

# Platte Co R-3 School District

## Bid Specifications for One (1) 2022 Type C 42-Passenger Lift School Bus

Chassis to be new Type C model as described in these specifications. Minimum specifications are listed below, and each bidder must state the compliance details that pertain to the unit indicating size, quality, range and information as necessary to determine unit quality. Bidder's specifications **must meet or exceed** the minimum specifications listed and must detail any variance or deviations from specification. Any spaces that ask for a specific detail, type of component, or other pertinent information regarding the specification must be filled in to be considered a responsive bid. **All chassis and body specifications shall meet or exceed those specifications as set forth by the Federal Department of Transportation, Federal Motor Vehicle Safety Standards, and the 2017 Missouri Minimum Standards for School Buses (or as may be in effect) at time of manufacture.**

These specifications must be filled out and returned with bid to be considered. Marking YES means you meet Specifications exactly. Marking NO means you must fill out an Variance From Specification comment to the right of the YES/NO checkboxes. Failure to do so will result in bid being disqualified.

**NEW 2022 42-PASSENGER WHEELCHAIR  
CONVENTIONAL SCHOOL BUS CHASSIS AND BODY  
SPECIFICATIONS**

|  | YES   | NO    | VARIANCE FROM SPECIFICATION |
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| <b>Chassis: New 2022 Model chassis for 42-passenger capacity school bus body</b>   | _____ | _____ | _____                       |
| <b>Wheel base:</b> minimum 218" axle to axle centers   | _____ | _____ | _____                       |
| <b>Frame Rails:</b> high strength, low alloy steel, 50,000 PSI   | _____ | _____ | _____                       |
| <b>Bumper, Front:</b> Full width aerodynamic, 1/4" minimum thickness, 14" height heavy-duty steel.   | _____ | _____ | _____                       |
| <b>Bumper, Rear:</b> 14" high, 1/4" minimum thickness  | _____ | _____ | _____                       |
| <b>Frame Members, Attachment, &amp; Supports:</b> all frame members, attachments and supports shall be attached using minimum Grade 8 bolts and/or fasteners | _____ | _____ | _____                       |
| <b>Chassis Frame Rails and Attachments:</b> Powder-coated black finish for maximum rust and corrosion protection   | _____ | _____ | _____                       |
| <b>Axle, Front:</b> 10,000 lb. min. capacity with oil-lubricated wheel seals/hubs, with front shock absorbers<br><b>Required:</b> State front axle warranty  | _____ | _____ | _____                       |
| <b>Suspension, Front:</b> 10,000 lb. taper leaf design with rubber bushings, and shock absorbers.  | _____ | _____ | _____                       |
| <b>Axle, Rear:</b> Single reduction with gearing that will support efficient highway driving speeds. Shall include a magnetic drain plug.                    | _____ | _____ | _____                       |
| <b>Rear suspension:</b> 21,000 lb. Capacity, with heavy-duty shock absorbers and air bags (suspension).  | _____ | _____ | _____                       |
| <b>Steering:</b> Power assist type steering gear   | _____ | _____ | _____                       |
| <b>Steering Shaft:</b> U-Joints shall be serviceable with grease fittings.   | _____ | _____ | _____                       |
| <b>Steering Column:</b> Tilt automotive adjustable type.   | _____ | _____ | _____                       |
| <b>Steering Wheel:</b> the steering wheel shall be cushioned, 18" in diameter.   | _____ | _____ | _____                       |
| <b>Adjustable Foot Controls:</b> electric with switch control - <b>REQUIRED</b>  | _____ | _____ | _____                       |

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**Cruise control:** electronic

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**Tow hooks:** 2 mounted front & 2 mounted rear

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**ENGINE AND TRANSMISSION**

**Engine, Diesel:** - Turbo-charged diesel engine, 250 HP. 560 ft/lb torque rating. Must meet current EPA engine emissions standards. Preferred engine Cummins ISB

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**REQUIRED:** List engine make, model, & HP rating

**Transmission:** Allison PTS2500 Series 5-speed automatic transmission

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**Exhaust System:** Diesel particulate filter to meet 2010 emission requirements

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**Cooling system:** Heavy duty with viscous fan clutch and visible coolant level check system

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**Diesel fueled engine block heater.** Espar or Webasto. Please specify

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**Alternator:** Leece-Neville, 240 amp (or equivalent)

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**Battery System:** Three Group 31 maintenance free batteries with a minimum combined rating of 2,850 CCA's.

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**Battery Box:** battery box shall be body mounted, vented and sealed from road contaminant. In addition, the battery tray shall be equipped with rollers for ease of movement. Batteries to be accessible by opening door only without the need to remove a cover.

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**Exhaust system:** Single horizontal with aluminized muffler, heat shields and left side tailpipe exit prior to rear axle is preferred.

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**Electrical System:** 12 volts, negative ground. All wiring shall be color coded, numbered,

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**Wiring Protection:** all wiring shall be protected in a continuous loom and include grommets.

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**Chassis Electrical System Connectors:** all chassis connectors shall be moisture sealed and SAE automotive locking type.

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**Electronic Diagnostics System:** the bus shall be equipped with an on board dash LCD diagnostic display which can display fault codes for engine and chassis with out any hand held or computer devices attached.

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**Air Cleaner:** Bus shall be equipped with screen integrated with the hood to remove moisture and large debris.

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**Air Cleaner Filter:** the filter shall be removable without the use of mechanical tools, and shall include an air restriction indicator

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**Engine coolant:** Shall be extended life coolant and pre-set to minimum of - 30°F.

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**Throttle and Cruise Control:** Engine electronics to include electronic cruise control.

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**Engine Alarm System:** Bus shall be equipped with both visual and audible alarms notifying the driver in the event of low oil pressure or high water temperature.

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**Fast idle switch:** electric

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**Low Voltage Protection Indicator:** Bus shall be equipped with both visual and audible alarms notifying the driver of a low voltage occurrence.

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**Headlights:** Replaceable halogen bulb without the use of tools for increased light output with Lexan cover for durability and safety.

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**Daytime Running Lights:** Headlight operation controlled by ignition switch. System to be capable of being deactivated by applying the parking brake except when the red warning lights are active.

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**Full Instrumentation:** Voltmeter, Oil and Temperature Gauges, Speedometer, Trip Odometer, Tachometer, Fuel Gauge. Additionally, the instrument panel shall be illuminated and include text light indicators monitoring both the amber and red warning light activations, emergency exit door opening, low coolant level and cruise control activation.

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**Body Circuit Cutoff:** Body circuit electrical disconnect solenoid, all body circuits, wired through ignition switch

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**Horns:** Dual electric horns.

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**BRAKE SYSTEM**

**Brake System:** Air-operated, S-Cam Dual System with ABS. Non-asbestos brake linings, with 15.0" X 4.0" front brakes and 16.5" X 7.0" rear brakes. Primary/secondary mechanical air pressure gauges and low air pressure warning light and buzzer.

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**Air Dryer:** Bendix AD-9 dryer with heater,

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**Automatic slack adjusters:** Vehicle shall be equipped with Haldrex automatic slack adjuster front and rear

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**Air compressor:** shall be a minimum of 18.7 CFM capacity,

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**Drain Valve:** Bendix DV-2, Automatic with heater on all tanks

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**Parking Brake:** chassis shall be equipped with air-operated, spring-loaded parking brakes on the rear axle that are activated by a dash - mounted switch/valve

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**FUEL**

**Fuel Tank:** 65 or 100 gallon steel diesel tank, RH mounted with cage, or between-the-rails \_\_\_\_\_

**Fuel Tank Sender Inspection Plate:** an inspection plate shall be mounted over the fuel tank in the floor of the bus body. \_\_\_\_\_

**Fuel/Water Separator:** heated \_\_\_\_\_

**Low Fuel Level Indicator:** Bus shall be equipped with a visual alarm light notifying the driver in the event of low fuel level. \_\_\_\_\_

**Heat Shields:** heat shields shall be located between any part of the fuel system that is 12" or closer to any part of the exhaust system \_\_\_\_\_

**Fuel filler door:** to be equipped with a non-locking latch (not just spring loaded to hold it closed) \_\_\_\_\_

**WHEELS AND TIRES**

**Wheels:** 8.25" x 22.5" steel disc, hub piloted, 10 Stud, painted high gloss black \_\_\_\_\_

**Tires:** 255/70R22.5 14-ply tires. Steer tires on front axle: M&S on drive axle \_\_\_\_\_

**MISCELLANEOUS**

**Winterfront covers:** Yellow snap-on & removeable \_\_\_\_\_

**Hood:** the hood shall be constructed of molded fiberglass with such a design to incorporate a replaceable yellow grill, and a side-mounted air engine air intake grill feature that filters out large particles prior to reaching the air filter. \_\_\_\_\_

**Hood Wire Harness Assembly:** headlight and turn signal wiring harness shall have a quick disconnect connector at, or near, the bumper. \_\_\_\_\_

**Road speed governor:** Electronic \_\_\_\_\_

**Windshield wipers:** 5-speed intermittent electric \_\_\_\_\_

**WARRANTIES: (Bidders must provide a copy of warranty certificates for covered components with the bid)**

**Towing:** Minimum 2 yrs/10,000 miles  
***Include warranty provided with bid*** \_\_\_\_\_

**Transmission:** 5 yrs/Unlimited miles  
***Include warranty provided with bid*** \_\_\_\_\_

**Engine:** 5 yrs/100,000 miles minimum  
***Include warranty provided with bid*** \_\_\_\_\_

**Chassis:** 1 Year Unlimited Mileage Chassis Warranty  
***Include warranty provided with bid*** \_\_\_\_\_

| YES | NO | VARIANCE FROM SPECIFICATION |
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**BUS BODY SPECIFICATIONS**

**Capacity:** 42 or 28 as rated according to manufacturer based on seats. Seats in all positions with easy reconfiguration

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**Headroom:** Minimum 78" measured at the center of the aisle with 12" window sashes.

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**Stepwell:** Three-step design. The stepwell shall be constructed of 14 - gauge galvanized steel, welded and sealed to the main floor structure. Steps shall be covered with ribbed rubber treads, color matched to the main floor of the bus, with white safety nosing on all steps. Back edges of all step treads shall be sealed at the joint where they meet the risers to prevent moisture and dirt from collecting between the tread and riser.

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**Exterior Paint:** Baked-on polyurethane National School Bus Chrome yellow paint on exterior, with black guard rails, bumpers, and state required warning light backgrounds. Window pilasters may be yellow or black. Roof to be painted white. Paint to have a 5-yr warranty against all defects.

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**Interior Paint/Side panels:** Baked-on polyurethane interior, manufacturer's standard color. The interior side panels below the windows shall be constructed of aluminized steel. Paint to have a 5-yr warranty against all defects.

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**Undercoating:** Two - stage process to include complete undercoating of the bus body prior to mounting the body on the chassis for complete body coverage. After body mounting a second undercoat shall be applied for maximum corrosion and rust protection.

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**Floor:** Floor shall be flat and level front to back

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**Floor Covering:** Koroseal with ribbed center aisle with aluminum aisle trim. Flooring material to be black.

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**Body Side Panels:** the side panels shall be constructed of a minimum 16 - gauge steel with a smooth panel appearance.

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**Upholstery:** BLUE, 42oz fire-block on all seats, barriers, padded shoulder rails, and header bumpers

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**Insulation, thermal & noise:** 2" fiberglass insulation located in roof, sides, and end caps. Driver area floor and firewall noise insulation package.

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**Headliner:** Ceiling panels are to be perforated with sound insulation, full length of bus

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**Stairwell Assist Rails:** 1" diameter, both forward (RH) and aft (LH) of the entrance door stepwell

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**Rear Door Hinges:** The rear emergency door shall be constructed with hinges that include grease fittings on any external hinges that are exposed to the elements or road debris.

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| YES | NO | VARIANCE FROM SPECIFICATION |
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**Rub Rails:** (4) including snow rail: All rub rails shall be painted high-gloss black, and shall be finished on all ends with a metal end cap.

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**Drip Rails:** Run the full length of the body. Forward end of the RH side drip rail shall have a diversion channel to ensure that water does not drip down directly over the entrance door. The left side shall have the same type of water diversion over the driver's window to prevent dripping.

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**Cowl Steps:** Two, fold down.

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**Sub-floor:** 5/8" exterior grade plywood

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**Front and rear doors:** to have 4" padded header over the doors. Doors to be lockable.

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**Driver Seat:** Air Suspension, 6 to 17 degree seat back adjustment, mechanical lumbar support, right side arm rest, BLUE to match all other seats.

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**Driver seat belt:** Orange, 3-point DOT shoulder belt

**Driver storage area:** Must be an area with door/lid enclosure with a built-in cup holder and USB accessory port.

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**Passenger seats:** to be Missouri high back, 36 or 39", seat frames with seat belts installed on all seats. All seats shall be covered in blue "Fire Block" upholstery. First two rows only to have integrated child restraint seats. All seats except for the first four rows to be mounted on Q-Straint flanged L-Track recessed into floor, including seats to be mounted over wheelchair spaces. There shall be a total of (2) LH and (2) RH integrated child restraint seats and (2) LH and (2) RH seats mounted to the floor in first 4 rows, (2) RH seats mounted in L-Track, and (4) LH seats mounted in L-Track. Q-Straint L-Track shoulder belt securement tracks to match all installed floor tracks. Seats to be mounted on standard centers.

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**Passenger Barriers:** DOT approved fully padded seats and barriers, upholstered to match seats

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**Seat covers:** to have a minimum 1-year warranty.

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**Modesty panels:** to be installed between floor and the bottom of both left and right side barriers

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**Entrance door:** air operated outward opening door switches left of driver with exterior key lock.

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**Emergency Windows:** Two (2) windows, one left & one right with appropriate lettering for "Emergency Exit". All windows to be aluminum split sash.

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**Passenger windows:** to be tinted to 28% light

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**Windshield:** shall have tinted band at top.

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**Defrosters:** full window width, hot air defrost and two 6.5" defrost fans, one center, one left of driver

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**Windshield wipers:** to be bottom mounted with individual electric motors, intermittent control switch and wet arm style.

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**Rear door:** to be designated "Emergency Exit" with decal mounted ABOVE door, or on uppermost portion rear door glass (any lower installation will not be acceptable) and audible alarm when opened.

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**Heaters:** 90,000 BTU or equivalent front, minimum 50,000 BTU stepwell, 80,000 BTU rear with two motors and separate switches. **MUST include hot water booster pump. Heat level to be driver controllable - variable rotating knob**

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**Heater cut off valve:** gate, 3/4"

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**Two-way radio/video power source:** The LH area of the front interior bulkhead shall include a stubbed-in power source for the installation of a two-way radio and video system. This power source must be circuit breaker protected.

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**Crossing arm:** Electric, with interrupt switch.

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**Roof hatches:** (2) Transpec 1975-028-121-03

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**All body circuits:** protected circuits

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**All body wiring:** to be color coded and numbered.

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**Mirrors**

**Interior rear view:** 6 x 30

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**Cross View Mirrors:** - Heated and properly braced

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**Exterior View:** - Heated, individually remote adjustable by driver.

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**Sun visor:** 6" x 30"

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**Lighting** (*all exterior lighting to be incandescent unless otherwise noted - no LED's*)

**Tail lights:** 4", to meet state specifications

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**Stop/tail lights:** (2) 7" incandescent

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**Turn signals, front mounted:** integrated into the front headlight assemblies, plus (2) 7" amber body mounted

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**Turn signals, side mounted:** shall be armor protected, and mounted per state specifications

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**8-way lights:** incandescent, **with weather hoods,** switches left of driver

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**Stop arm:** front and rear, Specialty Mfg 6000 Series, electrically-operated stop arm with incandescent lights wired for automatic operation with entrance door to meet Missouri specs

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**Back-up lights:** (2) 7" Clear

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**Step well light:** operated by door opener

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**License plate light**

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**Dome lights:** Two rows of recessed dome lights

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**Driver's dome light:** on separate switch

**Dome lights over emergency door:** Last row of dome lights on separate switch

**Strobe light:** Roof mounted white flashing strobe light

**Back-up alarm:** 112db

**Fire extinguisher:** 5-lb, with hose, mounted near entrance door

**Body fluid clean up kit:** mounted on front header.

**First aid kit:** mounted near entrance door

**Emergency triangular warning kit:** mounted on LH modesty panel behind driver's seat

**Reflexite V82 grade reflective tape:** extending down both sides, on rear both vertically and horizontally and "SCHOOL BUS" lettering on front and rear.

**Reflectors:** as required by Law.

**Seat Belt Cutter** Installed in driver's area

**Lettering:** Interior/exterior per Missouri state minimum specifications. District lettering shall include bus number in four locations with numbers to be determined.

Beltlines (side lettering) shall read: **PLATTE CO R-3**

**SCHOOL DISTRICT** in 5" black lettering to meet state specifications

**Certificate holder:** (2) 9 3/8" X 6" with transparent covers

**Radio/PA:** AM/FM/PA Stereo with antenna and cables with 8 speakers

**Post Trip Child Inspection System:** Shall be equipped with a Child-Chek system, or equivalent, that is activated by the driver activating the red warning lights and opening the entrance door while on route. The system shall be designed so as to require the driver to walk to the back of the passenger compartment upon completion of their route to disarm. If not disarmed, the headlights will flash and the horn will sound alerting personnel the bus was not checked to ensure all students have exited the bus

**Air Conditioning:** MCC (formerly Carrier) 126,000 BTU Front & Rear bulkhead mounted Air Conditioning system. (or equivalent)

**Wheelchair lift:** Ricon S-Series wheelchair lift, mounted RH rear of rear axle to maximize capacity of bus.

**Wheelchair Securement Straps:** Two (2) sets of Q-Straint QRT MAX automatic self-locking, self-tensioning retractable wheelchair securements for 4-point floor and shoulder belt applications. Securement belt sets shall have appropriate hardware to fit to L-Tracks on floor and above windows. Storage bag for restraints to be mounted in rear of bus near lift.



## INSTRUCTIONS TO BIDDERS

**The successful bidder shall be responsible for the transfer and proper installation (cameras, recording unit and light indicators connected) of existing cameras and mobile video recording equipment from the trade-in to the new vehicle.**

The school bus body and chassis furnished must comply with all current rules, regulations and standards as established by the State of Missouri and Federal Government.

Invoice(s) for net purchase price should be made to the Platte County R-3 School District, and must be dated on or after August 1, 2021. The district is exempt from sales tax, and a Missouri state tax exemption certificate will be furnished upon request. Destination or freight charges shall be included in this bid (FOB Platte City, MO). Payment will be made upon the completion of a satisfactory inspection for specification compliance and final acceptance of units.

It is the intent of the Platte County R-3 School District to procure one (1) new 2022 model bus as specified, and to trade-in one (1) of our current fleet buses. However, the Board of Education reserves the right to buy outright, or to trade any or all trade-in units as indicated, and to accept the bid that is in the overall best interests of the Board of Education.

Delivery of completed units must be made, and payment for the new unit will be made, during August 2021 .

Bids shall be enclosed in an envelope and marked as follows:

“BUS BID” – lower left hand corner

“NAME OF BIDDER” – upper left hand corner

**Bids are due no later than 10:00am CST on Thursday May 13, 2021.** Any bids received after that will be considered as "non-responsive" and will be returned to the bidder unopened.

Any and all exceptions to the specifications outlined herein must be noted and thoroughly explained in the bid proposal. The terms “no structural differences” or “we are equal to your specifications” will not be permitted. It will be the responsibility of the Board of Education or their representatives to determine if a substitution to the specifications is considered “equal to”. The bidder must provide detailed specifications for any exceptions so the Board of Education can make the necessary comparisons to enable a proper decision. Failure to do so may result in rejection of your bid for non-compliance. These specifications must be returned with the proposal.

# Platte County R-3 School District

## 2022 Model School Bus Bid Sheet

COMPANY BIDDING \_\_\_\_\_

ADDRESS \_\_\_\_\_

PHONE \_\_\_\_\_

Chassis Model: \_\_\_\_\_

Body Model: \_\_\_\_\_

Engine Model and HP rating: \_\_\_\_\_

### Bid Price

Base price per unit \_\_\_\_\_

LESS TRADE-IN ALLOWANCE \_\_\_\_\_

2008 Thomas (GMC) Cutaway,  
vin:1GBJG316881129974  
Mileage (a/o 4/13/2021) 142,114

NET BID, FOB Platte City, MO \_\_\_\_\_

Estimated delivery days after receipt of order: \_\_\_\_\_

Completed bus will meet or exceed the specifications and provisions as outlined in the enclosed bid notification letter dated April 10, 2018 unless variances have been noted in writing on the above specification sheet.

\_\_\_\_\_  
Authorized Selling Agent

*(please type or print)*

\_\_\_\_\_  
Signature and Date

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

Address: \_\_\_\_\_

Phone: \_\_\_\_\_