed or painted to match the exterior color of the body. Heavy duty rubber (or approved composite material) mud flaps shall be provided on the front and rear tires. |  |
| All tires and wheels, including the spare, shall be of the same type and size and shall be interchangeable. Tires and wheels shall be properly balanced and aligned. |  |
| Caster/camber kit and alignment documents to be provided with each bus. |  |
| 1. **EMERGENCY EQUIPMENT** | |
| The following equipment shall be provided on the vehicle: |  |
| *Warning Devices*: The vehicle shall be equipped with a set of three (3) reflecting warning devices, in a latched container, meeting the requirements of FMVSS 571.125 |  |
| * *Fire Extinguisher*: One dry chemical fire extinguisher of at least five (5) pound capacity shall be furnished and shall be bracket mounted and easily accessible to the driver. The extinguisher shall be a multi-purpose A-B-C type. |  |
| * *First Aid Kit*: A first aid kit with a minimum of 16 different units (each unit shall be of a different type from every other unit) shall be furnished and mounted in a location easily accessible to the driver. The box or container shall not be considered as one of the 16 units |  |
| * OSHA approved body fluid clean up kit. |  |
| * Seat belt cutter |  |
| All equipment listed above, shall be firmly secured inside the vehicle to prevent any movement by them while the vehicle is in motion. The mounted location of any of the above equipment shall not interfere with the driver's or passengers' limbs or placement of feet or interfere with movement of passengers and/or wheelchairs or other mobility aids within the vehicle. Also, none of the equipment shall be mounted on a door. |  |
| 1. **AISLE** | |
| The aisle will be 16" when measured between the bottom seat cushions reduced to 14" when measured between arm rests. |  |
| 1. **HEADROOM** | |
| The inside body height of the vehicle from surface of floor covering to ceiling as measured at any point along the longitudinal center line or passenger aisleway shall not be less than 75 inches. If an air conditioning unit is provided, the minimum inside height may be less than 75 inches, as necessary for installation of the rear air conditioning unit, at the extreme rear of the vehicle only. |  |
| 1. **DRIVER'S SEAT** | |
| The driver's seat shall be the fully padded, high-back, contoured bucket type of heavy-duty construction. The driver's seat shall be easily adjusted forward and backward without the use of tools. The seat shall include a fold-up right armrest. |  |
| 1. **DRIVER’S SIDE RUNNING BOARD** | |
| A punched aluminum self-draining running board shall be installed on the driver’s side of the vehicle. The running board shall be of one-piece construction, rattle free, and extend from the rear of the front wheel to the rear of the driver’s door. The minimum useable step depth shall be 8 inches. |  |
| 1. **OVERHEAD STORAGE COMPARTMENT** | |
| A storage area with a hinged, lockable, access door shall be provided in the interior area above the windshield (without destination sign). Storage area door shall open upward, be hinged at the top and have a clip/spring to retain the door in the open position. |  |
| 1. **REGULAR PASSENGER SEATS** | |
| All regular passenger seats shall be forward-facing, mid-back bucket. |  |
| Passenger seats shall be securely fastened to parts of vehicle that support them by means of bolting or other method which allows for their removal by use of common tools (i.e., welding is not acceptable). All passenger seats and supporting frames shall be of heavy-duty construction. |  |
| Seat padding and covering shall be fire-resistant. Passenger seats shall be fully padded and shall be covered with commercial grade vinyl with a minimum weight of 32 ounces per linear yard. |  |
| All seats backs and cushions in the vehicle shall be of the same color and pattern and shall be color-keyed to the vehicle's exterior color. |  |
| Passenger seat depth shall be at least 16 inches and the seating level at each passenger seat shall be approximately 18 inches, plus or minus 1/2 inch, above the floor. Passenger seats intended to seat two or more passengers abreast shall provide a minimum of 17 1/2 inches per passenger. The type of the seat back cushion at each passenger seat shall be between 32 inches and 38 inches above the floor (tops closer than 32 inches from the floor will not be accepted). The seat back cushion shall come close to the seat bottom cushion, and an interior angle of 97 degrees to 105 degrees shall be maintained. |  |
| Passenger seats shall be arranged such that the unobstructed hip-to-knee room as measured at seat level, which is provided for each, seated passenger shall not be less than 26 inches. (Note, this is the minimal acceptable spacing, greater spacing may be provided.) |  |
| Grab rails shall be provided on seats next to the aisle, including fold away seats. |  |
| Folding, molded armrests shall be provided on all fixed and fold away seats adjacent to an aisle. |  |
| 1. **SEAT BELTS AND SHOULDER HARNESS** | |
| A retractable seat belt and shoulder shall be provided at the driver's seat and an underseat automatic retractable seat belt (and shoulder harness where required) at each passenger seating position.  All seat belt systems shall be a minimum of 44 inches long when measured, with the belts buckled, from the junction of the belt and seat cushion, around the passenger to the junction of the belt and seat cushion on the other side. |  |
| 1. **TWO (2) 12” SEAT BELT EXTENSIONS** | |
| Two 12" seat belt extenders per vehicle, compatible with existing seat belts. |  |
| 1. **MOBILITY AID POSITIONS** | |
| Mobility aid positions are spaces inside the vehicle for transporting persons in wheelchairs or other mobility aids, which are to be provided on vehicles having lifts. Each position shall consist of a usable floor area in which a passenger in a wheelchair or other mobility aid may be positioned and in which an occupant restraint system and a set of securement devices are to be installed. All mobility aid positions shall be designed to secure wheelchairs or other mobility aids in a forward-facing position and shall be flush mounted with the floor. |  |
| Each mobility aid position shall comply with WC18 recommendations. The dimensions of these positions are intended to give adequate room for the final traveling position of the wheelchair or other mobility aid and its occupant AND sufficient room for the maneuverability of the wheelchair or other mobility aid into that position. The actual placement of the securement devices within the mobility aid position is described under "Securement System." |  |
| 1. **FLOOR PLAN** | |
| An example of an acceptable floor plan in Section 3.3 of this Attachment for this vehicle is included at the end of the text. Other seating arrangements may be approved if all specifications are met. |  |
| A two-passenger fold away seat shall be installed just forward of the left rear wheelchair tiedown position. |  |
| The vehicle shall have up to two (2) mobility-aid positions with seating for a minimum of sixteen (16) ambulatory passengers. |  |
| 1. **STANCHIONS, GRAB RAILS AND BARRIER PANELS** | |
| An overhead ceiling-mounted grabrail, placed over one side of the aisle, shall be provided for the full length of the vehicle's passenger aisleway. |  |
| A grab rail shall be provided on each side (on the interior of the entryway) of the front service entrance doorway. Each front entryway grab rail shall be so positioned to permit easy use by passengers to assist them in embarking and debarking the vehicle. Grab rails shall be of minimum one and one-eighth (1 and 1/8) inch outside diameter stainless steel tubing. Grab rails shall not be padded. |  |
| One vertical stanchion as well as barrier panel shall be mounted at the rear of the driver's seat next to the aisle. Another vertical stanchion as well as a barrier panel shall be installed at the rear of the front service entrance stepwell. |  |
| All vertical stanchions shall extend from floor to ceiling or from floor to overhead grab rail. Stanchions shall be of minimum one and one-fourth (1.25) inches outside diameter stainless steel tubing. |  |
| 1. **INTERIOR FREE OF ALL PROJECTIONS** | |
| The interior or the vehicle shall be free of all projections. All sharp edged, protruding fasteners and brackets that could cause injury to passengers or catch hold of clothing shall be covered. |  |
| 1. **INTERIOR WIDTH** | |
| The vehicle shall have a minimum interior width, measured at seat cushion level, of 88 inches. |  |
| 1. **SIGNAGE** | |
| Each vehicle shall contain sign(s) which indicate that seats in the front of the vehicle are priority seats for persons with disabilities, and that other passengers should make such seats available to those who wish to use them. At least one set of forward-facing seats shall be so designated. Each securement location shall have a sign designating it as such. |  |
| Characters on such signs shall have a width-to-height ratio between 3:5 and 1:1 and a stroke width-to-height between 1:5 and 1:10, with a minimum character height (using an upper case "X") of 5/8 inch, with "wide" spacing (generally, the space between letters shall be 1/16 the height of upper case letters), and shall contrast with the background either light-on-dark or dark-on-light. |  |
| 1. **VEHICLE CLEARANCE STICKER** | |
| A vehicle clearance sticker indicating the maximum height of the vehicle shall be provided and located in easy view of the driver. |  |
| 1. **MOBILITY AID SYSTEM** | |
| A mobility aid system for users of wheelchairs or other mobility aids shall be provided on all vehicles. The system shall permit persons to enter and leave the vehicle while in a wheelchair or other mobility aid by means of a vertical lifting platform or lift and also provide for the safe transportation these persons inside the vehicle. |  |
| The components of the mobility aid system shall include the following: |  |
| * Lift |  |
| * Securement system |  |
| * Occupant restraint system |  |
| * Any and all modifications required to the exterior and interior of the vehicle to provide a complete, functioning system. |  |
| * Mobility Access (Lift) Door(s): Door Opening. |  |
| All parts shall be new. All necessary servicing and adjustments shall be made on the equipment prior to delivery of the vehicles. All equipment shall be ready for immediate and continuous operation upon delivery of the vehicle. All exposed metal surfaces shall be painted or shall be corrosion-resistant. All lift components (including wiring) located on the underside of the vehicle shall be concealed but accessible for maintenance purposes. All interior wiring shall be concealed. |  |
| 1. **WHEELCHAIR LIFT** | |
| An automatic wheelchair lift will be located on the right (curb) side of the vehicle behind the rear axle. |  |
| The lift controls shall be interlocked with the vehicle brakes, transmission, or door, or shall provide other appropriate mechanisms or systems, to ensure that the vehicle cannot be moved when the lift is not stowed, or if outside lift doors are open, so the lift cannot be deployed unless the interlocks or systems are engaged. The lift shall deploy to all levels (i.e., ground, curb and intermediate positions) normally encountered in the operating environment. Where provided, each control for deploying, lowering, raising and stowing the lift and lowering the roll-off barrier shall be of a momentary contact type requiring continuous manual pressure by the operator. |  |
| The wheelchair lift must conform to FMVSS #403 and 404. |  |
| Lift shall be rated at 1,000 # lifting capacity. Braun NCL1000IB3454HB-2 or approved equivalent. |  |
| The control unit shall be a box with a function switch (for the folding and unfolding of the platform), an operating switch (for the raising and lowering of the platform), or a combination thereof. The control unit may also have a power switch. The controls for the operation of the lift shall be designed for both portable and stationary operation. The control unit shall be supplied with a flexible cut resistant control cable of sufficient length to allow the lift operator to have a hand on the wheelchair or other mobility aid, and control the lift platform through all operations, and allow the lift operator to be on the vehicle during the lift operation. |  |
| The control unit shall have simple instructions placed in an easily read location while the operator is standing near the lift with the controls in hand, they should be able to clearly read the instructions and cautions. |  |
| The method of hanging the control unit, when not in use, out of the way of the lowered platform, shall be provided. The hanger provision shall be easily reached by the lift attendant while standing at the ground level. Control switch may be either toggle, rocker or push-button type and shall be spring loaded to automatically return to the off position when pressure is released. |  |
| The Respondent shall provide descriptive material of the lift equipment proposed to be furnished as part of the proposal. |  |
| 1. **DOORS, STEPS AND THRESHOLD** | |
| The lift shall be installed in a separate entryway exclusively for the lift. All components of the lift mechanism shall be located in the vehicle or shall retract inside the vehicle such that, when the doors for the opening are closed, the side of the vehicle will present a smooth surface. The lift shall not contact the opened door and/or door frame during deployment and normal operation. |  |
| The opening shall have two doors of the type hinged at the side which fully seal the body opening when closed. |  |
| Provisions shall be made for fastening the door or doors in a wide open position. In addition, door posts, headers and all floor sections around the opening shall be reinforced such that the strength and support of the body at the opening is at least equivalent to that provided on the same type of vehicle without such an opening. A locking device shall be provided on the lift opening doors which prevents opening the doors form the outside when locked. |  |
| The opening for the lift shall have a minimum vertical clear opening measured form the lift platform at the vehicle floor level of 68 inches. No portion of the lift mechanism shall encroach upon the minimum vertical clear opening. Suitable padding, to protect the heads of wheelchair or other mobility aid users, shall be installed on the inside vehicle on the lintel of the doorway or the lift's crossarm, whichever is lower. A light shall be installed inside the vehicle over the lift area. |  |
| 1. **PRIORITY SEATING SIGNS** | |
| Shall conform to the specifications outlined in the ADA regulations Subpart B - Buses, Vans and Systems, 38.27 Priority seating signs, page 45759. |  |
| 1. **INTERIOR CIRCULATION, HANDRAILS AND STANCHIONS** | |
| Shall conform to the specifications outlined in the ADA regulations Subpart B - Buses, Vans and Systems, 38.29 Interior Circulation, handrails and stanchions, pages 45759 - 45760. |  |
| 1. **LIGHTING** | |
| Shall conform to the specifications outlined in the ADA regulations Subpart B - Buses, Vans and Systems, 38.31 Lighting, pages 45760. |  |
| 1. **SECUREMENT SYSTEM** | |
| At each mobility aid position a securement system shall be provided to securely hold a wheelchair or other mobility aid in the position. This system shall be composed of a complete belt-track system Q-Straint Model # Q-10010 QRT-360 Retractors with L-Track Fittings and Q-10007 for L-Track kit with Q8-6326-A1 Retractable Standard Lap & Shoulder Belt Assembly. Systems by other manufacturers may be accepted with prior approval. |  |
| The securement system shall be placed as near to the accessible entrance as practicable and shall have a clear floor area that meets WC18 dimensions. Such space shall adjoin, and may overlap, an access path. Not more than 6 inches of the required clear floor space may be accommodated for footrests under another seat provided there is a minimum of 9 inches from the floor to the lowest part of the seat overhanging the space. |  |
| At each mobility aid position a four-point attachment system shall be used consisting of four separate belts with all necessary buckles, hardware, fittings and other parts to make it a complete securement system. |  |
| The securement system and their attachments to the vehicle shall restrain a force in the forward longitudinal direction of up to 2,500 pounds per securement leg and a minimum of 5,000 pounds for each mobility aid. In addition, the securement system shall meet the "30mph/20g standard" developed at the University of Michigan. Test results verifying these requirements shall be available and, if requested, a copy shall be submitted. |  |
| A minimum of two tracks each of sufficient length for proper attachment and positioning of the belts, shall be placed parallel to each other and perpendicular to the direction in which the MAP faces.  The side-to-side L-Track front to rear anchorage measurements shall be a minimum of 52” as per WC18 recommendation and securement suppliers recommended installation instructions. 54 inches is desirable if possible, and the length of track shall be NO less than 30” as to accommodate larger mobility devices. If there are 2 WC positions, one behind the other, the center run of track may share the securement of both chairs. In the event both locations cannot accommodate the 54 inch recommended spacing, the second location may be 48 to 52 inches in length and should be noted as such in the bid. Largest location should be closest to the lift. |  |
| The tracks shall be securely flush mounted to the floor of the vehicle in such a way as to insure the track will not pull away from the van floor or shift position under anticipated loads. The flush-mounted tracks shall have no gaps between the ends or sides of the track and the floor covering. The vehicle floor anchorage for the securement system shall be capable of withstanding a tensile load of 6,000 lbs. applied at a 45 degree angle at each track or floor plate slot when tested with the applicable track fitting. Test results to verify this requirement shall be available and, if requested, a copy shall be submitted to INDOT. |  |
| When the wheelchair or mobility aid is secured in accordance with manufacturer's instructions, the securement system shall limit the movement of an occupied wheelchair or mobility aid to no more than 2 inches in any direction under normal vehicle operating conditions. |  |
| In addition, two storage pouches shall be provided to store the straps and buckles off the floor when they are not in use. The stored straps and the securement tracks shall not interfere with passenger movement or sitting space, shall not present any hazardous condition, shall be reasonably protected from vandalism, and shall be readily accessed when needed for use. |  |
| Q-Straint Q5-8522 or approved equal. One storage pouch per each wheelchair tiedown position. |  |
| The Respondent shall provide with each vehicle upon delivery a pamphlet, brochure or similar literature describing (and instructing) the use of the securement system. |  |
| The Respondent shall submit with the proposal a description, in detail, with supporting drawings (may be clear hand-drawn sketches) and literature showing the type and location of the securement system to be furnished. |  |
| 1. **WEBBING LOOPS** | |
| Q-Straint Q5-7580, Sure-Lok FE-200750 or approved equal. To assist with securement of electric wheelchairs. Four webbing loops per each wheelchair position. |  |
| 1. **OCCUPANT RESTRAINT SYSTEM** | |
| A restraint system shall be provided for the occupant of a wheelchair or other mobility aid at each securement position. |  |
| The occupant restraint system shall be a seat belt and shoulder harness assembly, complying with all applicable provisions of 49 CFR Part 571, attached to the floor or side of the vehicle. A retractor shall be provided to keep the belt webbing and straps off the floor when the belt is not in use. |  |
| The Respondent shall provide descriptive material of the occupant restraint system to be furnished as part of the proposal. |  |
| 1. **SERVICE POLICY AND WARRANTY** | |
| The successful Respondent shall furnish with each vehicle the manufacturer's owner service policy and warranty for the vehicle body, the vehicle chassis, and all additional equipment. |  |
| The owner service policies and warranties shall be recognized and accepted by local authorized service representatives. |  |
| The vehicle warranty shall provide that, at a minimum, all body repairs needed due to factory defects shall be furnished and installed promptly without charge by authorized service representatives within 36 months or 36,000 miles after final delivery of the vehicle.   * OEM Warranty for chassis – 3 years/36,000 miles * OEM warranty for transmission – 5 years/100,000 miles/4,000 engine hours * OEM Warranty Corrosion Perforation – 5 years/unlimited mileage * Tires – standard manufacturer’s warranty |  |
| Lift warranty (parts and labor) shall be minimum complete system three (3) years or 10,000 cycles. For certain powertrain parts (cable, cylinder, flow control, gear box, motor, pump, hydraulic hose and fittings) shall be warranted for 5 years or 15,000 cycles. |  |
| Air conditioning and seats shall be covered by a 12 month or standard manufacturer’s warranty providing that, at a minimum, all replacement parts and repairs needed due to defects in material or workmanship shall be provided without charge. |  |
| Other equipment (safety interlock, backup warning camera, etc.) shall include standard manufacturer's warranty. |  |
| 1. **COMPLIANCE WITH OEM** | |
| Any modifications made by the body manufacturer shall comply with the OEM chassis manufacturer’s specifications and requirements. For example, the Ford “Qualified Vehicle Modifier" program. |  |

### Specification Compliance Checklist – Ford Transit Cutaway Van 8 Passenger + 2 Wheelchair + driver (Wheelchair Side Access in right rear of vehicle)

In the yellow shaded boxes, please confirm the Respondent meets each Vehicle Specification by adding a “Yes” or “No”, unless otherwise specified. Please refer to the RFP for how to submit questions or concerns about any of the specifications, or to request an exception to the specifications.

| **Ford Transit Cutaway Van Specification** | **Meets Specification? (Yes/No Unless Otherwise Specified)** |
| --- | --- |
| 1. **BODY AND CHASSIS REQUIREMENTS** | |
| This vehicle shall be of the "body on chassis" type and will involve construction of a bus body on a heavy duty cut-away van chassis. The vehicle body shall be manufactured by a body manufacturer for transit application, not "converted" or "modified" to a transit vehicle from a sports van, passenger van or wagon, delivery vehicle, school bus, recreational vehicle or similar vehicle. Body construction shall be conventional type (panels on structural metal frames) as described below. |  |
| 1. **BODY CONSTRUCTION** | |
| Structural body members shall be all metal. The metal used in construction of the vehicle body shall be prime commercial quality steel (18 gauge minimum). All other metal shall be zinc-coated steel, aluminum-coated steel, stainless steel, galvanized steel, aluminum or aluminum alloy. |  |
| Fiberglass may be used for the construction of the exterior panels ("outer skin") of the body/or the roof "cap") as long as they are securely fastened to metal interior structural members, as specified, and conform to all applicable Federal Motor Vehicle Safety Standards (FMVSS). |  |
| The body structure shall be adequately reinforced at all points and corners where stress concentrations may occur, to adequately carry required loads and withstand road shock. The side and end forming shall be so designed and constructed that they will carry their share of the stresses imposed without damage and absorb excessive impacts with as little damage as is practical. |  |
| Adequate reinforcement shall be provided around all doors, windows and other openings in order to transfer stresses around these openings. |  |
| All posts in body side and roof sections shall be of durable channel or box construction securely fastened to the underframe structure so that the entire frame shall act as one unit without any movement at the joinings. The end posts shall be designed to resist shear. Joints shall be rigid. |  |
| A complete description of the frame, including a sketch, showing size, type, location, how frame is attached to chassis, etc. of frame members shall be submitted. |  |
| The body shall be of sufficient strength to support the entire weight of the fully-loaded vehicle on its top or side, if overturned. A copy of the FMVSS 220 roll over protection test results shall be available and submitted if requested. |  |
| All interior ceiling and wall panels, shall be composed of a uniform appearing, easily cleanable, scuff-resistant material, similar to molded or sheet fiberglass, fiberglass reinforced panels, vinyl-clad metal sheeting, or painted metal sheeting. All interior panels shall be riveted, welded, or otherwise fastened to body frame. Standard vinyl covered plywood shall be used in the driver area wall panels, rear air-conditioning bulkhead and wheelchair door header. Carpeting used as a roof, side, or floor covering will not be allowed, except with prior approval. |  |
| All exterior joints and seams shall be protected by the application of a caulking compound. The body shall be sealed and made tight to prevent entrance of dust or moisture into passenger and driver compartments. All nuts, bolts, clips, washers, clamps, and like fasteners shall be zinc or cadmium plates, phosphate coated or stainless steel to prevent corrosion. Exterior body panels shall be securely riveted, welded or fastened in place. Exterior body seams shall be constructed in such a manner as to shed water. |  |
| The vehicle body shall be attached to the chassis frame in such a manner as to prevent shifting or separation of the body from the chassis under severe operating conditions. |  |
| 1. **FLOOR** | |
| The floor shall be metal sheeting covered with marine grade plywood not less than five-eighths (0.625) inch thick. The sheet metal shall be galvanized, aluminum or otherwise protected to deter rust. |  |
| 1. **FLOOR COVERING** | |
| All floor covering shall be securely bonded to the floor with fasteners and adhesive of waterproof type. All edges of floor covering are to be properly sealed to prevent entrance of moisture that could cause bulging, ply separation and/or material failure. All joints in floor covering shall be the butt cut type and floor covering shall be cemented to the floor to prevent bubbles or blisters which could create a safety hazard. |  |
| The floor covering shall be OEM black, pebble grain floor mat in the driver’s area. |  |
| Slip Resistant Floor covering: Minimum 2.2 mm (.08 inches) thick and shall in either  wet or dry conditions provide a coefficient of friction that is greater than or equal to  .8. Examples are Altro Transflor VM20, or Tarabus GerFlor flooring or approved  equivalent. All joints shall be of the butt cut type and heat-welded in accordance with  the floor manufacturer's recommended procedure. |  |
| A water tight seal shall be provided at the junction of the floor covering with the sidewall panels and wheel housings; and shall be firmly attached to the floor and conform closely to the floor, sidewalls and wheel housings. Alternative methods to ensure a water-tight seal may be used with prior approval. |  |
| All portions of the floor covering shall be the same material. |  |
| 1. **INSULATION** | |
| The vehicle body shall be fully insulated in the roof and all body panels to deaden sound and reduce vibrations and heat transfers. |  |
| The sidewalls of the vehicle shall be fully insulated with fiberglass or other fire-resistant insulation material to a minimum R-value of 6. |  |
| The roof of the vehicle shall be fully insulated with fiberglass or other fire-resistant insulation material to a minimum R-value of 5. |  |
| 1. **EXTERIOR WIDTH** | |
| The width of the vehicle shall be 84" excluding outside mirrors, rear fenders and rear bumper. |  |
| 1. **AXLES** | |
| The front and rear axles of the vehicle shall have the minimum weight ratings of 4,630 and 7,275 pounds respectively. The axles shall be of sufficient strength to carry without damage their share of the actual weight of the vehicle plus anticipated loads and stresses. |  |
| 1. **FRAME** | |
| Frame shall be of steel construction and shall be designed to correspond with or exceed standard practice performance criteria for vehicles of this type and for the vehicle weight and anticipated loads and stresses. Gross vehicle weight (GVW) rating shall be a minimum of 11,000 pounds. |  |
| 1. **SUSPENSION SYSTEM** | |
| Heavy-duty shock absorbers shall be installed on both the front and rear of the chassis. Springs shall be installed front and rear which are of sufficient strength to carry without damage their share of the actual weight of the vehicle plus anticipated loads and stresses. The suspension shall be strengthened as needed to prevent any listing or leaning to the side of the vehicle on which the lift is located. |  |
| 1. **WHEELBASE** | |
| The wheelbase length of the vehicle shall be a minimum of 156 inches. |  |
| 1. **ENGINE** | |
| Engine: 3.5L V6 EcoBoost |  |
| The engine shall be of heavy-duty design and construction. The engine shall be equipped with oil bath or replaceable element dry type air cleaner and replaceable element full flow oil filter. |  |
| 1. **TRANSMISSION** | |
| Ford 10 speed SelectShift transmission |  |
| 1. **COOLING SYSTEM** | |
| The cooling system will be of a capacity ample to keep the engine within a temperature range which will ensure continuous operation and peak performance under all operating conditions. The cooling system fan and water pump shall be of heavy-duty type. The cooling system shall be protected with permanent type antifreeze to twenty-five degrees below zero Fahrenheit. |  |
| 1. **EXHAUST SYSTEM** | |
| The vehicle shall be equipped with a heavy-duty truck type muffler and exhaust system and shall exit roadside (driver side of the vehicle). To facilitate this, the spare tire will be shipped loose. |  |
| 1. **BRAKES** | |
| The service brakes shall be anti-lock power Hydraulic brakes. Service brakes shall be provided on both front and rear wheels and shall be of the self-adjusting hydraulic type. Service brakes shall be disc type. |  |
| A heavy-duty parking brake shall also be provided. |  |
| 1. **STEERING GEAR** | |
| Power steering shall be provided on the vehicle with tilt, multi-position steering wheel and speed (cruise) control. |  |
| 1. **HORNS** | |
| The vehicle shall be equipped with dual horns or a single horn OEM standard |  |
| 1. **INSTRUMENT PANEL** | |
| The driver's instrument panel shall include, at least, a speedometer, odometer, upper beam headlight indicator, left and right turn signal indicator, fuel gauge, and ammeter or voltmeter. The instrument panel shall also contain either gauges or warning lights indicating oil pressure, brake system pressure and water temperature. The instrument panel shall be adequately lighted. The chassis manufacturer shall provide and cover instrument panel with plastic covering or equivalent in order to provide protection from precipitation from time of manufacture until body is mounted. |  |
| 1. **BACK-UP ALARM AND CAMERA** | |
| The vehicle shall have an audible, repetitive alarm automatically sounding when the vehicle is moving backwards. The back-up alarm shall be mounted toward the rearmost part of the vehicle and protected from water and road spray.  *Backup Camera:* Ford OEM back up camera and monitor. |  |
| 1. **AM/FM RADIO with BLUETOOTH** | |
| Respondent shall provide an AM/FM stereo radio with Bluetooth, with a digital clock installed by the chassis or bus manufacturer and mounted on the appropriate location of the instrument panel, with five (5) speakers (one driver area, two behind driver area, two rear). |  |
| 1. **ELECTRICAL SYSTEM** | |
| The electrical system shall be the 12 volt type. All electrical components shall be designed to function effectively under both normal driving conditions and conditions of high amperage requirements at idle speeds. |  |
| 1. **TWELVE VOLT POWER OUTLET (CIGAR LIGHTER)** | |
| Respondent shall provide two 12 Volt power outlets. |  |
| 1. **ALTERNATOR** | |
| The generating system shall be the OEM standard alternating current type (heavy duty) with alternator capacity minimum 250 amps |  |
| 1. **BATTERY SYSTEM** | |
| Ford dual AGM batteries with a minimum capacity of each battery not less than 70-amp hour. | **Battery Capacity (CCA capacity) \_\_\_\_\_\_\_\_\_** |
| The batteries shall remain in the OEM location (under the driver’s seat). |  |
| Battery system cables, charging, service life, venting, storage, voltage drop, and installation shall follow SAE recommended practices as well as the criteria outlined in CFR49 393.30. |  |
| 1. **WIRING** | |
| All wiring shall be loomed, properly insulated and, as necessary shall be  held in place with insulated clamps of rubber or plastic coated to prevent cutting  insulation. Wiring shall be color, functioned and/or number coded. A spare wire of nominal size and rating shall be included in the main harness going to the rear of the bus. The wiring system shall in all respects meet the criteria set forth in CFR49 393.27 for specifications, 393.28 for protection, 393.29 for ground systems, 393.32 for detachable electrical connections and 393.33 for wiring installation. |  |
| 1. **LIGHTS, SIGNALS AND LIGHTING** | |
| The interior of the vehicle shall be adequately illuminated, and overhead lighting fixtures shall be arranged in such a manner that adequate lighting is provided at the reading plane of the passengers. The stepwell and doorway immediately adjacent to the driver shall have, when the door is open, at least 2 foot-candles of illumination measured on the step tread. |  |
| All interior and exterior lighting (except for the chassis OEM lights) will be LED. Interior LED lights shall provide a minimum 12-foot candle illumination on a one square foot plane, measured at seat level (except as noted). |  |
| The stepwell and doorway lighting shall be flush mounted or shielded with clear lens. |  |
| The other stepwells and doorways, including the doorway in which the lift is installed, shall have, at all times, at least 2 foot-candles of illumination measured on the step tread, or lift, when deployed at the vehicle floor level. |  |
| The vehicle doorways, including the doorway in which the lift is installed, shall have outside lighting which, when the door is open, provide at least 1 foot-candle of illumination on the street surface for a distance of 3 feet perpendicular to all points on the bottom step tread outer edge. Such light(s) shall be located below window level and shielded to protect the eyes of entering and exiting passengers. |  |
| The instrument panel shall be indirectly lighted. |  |
| Headlights with high and low beam, turn signal lights, rear brake lights, and rear back-  up light shall be provided. A four-way hazard warning flasher shall be connected with the turn signal lights. Roof marker lights shall be provided. |  |
| The rear stop, tail and turn lights shall be flush mounted into the rear body of the bus. The assemblies shall be separate. |  |
| *Center High Mount Brake Light*: In the back rear of the vehicle. Mounted above the rear emergency exit door (or optional rear window exit). |  |
| *Rear Amber Flashing Lights*: There shall be two (2) lights that are separate from the turn signals and shall be mounted on the upper rear corners of the rear cap. With engine on, rear amber lights and all other exterior hazard lights (front turn, rear turn, side turns, aux. upper lights) to flash with Ford OEM Hazard switch ON, or with Ford OEM Hazard switch OFF will automatically flash when lift door and/or entry doors are open then turn off when both doors are closed. With engine off and the Ford OEM Hazard switch ON and the entrance door or lift door is open, only the front and rear turn signal lights will flash.  This will provide for automatic operation of all lights when the lift or entrance doors are open and then shut off when closed. Pressing the Ford Hazard switch to ON will also allow the driver to manually activate all lights with doors closed and activate the standard FORD OEM visual & audible indicators that the Hazards are ON to remind the driver to turn flashers off. |  |
| *Additional Side Turn Signals*: Actuated by standard turn-signals. |  |
| 1. **BUMPER AND TOW HOOKS** | |
| Front bumper to be OEM standard. One piece heavy duty construction. Finished either chromed painted or powder coated black, white or grey. |  |
| An energy absorbing rear bumper of the HELP (Romeo Rim, Transpec) type, or approved equal, shall be provided on the vehicle, in place of the standard rear bumper. Rear tow hooks or tow eyes, with the hooks or eyes and their mountings of sufficient strength to tow the vehicle, must be provided on the vehicle. |  |
| 1. **HEATING SYSTEM** | |
| The heating system shall consist of at least one front and one rear high output unit type heater. The front heater shall be the chassis O.E.M. front unit located in the driver's area. The area heater shall have a minimum 60,000 BTU/Hr. rating and be located in the rear half of the passenger's compartment. All heaters shall have easily accessible driver controls to adjust temperature or heat output level and to turn the system on or off. All supplemental heater hoses shall be manufactured of EPDM rubber. Chassis supplied hoses shall remain OEM. |  |
| The heating system provided shall be capable of maintaining a minimum temperature of 60 degrees Fahrenheit throughout the driver and passenger areas of the vehicle at an outside ambient temperature of zero (0) Fahrenheit under normal operating conditions. |  |
| Temperature-controlled heat shall be provided at the driver's feet. |  |
| The rear heater (and any others) shall be installed in a parallel configuration with a heater control valve accessible to the driver. All hoses to and from the rear heater shall be supported by insulated clamps every 18 inches. Heater and associated hardware shall meet SAE standards and practices, and shall meet the applicable criteria of CFR49 393.77 |  |
| 1. **AIR CONDITIONER** | |
| Air conditioning equipment shall be adequately sized for proper cooling during stop-and-go operation of the vehicle. Air conditioning equipment shall be capable of providing at least minimal operation at vehicle idling speeds. The air conditioning system shall be thermostatically controlled and shall have condenser fans capable of operating at vehicle idling speeds. |  |
| The evaporator fans shall be of adequate size. The air conditioning system shall be capable of maintaining a temperature of 75 degrees Fahrenheit or less throughout the driver and passenger compartments of the vehicle with an outside ambient temperature of 95 degrees Fahrenheit and 50 percent relative humidity under normal operating conditions. The air conditioning equipment shall provide for cool air distribution for the full length of the passenger compartment. A complete description of the make and capacity (in BTU's) of the air conditioning system shall be provided with the proposal. |  |
| The air conditioning system shall consist of: |  |
| * the chassis O.E.M. front air conditioning unit |  |
| * a rear ceiling or rear wall mounted unit |  |
| * dual compressors meeting the following requirement of BTU/Hour Minimum Rating 60,000 |  |
| The Respondent shall provide descriptive material of the air conditioning equipment proposed to be furnished as part of the proposal. |  |
| 1. **FAST IDLE SOLENOID** | |
| A fast idle solenoid or equivalent system shall be installed on the vehicle. The system must permit higher engine RPM's while the vehicle is at rest without need of the driver to continuously depress the accelerator pedal. With transmission in Park, fast idle will automatically increase RPMs to a pre-set level when a low voltage condition is detected. |  |
| 1. **INTERIOR MIRROR** | |
| A 6” x 16” interior passenger compartment viewing mirror shall be provided. |  |
| 1. **EXTERIOR MIRRORS** | |
| Two powered, heated side-mounted exterior rear-view mirrors shall be provided, one on the left and one on the right side of the vehicle opposite the driver. The exterior rear-view mirrors shall be firmly supported and set to give a clear view past the left and right corners of the vehicle. The exterior mirrors support(s) must be of sufficient length to allow a clear view along the entire side of the vehicle. Each exterior rear view mirror shall be dual lens. The top lens shall be a flat mirror, measuring at least 6 inches by 9 inches. The bottom lens shall be a convex mirror measuring at least 6 inches by 3 inches. Mirror frames and supports shall have a corrosion-resistant finish. Mirrors shall meet SAE recommended standards and CFR49 393.80 as appropriate. |  |
| 1. **FRONT SERVICE ENTRANCE** | |
| A front service entrance shall be provided on the right side (i.e., curb side) of the vehicle directly opposite the driver's seat. The front service door shall have a minimum horizontal clear opening of 32.0 inches (measured between the opened door panels) and a minimum vertical opening of 75 inches. The sides of the front service entrance shall be vertical and parallel to each other. |  |
| The front service door shall be closed by means of a driver-actuated power-operated door control. |  |
| The front service entrance shall have at least two interior steps below floor level. Each step shall be at least 24 inches wide and have at least 9 inch tread depth at any location on the step. The first step height from the street level shall not be more than 12 inches from the ground as measured to top of step tread when the vehicle is empty except for seats and normal equipment. |  |
| The tread surfaces on the front service entrance steps shall be covered with slip resistant floor covering: Minimum 2.2 mm (.08 inches) thick and shall in either wet or dry conditions provide a coefficient of friction that is greater than or equal to .8. Examples are Altro Transflor VM20, or Tarabus GerFlor flooring or approved equivalent. All joints shall be of the butt cut type and heat-welded in accordance with the floor manufacturer's recommended procedure. |  |
| The covering shall be permanently bonded to the metal step surfaces and shall be properly sealed to prevent moisture from getting underneath. Step edges shall be marked in yellow. This includes the first step into the vehicle as well as the top of the last step at the intersection with the vehicle floor. |  |
| The outer edge of the front service door shall be weather-stripped, as necessary, to provide a water-tight seal around the entire entryway including all steps. Suitable padding, to protect the heads of boarding or exiting passengers, shall be installed on the inside of the vehicle on the lintel of the front service entrance doorway. Any "gap" between the lowest part of the door(s) and the mating step surface greater than 3/8" shall be sealed by a vinyl threshold seal or brush comb. |  |
| 1. **DRIVER ENTRANCE DOOR** | |
| A driver entrance door will be provided on the left side (i.e., driver's side) of the vehicle adjacent to the driver's seat. The entrance shall be hinged and of the sedan type and it shall be equipped with a key lock built into the door that may be locked to prevent opening of the door. The lock shall be such that it may be unlocked with the key from the outside. |  |
| An armrest on the left side must be provided for the driver. This armrest may be either attached to the left side of the vehicle or door or may be attached to the driver's seat. |  |
| 1. **WINDSHIELD** | |
| Tinted windshield with two speed electric windshield wipers with intermittent feature and windshield washers. |  |
| 1. **DRIVER WINDOWS** | |
| The driver shall be provided with an openable window on the left side. The driver's side window must be equipped with a locking device on the inside, unless it is the type which is rolled (i.e., cranked) up and down from the inside. If a driver entrance door is provided, the driver's side window shall be mounted in the driver entrance door. |  |
| The driver also shall be provided with one or two windows located in the right side of the vehicle between the forward side of the front service entrance and the dashboard or windshield. The window(s) shall provide improved viewing to the right of the vehicle when the driver is seated in the driver seat. The total area of the window glass (the area of one window is only one window is provided or the sum of the areas if two are provided) shall be a minimum of 290 square inches. |  |
| 1. **PASSENGER WINDOWS** | |
| Side passenger windows shall be provided throughout the passenger compartment. All side passenger windows must be of "T" type. All “T” type windows shall be mounted top venting. Only exception would be for any required smaller body fill windows where full size windows could not be provided. These windows can have solid glass. Only one such type window can be used per side. |  |
| All passenger service entrance doors shall contain windows of the fixed type. |  |
| All window glass shall be of the safety type and shall be tinted. All window glass shall conform to Federal Motor Vehicle Safety Standard No. 205. |  |
| At least one (1) window on each side will be an emergency exit window meeting FMVSS 217 requirement. |  |
| 1. **REAR EMERGENCY EXIT DOOR** | |
| Provide a rear emergency exit door 35" x 56” or larger with upper and lower window. The door shall be marked with interior and exterior “Emergency Door” or “Emergency Exit” signage with minimum 1" letters either applied above the door or on the upper most part of the top door window. The door shall also be identified with an interior red light. The light shall be mounted above the door and lighted at all times when the engine is running. The rear door shall include a lock warning system that will activate a light and buzzer in the driver’s area to alert the driver that the door is locked whenever the ignition is in the run position. The door lock warning system shall be independent from the rear emergency exit door ajar warning. |  |
| 1. **FUEL TANK** | |
| A fuel tank(s) with a total capacity of not less than 25 gallons shall be provided. | **Fuel Tank Capacity (gallons)**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| The fuel tank(s) shall be of heavy-duty construction, adequately protected, and shall be mounted outside of the passenger compartment of the vehicle. |  |
| 1. **DRIVE SHAFT GUARD** | |
| Each drive shaft shall be equipped with a protective metal guard or guards to prevent whipping through the floor or dropping to the ground in the event of a tube or universal joint failure or if the drive shaft breaks. |  |
| 1. **SUN VISOR** | |
| The vehicle shall be equipped with a sun visor on the driver's side of the vehicle. |  |
| 1. **UNDERCOATING** | |
| The Respondent shall undercoat the entire underside of the vehicle body including undersides of fenders with fire-resistant asphalt base, rubber base, water base or equivalent undercoating material applied by spray method in order to seal, deaden sound, insulate and prevent oxidation. The undercoating material shall be applied in addition to the rustproofing compound or sealant and shall be applied after the rustproofing procedure has been completed. Undercoating shall not be applied to those areas of the OEM chassis where undercoating is not recommended. Front fenders shall also be undercoated. |  |
| 1. **PAINTING** | |
| All exposed metal surfaces, except aluminum, stainless steel and chrome must be painted. |  |
| 1. **EXTERIOR PAINT** | |
| The exterior color shall be white or off-white. |  |
| 1. **INTERIOR PAINT** | |
| All interior metal surfaces (except stainless steel, bright aluminum or chrome) which require maintaining shall be painted the same color. This includes the exposed interior metal surfaces, if any, of the side and rear doors. The interior color shall be color-keyed to the vehicle's exterior or interior color and shall harmonize with the color of the roof liner and any side paneling or other covering. |  |
| 1. **TIRES AND WHEELS** | |
| All tires shall be steel-belted radial tires. Dual or tandem rear wheels shall be provided on the vehicle. The vehicle shall be equipped with two front and four rear wheels and tires. A spare steel-belted radial tire and wheel shall be provided (shipped loose). All wheels shall be either chromed or painted to match the exterior color of the body. Heavy duty rubber (or approved composite material) mud flaps shall be provided on the front and rear tires. |  |
| All tires and wheels, including the spare, shall be of the same type and size and shall be interchangeable. Tires and wheels shall be properly balanced and aligned. |  |
| Caster/camber kit and alignment documents to be provided with each bus. |  |
| 1. **EMERGENCY EQUIPMENT** | |
| The following equipment shall be provided on the vehicle. |  |
| * *Warning Devices*: The vehicle shall be equipped with a set of three (3) reflecting warning devices, in a latched container, meeting the requirements of FMVSS 571.125 |  |
| * *Fire Extinguisher*: One dry chemical fire extinguisher of at least five (5) pound capacity shall be furnished and shall be bracket mounted and easily accessible to the driver. The extinguisher shall be a multi-purpose A-B-C type. |  |
| * *First Aid Kit*: A first aid kit with a minimum of 16 different units (each unit shall be of a different type from every other unit) shall be furnished and mounted in a location easily accessible to the driver. The box or container shall not be considered as one of the 16 units. |  |
| * *OSHA Approved Body Fluid Clean Up Kit.* |  |
| * *Seat Belt Cutter* |  |
| All equipment listed above, shall be firmly secured inside the vehicle to prevent any movement by them while the vehicle is in motion. The mounted location of any of the above equipment shall not interfere with the driver's or passengers' limbs or placement of feet or interfere with movement of passengers and/or wheelchairs or other mobility aids within the vehicle. Also, none of the equipment shall be mounted on a door. |  |
| 1. **AISLE** | |
| The aisle will be 16" when measured between the bottom seat cushions but reduced to 14" when measured between arm rests. |  |
| 1. **HEADROOM** | |
| The inside body height of the vehicle from surface of floor covering to ceiling as measured at any point along the longitudinal center line or passenger aisleway shall not be less than 75 inches. If an air conditioning unit is provided, the minimum inside height may be less than 75 inches, as necessary for installation of the rear air conditioning unit, at the extreme rear of the vehicle only. |  |
| 1. **DRIVER'S SEAT** | |
| The driver's seat shall be the fully padded, high-back, contoured bucket type of heavy-duty construction. The driver's seat shall be easily adjusted forward and backward without the use of tools. The seat shall include a fold-up right armrest. |  |
| 1. **DRIVER’S SIDE RUNNING BOARD** | |
| A punched aluminum self-draining running board shall be installed on the driver’s side of the vehicle. The running board shall be of one-piece construction, rattle free, and extend from the rear of the front wheel to the rear of the driver’s door. The minimum useable step depth shall be 8 inches. |  |
| 1. **OVERHEAD STORAGE COMPARTMENT** | |
| A storage area with a hinged, lockable, access door shall be provided in the interior area above the windshield (without destination sign). Storage area door shall open upward, be hinged at the top and have a clip/spring to retain the door in the open position. |  |
| 1. **REGULAR PASSENGER SEATS** | |
| All regular passenger seats shall be forward-facing, mid-back bucket. |  |
| Passenger seats shall be securely fastened to parts of vehicle that support them by means of bolting or other method which allows for their removal by use of common tools (i.e., welding is not acceptable). All passenger seats and supporting frames shall be of heavy-duty construction. |  |
| Seat padding and covering shall be fire-resistant. Passenger seats shall be fully padded and shall be covered with commercial grade vinyl with a minimum weight of 32 ounces per linear yard. |  |
| All seatbacks and cushions in the vehicle shall be of the same color and pattern and shall be color-keyed to the vehicle's exterior color. |  |
| Passenger seat depth shall be at least 16 inches and the seating level at each passenger seat shall be approximately 18 inches, plus or minus 1/2 inch, above the floor. Passenger seats intended to seat two or more passengers abreast shall provide a minimum of 17 1/2 inches per passenger. The type of the seat back cushion at each passenger seat shall be between 32 inches and 38 inches above the floor (tops closer than 32 inches from the floor will not be accepted). The seat back cushion shall come close to the seat bottom cushion, and an interior angle of 97 degrees to 105 degrees shall be maintained. |  |
| Passenger seats shall be arranged such that the unobstructed hip-to-knee room as measured at seat level, which is provided for each, seated passenger shall not be less than 26 inches. (Note, this is the minimal acceptable spacing, greater spacing may be provided.) |  |
| Grab rails shall be provided on seats adjacent to the aisle, including fold away seats. |  |
| Folding, molded armrests shall be provided on all fixed and fold away seats adjacent to an aisle. |  |
| 1. **SEAT BELTS AND SHOULDER HARNESS** | |
| A retractable seat belt and shoulder harness shall be provided at the driver's seat and an underseat automatic retractable seat belt (and shoulder harness where required) at each passenger seating position. All seat belt systems shall be a minimum of 44 inches long when measured, with the belts buckled, from the junction of the belt and seat cushion, around the passenger to the junction of the belt and seat cushion on the other side. |  |
| 1. **TWO (2) 12” SEAT BELT EXTENSIONS** | |
| Two 12" seat belt extenders per vehicle, compatible with existing seat belts |  |
| 1. **MOBILITY AID POSITIONS** | |
| Mobility aid positions are spaces inside the vehicle for transporting persons in wheelchairs or other mobility aids, which are to be provided on vehicles having lifts. Each position shall consist of a usable floor area in which a passenger in a wheelchair or other mobility aid may be positioned and in which a occupant restraint system and a set of securement devices are to be installed. All mobility aid positions shall be designed to secure wheelchairs or other mobility aids in a forward-facing position and shall be flush mounted with the floor. |  |
| Each mobility aid position shall comply with WC18 dimensions. The dimensions of these positions are intended to give adequate room for the final traveling position of the wheelchair or other mobility aid and its occupant AND sufficient room for the maneuverability of the wheelchair or other mobility aid into that position. The actual placement of the securement devices within the mobility aid position is described under "Securement System." |  |
| 1. **FLOOR PLAN** | |
| An example of an acceptable floor plan for this vehicle is included in Section 3.2 of this Attachment. Other seating arrangements may be approved if all specifications are met. |  |
| A two-passenger fold away seat shall be installed just forward of the left rear wheelchair tiedown position. |  |
| The vehicle shall have up to two (2) mobility-aid positions with seating for a minimum of eight (8) ambulatory passengers. |  |
| 1. **STANCHIONS, GRAB RAILS AND BARRIER PANELS** | |
| An overhead ceiling-mounted grab rail, placed over one side of the aisle, shall be provided for the full length of the vehicle's passenger aisleway. |  |
| A grab rail shall be provided on each side (on the interior of the entryway) of the front service entrance doorway. Each front entryway grab rail shall be so positioned to permit easy use by passengers to assist them in embarking and debarking the vehicle. Grab rails shall be of minimum one and one-eighth (1 and 1/8) inch outside diameter stainless steel tubing. Grab rails shall not be padded. |  |
| One vertical stanchion as well as barrier panel shall be mounted at the rear of the driver's seat next to the aisle. Another vertical stanchion as well as a barrier panel shall be installed at the rear of the front service entrance stepwell. |  |
| All vertical stanchions shall extend from floor to ceiling or from floor to overhead grab rail. Stanchions shall be of minimum one and one-fourth (1.25) inches outside diameter stainless steel tubing. |  |
| 1. **INTERIOR FREE OF ALL PROJECTIONS** | |
| The interior or the vehicle shall be free of all projections. All sharp edged, protruding fasteners and brackets that could cause injury to passengers or catch hold of clothing shall be covered. |  |
| 1. **INTERIOR WIDTH** | |
| The vehicle shall have a minimum interior width, measured at seat cushion level, of 81 inches. |  |
| 1. **SIGNAGE** | |
| Each vehicle shall contain sign(s) which indicate that seats in the front of the vehicle are priority seats for persons with disabilities, and that other passengers should make such seats available to those who wish to use them. At least one set of forward-facing seats shall be so designated. Each securement location shall have a sign designating it as such. |  |
| Characters on such signs shall have a width-to-height ratio between 3:5 and 1:1 and a stroke width-to-height between 1:5 and 1:10, with a minimum character height (using an upper case "X") of 5/8 inch, with "wide" spacing (generally, the space between letters shall be 1/16 the height of upper case letters), and shall contrast with the background either light-on-dark or dark-on-light. |  |
| 1. **VEHICLE CLEARANCE STICKER** | |
| A vehicle clearance sticker indicating the maximum height of the vehicle shall be provided and located in easy view of the driver. |  |
| 1. **MOBILITY AID SYSTEM** | |
| A mobility aid system for users of wheelchairs or other mobility aids shall be provided on all vehicles. The system shall permit persons to enter and leave the vehicle while in a wheelchair or other mobility aid by means of a vertical lifting platform or lift and also provide for the safe transportation these persons inside the vehicle. |  |
| The components of the mobility aid system shall include the following: |  |
| * Lift |  |
| * Securement system |  |
| * Occupant restraint system |  |
| * Any and all modifications required to the exterior and interior of the vehicle to provide a complete, functioning system. |  |
| * Mobility Access (Lift) Door(s): Door Opening. |  |
| All parts shall be new. All necessary servicing and adjustments shall be made on the equipment prior to delivery of the vehicles. All equipment shall be ready for immediate and continuous operation upon delivery of the vehicle. All exposed metal surfaces shall be painted or shall be corrosion-resistant. All lift components (including wiring) located on the underside of the vehicle shall be concealed but accessible for maintenance purposes. All interior wiring shall be concealed. |  |
| 1. **WHEELCHAIR LIFT** | |
| An automatic wheelchair lift will be located on the right (curb) side of the vehicle behind the rear axle and will conform to the specifications as outlined in the Americans with Disabilities Act (ADA) regulations Subpart B - Buses, Vans and Systems, 38.23 Mobility Aid accessibility (b) Vehicle Lift, pages 45757 - 45758. |  |
| The lift controls shall be interlocked with the vehicle brakes, transmission, or door, or shall provide other appropriate mechanisms or systems, to ensure that the vehicle cannot be moved when the lift is not stowed, or if outside lift doors are open, so the lift cannot be deployed unless the interlocks or systems are engaged. The lift shall deploy to all levels (i.e., ground, curb and intermediate positions) normally encountered in the operating environment. Where provided, each control for deploying, lowering, raising and stowing the lift and lowering the roll-off barrier shall be of a momentary contact type requiring continuous manual pressure by the operator. |  |
| The wheelchair lift must conform to FMVSS #403 and 404. |  |
| Lift shall be rated at 1,000 # lifting capacity. Braun NCL1000IB3454HB-2 or approved equivalent. |  |
| The control unit shall be a box with a function switch (for the folding and unfolding of the platform), an operating switch (for the raising and lowering of the platform), or a combination thereof. The control unit may also have a power switch. The controls for the operation of the lift shall be designed for both portable and stationary operation. The control unit shall be supplied with a flexible cut resistant control cable of sufficient length to allow the lift operator to have a hand on the wheelchair or other mobility aid, and control the lift platform through all operations, and allow the lift operator to be on the vehicle during the lift operation. |  |
| The control unit shall have simple instructions placed in an easily read location while the operator is standing near the lift with the controls in hand, they should be able to clearly read the instructions and cautions. |  |
| The method of hanging the control unit, when not in use, out of the way of the lowered platform, shall be provided. The hanger provision shall be easily reached by the lift attendant while standing at the ground level. Control switch may be either toggle, rocker or push-button type and shall be spring loaded to automatically return to the off position when pressure is released. |  |
| The Respondent shall provide descriptive material of the lift equipment proposed to be furnished as part of the proposal. |  |
| 1. **DOORS, STEPS AND THRESHOLDS** | |
| The lift shall be installed in a separate entryway exclusively for the lift. All components of the lift mechanism shall be located in the vehicle or shall retract inside the vehicle such that, when the doors for the opening are closed, the side of the vehicle will present a smooth surface. The lift shall not contact the opened door and/or door frame during deployment and normal operation. |  |
| The opening shall have two doors of the type hinged at the side which fully seal the body opening when closed. |  |
| Provisions shall be made for fastening the door or doors in a wide open position. In addition, door posts, headers and all floor sections around the opening shall be reinforced such that the strength and support of the body at the opening is at least equivalent to that provided on the same type of vehicle without such an opening. A locking device shall be provided on the lift opening doors which prevents opening the doors from the outside when locked. |  |
| The opening for the lift shall have a minimum vertical clear opening measured form the lift platform at the vehicle floor level of 68 inches. No portion of the lift mechanism shall encroach upon the minimum vertical clear opening. Suitable padding, to protect the heads of wheelchair or other mobility aid users, shall be installed on the inside vehicle on the lintel of the doorway or the lift's crossarm, whichever is lower. A light shall be installed inside the vehicle over the lift area. |  |
| 1. **PRIORITY SEATING SIGNS** | |
| Shall conform to the specifications outlined in the ADA regulations Subpart B - Buses, Vans and Systems, 38.27 Priority seating signs, page 45759. |  |
| 1. **INTERIOR CIRCULATION, HANDRAILS AND STANCHIONS** | |
| Shall conform to the specifications outlined in the ADA regulations Subpart B - Buses, Vans and Systems, 38.29 Interior Circulation, handrails and stanchions, pages 45759 - 45760. |  |
| 1. **LIGHTING** | |
| Shall conform to the specifications outlined in the ADA regulations Subpart B - Buses, Vans and Systems, 38.31 Lighting, pages 45760. |  |
| 1. **SECUREMENT SYSTEM** | |
| At each mobility aid position a securement system shall be provided to securely hold a wheelchair or other mobility aid in the position. This system shall be composed of a complete belt-track system Q-Straint Model # Q-10010 QRT-360 Retractors with L-Track Fittings and Q-10007 for L-Track kit with Q8-6326-A1 Retractable Standard Lap & Shoulder Belt Assembly. Systems by other manufacturers may be accepted with prior approval. |  |
| The securement system shall be placed as near to the accessible entrance as practicable and shall have a clear floor area that meets WC18 dimensions. Such space shall adjoin, and may overlap, an access path. Not more than 6 inches of the required clear floor space may be accommodated for footrests under another seat provided there is a minimum of 9 inches from the floor to the lowest part of the seat overhanging the space. |  |
| At each mobility aid position a four-point attachment system shall be used consisting of four separate belts with all necessary buckles, hardware, fittings and other parts to make it a complete securement system. |  |
| The securement system and their attachments to the vehicle shall restrain a force in the forward longitudinal direction of up to 2,500 pounds per securement leg and a minimum of 5,000 pounds for each mobility aid. In addition, the securement system shall meet the "30mph/20g standard" developed at the University of Michigan. Test results verifying these requirements shall be available and, if requested, a copy shall be submitted. |  |
| A minimum of two tracks each of sufficient length for proper attachment and positioning of the belts shall be placed parallel to each other and perpendicular to the direction in which the MAP faces.  The side-to-side L-Track front to rear anchorage measurements shall be a minimum of 52” as per WC18 recommendation and securement suppliers recommended installation instructions. 54 inches is desirable if possible, and the length of track shall be NO less than 30” as to accommodate larger mobility devices. If there are 2 WC positions, one behind the other, the center run of track may share the securement of both chairs. In the event both locations cannot accommodate the 54 inch recommended spacing, the second location may be 48 to 52 inches in length and should be noted as such in the bid. Largest location should be closest to the lift. |  |
| The tracks shall be securely flush mounted to the floor of the vehicle in such a way as to insure the track will not pull away from the van floor or shift position under anticipated loads. The flush-mounted tracks shall have no gaps between the ends or sides of the track and the floor covering. The vehicle floor anchorage for the securement system shall be capable of withstanding a tensile load of 6,000 lbs. applied at a 45 degree angle at each track or floor plate slot when tested with the applicable track fitting. Test results to verify this requirement shall be available and, if requested, a copy shall be submitted to INDOT. |  |
| When the wheelchair or mobility aid is secured in accordance with manufacturer's instructions, the securement system shall limit the movement of an occupied wheelchair or mobility aid to no more than 2 inches in any direction under normal vehicle operating conditions. |  |
| In addition, two storage pouches shall be provided to store the straps and buckles off the floor when they are not in use. The stored straps and the securement tracks shall not interfere with passenger movement or sitting space, shall not present any hazardous condition, shall be reasonably protected from vandalism, and shall be readily accessed when needed for use. |  |
| Q-Straint Q5-8522 or approved equal. One storage pouch per each wheelchair tiedown position. |  |
| The Respondent shall provide with each vehicle upon delivery a pamphlet, brochure or similar literature describing (and instructing) the use of the securement system. |  |
| The Respondent shall submit with the proposal a description, in detail, with supporting drawings (may be clear hand-drawn sketches) and literature showing the type and location of the securement system to be furnished. |  |
| 1. **WEBBING LOOPS** | |
| Q-Straint Q5-7580, Sure-Lok FE-200750 or approved equal. To assist with securement of electric wheelchairs. Four webbing loops per each wheelchair position. |  |
| 1. **OCCUPANT RESTRAINT SYSTEM** | |
| A restraint system shall be provided for the occupant of a wheelchair or other mobility aid at each securement position. |  |
| The occupant restraint system shall be a seat belt and shoulder harness assembly, complying with all applicable provisions of 49 CFR Part 571, attached to the floor or side of the vehicle. A retractor shall be provided to keep the belt webbing and straps off the floor when the belt is not in use. |  |
| The Respondent shall provide descriptive material of the occupant restraint system to be furnished as part of the proposal. |  |
| 1. **SERVICE POLICY AND WARRANTY** | |
| The successful Respondent shall furnish with each vehicle the manufacturer's owner service policy and warranty for the vehicle body, the vehicle chassis, and all additional equipment. |  |
| Lift warranty (parts and labor) shall be minimum complete system three (3) years or 10,000 cycles. For certain powertrain parts (cable, cylinder, flow control, gear box, motor, pump, hydraulic hose and fittings) shall be warranted for 5 years or 15,000 cycles. |  |
| The owner service policies and warranties shall be recognized and accepted by local authorized service representatives. |  |
| The vehicle warranty shall provide that, at a minimum, all body repairs needed due to factory defects shall be furnished and installed promptly without charge by authorized service representatives within 36 months or 36,000 miles after final delivery of the vehicle.   * OEM Warranty for chassis – 3 years/36,000 miles * OEM warranty for transmission – 5 years/100,000 miles/4,000 engine hours * OEM Warranty Corrosion Perforation – 5 years/unlimited mileage * Tires – standard manufacturer’s warranty |  |
| Air conditioning and seats shall be covered by a 12 month or standard manufacturer’s warranty providing that, at a minimum, all replacement parts and repairs needed due to defects in material or workmanship shall be provided without charge. |  |
| Other equipment (safety interlock, backup warning camera, etc.) shall include standard manufacturer's warranty. |  |
| 1. **COMPLIANCE WITH OEM** | |
| Any modifications made by the body manufacturer shall comply with the OEM chassis manufacturer’s specifications and requirements. For example, the Ford “Qualified Vehicle Modifier" program. |  |

### List of Possible Vehicle Options

* Accessory, Low Floor Minivan, Forward Facing Rear fold away center seat
* Accessory, Low Floor Minivan/Small Transit/Large Transit, Sur-Lok GO2 Oxygen tank holder
* Accessory, Low Floor Minivan, Q-Straint Model #Q-10010 O QRT-360 Retractors with L-Track Fittings and Q8-6325-A Standard Lap & Shoulder Belt Assembly
* Accessory, Low Floor Minivan - Rear Entry Ramp
* Accessory, Low Floor Minivan "30" x 57" Swing Away Ramp
* Accessory, Small Transit/Large Transit, Deluxe Driver's Seat
* Accessory, Small/Large Transit, Public Information System (Permits the driver, or recorded human speech messages, to announce stops and provide other passenger information within the vehicle)
* Accessory, Small Transit, Chassis Size 12,500 GVWR 158" WB (In lieu of the standard chassis size)
* Accessory, Small/Large Transit, Passenger Call Bell System
* Accessory, Small/Large Transit, Solid Color Paint Scheme
* Accessory, Small/Large Transit, Two-Way Radio Wiring
* Accessory, Small/Large Transit, Locking Fare Box with Two Vaults
* Accessory, Small Transit, Hanover DD054 Front/DD139 Side & OCU Controller
* Accessory, Small/Large Transit, Stainless Steel Full Wheel overs/Inserts/Liners
* Accessory, Small/Large Transit, Additional Mobility-Aid Position
* Accessory, Small/Large Transit, Dual Language Signage
* Accessory, Small/Large Transit, Emergency Window(S) Ajar Warning
* Accessory, Small/Large Transit, Fold Away Seat – Two Passenger (The fold away seat is installed at the mobility aid positions in a vehicle equipped with a lift system)
* Accessory, Small/Large Transit, Fold Away Seat – One Passenger (The fold away seat is installed at the mobility aid positions in a vehicle equipped with a lift system)
* Accessory, Small/Large Transit, Flat Floor With No Wheel Wells
* Accessory, Small/Large Transit, Emergency Exit Window(s) in lieu of a rear emergency exit door
* Accessory, Small/Large Transit, Battery System (Stainless steel pull-out battery tray
* Accessory, Small/Large Transit, Diagnostic scanner tool
* Accessory, Small/Large Transit, Delete Lift
* Accessory, Small/Large Transit, Delete Moveable Arm Rests
* Accessory, Small/Large Transit, Publications - Bus Body
* Accessory, Large Transit, Hanover DD054 Front/DD139 Side & OCU Controller
* Accessory, Large Transit, 12 Ambulatory/ 2 W/C Bus Body Size in lieu of the standard body size
* Accessory, Large Transit, 12 Ambulatory/ 2 W/C Bus (Body Length 285" bumper to bumper, In lieu of the standard body size)

This is not a comprehensive list of options. Typically, INDOT has paid the federal share for a “base vehicle”, while allowing a grantee to select options using local funds. Subrecipients have the flexibility to request options that are not on this list.

INDOT is open to additional options not on this list that may provide further benefits to its grantees.

The cost of options will not be used in the evaluation of the bid proposals. INDOT will finalize options with the chosen vendor prior to contract signing.

INDOT expects vendors to suggest similar options for the Ford Transit Cutaway.

### Required Supplemental Information

The following technical information and descriptive material is to be furnished by the Respondent as part of the proposal. The proposal will be considered non-responsive if any of the information is not provided. Please label each piece of information and any necessary attachments clearly.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Required Information** | **Low Floor Minivan** | **Small Transit** | **Large Transit** | **Ford Transit Cutaway** |
| 1. Any and all exceptions to the specifications. | ✓ | ✓ | ✓ | ✓ |
| 1. Description of vehicle and equipment, including chassis make and model, engine size, GVWR, interior dimensions, and all other pertinent information as required by the specifications or required to allow proper evaluation to determine the responsiveness of the proposal. | ✓ | ✓ | ✓ | ✓ |
| 1. Certifications of meeting Federal Motor Vehicle Safety Standards. | ✓ | ✓ | ✓ | ✓ |
| 1. Final Test Report from the Pennsylvania Transportation Institute Bus Testing Facility in Altoona, Pennsylvania\* | ✓ | ✓ | ✓ | ✓ |
| 1. Proposed interior floor plan, showing detailed dimensions including the location of securement track system. | ✓ | ✓ | ✓ | ✓ |
| 1. A list of the standard or available exterior paint colors. | ✓ | ✓ | ✓ | ✓ |
| 1. A list of authorized service representatives for chassis, body and body parts, and ancillary equipment (see Warranty Work in this Attachment). | ✓ | ✓ | ✓ | ✓ |
| 1. Ramp information | ✓ |  |  | ✓ |
| 1. Lift information |  | ✓ | ✓ |  |
| 1. Securement system information | ✓ | ✓ | ✓ | ✓ |
| 1. Occupant restraint system information | ✓ | ✓ | ✓ | ✓ |
| 1. Forward facing fold away information | ✓ | ✓ | ✓ | ✓ |
| 1. Descriptive material of the air conditioning equipment |  | ✓ | ✓ |  |
| 1. Buy America certification, along with breakdown by percentage (of total price) by component and major subcomponents | ✓ | ✓ | ✓ | ✓ |

\*Useful life for mobility vans in this RFP is 4 years/100,000 miles.

1. **Pre-servicing delivery**

All vehicles and their additional equipment furnished shall be completely serviced and conditioned prior to delivery. All equipment shall be completely installed, and all adjustments shall be made that are required to prepare the vehicle and its additional equipment for immediate and continuous operation upon delivery. Pre-delivery servicing shall include as a minimum the following:

1. Focus lights.
2. Tune engine.
3. Check electrical, braking and suspension system.
4. Charge battery.
5. Align front end.
6. Balance all wheels (spin balance).
7. The cooling system shall be protected with permanent type anti-freeze and summer coolant to twenty-five degrees below zero Fahrenheit.
8. Service windshield washer reservoir with water and appropriate additives or with windshield washer fluid.
9. Complete lubrication.
10. Fill crankcase with oil.
11. Fuel tank must contain at least 3 gallons of fuel when delivered.
12. Wash and clean interior and exterior of vehicle.
13. Provide each vehicle upon delivery a pamphlet/brochure and website describing (and instructing) the use of the securement system.
14. Furnish with each vehicle the manufacturer's owner service policy and warranty for the vehicle body, the vehicle chassis, and all additional equipment. The owner service policies and warranties shall be recognized and accepted by local authorized service representatives.
15. The vendor shall supply the recipient agency at the time of delivery a detailed maintenance and inspection schedule for the vehicle. The maintenance and inspection schedule shall incorporate the required maintenance and inspection of the basic vehicle and its subsystems (e.g. ramp, securement devices, etc.) as prescribed by respective manufacturers.
16. The vendor shall deliver the vehicles to a mutually agreed upon location/facility in the Indianapolis area. Agency names, contacts, addresses and phone numbers will be provided to the vendor prior to delivery.

### Warranty Work

All normal warranty work on chassis and chassis manufacturer’s factory installed equipment shall be accomplished within at a location within one of the three service area regions in Indiana (see map below).

It is recognized that the vehicle and associated on board equipment warranty responsibility may be divided among more than one warranting agency. However, if after the authorized factory service representative for a particular item has been contacted and satisfactory warranty repair cannot be obtained, it shall be the successful Respondent’s responsibility to act as liaison for the agency in obtaining warranty repair to ensure the vehicle is placed in operable condition without unnecessary delay.

Respondent must provide the following information for each proposed vehicle.

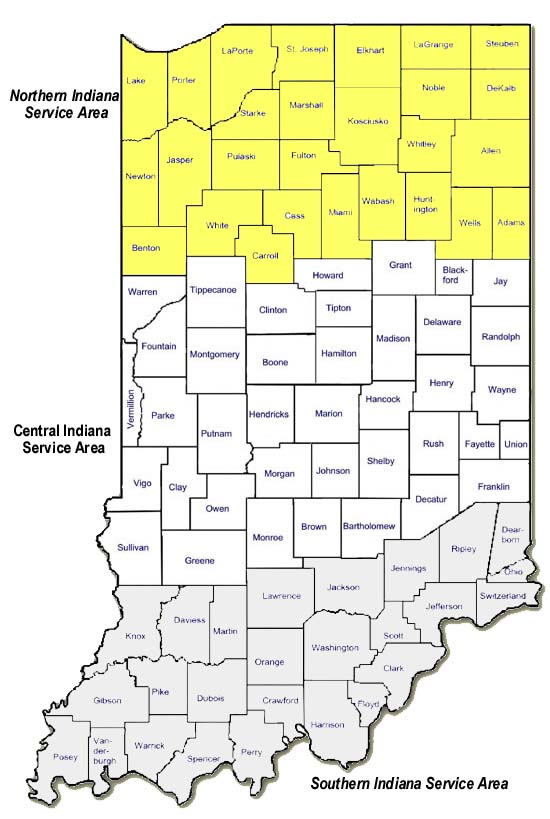
1. Chassis manufacturer warranty
2. Body manufacturer warranty
3. Chassis/Body Service centers by region (see attached map), including phone numbers and e-mail addresses
4. Lift or ramp manufacturer warranty and service centers by region (see attached map), including phone numbers and e-mail addresses
5. Procedures to follow when warranty repairs are needed
6. Procedures for securing replacement parts and retaining defective parts
7. Procedures for reimbursement for warranty parts/labor
8. Delivery time of OEM and non-OEM parts

There must be at least one service center per region for each of the components:

1. Body
2. Chassis
3. Seats
4. Heavy duty alternator (small and large transit vehicles only)
5. Ramp (low floor minivan only)
6. Air conditioning (transit vehicles only)
7. Lift (transit vehicles only)

The proposal will be considered non-responsive if any of the above information is not provided with the proposal.

**Warranty** **Service Area Map (Illustration)**

****

1. **Typical Floor Plans**

The following are examples of acceptable floor plans for each vehicle. However, it is the Respondent’s responsibility to assure that the vehicle proposal meets all specifications (dimensions, etc.) even if using the example floor plans. Other floor plans may be submitted by the Respondent for approval. If they are not approved, the Respondent will have the option of providing a floor plan matching the example for the vehicle, at no cost increase, or of withdrawing their proposal.

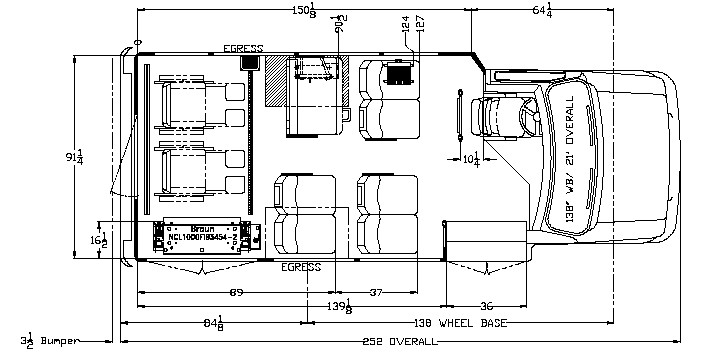
1. **Low Floor Minivan**

The following is an example of acceptable floor plans for low floor minivans, with and without the removable seat option.

****

**b. Small Transit Vehicle**

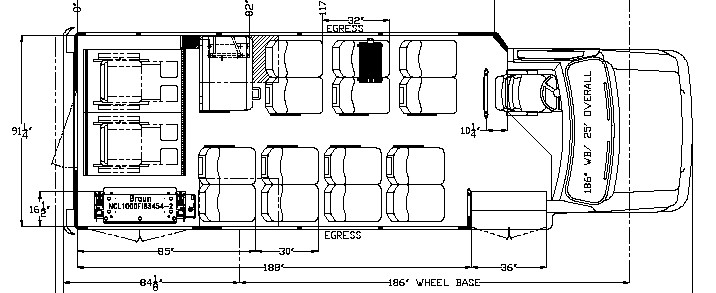
**STANDARD FLOOR PLAN**



With standard seating configuration (8 ambulatory, 2 w/c)

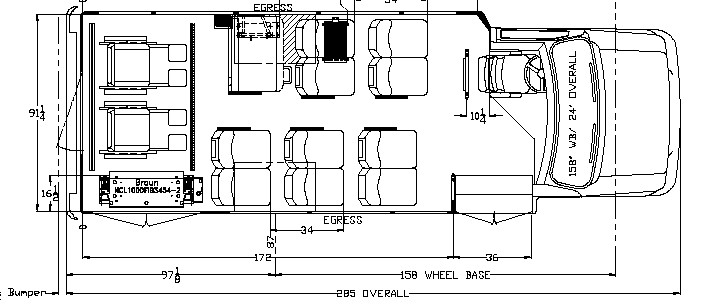
**c. Large Transit Vehicle**

**STANDARD FLOOR PLAN for 176” wheelbase (Large Transit Vehicle)**



Actual floor plans will vary by manufacturer.

**FLOOR PLAN for Option #1 158” w/b** (floor plan will vary by manufacturer)



**d. Ford Transit Cutaway**

Seating Layout - This layout is only illustrative. Actual seating and wheelchair positions will be confirmed by purchaser prior to issuance of purchase order.

A picture containing kitchen appliance, appliance, stove

AI-generated content may be incorrect.

1. **Federal Clauses and Certifications**

Please review the federally required contract clauses in this section, fill in the requested information, and sign where necessary.

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1. **ACCESS TO RECORDS AND REPORTS**
2. Record Retention. The Contractor will retain, and will require its subcontractors of all tiers to retain, complete and readily accessible records related in whole or in part to the contract, including, but not limited to, data, documents, reports, statistics, leases, subcontracts, arrangements, other third party Contracts of any type, and supporting materials related to those records*(INDOT has stricken the requirement for a bid guarantee.)*
3. Retention Period. The Contractor agrees to comply with the record retention requirements in accordance with 2 C.F.R.§ 200.334. The Contractor shall maintain all books, records, accounts and reports required under this Contract for a period of at not less than three (3) years after the date of termination or expiration of this Contract, except in the event of litigation or settlement of claims arising from the performance of this Contract, in which case records shall be maintained until the disposition of all such litigation, appeals, claims or exceptions related thereto.
4. Access to Records. The Contractor agrees to provide sufficient access to FTA and its contractors to inspect and audit records and information, including such records and information the contractor or its subcontractors may regard as confidential or proprietary, related to performance of this contract in accordance with 2 CFR§ 200.337.
5. Access to the Sites of Performance. The Contractor agrees to permit FTA and its contractors access to the sites of performance under this contract in accordance with 2 CFR§ 200.337.
6. **AMERICANS WITH DISABILITIES ACT(ADA)**

The contractor agrees to comply with all applicable requirements of section 504 of the Rehabilitation Act of 1973, as amended, 29 U.S.C.§ 794, which prohibits discrimination on the basis of handicaps, with the Americans with Disabilities Act of 1990 (ADA), as amended, 42 U.S.C.§§ 12101 et seq., which requires that accessible facilities and services be made available to persons with disabilities, including any subsequent amendments to that Act, and with the Architectural Barriers act of 1968, as amended, 42 U.S.C.§§ 4151 et seq., which requires that buildings and public accommodations be accessible to persons with disabilities, including any subsequent amendments to that Act. In addition, the contractor agrees to comply with any and all applicable requirements issued by the FTA, DOT, DOJ, U.S. GSA, U.S. EEOC, U.S. FCC, any subsequent amendments thereto and any other nondiscrimination statute(s) that may apply to the Project.

1. **BUS TESTING**

The Contractor [Manufacturer] agrees to comply with the Bus Testing requirements under 49 U.S.C. 5318(e) and FTA's implementing regulation at 49 C.F.R. part 665 to ensure that the requisite testing is performed for all new bus models or any bus model with a major change in configuration or components, and that the bus model has achieved a passing score. Upon completion of the testing, the contractor shall obtain a copy of the bus testing reports from the operator of the testing facility and make that report(s) publicly available prior to final acceptance of the first vehicle by the recipient.

1. **BUY AMERICA REQUIREMENTS**

The contractor agrees to comply with 49 U.S.C. 53230) and 49 C.F.R. part 661 and 2 CFR§ 200.322 Domestic preferences for procurements, which provide that Federal funds may not be obligated unless all steel, iron, and manufactured products used in FTA funded projects are produced in the United States, unless a waiver has been granted by FTA or the product is subject to a general waiver. General waivers are listed in 49 C.F.R.§ 661.7.

Build America, Buy America Act. Construction materials used in the Project are subject to the domestic preference requirement of the Build America, Buy America Act, Pub. L. 117-58, div. G, tit. IX,§§ 70911 - 70927 (2021), as implemented by the U.S. Office of Management and Budget's "Buy America Preferences for Infrastructure Projects," 2 CFR Part 184. The Recipient acknowledges that this agreement is neither a waiver of§ 70914(a) nor a finding under§ 70914{b). In accordance with 2 CFR§ 184.2(a), the Recipient shall apply the standards of 49 CFR Part 661 to iron, steel, and manufactured products.

Separate requirements for rolling stock are set out at 49 U.S.C. 5323G)(2)(C), 49 U.S.C.§ 5323(u) and 49 C.F.R.§ 661.11. Domestic preferences for procurements

The bidder or offeror must submit to the Agency the appropriate Buy America certification. Bids or offers that are not accompanied by a completed Buy America certification will be rejected as nonresponsive. For more information please see the FTA's Buy America webpage at: https:/[/www.transit.dot.gov/buyamerica](http://www.transit.dot.gov/buyamerica)

1. **CARGO PREFERENCE REQUIREMENTS**

The contractor agrees:

1. to use privately owned United States-Flag commercial vessels to ship at least 50 percent of any equipment, materials or commodities procured, contracted for or otherwise obtained with funds granted, guaranteed, loaned, or advanced by the U.S. Government under this agreement, and which may be transported by ocean vessel, shall be transported on privately owned United States-flag commercial vessels, if available. 46 U.S.C.§ 55305, and U.S. Maritime Administration regulations, "Cargo Preference - U.S.-Flag Vessels," 46 CFR Part 381.
2. to furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in 46 CFR § 381.7(a)(1) shall be furnished to both the recipient (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590; and
3. to include these requirements in all subcontracts issued pursuant to this contract when the subcontract may involve the transport of equipment, material, or commodities by ocean vessel.
4. **CHANGES TO FEDERAL REQUIREMENTS**

Federal requirements that apply to the Recipient or the Award, the accompanying Underlying Agreement, and any Amendments thereto may change due to changes in federal law, regulation, other requirements, or guidance, or changes in the Recipient's Underlying Agreement including any information incorporated by reference and made part of that Underlying Agreement; and

Applicable changes to those federal requirements will apply to each Third Party Agreement and parties thereto at any tier.

1. **CIVIL RIGHTS LAWS AND REGULATIONS**

The following Federal Civil Rights laws and regulations apply to all contracts.

The Contractor and any subcontractor agree to comply with all the requirements prohibiting discrimination on the basis of race, color, or national origin of the TiUe VI of the Civil Rights Action of 1964, as amended 52 U.S.C 2000d, and U.S. DOT regulation "Nondiscrimination in Federally-Assisted Programs of the Department of Transportation - Effectuation of the Title VI of the Civil rights Act, "49 C.F. R. Part 21 and any implementing requirement FTA may issue.

1. **Federal Equal Employment Opportunity** (EEO) Requirements.These include, but are not limited to:
   * + Nondiscrimination in Federal Public Transportation Programs. 49 U.S.C. § 5332, covering projects, programs, and activities financed under 49 U.S.C. Chapter 53, prohibits discrimination on the basis of race, color, religion, national origin, sex (including sexual orientation), disability, or age, and prohibits discrimination in employment or business opportunity.
     + Prohibition against Employment Discrimination. TiUe VII of the Civil Rights Act of 1964, as amended, 42 U.S.C. § 2000e, Title VI of the Civil Rights Act of 1964," 49 CFR Part 21, and 49 U.S.C. § 5332, prohibits discrimination in employment on the basis of race, color, religion, sex, or national origin.
2. **Nondiscrimination on the Basis of Sex.** Title IX of the Education Amendments of 1972, as amended, 20 U.S.C. § 1681 et seq. and implementing Federal regulations, "Nondiscrimination on the Basis of Sex in Education Programs or Activities Receiving Federal Financial Assistance," 49 C.F.R. part 25 prohibit discrimination on the basis of sex.
3. **Nondiscrimination on the Basis** of **Age.** The "Age Discrimination Act of 1975," as amended, 42 U.S.C. § 6101 et seq., and Department of Health and Human Services implementing regulations, "Nondiscrimination on the Basis of Age in Programs or Activities Receiving Federal Financial Assistance," 45

C.F.R. part 90, prohibit discrimination by participants in federally assisted programs against individuals on the basis of age. The Age Discrimination in Employment Act (ADEA), 29 U.S.C. § 621 et seq., and Equal Employment Opportunity Commission (EEOC) implementing regulations, "Age Discrimination in Employment Act," 29 C.F.R. part 1625, also prohibit employment discrimination against individuals age 40 and over on the basis of age.

1. **Federal Protections for Individuals with Disabilities.** The Americans with Disabilities Act of 1990, as amended (ADA), 42 U.S.C. § 12101 et seq., prohibits discrimination against qualified individuals with disabilities in programs, activities, and services, and imposes specific requirements on public and private entities. Third party contractors must comply with their responsibilities under Titles I, 11, 111, IV, and V of the ADA in employment, public services, public accommodations, telecommunications, and other provisions, many of which are subject to regulations issued by other Federal agencies.

**Civil Rights and Equal Opportunity**

The Agency is an Equal Opportunity Employer. As such, the Agency agrees to comply with all applicable Federal civil rights laws and implementing regulations. Apart from inconsistent requirements imposed by Federal laws or regulations, the Agency agrees to comply with the requirements of 49 U.S.C.

§ 5323(h) (3) by not using any Federal assistance awarded by FTA to support procurements using exclusionary or discriminatory specifications. Under this Contract, the Contractor shall at all times comply with the following requirements and shall include these requirements in each subcontract entered into as part thereof.

1. **Nondiscrimination.** In accordance with Federal transit law at 49 U.S.C. § 5332, the Contractor agrees that it will not discriminate against any employee or applicant for employment because of race, color, religion, national origin, sex, disability, or age. In addition, the Contractor agrees to comply with applicable Federal implementing regulations and other implementing requirements FTA may issue.
2. **Equal Employment Opportunity.** In accordance with TiUe VII of the Civil Rights Act, as amended, 42 U.S.C. § 2000e et seq., Title I of the Americans with Disabilities Act of 1990, as amended, 42 U.S.C. §§ 12101, et seq.; and Federal transit laws at 49 U.S.C. § 5332, the Contractor agrees to comply with all applicable equal employment opportunity requirements, without regard to their race, color, religion, national origin, or sex (including sexual orientation). In addition, the Contractor agrees to comply with any implementing requirements FTA may issue.
3. **Age.** In accordance with the Age Discrimination in Employment Act, 29 U.S.C. §§ 621-634, U.S. Equal Employment Opportunity Commission (U.S. EEOC) regulations, "Age Discrimination in Employment Act," 29 C.F.R. part 1625, the Age Discrimination Act of 1975, as amended, 42 U.S.C. § 6101 et seq., U.S. Health and Human Services regulations, "Nondiscrimination on the Basis of Age in Programs or Activities Receiving Federal Financial Assistance," 45 C.F.R. part 90, and Federal transit law at 49 U.S.C. § 5332, the Contractor agrees to refrain from discrimination against present and prospective employees for reason of age. In addition, the Contractor agrees to comply with any Implementing requirements FTA may issue.
4. **Disabilities.** In accordance with section 504 of the Rehabilitation Act of 1973, as amended, 29 U.S.C. § 794, the Americans with Disabilities Act of 1990, as amended, 42 U.S.C. § 12101 et seq., the Architectural Barriers Act of 1968, as amended, 42 U.S.C. § 4151 et seq., and Federal transit law at 49 U.S.C. § 5332, the Contractor agrees that it will not discriminate against individuals on the basis of disability. In addition, the Contractor agrees to comply with any implementing requirements FTA may issue.
5. **Federal Law and Public Policy Requirements.** The Contractor shall ensure that Federal funding is expended in full accordance with the U.S. Constitution, Federal Law, and statutory and public policy requirements: including, but not limited to, those protecting free speech, religious liberty, public welfare, the environment, and prohibiting discrimination; and the Recipient will cooperate with Federal officials in the enforcement of Federal law, including cooperating with and not impeding U.S. Immigration and Customs Enforcement (ICE) and other Federal offices and components of the Department of Homeland Security in the enforcement of Federal immigration law.
6. **CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT**

The Contractor agrees to comply with all applicable standards, orders, or regulations issued pursuant to the Clean Air Act (42 U.S.C. § 7401-7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. § 1251-1387). Violations must be reported to FTA and the Regional Office of the Environmental Protection Agency. The following applies for contracts of amounts in excess of $150,000:

Clean Air Act

1. The contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq.
2. The contractor agrees to report each violation to the Agency and understands and agrees that the Agency will, in tum, report each violation as required to assure notification to the Agency, Federal Emergency Management Agency, and the appropriate Environmental Protection Agency Regional Office.
3. The contractor agrees to include these requirements in each subcontract exceeding $150,000 financed in whole or in part with Federal assistance provided by FTA.

Federal Water Pollution Control Act

1. The contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Federal Water Pollution Control Act, as amended, 33 U.S.C. 1251 et seq.
2. The contractor agrees to report each violation to the Agency and understands and agrees that the Agency will, in tum, report each violation as required to assure notification to the Agency, Federal Emergency Management Agency, and the appropriate Environmental Protection Agency Regional Office.
3. The contractor agrees to include these requirements in each subcontract exceeding $150,000 financed in whole or in part with Federal assistance provided by FTA."
4. **CONTRACT WORK HOURS AND SAFETY STANDARDS ACT**
5. Applicability: This requirement applies to all FTA grant and cooperative agreement programs.
6. Where applicable (see 40 U.S.C. § 3701), all contracts awarded by the non-Federal entity in excess of $100,000 that involve the employment of mechanics or laborers must include a provision for compliance with 40 U.S.C. §§ 3702 and 3704, as supplemented by Department of Labor regulations at 29 C.F.R. Part 5. See 2 C.F.R. Part 200, Appendix II.
7. Under 40 U.S.C. § 3702, each contractor must be required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week.
8. The requirements of 40 U.S.C. § 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.
9. The regulation at 29 C.F.R. § 5.5(b) provides the required contract clause concerning compliance with the Contract Work Hours and Safety Standards Act:

Compliance with the Contract Work Hours and Safety Standards Act

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.
2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1) of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1) of this section, in the sum of $10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1) of this section.
3. Withholding for unpaid wages and liquidated damages. The agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2) of this section.
4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1) through (4) of this section."

7. **DEBARMENT AND SUSPENSION**

Debarment and Suspension (Executive Orders 12549 and 12689). A covered transaction (see 2 C.F.R. §§ 180.220 and 1200.220) must not be entered into with any party listed on the govemmentwide exclusions in the System for Award Management (SAM), in accordance with the 0MB guidelines at 2 C.F.R. 180 that implement Executive Orders 12549 (31 U.S.C. § 6101 note, 51 Fed. Reg. 6370,) and 12689 (31 U.S.C. § 6101 note, 54 Fed. Reg. 34131), "Debarment and Suspension." SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549. The Recipient agrees to include, and require each Third Party Participant to include, a similar provision in each lower tier covered transaction, ensuring that each lower tier Third Party Participant:

1. Complies with federal debarment and suspension requirements; and
2. Reviews the SAM at https:/[/www.sam.gov,](http://www.sam.gov/) if necessary to comply with U.S. DOT regulations, 2 CFR Part 1200.
3. **DISADVANTAGED BUSINESS ENTERPRISE (DBE)**

*(Does not apply to projects fully funded by the Tribal Transportation Program (TTP).)*

It is the policy of the Agency and the United States Department of Transportation ("DOT") that Disadvantaged Business Enterprises ("DBE's"), as defined herein and in the Federal regulations published at 49 C.F.R. part 26, shall have an equal opportunity to participate in DOT-assisted contracts.

The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 C.F.R. part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the Agency deems appropriate, which may include, but is not limited to:

1. Withholding monthly progress payments;
2. Assessing sanctions;
3. Liquidated damages; and/or
4. Disqualifying the contractor from future bidding as non-responsible. 49 C.F.R. § 26.13(b).

Prime contractors are required to pay subcontractors for satisfactory performance of their contracts no later than 30 days from receipt of each payment the Agency makes to the prime contractor. 49 C.F.R. § 26.29(a).

Finally, for contracts with defined DBE contract goals, the contractor shall utilize the specific DBEs listed unless the contractor obtains the Agency's written consent; and that, unless the Agency's consent is provided, the contractor shall not be entiUed to any payment for work or material unless it is performed or supplied by the listed DBE. 49 C.F.R. § 26.53(f) (1).

1. **ENERGY CONSERVATION**

The contractor agrees to comply with mandatory standards and policies relating to energy efficiency, which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (42 U.S.C.§ 6201).

1. **FLY AMERICA**
2. Definitions. As used in this clause--
   1. "International air transportation" means transportation by air between a place in the United States and a place outside the United States or between two places both of which are outside the United States. 2) "United States" means the 50 States, the District of Columbia, and outlying areas. 3) "U.S.-flag air carrier'' means an air carrier holding a certificate under 49 U.S.C. Chapter 411.
3. When Federal funds are used to fund travel, Section 5 of the International Air Transportation Fair Competitive Practices Act of 1974 (49 U.S.C. 40118) (Fly America Act) requires contractors, Agencys, and others use U.S.-flag air carriers for U.S. Government-financed international air transportation of personnel (and their personal effects) or property, to the extent that service by those carriers is available. It requires the Comptroller General of the United States, in the absence of satisfactory proof of the necessity for foreign-flag air transportation, to disallow expenditures from funds, appropriated or otherwise established for the account of the United States, for international air transportation secured aboard a foreign-flag air carrier if a U.S.-flag air carrier is available to provide such services.
4. If available, the Contractor, in performing work under this contract, shall use U.S.-flag carriers for international air transportation of personnel (and their personal effects) or property.
5. In the event that the Contractor selects a carrier other than a U.S.-flag air carrier for international air transportation, the Contractor shall include a statement on vouchers involving such transportation essentially as follows:

Statement of Unavailability of US Flag Carriers

International air transportation of persons (and their personal effects) or property by U.S.-flag air carrier was not available or it was necessary to use foreign­ flag air carrier service for the following reasons. See FAR § 47.403. [State reasons]:

1. Contractor shall include the substance of this clause, including this paragraph (e), in each subcontract or purchase under this contract that may involve international air transportation.
2. **INCORPORATION OF FEDERAL TRANSIT ADMINISTRATION (FTA) TERMS**

The provisions within include, in part, certain Standard Terms and Conditions required under the Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (2 CFR § 200), whether or not expressly set forth in the preceding contract provisions. All contractual provisions required by DOT, detailed in 2 CFR § 200 or as amended by 2 CFR § 1201, or the most recent version of FTA Circular 4220.1 are hereby incorporated by reference. Anything to the contrary herein notwithstanding, all mandated terms shall be deemed to control in the event of a conflict with other provisions contained in this Contract. The Contractor shall not perform any act, fail to perform any act, or refuse to comply with any request which would cause a violation of the FTA terms and conditions.

1. **NO GOVERNMENT OBLIGATION TO THIRD PARTIES**

The Recipient and Contractor acknowledge and agree that, notwithstanding any concurrence by the Federal Government in or approval of the solicitation or award of the underlying Contract, absent the express written consent by the Federal Government, the Federal Government is not a party to this Contract and shall not be subject to any obligations or liabilities to the Recipient, Contractor or any other party (whether or not a party to that contract) pertaining to any matter resulting from the underlying Contract. The Contractor agrees to include the above clause in each subcontract financed in whole or in part with Federal assistance provided by the FTA. It is further agreed that the clause shall not be modified, except to identify the subcontractor who will be subject to its provisions.

1. **NOTICE TO FTA AND U.S. DOT INSPECTOR GENERAL OF INFORMATION RELATED TO FRAUD, WASTE, ABUSE, OR OTHER LEGAL MATTERS**

If a current or prospective legal matter that may affect the Federal Government emerges, the Recipient must prompUy notify the FTA Chief Counsel and FTA Regional Counsel for the Region in which the Recipient is located. The Recipient must include a similar notification requirement in its Third Party Agreements and must require each Third Party Participant to include an equivalent provision in its subagreements at every tier, for any agreement that is a "covered transaction" according to 2 C.F.R. §§ 180.220 and 1200.220.

1. The types of legal matters that require notification include, but are not limited to, a major dispute, breach, default, litigation, or naming the Federal Government as a party to litigation or a legal disagreement in any forum for any reason.
2. Matters that may affect the Federal Government include, but are not limited to, the Federal Government's interests in the Award, the accompanying Underlying Agreement, and any Amendments thereto, or the Federal Government's administration or enforcement of federal laws, regulations, and requirements.
3. The Recipient must prompUy notify the U.S. DOT Inspector General in addition to the FTA Chief Counsel or Regional Counsel for the Region in which the Recipient is located, if the Recipient has knowledge of potential fraud, waste, or abuse occurring on a Project receiving assistance from FTA. The notification provision applies if a person has or may have submitted a false claim under the False Claims Act, 31 U.S.C. § 3729 et seq., or has or may have committed a criminal or civil violation of law pertaining to such matters as fraud, conflict of interest, bribery, gratuity, or similar misconduct. This responsibility occurs whether the Project is subject to this Agreement or another agreement between the Recipient and FTA, or an agreement involving a principal, officer,

employee, agent, or Third Party Participant of the Recipient. It also applies to subcontractors at any tier. Knowledge, as used in this paragraph, includes, but is not limited to, knowledge of a criminal or civil investigation by a Federal, state, or local law enforcement or other investigative agency, a criminal indictment or civil complaint, or probable cause that could support a criminal indictment, or any other credible information in the possession of the Recipient.

1. **PROGRAM FRAUD AND FALSE OR FRAUDULENT STATEMENTS AND RELATED ACTS**

The Contractor acknowledges that the provisions of the Program Fraud Civil Remedies Act of 1986, as amended, 31 U.S.C. § 3801 et seq. and U.S. DOT regulations, "Program Fraud Civil Remedies," 49 C.F.R. part 31, apply to its actions pertaining to this Project. Upon execution of the underlying contract, the Contractor certifies or affirms the truthfulness and accuracy of any statement it has made, it makes, it may make, or causes to be made, pertaining to the underlying contract or the FTA assisted project for which this contract work is being performed. In addition to other penalties that may be applicable, the Contractor further acknowledges that if it makes, or causes to be made, a false, fictitious, or fraudulent claim, statement, submission, or certification, the Federal Government reserves the right to impose the penalties of the Program Fraud Civil Remedies Act of 1986 on the Contractor to the extent the Federal Government deems appropriate.

The Contractor also acknowledges that if it makes, or causes to be made, a false, fictitious, or fraudulent claim, statement, submission, or certification to the Federal Government under a contract connected with a project that is financed in whole or in part with Federal assistance originally awarded by FTA under the authority of 49 U.S.C. chapter 53, the Government reserves the right to impose the penalties of 18 U.S.C. § 1001 and 49 U.S.C. § 5323(1) on the Contractor, to the extent the Federal Government deems appropriate.

The Contractor agrees to include the above two clauses in each subcontract financed in whole or in part with Federal assistance provided by FTA. It is further agreed that the clauses shall not be modified, except to identify the subcontractor who will be subject to the provisions.

1. **PRE-AWARD AND POST-DELIVERY AUDITS OF ROLLING STOCK PURCHASES**

The Contractor agrees to comply with 49 U.S.C. § 5323(m) and FTA's implementing regulation at 49 C.F.R. part 663. The Contractor shall comply with the Buy America certification(s) submitted with its proposal/bid. The Contractor agrees to participate and cooperate in any pre-award and post-delivery audits performed pursuant to 49 C.F.R. part 663 and related FTA guidance.

1. **PROHIBITION ON CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT.**
2. Recipients and subrecipients are prohibited from obligating or expending loan or grant funds to:
   1. Procure or obtain covered telecommunications equipment or services;
   2. Extend or renew a contract to procure or obtain covered telecommunications equipment or services; or
   3. Enter into a contract (or extend or renew a contract) to procure or obtain covered telecommunications equipment or services.
3. As described in section 889 of Public Law 115-232, "covered telecommunications equipment or services" means any of the following:
   1. Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities);
   2. For the purpose of public safety, security of government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities);
   3. Telecommunications or video surveillance services provided by such entities or using such equipment;
   4. Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of the National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country;
4. For the purposes of this section, "covered telecommunications equipment or services" also include systems that use covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system.
5. In implementing the prohibition under section 889 of Public Law 115-232, heads of executive agencies administering loan, grant, or subsidy programs must prioritize available funding and technical support to assist affected businesses, institutions and organizations as is reasonably necessary for those affected entities to transition from covered telecommunications equipment or services, to procure replacement equipment or services, and to ensure that communications service to users and customers is sustained.
6. When the recipient or subrecipient accepts a loan or grant, it is certifying that it will comply with the prohibition on covered telecommunications equipment and services in this section. The recipient or subrecipient is not required to certify that funds will not be expended on covered telecommunications equipment or services beyond the certification provided upon accepting the loan or grant and those provided upon submitting payment requests and financial reports.
7. For additional information, see section 889 of Public Law 115-232 and 200.471.
8. **PROMPT PAYMENT**

*(Does not apply to projects fully funded by the Tribal Transportation Program (TTP).)*

The contractor is required to pay its subcontractors performing work related to this contract for satisfactory performance of that work no later than 30 days after the contractor's receipt of payment for that work. In addition, the contractor is required to return any retainage payments to those subcontractors within 30 days after the subcontractor's work related to this contract is satisfactorily completed.

The contractor must promptly notify the Agency, whenever a DBE subcontractor performing work related to this contract is terminated or fails to complete its work and must make good faith efforts to engage another DBE subcontractor to perform at least the same amount of work. The contractor may not terminate any DBE subcontractor and perform that work through its own forces or those of an affiliate without prior written consent of the Agency.

1. **RESTRICTIONS ON LOBBYING**

**Conditions on use of funds.**

1. No appropriated funds may be expended by the recipient of a Federal contract, grant, loan, or cooperative agreement to pay any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with any of the following covered Federal actions: the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
2. Each person who requests or receives from an agency a Federal contract, grant, loan, or cooperative agreement shall file with that agency a certification, that the person has not made, and will not make, any payment prohibited by paragraph (a) of this section.
3. Each person who requests or receives from an agency a Federal contract, grant, loan, or a cooperative agreement shall file with that agency a disclosure form if such person has made or has agreed to make any payment using nonappropriated funds (to include profits from any covered Federal action), which would be prohibited under paragraph (a) of this section if paid for with appropriated funds.
4. Each person who requests or receives from an agency a commitment providing for the United States to insure or guarantee a loan shall file with that agency a statement, whether that person has made or has agreed to make any payment to influence or attempt to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with that loan insurance or guarantee.
5. Each person who requests or receives from an agency a commitment providing for the United States to insure or guarantee a loan shall file with that agency a disclosure form if that person has made or has agreed to make any payment to influence or attempt to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with that loan insurance or guarantee.

**Certification and disclosure.**

1. Each person shall file a certification, and a disclosure form, if required, with each submission that initiates agency consideration of such person for:
   1. Award of a Federal contract, grant, or cooperative agreement exceeding $100,000; or
   2. An award of a Federal loan or a commitment providing for the United States to insure or guarantee a loan exceeding $150,000.
2. Each person shall file a certification, and a disclosure form, if required, upon receipt by such person of:
   1. A Federal contract, grant, or cooperative agreement exceeding $100,000; or
   2. A Federal loan or a commitment providing for the United States to insure or guarantee a loan exceeding $150,000,

**Unless such person previously filed a certification, and a disclosure form, if required, under paragraph (a) of this section.**

1. Each person shall file a disclosure form at the end of each calendar quarter in which there occurs any event that requires disclosure or that materially affects the accuracy of the information contained in any disclosure form previously filed by such person under paragraphs (a) or (b) of this section. An event that materially affects the accuracy of the information reported includes:
   1. A cumulative increase of $25,000 or more in the amount paid or expected to be paid for influencing or attempting to influence a covered Federal action; or
   2. A change in the person(s) or individual(s) influencing or attempting to influence a covered Federal action; or,
   3. A change in the officer(s), employee(s), or Member(s) contacted to influence or attempt to influence a covered Federal action.
2. Any person who requests or receives from a person referred to in paragraphs (a) or (b) of this section:
   1. A subcontract exceeding $100,000 at any tier under a Federal contract;
   2. A subgrant, contract, or subcontract exceeding $100,000 at any tier under a Federal grant;
   3. A contract or subcontract exceeding $100,000 at any tier under a Federal loan exceeding $150,000; or,
   4. A contract or subcontract exceeding $100,000 at any tier under a Federal cooperative agreement,

**Shall file a certification, and a disclosure form, if required, to the next tier above.**

1. All disclosure forms, but not certifications, shall be forwarded from tier to tier until received by the person referred to in paragraphs (a) or (b) of this section. That person shall forward all disclosure forms to the agency.
2. Any certification or disclosure form filed under paragraph (e) of this section shall be treated as a material representation of fact upon which all receiving tiers shall rely. All liability arising from an erroneous representation shall be borne solely by the tier filing that representation and shall not be shared by any tier to which the erroneous representation is forwarded. Submitting an erroneous certification or disclosure constitutes a failure to file the required certification or disclosure, respectively. If a person fails to file a required certification or disclosure, the United States may pursue all available remedies, including those authorized by section 1352, title 31, U.S. Code.
3. For awards and commitments in process prior to December 23, 1989, but not made before that date, certifications shall be required at award or commitment, covering activities occurring between December 23, 1989, and the date of award or commitment. However, for awards and commitments in process prior to the December 23, 1989 effective date of these provisions, but not made before December 23, 1989, disclosure forms shall not be required at time of award or commitment but shall be filed within 30 days.
4. No reporting is required for an activity paid for with appropriated funds if that activity is allowable under either subpart B or C.
5. **SAFE OPERATION OF MOTOR VEHICLES**

**Seat Belt Use**

The Contractor is encouraged to adopt and promote on-the-job seat belt use policies and programs for its employees and other personnel that operate company-owned vehicles, company rented vehicles, or personally operated vehicles. The terms "company-owned" and "company-leased" refer to vehicles owned or leased either by the Contractor or Agency.

**Distracted Driving**

The Contractor agrees to adopt and enforce workplace safety policies to decrease crashes caused by distracted drivers, including policies to ban text messaging while using an electronic device supplied by an employer, and driving a vehicle the driver owns or rents, a vehicle Contactor owns, leases, or rents, or a privately-owned vehicle when on official business in connection with the work performed under this Contract.

1. **SIMPLIFIED ACQUISITION THRESHOLD**

Contracts for more than the simplified acquisition threshold, which is the inflation adjusted amount determined by the Civilian Agency Acquisition Council and the Defense Acquisition Regulations Council (Councils) as authorized by 41 U.S.C. § 1908, or otherwise set by law, must address administrative, contractual, or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as appropriate. (Note that the simplified acquisition threshold determines the procurement procedures that must be employed pursuant to 2 C.F.R. §§ 200.317-200.327.

The simplified acquisition threshold does not exempt a procurement from other eligibility or processes requirements that may apply. For example, Buy America's eligibility and process requirements apply to any procurement in excess of $150,000. 49 U.S.C. § 5323U)(13).

1. **SPECIAL NOTIFICATION REQUIREMENTS FOR STATES**

Applies to States -

1. To the extent required under federal law, the State, as the Recipient, agrees to provide the following information about federal assistance awarded for its State Program, Project, or related activities:
   1. The Identification of FTA as the federal agency providing the federal assistance for a State Program or Project;
   2. The Catalog of Federal Domestic Assistance Number of the program from which the federal assistance for a State Program or Project is authorized; and
   3. The amount of federal assistance FTA has provided for a State Program or Project.
2. Documents - The State agrees to provide the information required under this provision in the following documents:
   1. applications for federal assistance,
   2. requests for proposals or solicitations,
   3. forms,
   4. notifications,
   5. press releases,
   6. other publications.
3. **TERMINATION**

Termination for Convenience (Gener Provision)

The Agency may terminate this contract, in whole or in part, at any time by written notice to the Contractor when it is in the Agency's best interest. The Contractor shall be paid its costs, including contract close-out costs, and profit on work performed up to the time of termination. The Contractor shall promptly submit its termination claim to Agency to be paid the Contractor. **If** the Contractor has any property in its possession belonging to Agency, the Contractor will account for the same, and dispose of it in the manner Agency directs.

Termination for Default [Breach or Cause] (Gener Provision)

If the Contractor does not deliver supplies in accordance with the contract delivery schedule, or if the contract is for services, the Contractor fails to perform in the manner called for in the contract, or **if** the Contractor fails to comply with any other provisions of the contract, the Agency may terminate this contract for default. Termination shall be effected by serving a Notice of Termination on the Contractor setting forth the manner in which the Contractor is in default. The Contractor will be paid only the contract price for supplies delivered and accepted, or services performed in accordance with the manner of performance set forth in the contract. If it is later determined by the Agency that the Contractor had an excusable reason for not performing, such as a strike, fire, or flood, events which are not the fault of or are beyond the control of the Contractor, the Agency, after setting up a new delivery of performance schedule, may allow the Contractor to continue work, or treat the termination as a Termination for Convenience.

Opportunity to Cure (General Provision)

The Agency, in its sole discretion may, in the case of a termination for breach or default, allow the Contractor [an appropriately short period of time] in which to cure the defect. In such case, the Notice of Termination will state the time period in which cure is permitted and other appropriate conditions

If Contractor fails to remedy to Agency's satisfaction the breach or default of any of the terms, covenants, or conditions of this Contract within [10 days] after receipt by Contractor of written notice from Agency setting forth the nature of said breach or default, Agency shall have the right to terminate the contract without any further obligation to Contractor. Any such termination for default shall not in any way operate to preclude Agency from also pursuing all available remedies against Contractor and its sureties for said breach or default.

Waiver of Remedies for any Breach

In the event that Agency elects to waive its remedies for any breach by Contractor of any covenant, term or condition of this contract, such waiver by Agency shall not limit Agency's remedies for any succeeding breach of that or of any other covenant, term, or condition of this contract.

**VIOLATION AND BREACH OF CONTRACT**

**Disputes:**

Disputes arising in the performance of this Contract that are not resolved by agreement of the parties shall be decided in writing by the authorized representative of the agency. This decision shall be final and conclusive unless within [1O] days from the date of receipt of its copy, the Contractor mails or otherwise furnishes a written appeal to the agencies authorized representative. In connection with any such appeal, the Contractor shall be afforded an opportunity to be heard and to offer evidence in support of its position. The decision of the agencies authorized representative shall be binding upon the Contractor and the Contractor shall abide be the decision.

**Performance during Dispute:**

Unless otherwise directed by the agencies authorized representative, contractor shall continue performance under this contract while matters in dispute are being resolved.

**Claims for Damages:**

Should either party to the contract suffer injury or damage to person or property because of any act or omission of the party or of any of his employees, agents or others for whose acts he is legally liable, a claim for damages therefore shall be made in writing to such other party within a reasonable time after the first observance of such injury or damage.

**Remedies:**

Unless this contract provides otherwise, all claims, counterclaims, disputes and other matters in question between the agencies authorized representative and contractor arising out of or relating to this agreement or its breach will be decided by arbitration if the parties mutually agree, or in a court of competent jurisdiction within the State in which the Agency is located.

**Rights and Remedies:**

Duties and obligations imposed by the contract documents and the rights and remedies available thereunder shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by law. No action or failure to act by the Agency or contractor shall constitute a waiver of any right or duty afforded any of them under the contract, nor shall any such action or failure to act constitute an approval of or acquiescence in any breach thereunder, except as may be specifically agreed in writing.

1. **FEDERAL TAX LIABILITY AND RECENT FELONY CONVICTIONS**
2. The contractor certifies that it:
   1. Does not have any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability; and
   2. Was not convicted of the felony criminal violation under any Federal law within the preceding 24 months.

If the contractor cannot so certify, the Recipient will refer the matter to FTA and not enter into any Third Party Agreement with the Third Party Participant without FTA's written approval.

1. Flow-Down. The Recipient agrees to require the contractor to flow this requirement down to participants at all lower tiers, without regard to the value of any subagreement.
2. **SEVERABILITY**

The Contractor agrees that if any provision of this agreement or any amendment thereto is determined to be invalid, then the remaining provisions thereof that conform to federal laws, regulations, requirements, and guidance will continue in effect.

1. **TRAFFICKING IN PERSONS**

The contractor agrees that it and its employees that participate in the Recipient's Award, may not:

1. Engage in severe forms of trafficking in persons during the period of time that the Recipient's Award is in effect;
2. Procure a commercial sex act during the period of time that the Recipient's Award is in effect; or
3. Use forced labor in the performance of the Recipient's Award or subagreements thereunder.
4. **STATE/FEDERAL GUIDELINES PREVALENCE**

Should any of the State’s Terms and Conditions conflict with the Federal Guidelines, the Federal Guidelines will prevail.

1. **ASSIGNABILITY (PIGGYBACK) CLAUSE**

Federally funded Section 5307, 5310, 5311 and 5339 grant recipients located in the State of Indiana may participate in any contract(s) resulting from this bid with written approval from the Indiana Department of Transportation, Office of Transit Section. INDOT reserves the right to revoke or deny this assignability clause at its discretion. Any grant recipient utilizing any said contract(s) are solely responsible for ensuring compliance with FTA procurement guidelines and regulations.

1. **CERTIFICATION AND RESTRICTIONS ON LOBBYING**

I, hereby certify

(Name and title of official)

On behalf of that:

(Name of Bidder/Company Name)

No federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, and officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any federal contract, the making of any federal grant, the making of any federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any federal contract, grant, loan, or cooperative agreement.

If any funds other than federal appropriated funds have been paid or will be paid to any person influencing or attempting to influence an officer or employee of any agency, a Member of Congress, and officer or employee of Congress, or an employee of a Member of Congress in connection with the federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form – LLL, “Disclosure Form to Report Lobbying,” in accordance with its instructions.

 The undersigned shall require that the language of this certification be included in the award documents for all sub­awards at all tiers (including sub­contracts, sub­grants and contracts under grants, loans, and cooperative agreements) and that all sub­recipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. § 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.,

Name of Bidder/Company Name: Type or print name: Signature of authorized representative: Date / /

1. **GOVERNMENT­WIDE DEBARMENT AND SUSPENSION (NONPROCUREMENT)**

Recipients, contractors, and subcontractors that enter into covered transactions are required to verify that the entity (as well as its principals and affiliates) with which they propose to contract or subcontract is not excluded or disqualified. This is done by: (a) checking the SAM exclusions; (b) collecting a certification from that person (found below); or (c) adding a clause or condition to the contract or subcontract.

**Instructions for Certification:** Signing below indicates the prospective lower tier participant is providing the signed certification.

* 1. It will comply and facilitate compliance with U.S. DOT regulations, “Nonprocurement Suspension and Debarment,” 2 CFR part 1200, which adopts and supplements the U.S. Office of Management and Budget (U.S. OMB) “Guidelines to Agencies on Governmentwide Debarment and Suspension (Nonprocurement),” 2 CFR part 180,
  2. To the best of its knowledge and belief, that its Principals and Subrecipients at the first tier:
     1. Are eligible to participate in covered transactions of any Federal department or agency and are not presently:
        1. Debarred,
        2. Suspended,
        3. Proposed for debarment,
        4. Declared ineligible,
        5. Voluntarily excluded, or
        6. Disqualified
     2. Its management has not within a three­year period preceding its latest application or proposal been convicted of or had a civil judgment rendered against any of them for:
        1. Commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction, or contract under a public transaction,
        2. Violation of any Federal or State antitrust statute, or,
        3. Commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making any false statement, or receiving stolen property,
     3. It is not presently indicted for, or otherwise criminally or civilly charged by a governmental entity (Federal, State, or local) with commission of any of the offenses listed in the preceding subsection 2.b of this Certification,
     4. It has not had one or more public transactions (Federal, State, or local) terminated for cause or default within a three­year period preceding this Certification,
     5. If, at a later time, it receives any information that contradicts the statements of subsections 2.a – 2.d above, it will promptly provide that information to FTA,
     6. It will treat each lower tier contract or lower tier subcontract under its Project as a covered lower tier contract for purposes of 2 CFR part 1200 and 2 CFR part 180 if it:
        1. Equals or exceeds $25,000,
        2. Is for audit services, or,
        3. Requires the consent of a Federal official, and
     7. It will require that each covered lower tier contractor and subcontractor:
        1. Comply and facilitate compliance with the Federal requirements of 2 CFR parts 180 and 1200, and
        2. Assure that each lower tier participant in its Project is not presently declared by any Federal department or agency to be:
           1. Debarred from participation in its federally funded Project,
           2. Suspended from participation in its federally funded Project,
           3. Proposed for debarment from participation in its federally funded Project,
           4. Declared ineligible to participate in its federally funded Project,
           5. Voluntarily excluded from participation in its federally funded Project, or
           6. Disqualified from participation in its federally funded Project, and
  3. It will provide a written explanation as indicated on a page attached in FTA’s TrAMS platform or the Signature Page if it or any of its principals, including any of its first tier Subrecipients or its Third­Party Participants at a lower tier, is unable to certify compliance with the preceding statements in this Certification Group.,

**Certification**

Contractor: Signature of Authorized Official: Date / / Name and Title of Contractor's Authorized Official:

1. **BUS TESTING CERTIFICATION**

The undersigned bidder [Contractor/Manufacturer] certifies that the vehicle model or vehicle models offered in this bid submission complies with 49 U.S.C 5318(e) and FTA's implementing regulation at 49 CFR Part 665.

A copy of the test report (for each bid ITEM) prepared by the Federal Transit Administration’s (FTA) Altoona, Pennsylvania Bus Testing Center is attached to this certification and is a true and correct copy of the test report as prepared by the facility.

The undersigned understands that misrepresenting the testing status of a vehicle acquired with Federal financial assistance may subject the undersigned to civil penalties as outlined in the U.S. Department of Transportation's regulation on Program Fraud Civil Remedies, 49 CFR Part 31. In addition, the undersigned understands that FTA may suspend or debar a manufacturer under the procedures in 49 CFR Part 29.,

Name of Bidder/Company Name: Type or print name: Signature of authorized representative:

Date of Signature: / /

**34a. CERTIFICATE OF COMPLIANCE WITH BUY AMERICA ROLLING STOCK REQUIREMENTS**

The bidder or offeror hereby certifies that it will comply with the requirements of 49 U.S.C. 5323(j), and the applicable regulations in 49 CFR § 661.11

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

Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Company:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Print name:

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

**34b. CERTIFICATE OF NONCOMPLIANCE**

**WITH BUY AMERICA ROLLING STOCK REQUIREMENTS**

The bidder or offeror hereby certifies that it cannot comply with the requirements of 49 U.S.C. 5323(j) but may qualify for an exemption to the requirement consistent with 49 U.S.C. 5323(j)(2), as amended, and the applicable regulations in 49 CFR § 661.7.

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

Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Company:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

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

**35. TRANSIT VEHICLE MANUFACTURER (TVM) DBE CERTIFICATION**

Pursuant to the provisions of Section 105(f) of the Surface Transportation Assistance Act of 1982, each bidder for this contract must certify that it has complied with the requirements of 49 CFR Part 26.49, regarding the participation of Disadvantaged Business Enterprises (DBE) in FTA assisted procurements of transit vehicles. Absent this certification, properly completed and signed, a bid shall be deemed nonresponsive.

**Certification:**

I hereby certify, for the bidder named below, that it has complied with the provisions of 49 CFR Part 26.49 and that I am duly authorized by said bidder to make this certification.

Name of Bidder/Company Name:

Type or print name:

Signature of authorized representative:

Date of Signature: / /