

WOOD COUNTY BOARD OF DEVELOPMENTAL DISABILITIES

1921 E. Gypsy Lane Road
Bowling Green, OH 43402

(419) 352-5115

SPECIFICATIONS AND BID FORM
for
MINIMUM BUS SPECIFICATIONS

Bus specification - **One (1), 2020-21**, 72 passenger type C, with flat floor and lift (ADA).

Bidders must bid all items as required by the State of Ohio as stated in Ohio School Bus Minimum Standards as well as all applicable Federal Standards.

Specifications equal or better may be considered as an appropriate bid but must be noted as alternate.

Bidders are required to use the Wood County Board of Developmental Disabilities Specifications and Bid Forms. In addition to the required regulations, bidders are to include the following items and check the appropriate column.

Bus body and chassis herein are to be used for transporting students to and from public school and school activities. As such, they must conform to or exceed all applicable Federal Motor Vehicle Safety Standards and current state specifications requirements.

Please bid specifications requested in the base bid. Indicate any exceptions, as bus provided must meet bid specifications. Exceptions must be noted on this form.

One new 2020-21 model, 72 passenger front engine school bus with flat floor minimum of 77" interior headroom.

I. CHASSIS SPECIFICATIONS

Yes No Alternate

ACCELERATOR

A. Electronic hand throttle or fast idle switch.

___ ___ _____

AIR CLEANER

A. Single stage air cleaner with replaceable element and locking restriction indicator.

___ ___ _____

B. The air intake to be located above the top of radiator for cooler and cleaner air.

___ ___ _____

ALTERNATOR

A. Bosch or equivalent twelve-volt alternator of not less than 200 amps. 96 amps at idle.

___ ___ _____

AXLE (FRONT)

A. Heavy duty with 10,000 lbs. minimum capacity.

___ ___ _____

B. Oil lubed front hubs with sight glass.

___ ___ _____

C. 50-degree minimum wheel cut for the best turning radius.

___ ___ _____

AXLE (REAR)

A. Heavy duty with 17,000 lbs. minimum.

___ ___ _____

BATTERIES

Yes No Alternate

- A. Three 12-volt batteries with 3,375-degree cold cranking amps total. Must be group 31 maintenance free. Stud post.
- B. Must be mounted on ball bearing slide-out tray.

___ ___ ___
___ ___ ___

BRAKES

- A. The service brake to be full air brake system (disc type).
- B. Minimum 13.2 CFM belt driven air compressor.
- C. Minimum three individual air reservoirs.
- D. Dust shields front and rear.
- E. ABS brakes.
- F. Bendix model ADIP or AD-9 or equivalent heated air dryer with spin on filter.

___ ___ ___
___ ___ ___
___ ___ ___
___ ___ ___
___ ___ ___
___ ___ ___

COOLING SYSTEM

- A. Heavy duty radiator.
- B. Sight glass for coolant level required.
- C. Winter front.
- D. Viscous fan clutch.

___ ___ ___
___ ___ ___
___ ___ ___
___ ___ ___

DESIGN

- A. Type C bus with easy tilt hood.

___ ___ ___

ENGINE

- A. Propane powered engine with 750-watt block heater with front-receptacle box to plug in cord.
- B. 265 HP min., approximately 450 ft/lb. torque.
- C. Full flow type oil filter, replaceable spin on element, Full-Synthetic Motor Oil

___ ___ ___
___ ___ ___
___ ___ ___

FRAME

- A. All bolted construction using Grade 8 self-locking frame bolts.
- B. Minimum dimensions:
 - 1. 10 1/8" frame height
 - 2. 3" flange width
 - 3. 5/16" minimum thickness
- C. Heavy duty 7" or 8" high end to end cross members.

___ ___ ___
___ ___ ___
___ ___ ___
___ ___ ___
___ ___ ___

FUEL TANK

- A. 75 gallon minimum – propane

___ ___ ___

SHOCK ABSORBERS

- A. Heavy duty shocks with a minimum of two front shocks and two rear.

___ ___ ___

SUSPENSION

- A. Front 10,000 lbs. air suspension.
- B. Rear 19,000 lbs. air suspension.

___ ___ ___
___ ___ ___

	Yes	No	Alternate
STEERING GEAR			
A. Integral full power.	___	___	___
STEERING WHEEL			
A. Heavy duty mounting.	___	___	___
B. 18" minimum diameter soft touch wheel.	___	___	___
C. Tilt and telescopic.	___	___	___
TIRES			
A. 16 ply tubeless 255/70/22.5 X ZE, tires to be installed	___	___	___
TRANSMISSION			
A. Automatic transmission, full-synthetic fluid	___	___	___
B. Equipped with Trans cooler.	___	___	___
WARRANTY			
A. Engine - 5 year, 100,000 miles, 100% parts and labor.	___	___	___
B. Transmission - 5-year unlimited mileage.	___	___	___
WHEELS			
A. Alcoa Aluminum	___	___	___
a. Powder coated black by manufacturer	___	___	___
WHEELBASE			
A. Shall be proper wheelbase to support the specified 72 passenger body. Minimum 270" to 276" wheelbase.	___	___	___

II. BODY SPECIFICATIONS

BRAUN LIFT

- | | | | |
|--|-----|-----|-----|
| A. Millennium 2 or newest version, or equal, with 34" Platform. | ___ | ___ | ___ |
| B. ADA Lift Door 43" Wide, 69.75" High - 1 doors. | ___ | ___ | ___ |
| C. Lift location rear right side. | ___ | ___ | ___ |
| D. Stanchion and barrier in front of wheelchair lift not to exceed 20" from side wall. | ___ | ___ | ___ |

OCCUPANT RESTRAINT SYSTEM

Sure Lok Retractor Series for L-Track or equivalent.

- | | | | |
|---|-----|-----|-----|
| The parts and numbers are below. | ___ | ___ | ___ |
| A. Six (6) retractor Kit FE200855S/FE200907S or equivalent. (S-hooks)
(Quantity 24 retractors) | ___ | ___ | ___ |
| B. Six (6) Integrated Lap Belt Kit (96" long) or equivalent.
(Quantity 6 lap belts) | ___ | ___ | ___ |
| C. Six (6) Shoulder Belt (82" long) or equivalent.
(Quantity 6 shoulder belts) | ___ | ___ | ___ |
| D. Six (6) Mesh Storage Container #FE201145 or equivalent. | ___ | ___ | ___ |

	Yes	No	Alternate
BUMPERS			
Must be able to withstand jacking up of bus with bumper lift jack.	___	___	___
COLOR			
A. EXTERIOR: National School Bus Yellow with baked polyurethane paint only.	___	___	___
B. EXTERIOR ROOF: to be painted white with baked polyurethane paint only.	___	___	___
C. Chrome grill	___	___	___
CONSTRUCTION			
A. Vehicle MUST be constructed to meet or exceed all Federal Motor Vehicle Safety Standards and State specifications in effect at time of manufacture.	___	___	___
B. Bow frames shall be continuous one-piece design from floor line to floor line.	___	___	___
C. Side minimum 16-gauge panel.	___	___	___
D. Wheel chock storage on right side exterior 12" x 12" x 12" min	___	___	___
E. Stainless step well	___	___	___
EMERGENCY EXITS			
A. 2-especially low-profile roof hatch is required, 4 push out windows with audible alarm.	___	___	___
EXTERIOR LETTERING			
B. Lettering on bus per State and Federal standards.	___	___	___
C. Buses to have reflective striping, front and rear school bus signs to be reflective per State and Federal standards.	___	___	___
HEATERS/DEFROSTERS/AC			
A. Front heater(s) 90,000 BTUs minimum. 50,000 BTU right front	___	___	___
B. Radiant floor line heat	___	___	___
C. Full length defroster channel required at base of windshield.	___	___	___
D. Two heater shut off valves to be in engine compartment, will be ball valves. Easily accessible heater shut off valves.	___	___	___
E. Two 6" defrosting fans above windshield.	___	___	___
F. Heat circulation pump	___	___	___
G. Rooftop condenser 120,000 BTU or greater	___	___	___
H. Vents in front and rear bulkheads	___	___	___
IDENTIFICATION			
A. WOOD LANE SCHOOL - WOOD COUNTY on both sides of each bus.	___	___	___
B. New Bus Number – 16	___	___	___
a. Number placed near front service door is at approximately eye level	___	___	___
INTERIOR			
A. Free of all unnecessary projections. Hemmed edges on interior panels.	___	___	___
B. Interior side panels below side windows to seat rail to be marproof aluminized panels.	___	___	___
C. 77" minimum. To include 12" window openings to provide largest opening for emergency use.	___	___	___
D. Air operated outward opening entry doors overhead controls.	___	___	___
E. Handrails on each side of step well.	___	___	___

- F. Install body fluid kit with safety equipment in bulkhead.
- G. Install Weldon flasher unit for eight-way lights.
- H. Bulkhead storage door must include an automatic hold open device.
- I. Bulkhead storage door should open without obstructions
- J. Driver glovebox
- K. One-piece floor covering
- L. Two-way radio pre-wired and antenna on roof

EXTERIOR LIGHTING

- A. Eight-way warning lights system hooded to improve visibility.
- B. 7" stop tail turn signal and back up lights, install LED head lights.
- C. Install low profile strobe light behind rear hatch. LED.
- D. Complete LED light package, every light.
- E. Lamp-check system
- F. Engine compartment light
- G. Supplemental warning lights – front and rear, bumper mount, in accordance with Ohio State Highway Patrol specifications

INSULATION

- A. Ceiling, sides, front and rear to be insulated with 1.5" minimum (no exceptions).

INSTRUMENT PANEL

- A. Instruments on dash:
 - a. Speedometer/odometer
 - b. Voltmeter.
 - c. Low oil pressure warning light and buzzer.
 - d. Oil pressure gauge.
 - e. Water temperature gauge.
 - f. High water temp, warning light and buzzer.
 - g. Hour meter
 - h. Tachometer
 - i. Fuel level
 - j. Headlight indicator.
 - k. Self-canceling directional signals.
 - l. Emergency door audible alarm.
 - m. Lift door with green flashing light on dash
 - n. Key shut-off for engine (pull stop not acceptable).
 - o. AM/FM radio
 - p. Dual air pressure gauges.
 - q. Dual horns
 - r. Digital clock in instrument panel.
 - s. 12-volt accessory plug
 - t. Railroad quiet switch
 - u. Transmission temp gauge
 - v. Cruise control

MIRROR

- A. FMVSS 111 exterior rear view. Power adjust, heated. Rosco Avia Style or Rosco Eurostyle or equivalent

Yes No Alternate

- B. Two quadri spherical crossover, HEATED
- C. 6" x 30" interior passenger mirror with sun visor and side visor.
- D. Cannot obstruct bulkhead storage door.
- E. Mirrors must be mounted in a way that eliminates vibration.
- F. Exterior stainless mirror brackets

MUD FLAPS

- A. Front and rear required. No advertising or dealership markings.
- B. Rubber fenderettes on rear wheels.

OPENINGS

- A. All openings in floor, floorboard, firewall, or bulkhead between chassis and body shall be properly sealed to prevent water, dust, or exhaust from entering the passenger compartment.

OWNERS MANUALS

- A. Must furnish parts manuals and service manuals with each bus.

SEATS

- A. Passenger seat frames to be powder coated flat black with brown or gray upholstery.
- B. Driver's seat shall be air operated, high back and tilt back with lumbar support and right arm rest.
- C. Seat barriers will have kick panels to floor
- D. Seat spacing 30" seat back to seat back
- E. 4 - 30" right side, 2 seat belt per seat. (3 permanent and 1 track seat)
- F. 6 - 36" or 39" left side, 2 seat belts per seat. (All track seats)
- G. Lap belts installed
- H. Powder coated L track on seats.
 - 1. Powder coated L-track from barrier in front of lift to first permanent seat on right side of bus.
 - 2. Full length on left side of bus starting at rear wall and continuing forward for full length of bus.
 - 3. 4. Shoulder strap L track for wheelchairs on side of bus to be length of L track on floor.

RUBRAILS

- A. Minimum of four rub rails on sides. All rub rails to be sealed to prevent road salt and mud from getting behind rails and painted black.

TOWING

- A. Four towing hooks to be provided, 2 front and 2 rear.

UNDERCOATING

- A. Chassis must be painted after assembly and prior to body installation. Entire Underbody and body mountings to be undercoated after body to chassis mounting.
- B. Bumpers and fuel tank

	Yes	No	Alternate
VENTILATION			
A. Static roof ventilator front section of bus.	___	___	___
B. Driver controlled fresh air vent.	___	___	___
WARRANTY			
A. A 100,000 mileage warranty must be provided.	___	___	___
1. 5 years - Frame, cross members, body structure, rust deterioration, paint adhesion, seat and barrier frames.	___	___	___
2. 2 years - all original components manufactured by company	___	___	___
3. 1 year - all vendor supplied items	___	___	___
B. All warranty work to be done on premises or transported by Dealer at Dealers expense.	___	___	___
C. Bus must pass Ohio State Highway Patrol inspection prior to payment.	___	___	___
WINDOW			
A. Passenger windows to provide approximate 12" openings.	___	___	___
B. Release mechanism for windows must be integrated into sash for easier operation.	___	___	___
C. All latches shall be removable and replaceable without removing the window.	___	___	___
D. Dark tinted side windows.	___	___	___
E. Side sun shield for driver.	___	___	___
WINDSHIELD			
A. Shaded top of windshield.	___	___	___
WINDSHIELD WIPERS AND WASHERS			
A. One H.D. electric operated intermittent control.	___	___	___
B. Washer reservoir shall be 1gallon capacity.	___	___	___
WIRING			
A. Color coded, numbered and fire retardant.	___	___	___
B. Wiring encased in loom with convoluted properties.	___	___	___
C. Noise suppression switch.	___	___	___
D. Wiring to be accessible without removing or loosening side windows or roof sheets.	___	___	___
E. Fastened at no more than 24" intervals.	___	___	___
F. Override switch must work in any key position, including the key being out of the ignition	___	___	___
LOCKS			
A. No locks	___	___	___

BID FORM FOLLOWS

One (1) 2020-21 72 Passenger Type C, Flat Floor with Wheelchair Lift (Handicapped)

Each \$ _____ TOTAL \$ _____

Total New Purchase Price \$ _____

Total F.O.B. Wood County Board of
Developmental Disabilities \$ _____

Please provide a quote for each of the following options:

A. Quote engine diagnostic software and hardware package specific to manufacture \$ _____

OPTIONS \$ _____

Signature of Authorized Representative

Name of Authorized Representative (Print)

Name of Company

Address

City State Zip

Telephone Date

Date of Delivery

- Note:
- | | |
|--|-------|
| 1. Have you included your bid bond? | Yes |
| 2. Have you signed your bid? | _____ |
| 3. Have you included your property tax delinquent form, properly executed? | _____ |
| 4. Have you included your Section 3517.13 ORC form, properly executed? | _____ |
| 5. Have you reviewed and understand rules set forth in form FHWA-1273? | _____ |