

# TYPE D TRANSIT FE SCHOOL BUS SPECIFICATIONS



IDAHO STATE DEPARTMENT OF EDUCATION  
STUDENT TRANSPORTATION

650 W STATE STREET, 2ND FLOOR  
BOISE, IDAHO 83702  
208 332 6800 OFFICE  
[WWW.SDE.IDAHO.GOV](http://WWW.SDE.IDAHO.GOV)

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## **1. GENERAL SPECIFICATIONS / CONSTRUCTION EXTERIOR DESIGN**

- A. Date:
- B. This invitation to bid encompasses the furnishing of transit FE school bus unit(s), for \_\_\_\_\_ School District.
- C. Transportation Supervisor, \_\_\_\_\_ School District.
- D. Bus will meet or exceed all Federal (FMVSS) and Idaho State (SISBO) rules and regulations in effect at time of delivery.
- E. Supply service manual or software (CD) for the body.
- F. Supply parts manual, software (CD), or web site access, for the body.
- G. Body electrical schematic – Bid will not be awarded to vendors who cannot provide an electrical schematic for each individual bus.
- H. A print out that provides a list of each part used to build the bus body.
- I. Standard manufactures warranty.
- J. School bus body specifications. – type D Transit FE
- K. Number of buses:
- L. New model transit school bus seating capacity: \_\_\_\_\_ ; bus length: \_\_\_\_\_
- M. Four (4) rub rails painted black.
- N. Heavy duty steel front and rear black colored bumper that is braced to allow vehicle to be jacked up by using just the bumper.
- O. Mud flaps required except when not provided as an option by manufacturer.
- P. Tow hooks front and rear.

## **2. AIR CLEANER**

- A. Air cleaner with air restriction indicator, (site gauge)

## **3. ALTERNATOR**

- A. 200 AMP minimum, (240 AMP w/lift)  
Specify:

## **4. AXLES**

- A. Front axle: recommended by manufacture/dealer, Specify:
- B. Rear axle: recommended by manufacture/dealer, Specify:

- C. Oil Bath Hubs
- D. Rear End Ratio: Manufacture/dealer recommended, Specify:

## 5. BATTERY

- A. Stud post maintenance free, manufacture/dealer recommended:  
# Batteries:                      Group:                      CCA:                      each minimum
- B. Battery tray to include heavy duty roller ball bearings for operational ease
- C. Battery master shut off/disconnect switch\excluded for hydraulic brakes

## 6. BRAKES

- A. Air Drum:                      Air Disk:                      Hydraulic Disk
- B. AD-9 Air Dryer or equivalent with heater, (N/A hydraulic)
- C. Air tanks are to equipped with automatic moisture ejectors, (N/A hydraulic)
- D. Auto slack adjuster, (drum brakes), (N/A air disk)
- E. Antilock Brake System

## 7. DRIVER'S SEAT

- A. Seatbelt including a shoulder harness with 7" height adjustment
- B. High back seat
- C. Upholstery, Cloth/Vinyl
- D. Dual folding arms on driver's seat if available from manufacture
- E. Adjustment up and down, tilt back, Air/Manual

## 8. EMERGENCY EXIT

- A. Push Out windows each side of bus as required by SISBO
- B. Roof mounted escape hatches as required by SISBO
- C. Rear Door: Upper and lower glass

## **9. ENGINE**

- A. Diesel powered with minimum 200 HP, Specify:
- B. Engine shall be certified to meet all current State and Federal "Clean Air" specifications
- C. Engine block heater, minimum 750 watts
- D. High water temp/low oil pressure warning light/buzzer
- E. Road speed will be set to a maximum of 65 MPH
- F. Turbo exhaust brake standard

## **10. FUEL TANK**

- A. 60 gallon, Specify:
- B. Filler tube on right side of bus with exception of lift bus
- C. Fuel filter-water separator with heater
- D. Locking fuel door: Yes/No

## **11. HEATERS / VENTILATION**

- A. Front defroster/heater system as provided by manufacture
- B. Step-well heater: Yes/No
- C. Single fan mid-ship heater: Yes/No
- D. Double fan mid-ship heater: Yes/No; (included in state basic bus)
- E. Single fan rear heater: Yes/No
- F. Double fan rear heater: Yes/No; (included in state basic bus)
- G. Filters on all heaters: Yes/No:
- H. Two 6" windshield defog fans with separate switches
- I. Auxiliary heater 42,000 BTU or equivalent utilizing the same type fuel as specified for the vehicle engine and shall be connected to the engine coolant system.

## **12. INTERIOR DESIGN**

- A. Barrier on driver's side and passenger side with a kick/modesty panel installed between the bottom of the barrier and the floor.
- B. Driver's dome light with separate switch wired for use without ignition switch.

- C. Empty/passenger bus check system: Yes/No
- D. Flooring, color:
- E. Four camera surveillance system
- F. High/Low idle switch mounted on dash
- G. Instruments – Speedometer, tachometer, odometer, voltmeter, oil pressure gauge, water temperature gauge, fuel gauge, transmission temperature gauge, brake air pressure gauge (air brakes), brake indicator lamp (vacuum/hydraulic brakes), or brake indicator lamp (hydraulic/hydraulic), DEF gauge (Diesel Exhaust Fluid), upper headlamp beam indicator, turn signal indicator
- H. Interior side panels to be aluminized, scratch resistant or equivalent
- I. Marine grade C-D 5/8" 5 layer plywood flooring for insulation, Specify:
- J. Power port in drivers area
- K. Two (2) rows of interior lights, five (5) minimum per row

### **13. LIGHTS**

- A. Daytime running lights wired to the park brake to illuminate when the ignition is turned on. Allows the vehicle to operate in "lights on" condition at all times without driver input.
- B. Halogen, dual headlights
- C. Halogen or LED, exterior door light
- D. All other exterior lighting to be LED
- E. Two back-up lights maximum

### **14. MIRROR SYSTEM**

- A. Driver's view of mirrors through windshield shall be unobstructed
- B. Crossover mirror system, heated
- C. Drivers interior mirror shall be clear-view laminated glass mirror to be 6" x 30"  
Specify: \_\_\_\_\_, with sun visor
- D. All exterior side mirrors will be heated and remotely controlled

### **15. NOISE REDUCATION**

- A. Ceiling noise reduction complete bus acoustical ceiling

## **16. NUMBERS AND LETTERING**

- A. District name and number in belt line
- B. Lettering shall be 6"
- C. Each bus shall have numbers in two (2) places on each side of the bus in the logo panel. Numbers shall be as close to the first and last passenger windows as possible.
- D. Numbers will be coordinated through the Transportation Supervisor prior to construction of the buses.

## **17. RADIO SYSTEM**

- A. Two way communication radio
- B. AM/FM radio with PA and clock to be installed in driver compartment
- C. Maximum number of internal speakers to accommodate the AM/FM radio and Public Address System
- D. External speaker for PA

## **18. RADIATOR**

- A. Radiator sight glass or overflow tank
- B. Radiator hoses to be high quality rubber

## **19. ROOF**

- A. Roof mounted white strobe light on rear of bus with a protective guard to deter breakage: Yes/No
- B. Strobe light shall be wired to operate independently with dash switch

## **20. SAFETY ITEMS**

- A. Fire Extinguisher: one (1) per bus, 5lbs with hose and current year inspection tag
- B. Idaho first aid kit, metal box
- C. Idaho body fluids clean-up kit, metal box
- D. Triangle warning devices

- E. Backing horn mounted in rear bumper area of the bus 112 dB minimum rating
- F. Seat belt cutter having a full width handgrip
- G. Manual noise suppression switch installed in the control panel. Shall be labeled and alternately colored and control items specified in SISBO.

## **21. SCHOOL BUS SIGN**

- A. Reflective "SCHOOL BUS" decal on front and rear
- B. 1" reflective material outlined around all exits as required
- C. 2" reflective material outlined around the rear and sides of bus as required

## **22. SEATS**

- A. Minimum seat space: 26", Specify seat spacing:
- B. All seat cushion depth will be a minimum of 15"
- C. All seat backs will be 24" above the seating reference point
- D. Integrated child restraint seats and include LATCH attachments in first two rows:  
Yes/No
- E. Seat upholstery color, Specify:

## **23. SERVICE DOOR**

- A. Service door with emergency opening capability: Air/Electric:
- B. Outward opening split type door
- C. Exterior landing light mounted immediately behind step well
- D. Handrail(s) at front entrance door to extend to bottom step

## **24. SHOCK ABSORBERS**

- A. Direct acting, double action piston type

## **25. STEERING**

- A. Multi tilting

## **26. STOP ARM**

- A. Stop arm, with LED strobe light, Air/Electric
- B. Wind Guard

## **27. SUSPENSION**

- A. Front suspension manufacture/dealer recommendation Springs, Specify:
- B. Rear suspension manufacture/dealer recommendation Springs, Specify:
- C. Air ride, Specify:

## **28. TRANSMISSION**

- A. Manufacture/dealer recommended, Specify:
- B. Transmission must have synthetic fluid if available from manufacture

## **29. WHEEL AND TIRES**

- A. 22.5" x 8.25" wheels
- B. Hub piloted bud disc wheels
- C. R- 22.5 radial tire – 16 ply traction rear, hwy. front
- D. Spare tire and wheel, hwy. (compatible)

## **30. WINDOWS**

- A. Driver's side window: two (2) piece sliding-sash type tempered
- B. Frost free glazing for driver window, service door, and first two passenger windows on right side, Yes/No:
- C. Tinted passenger windows 28%

## **31. WINDSHIELD**

- A. Windshield will be tinted with shaded band at top.
- B. Electric windshield wipers, with single switch with washers
- C. Bottled windshield washer fluids storage and dispersal system



### **32. DELIVERY**

- A. Buses shall be delivered prior to
- B. Delivery point of School District

### **33. SAFETY FEATURES / SDE SUPPORTED**

- A. Additional Integrated Child Restraint Seats and include ISO LATCH attachments
- B. Addition number required or all seats
- C. Air conditioning, must be driven by an IEP
- D. Air conditioning vest: Yes/No
- E. Alternative fuel compressed natural gas engine-CNG engine: Yes/No
- F. Alternative fuel liquefied petroleum gas engine-propane-LPG engine: Yes/No
- G. Automatic chains: Yes/No
- H. Driver's side window sun visor: Yes/No
- I. Electromagnetic driveline retarder: Yes/No
- J. Flat floor: Yes/No
- K. Front bumper mounted student crossing arm : Yes/No
- L. Full track seating, 72 pass: Yes/No; Specify:
- M. Heated entry steps: Yes/No
- N. Passenger three point seat belts, flex seat: , regular seat: , # of seats:
- O. Roof mounted air deflector: Yes/No
- P. Second stop arm – left side rear: Yes/No
- Q. Track seating per station: Yes/No; Specify
- R. Wheel chair lift package, Yes/No: Number of stations: # lbs. cap.:  
Number of track seats to be installed:  
Seat belt cutter having a full width handgrip to be included.

### **34. ADDITIONAL OPTIONS DISTRICT SUPPORTED (NONREIMBURSABLE)**

- A. Air conditioning: Yes/No
- B. Ceiling hatch power vents: Yes/No
- C. Cove molding floor to wall: Yes/No
- D. Cruise control: Yes/No

- E. Driver's seat belt, high visibility: Yes/No
- F. Driver's seat, heated: Yes/No
- G. Fenderettes: Yes/No
- H. Foot pedals, adjustable: Yes/No
- I. Hand rail, colored: Yes/No
- J. Interior LED passenger lights: Yes/No
- K. Keys, common: Yes/No
- L. Keys, number required per bus
- M. Light monitor, (16) light system: Yes/No
- N. Lights, fog: Yes/No
- O. Passenger surveillance systems with more than four cameras  
Yes/No; of camera(s), location:
- P. Rear motorist alert display: Yes/No
- Q. Seating, fire block in-lieu of standard seat: Yes/No
- R. Steering, telescoping: Yes/No
- S. Step well tread, pebble tread: Yes/No
- T. Storage box lights: Yes/No; total numbers
- U. Storage cargo: Yes/No; Amount/Location:
- V. Storage, above driver left side: Yes/No
- W. Storage, overhead compartments for emergency equipment: Yes/No
- X. Suspension, front: Air ride: Yes/No
- Y. Tinted rear windows glass Yes/No
- Z. Tire chain box: Yes/No, Location:
- AA. Tire chains: Yes/No
- BB. Cables: Yes/No
- CC. Tool box under bus: Yes/No
- DD. Trash container, removable in drivers area: Yes/No
- EE. Turn signal lenses shall have arrows on rear: Yes/No
- FF. Vandal key lock entrance door: Yes/No
- GG. Vandal lock, rear door with ignition interrupter, key lock: Yes/No  
Dead bolt: Yes/No
- HH. White roof: Yes/No
- II. Winter front: Yes/No

### **35. NON-REIMBURSEABLE EXTENDED ENGINE WARRANTIES**

- A. 5 year 150,00 miles extended any major component
- B. 7 year 150,000 miles extended coverage
- C. 7 year 150,000 miles extended any major component
- D. 10 year 200,000 miles extended coverage
- E. 10 year 200,000 miles extended any major component

### **36. BIDDER CONTACT INFORMATION**

In order to complete the evaluation process faster, list the name, address, phone number, fax number, and email address of the person capable of answering any questions that may arise during the evaluation process. (Please Print or Type)

Company Name:

Attention:

Address:

City/ST/Zip:

Phone:

Fax:

Email:

Company Federal Tax ID #: