

BID SPECIFICATIONS

Adult Mini Bus

Town of _____

12 Ambulatory w/ 2 Wheelchairs or 14 Ambulatory

Bidder shall indicate, to the right of each section, "Yes" or "No" as to whether or not the vehicle offered fully complies with the specifications. All exceptions and deviations must be fully explained on the bidder's letterhead and shall reference each paragraph number where a variation exists. Comments such as "Differences may occur" or "We are equal to your specifications" without substantiation will result in the bid offer being deemed unresponsive.

SPECIFICATIONS		Fully Complies	
		YES	NO
1.0 SCOPE			
1.1	These specifications are for (a) current model year vehicle(s) meeting all applicable Federal, State and ADA "Demand Response" requirements.		
1.2	Vehicle type shall have been Altoona Tested for a minimum 7 year / 200,000 mile duty cycle.		
1.3	The manufacturer of the body must be certified to be in compliance with Quality Standards ISO 9001:2000 with regard to the Sale, Design and Manufacture of Customized Buses and Multipurpose Passenger Vehicles.		
1.4	The body manufacturer shall have been in business of manufacturing small and mid-size commercial buses for a minimum of 10 years prior to the date of bid.		
1.5	The bidder shall have operated as a licensed vehicle dealer, having distributed commercial buses and maintained a repair facility and parts distribution center for a minimum of 5 years prior to the date of bid.		
1.6	The bidder shall maintain both Products/Completed Operations Liability insurance coverage and Garage Liability insurance coverage, each with a minimum \$5 million aggregate limit.		
2.0 BODY			
2.1 CAPACITY & FLOORPLAN			
2.1.1	12 ambulatory passengers, 2 wheelchair positions with accommodation for 2 additional ambulatory passengers when the wheelchair positions are not in use.		
2.1.2	There shall be three rows of 2-passenger seats on each side of the center aisle and one double foldaway seat located on the street side behind the fixed seats.		
2.1.3	The wheelchair positions shall be located against the rear wall of the vehicle.		

SPECIFICATIONS

Fully Complies

YES	NO
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2.2 DIMENSIONS

- 2.2.1 Exterior: Length - 282" minimum
Width - 96" minimum
- 2.2.2 Interior: Height - 79" minimum
Width - 92" minimum at seat level

2.3 BODY CONSTRUCTION:

- 2.3.1 Floor: Shall consist of minimum 3/4" marine plywood. The entire floor shall be one-piece, without any seams. Floors comprised of multiple pieces of plywood are not permitted in order to preclude creaking and sagging at seams.
- 2.3.2 Belly Pan: A one-piece aluminum panel shall be provided. The belly pan must be laminated to the plywood to prevent condensation between the layers.
- 2.3.3 Wall Structure: Shall be steel cage construction consisting of 3/4" x 3/4" and 3/4" x 1 1/2" box tubing. The areas between the framing shall be filled with 3/4" thick polyurethane insulation. The assembly shall then be encased in reinforced fiberglass and cured in a vacuum press so as to create a monolithic structure including gelcoat finished interior and exterior surfaces.
- 2.3.4 Roof Structure: Shall consist of steel cage construction consisting of 3/4" x 3/4" and 3/4" x 1 1/2" box tubing, laminated in a matrix of fiberglass reinforced wood core.
- 2.3.5 Body Assembly: Shall be done so as to create a seamless structure that shall have been tested to meet or exceed FMVSS 220 for bus roll-over protection and FMVSS 221 for body joint strength.
- 2.3.6 Undercoating: Understructure shall be completely undercoated.

2.4 EXTERIOR FINISH

- 2.4.1 Exterior Surfaces: Shall be a minimum .020" thickness of high-gloss white gelcoat to prevent moisture penetration and corrosion. *Aluminum or steel exterior panels that can corrode and dent are not acceptable.*
- 2.4.2 Paint: All exterior paint shall be Dupont Imron polyurethane enamel. There shall be a six inch wide transit stripe along the length of each side of the body. The color will be specified by the purchaser at the time of bid award. Window pillars shall be painted gloss black, commonly referred to as "window black-out". Touch-up paint for each color used shall be supplied with bus at delivery.
- 2.4.3 Wheels: The exterior of all wheels shall be powder coated white.
- 2.4.4 Skirts: Shall consist of curved reinforced fiberglass, easily removable for replacement.
- 2.4.5 Fenders: Replaceable contoured rear wheelwell fenders shall be provided.
- 2.4.6 Mud Flaps: Rubber composite flaps shall be installed behind the front and rear tires.
- 2.4.7 Fuel Fill: Shall be molded fiberglass or equivalent. No exposed fasteners are permitted.
- 2.4.8 Lettering: The name of the agency will be lettered on both sides of the vehicle and on the front and rear caps. A vehicle identification number will be applied at four exterior and one interior locations. The precise locations, colors and wording will be supplied to successful bidder at time of order.

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2.5 BUMPERS

- 2.5.1 Front Bumper: Shall be provided by the chassis manufacturer.
- 2.5.2 Rear Bumper: Shall be wrap-around style, minimum 10-gauge steel, and be powder coated black.
- 2.5.3 Anti-Ride: A fiberglass reinforced plastic anti-ride fixture shall be located above the rear bumper.

2.6 DOORS

- 2.6.1 Passenger Door: Shall be an electrically operated in-cab transit style door with two outward opening panels, affording a clear opening of at least 32" x 83". The door frame shall be of powder coated galvaneal steel. The door panels shall consist of 3/16" tempered safety glass rated at AS-2.
- 2.6.2 Emergency Door: A single panel door with fixed upper and lower glass shall be provided in the rear of the bus. It shall include a three-point latch and be key lockable from the outside and lockable from the inside. An audible signal shall be provided to alert the driver if the door is ajar.
- 2.6.3 Entry Handrails: Two assist rails shall be provided, one on each side of the passenger doorway. Both handrails shall run parallel to the steps.
- 2.6.4 Stanchions & Modesty Panel: A vertical stanchion and modesty panel shall be provided behind the step well and a stanchion and cross bar behind the driver's seat.

2.7 WINDOWS

- 2.7.1 Passenger Side Windows: Shall be at least 34" high x 24" wide, tinted double top-T with center section slider so that left and right windows are interchangeable.
- 2.7.2 Egress Windows: Two emergency egress windows shall be provided on each side of the vehicle.
- 2.7.3 Rear Windows: Fixed glass windows, at least 34" x 12", shall be installed on each side of the rear emergency door.

2.8 ELECTRICAL

- 2.8.1 Wiring: Shall be color-coded, number and function coded every 12". All wiring under the body or hood shall be protected with high temperature nylon convoluted tubing and grommeted when routed through holes.
- 2.8.2 Electrical Panel: Shall be installed in an aluminum cabinet by the front entry door. This panel shall be powered by a #2 cable that is connected to a solenoid located under the hood. This solenoid shall be activated when the ignition is turned on. Circuits shall be protected by automatic circuit breakers.
- 2.8.3 Switch Panel: A console which contains switches to control all applicable body electrical shall be mounted on the dash. Control panels which are mounted either on the engine dog house or above the windshield are not acceptable.
- 2.8.4 Radio: AM/FM/CD with four speakers

2.9 EXTERIOR LIGHTING

- 2.9.1 Head Lamps & Front Turn Signals: Shall be supplied with the chassis.

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- 2.9.2 Clearance Lights: Shall meet all State and Federal requirements. Front and rear clearance lights must be recessed into the body or armored to preclude damage from trees.
- 2.9.3 Brake Lights: There shall be a set of brake lights that are separate and independent of any other function, flush mounted. A high mounted collision avoidance light shall also be provided.
- 2.9.4 Side Turn Signals: Shall be mounted on each side of the body between the front doors and rear axles and protected by a chromed metal shield.
- 2.9.5 Entry Light: A flush mounted light shall be provided behind the passenger door that automatically activates with opening of the passenger door.

2.10 INTERIOR LIGHTING

- 2.10.1 Dome Lights: In addition to the driver's and lift lights, a minimum of six overhead lights shall be installed in the passenger compartment, controlled by a master switch in the driver console and automatically with opening of passenger entry door.
- 2.10.2 Step Well Light: A minimum of two flush mounted lights shall be provided in the step well which automatically activates with opening of entry door.
- 2.10.3 Driver Dome Light: A separate light shall be provided above driver's left shoulder, activated by opening of driver door or rotating the headlight switch.

2.11 INTERIOR FINISH

- 2.11.1 Headliner: Cab and passenger area headliners shall be fiberglass with minimum .015 high gloss gelcoat surfaces for durability and easy cleaning. The cab headliner and passenger headliner shall each be one piece. *Carpet, vinyl or fabric ceiling coverings are not acceptable in this application.*
- 2.11.2 Walls: Sidewalls, including kick panels, shall be fiberglass finished with a minimum of .015 high gloss gelcoat. The interior surfaces shall be integral parts of the sidewalls. *Designs in which the interior wall surface is installed as a separate liner are not acceptable.*
- 2.11.3 Floor: Shall be covered in 1/8" transit rubber under seats and 3/16" ribbed rubber in the aisle and entryway. The ribbed aisle must meet the step rubber on an angle for easy sweep out. A white standee line and integral white step nosing shall be provided. Flooring shall be black.
- 2.11.4 Overhead Handrail: A stainless steel overhead handrail shall run the length of the passenger compartment as required by ADA on the driver's side of the bus.

2.12 SEATS

- 2.12.1 Passenger Seats: Fixed seats shall be mid-high featherweight bucket seats. Folding seat shall be forward facing 3-way foldaway design. The seats shall be covered in vinyl and/or olefin.
- 2.12.2 Seat Track: All forward facing fixed seats shall be secured to steel Unistrut channel in the floor and sidewall.
- 2.12.3 Grab Handles: Padded grab handles shall be provided on the top of each fixed passenger seat.

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- 2.12.4 Seat Belts: All passenger seats shall have retracting seat belts. The retracting mechanisms must be mounted to the seat frames or wall track.
- 2.12.5 Arm Rests: Each aisle seat shall have a folding armrest with black molded rubber covering.
- 2.12.6 Driver's Seat: Shall be high back, with lumbar support and right side arm rest. The upholstery shall be Level 3 Sherpa, color coordinated with the passenger seats fabric.

2.13 HEATING & AIR CONDITIONING

- 2.13.1 Front Heat: Shall be the maximum size offered by the chassis manufacturer.
- 2.13.2 Rear Heat: A 2-speed heater shall be seat frame mounted with a minimum capacity of 65,000 BTU. Floor mounted heaters are not acceptable.
- 2.13.3 Front Air Conditioning: Shall be provided by the chassis manufacturer consisting of compressor and in-dash evaporator.
- 2.13.4 Rear Air Conditioning: A minimum 53,000 system shall be provided consisting of at least a 53,000 BTU evaporator mounted at the rear wall and a 3 fan skirt mounted condenser. All hose connections shall be quick connect type.

2.14 MIRRORS

- 2.14.1 Interior: A 4"x8" minimum convex mirror shall be provided above the windshield for viewing passenger seating area. In addition, the chassis OEM rearview mirror shall be mounted on the windshield.
- 2.14.2 Exterior Mirrors: Shall consist of integrated dual lens design composite heads containing separately adjustable flat and convex mirrors. The driver's side mirror head shall be wing mount and the passenger fender mount quad design.

2.15 SAFETY EQUIPMENT

- 2.15.1 Reflector Kit: A set of three warning triangles shall be provided in a weather resistant storage container.
- 2.15.2 Fire Extinguisher: A 2½ pound fire extinguisher with gauge, rated at 10BC shall be secured in the driver compartment.
- 2.15.3 First Aid Kit: A first aid kit, minimum 15 unit, shall be mounted in the driver compartment.
- 2.15.4 Back-up Alarm: The bus shall have an audible alarm which operates when the shift lever is placed in reverse.
- 2.15.5 Roof Hatch: A low profile ventilation/escape hatch shall be provided in the roof of the vehicle over the rear axle.
- 2.15.6 Belt Cutter: A seat belt cutter shall be mounted accessible to the seated driver.
- 2.15.7 Storage: Shall be provided on the engine dog house for storage of a cup, maps and documents.
- 2.15.8 Drive Shaft Guards: Shall be installed around each section of the drive shaft.

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3.0 MOBILITY EQUIPMENT

- 3.1 Wheelchair Doors: Shall be located on the curb side, behind the rear axle. The doors shall be two panel swing-out type, providing a clear opening of at least 46" x 70" with a powder coated door frame. Windows shall be provided in the top half of each panel. Heavy-duty zinc plated 30 lb. springs shall be integrated into the header to hold the doors in the open position. *Gas struts are not acceptable.* Interior and flush mounted exterior lights, activated by opening the door, shall be provided to illuminate the lift area.
- 3.2 Wheelchair Lift: A fully automatic hydraulic lift shall be provided, meeting all ADA and FMVSS 403/404 requirements. The platform shall have a minimum useable area of 33" x 54" that folds in half when in the stowed position so as not to block the windows. The lift shall include an occupant restraint belt.
- 3.3 Wheelchair Securements: Two forward facing tie-down systems that have been crash tested at 30mpg/20g shall be provided. The systems shall include four heavy-duty retractors with "S" hook ends with height adjustable and retractable lap/shoulder combo. The belts shall attach to Series "L" track recessed into the floor. A pouch shall be installed for each system to store the floor belts when not in use.
- 3.4 Interlock: Vehicle shall have a lift interlock, to prevent operation of the vehicle unless the lift is stowed. An integrated high idle system to automatically increase engine speed shall be supplied.
- 3.5 Signage: All interior and exterior signs required by ADA shall be provided.

4.0 CHASSIS

- 4.1 WHEELBASE: 159 inches, minimum
- 4.2 G.V.W.R.: 12,300 pounds minimum
- 4.3 **ENGINE (*Bidder to supply engine type marked "X" below*)**
 - DIESEL – 6.6L, V8, 250 HP minimum with block heater
 - GAS - 6.0L, V-8, 300 HP minimum
- 4.4 TRANSMISSION: Automatic 4-speed with overdrive.
- 4.5 ELECTRICAL
 - 4.5.1 Alternator: 145 amp, minimum
 - 4.5.2 Batteries: Two 12 volt batteries with total 1,200 CCA, minimum shall be mounted in a box with slide-out tray on the curbside of the vehicle.
- 4.6 BRAKES: Power-assisted four wheel disk anti-lock
- 4.7 AXLES
 - 4.7.1 Front: 4,300 pounds, minimum
 - 4.7.2 Rear: 8,600 pounds, minimum
- 4.8 FUEL TANK: 33 gallon minimum

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4.9 STEERING

4.9.1 Power Steering: Full Time

4.9.2 Steering Wheel: Tilt

4.10 EXHAUST: Must exit at the rear of the vehicle.

4.11 MISCELLANEOUS

4.11.1 Windshield Wipers: Intermittent

4.11.2 Cruise Control: Shall be supplied

4.11.3 Daytime Running Lamps

4.11.4 Tires & Wheels: A spare tire and wheel shall be mounted under the rear of the vehicle.

4.11.5 Springs: A leaf spring spacer shall be installed in the rear curbside to ensure that the vehicle remains level when the lift is in use.

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

5.1 BODY

5.1.1 Comprehensive: 1 year / 12,000 miles

5.1.2 Structural: 5 years / 75,000 miles

5.1.3 Corrosion: 10 years on metal body panels when used instead of specified non-corrosive fiberglass components.

5.2 CHASSIS

5.2.1 Bumper to Bumper: 3 year / 36,000 miles

5.2.2 Engine: OEM Standard

5.3 COMPONENTS

5.3.1 Wheelchair Lift: 5 years

5.3.2 Rear Air Conditioning: 2 years / unlimited miles

6.0 SUBMISSIONS REQUIRED with bid

6.1 EXCEPTIONS / DEVIATIONS: An attachment containing a full and precise explanation of all exceptions and variations from the specifications in the vehicle proposed by the bidder.

6.2 FLOORPLAN: Including the following dimensions

6.2.1 Overall length

6.2.2 Wheelbase

6.2.3 Seat spacing on both sides of the bus

6.2.4 Knee spacing on both sides of the bus

6.2.5 Aisle width

SPECIFICATIONS

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YES | NO

- 6.2.6 Wheelchair securement locations and dimensions.
- 6.3 ALTOONA TEST: Copy of the Executive Summary from the Federal STURRA report.
- 6.4 ISO COMPLIANCE: Copy of manufacturer's ISO 9001:2000 certification.
- 6.5 INSURANCE: Evidence of the required coverage.
- 6.6 LICENSE: Copy of the bidder's Dealer License.
- 6.7 FMVSS: Complete listing of body manufacturer's FMVSS compliance.
- 6.8 WARRANTY: Body, chassis and component warranty coverage information per section 5.0.
- 6.9 BROCHURES: Body manufacturer's brochure for the specific model proposed.