

NOTE: Accepting options to purchase Lowered Floor Mini-Van with Side Entrance Ramp for Wheelchair Access with seating arrangements for 3 Ambulatory and 2 Wheelchair Positions.

DESCRIPTION:

These specifications describe a new Lowered Floor Mini-Van with Side Entrance Ramp for Wheelchair Access, which will be used to transport passengers in both rural and urban areas. The Low floor minivan shall be of substantial and durable construction in all respect, with particular attention given to features, which will provide the safest possible lowered floor minivan for transporting passengers. Prior to entering into a formal contract, the bidder must provide certification of compliance with the Buy America requirements of the Surface Transportation Assistance Act of 1982, as amended in the regulations in 49 CFR Parts 661 and 663; a self-certification for meeting requirements of the Federal Motor Vehicle Safety Standards (FMVSS); and state that it is a responsible manufacturer with the capability to produce a vehicle that meets the purchaser's requirements.

The pre-award and post-delivery audits for compliance with the requirements of Buy America will be conducted by a person who is not an employee or agent of the manufacturer.

The bidder shall certify that all equipment provided meets or exceeds all state and federal requirements applicable to the equipment. For example, equipment shall meet USDOT, ICC, FMVSS, Buy American Requirements, OSHA and Kentucky Motor Vehicle Requirements as to highway safety and other applicable regulations. Required model clauses are attached to bid package.

Quantity: minimum one (1) vehicle to be purchased with two hundred eight (208) options to purchase additional vehicles for a maximum of two hundred eight (208) vehicles per specification. In addition, KPTA/RTEC has the right to assign a portion of the contract awarded, to allow other transit agencies to purchase any remaining options.

Failure of KPTA/RTEC to specifically identify Federal and State regulations in its specification does not relieve the bidder of the responsibility to meet them.

DETAILED SPECIFICATIONS:

Materials

All materials used in manufacturing of the Lowered Floor Mini-Van shall conform in all respects to American Society of Testing Materials, Society of Automotive Engineers or similar association standards. Materials used shall be of first quality and shall be exactly duplicated in manufacture, design and construction on each Low Floor Mini-Van. All units or parts not specified shall be manufacturer’s best quality and shall conform in materials, design, or workmanship to the best practice known

VEHICLE SPECIFICATIONS – Low Floor Minivan with Side Entrance Ramp for Wheelchair Access REV 02/19

in the automotive industry. All parts shall be new and in no case will used, reconditioned or obsolete parts be accepted. The parts on all vehicles provided by the same manufacturer should be interchangeable.

Capacity

Lowered Floor Mini-Van with Side Entrance Ramp for Wheelchair Access must be able to accommodate the following load:

1. 3 Ambulatory and 2 Wheelchairs including driver.

DIMENSIONS:

Description	Requirements
Mini-Van	Lowered Floor Side Ramp Equipped
Body Warranty	3 years/36,000 Miles Structural Warranty
Overall Exterior Length	190.5” Maximum
Overall Exterior Width (ex. mirrors)	76.9” Maximum
Overall Height	74” Maximum

CHASSIS EQUIPMENT:

Description	Requirements
Model Year	2019 or Newer
Wheelbase	121” Maximum
G.V.W.R	5,500 lb Minimum
Engine	3.6L V-6 Gasoline Engine Minimum
Transmission	Six (6) Speed Automatic W/ Overdrive Minimum
Steering	Power

Suspension	Fully Independent front suspension with struts and heavy duty rear springs. Load leveling
Brakes	4- Wheel Anti-Lock Disk Brakes
Batteries	OEM 730 CCA Minimum
Alternator	OEM 160 Amps Minimum
Bumper Front/Rear & Grill	Manufacturer’s standard front and rear bumpers with matching bumper guards
Wheels and Tires	Tires and Wheels shall be OEM and compatible with each vehicle and each GVWR. Tire shall be steel belted radials, all season type. Tire size shall be P225/65R17 or equivalent
Rear Axle Capacity	2,400 lbs Minimum
Front Axle Capacity	2,400 lbs Minimum

Description	Requirements
Spare Tire	Spare tire and wheel shall meet standard OEM requirement and acceptable for vehicle load range. Under carriage tire carrier along with lug wrench and hydraulic jack
Fuel Capacity	20 Gallons Minimum
Cooling System	Heavy Duty radiator with coolant recovery system, engine oil cooler and transmission cooler
Heating	Standard factory front and rear heat W/ rear window defroster
Insulation	Completely insulated extended length
Exterior Lighting	Exterior lighting normally provided by the manufacturer as standard equipment. Lighting over wheelchair ramp door shall be in accordance with ADA requirements
Interior Lighting	Front, Intermediate and rear courtesy/reading lamps shall be provided
Air Conditioning	Standard factory front and rear air conditioning w/ manual Dual Zone Temperature Control for front and rear
Power Package	Power Windows, Door Locks, and Power adjustable Drivers Seat W/ Keyless Entry

Instrument Panel	Speedometer, odometer, fuel gauge, voltage gauge, oil pressure gauge, tachometer and engine temperature indicator
Fresh Air Intake	Manufacturer’s standard
Wipers	Variable Control System. Windshield wiper on lift gate shall be provided.
Air Bag	Driver and passenger sides
Steering Features	Tilt Wheel W/Cruise Control
Radio	OEM AM/FM CD Radio With Clock In OEM Chassis Location In Dash
Rear Door	Hinged rear door that can be opened from inside and out shall be provided
Passenger Doors	Side doors shall be sliding. Height of wheelchair/ramp entrance opening shall be a minimum of 56” and the width shall accommodate a 30” platform ramp
Glass	In all doors and panels; windshield may have normal factory tint; driver’s window and all passenger windows shall have 33% tint with privacy glass in passenger compartment

Description	Requirements
Seating	Driver’s seat to be standard OEM with armrest. Front passenger seat is to be removable to allow for forward facing wheelchair position, high backed with armrest. Additional passengers include a 3- person stationary bench seat across the rear of the van. A fold away footrest shall be provided at passenger seat. Two forward facing wheelchair positions. Wheelchair positions must meet ADA requirements. All seats to be covered in vinyl or upholstery black or gray in materials that meet FMVSS 302 burn resistance requirements. Color to be chosen at time of order.
Interior	All interior panels, upholstery, and trim shall harmonize with exterior vehicle, black or gray standard or color to be chosen at time of order
Assist Handle	If offered by manufacturer
Retractable Seat and Shoulder Belts	At all seating positions; must meet ADA and FMVSS requirements; must be able to accommodate child safety seats. Extra-long

	seat belts with shoulder harness and lap belts shall be provided at wheelchair positions to accommodate wheelchair and passenger. All vehicles must have a pouch mounted to store these devices when not in use. Two sets of seatbelt extensions shall be provided
Paint	White Paint for exterior. Flares shall be constructed of formed plastic and painted to match the exterior of vehicle. A molded step shall be incorporated into the driver and passenger flares to aid entry. Beneath the flares molded step surface shall be an adjustable steel support structure capable of supporting 400 lbs with less than 1/8" deflection, which fastens directly to the vehicles body structure. The flares molded step surface shall have a minimum clear vertical width of 4.5", a minimum length of 18" and utilize an anti-skid material which defines the step surface. No dealer decals or emblems on vehicle.

Description	Requirements
Mirrors	Right and left hand side mirrors. Adequate rearview mirror shall be installed for drivers of interior and rear of vehicle.
Undercoating	Complete undercoating with corrosion protection with minimum 5 year warranty.
Safety Equipment	Back up sonar must be installed in each vehicle.

CONSTRUCTION:

The entire body structure shall be built as an integral unit adequately reinforced at all joints and corners where stress concentration may occur to adequately carry required loads and withstand road shock. Steel safety frame (floor, walls, roof, front, and rear) shall be securely welded together to provide an integral one-piece body structure. Exterior body skin to be aluminized steel. No fasteners to be exposed to exterior finish.

MODIFICATIONS:

- A. All modifications shall be effected in good workmanlike manner. Sheet metal fit-ups shall be properly executed and concealed. Paint finish and window glass shall be free of any defects due to welding or re-assembly.
- B. Modifications to OEM floor plan/frame shall be of highest possible quality construction. Modification of floor and frame shall provide reinforcement to a degree that the structural integrity of the OEM vehicle is not degraded. Any such modifications shall be properly sealed to prevent entrance of exhaust fumes, moisture, and dust.
- C. All welds shall be made in a workmanlike manner, properly fused, of ample penetration, and shall, on all exposed surfaces where practicable, be smoothly finished. Intermittent or spot welds shall be spaced and proportioned as to provide ample strength for the purpose. All welded joints shall be spaced and proportioned as to provide ample strength for the purpose. All welded joints shall be cleaned and primed. All welds shall be relatively free of slag inclusions, undercut, roll, blowholes, unfilled craters, improper fit-up and porosity. Fillet weld sizes shall be at least equal to the thickness of the least of the joined plates.

LOWERED FLOOR MATERIAL SPECIFICATIONS:

- A. All flooring modifications shall be executed in 16-gauge aluminized steel. Such modifications shall not degrade the structural integrity of the OEM vehicle.
- B. The lowered floor shall be securely fastened to steel chassis or body and covered from wall to wall with industrial grade, non-slip vinyl flooring. All edges will be properly sealed to prevent entrance of moisture that could cause bulging, ply-separation and/or material failure.
- C. All joints will be butt type.
- D. Due to lowering of the floor, the fuel tank shall be relocated behind rear axle. A full-length fuel tank skid plate shall be provided, that protects the front, underside and rear of the fuel tank. The skid plate shall be constructed of 12-gauge material, and bolted to the frame.
- E. Floor covering shall be slip resistant vinyl flooring, constructed with aluminum oxide, silicon carbide, quartz and multiple colored PVC chip blended throughout a high quality vinyl wear surface for better depth perception for sight impaired (top coating is not acceptable). Bacteriostats will be incorporated providing all exposed surfaces with excellent anti-bacterial properties. Minimum thickness of 2.2 millimeters (combination of flooring and backing material will not be accepted). Altro trans floor or approved equal.

FUEL TANK:

Tank, fuel lines and hardware must meet all current FMVSS, including FMVSS 301, as well as all current CARB and EPA requirements and must be OEM equivalent in connection types, etc. The use of worm clamps is limited to that of the OEM. Tank shall be calibrated with the OEM dash fuel gauge.

ELECTRICAL SYSTEM:

- A. Electrical system and equipment shall comply with all applicable FMVSS and shall also conform to all the applicable SAE recommended standards and practices.
- B. Electrical system shall incorporate a warning light and audible buzzer, to indicate a door not fully closed.
- C. All wiring shall be secured to the body or frame with straps in order to prevent sagging and movement, which results in chafing, pinching, snagging, or any other damage.

RAMP:

- A. The ramp shall be a manually operated fold down type. The ramp shall provide a straight inclined surface from the ground to the van floor level. This should be approximately 12" from the van floor level to ground level. The ramp shall allow a wheelchair containing a handicapped person to be pushed from the ground level into each van or rolled out of each van down to ground level. Protective edge flanges shall be provided on the ramp to prevent the wheels of a wheelchair from rolling off the edge of the ramp. No center steps or toe-cleats will be allowed with this conversion.
- B. The ramp shall have a width of at least 30" and length of 52" at minimum. The gradient must meet ADA requirements.
- C. The ramp shall be constructed of ¼" aluminum gray powder coated.
- D. Ramp capacity of 800 lbs minimum
- E. Wheelchair ramp must meet the requirements of ADA.

RAMP DOOR:

The ramp shall be manual, mounted to the chassis frame without structural changes in the frame and located at the side of the van. The door that the ramp is located shall have a minimum height of 56" and minimum width of 31.5". The wheelchair lift door shall be constructed of gauge steel.

RAMP MECHANISIM:

Shall be manual type. Nonworking parts, such as platform, frame, and attachment hardware that would not be expected to wear, shall have a safety factor of at least three, based on the ultimate strength of the material.

RAMP CONTROLS:

- A. Controls shall provide other appropriate fail-safe mechanisms or systems, to ensure that the vehicle cannot be moved when the ramp is not stowed and so the ramp cannot be deployed unless the interlocks or systems are engaged.
- B. No emergency method, manual or otherwise, shall be capable of being operated in a manner that could be hazardous to the ramp occupant or to the operator

RAMP PLATFORM SURFACE:

The platform surface shall be free of any protrusions over ¼ inches high and shall be non-skid aluminum alloy or equivalent with a minimum weight capacity of 800 lbs. The platform shall have a minimum clear width of 30 inches measured from the platform surface to 30 inches above the platform and a minimum clear length of 52 inches measured from 2 inches above the surface of the platform.

SECUREMENT DEVICES:

- A. Design Load: Securement systems, and their attachments to such vehicles, shall withstand a force in a forward longitudinal direction of 2,500 pounds per securement leg, and a minimum of 5,000 pounds for each mobility aid.
- B. Location and Size: The securement system shall be placed as near to the accessible entrance as practical and shall have a clear floor area of 30 inches by approximately 44 inches. 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.

- C. L Track shall be installed to allow for a wheelchair position in either the right front passenger area, when the passenger seat is removed, or the rear passenger area. The rear passenger area shall have two (2) recessed floor mounted L tracks that run from one side of the van to the other.

Securement System: The securement system shall secure common wheelchairs and mobility aids and shall be easily attached by a person familiar with the system and mobility aid and having average dexterity. Wheelchair securing spaces shall be located so that the wheelchairs are locked. Tie downs for wheelchair positions are to be of the four-point system with four tie downs securing the chair to the floor of the vehicle. 4-point, heavy duty, fully automatic retractable Q-Straint QRT 360 or approved equal (dual knobs) tie-downs built to withstand the higher loads of the WC18 standard and be compatible with WC19 wheelchairs mounted onto L track fitting with Lap & Shoulder Belt Occupant Restraint. This system must be able to withstand a crash test of 30 mph and 20 g's without damage to the wheelchair or its occupant. Tie down system must be a complete package. Wheelchair Securement System shall have a warranty of five (5) years

- D. Seat belts and shoulder harnesses with heavy-duty retractors and sleeves to keep belts off the floor shall be provided for each wheelchair position. A detachable shoulder harness that matches the Passenger Occupant Restraint system is required. Standard OEM restraints lap or shoulder system is not acceptable in wheelchair positions.
- E. Orientation: The securement shall be installed so that the secure wheelchair or mobility aid is facing toward the front of the vehicle.
- F. Movement: 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
- G. Stowage: When not being used, the securement system shall not interfere with passenger movement, shall not present any hazardous condition, and shall be reasonably protected from vandalism.
- H. Platform Gaps: Any openings between the platform surface and the raised barriers shall not exceed 5/8 inch wide. When the platform is at vehicle floor height with the inner barrier down or retracted, gaps between the forward edge of the ramp shall not exceed 2 inch horizontally and 5/8 inch vertically. The ramp shall be furnished with reflector tape on each side.
- I. Platform Barriers: The ramp platform shall be equipped with barriers to prevent any of the wheels of a wheelchair or mobility aid from rolling off the platform

- J. Boarding Direction: The ramp shall permit both inboard and outboard facing of wheelchairs and mobility aids.
- K. Inside Track: The inside track shall be approximately 54” long and a minimum of 44” wide.

WARRANTY:

Vehicles shall be in compliance with all state and federal safety laws and is state safety inspected at the time of delivery. The warranty for the basic vehicle shall be the manufacturer’s standard warranty of 3-year/36,000 miles. A Power Train Warranty of 5-year/60,000 miles and Roadside Assistance 5-year/60,000 miles shall be provided. The warranty for the conversion and modification of the vehicle shall provide that, at a minimum, all repairs and replacements needed due to factory defects shall be furnished and installed promptly without charge by authorized service representatives for three (3) years or 36,000 miles after final delivery of the vehicle, with an option to purchase an extended warranty.

INSPECTIONS:

A representative of the Rural Transit Enterprises Coordinated, Inc., d/b/a RTEC reserves the right to inspect any vehicle produced by any manufacturer and intended for delivery under this contract. Any deficiencies identified must be rectified prior to acceptance of the vehicle.

Use a separate sheet for each bus type/size.

Type/Style: Lowfloor MiniVan

All Items Need Pricing to be Included in Bid

ITEM#: Base Bid Price Options	Price
1 Upgrade double foldaway seat with retractable seat belts	
2 Vinyl Seat/Slip Cover (Mini Van)	
3 Fare Box	
4 One Oxygen tank holder that mounts on L Track	
5 5"-7" In Dash Back Up Camera	
6 Low Floor Mini Van Wheel Chair Rear Load	
7 Simple Stow Infloor Ramp	
8 Fender Mounted Key Storage Tube	
9 4 Camera Surveillance Camera System	
10 8 Camera Surveillance Camera System	
11 Rear Mount LED Strobe Lights engage when braking Mounted 16-unit First Aid Kit, mounted 5 lb. fire extinguisher, reflective triangle kit containing 3 triangles, seatbelt cutter, blood spill clean-up kit, reverse alarm	
12 Exterior Paint Color Excluding White	