



Francis Howell R-III School District Request for Proposal School Bus Fleet

Addendum October 22, 2024 - Clarifications and Changes Pertaining to the RFP

Responses due November 1, 2024, 9:30 a.m. CDT

Proposal Section

1. Section 9. Can this be removed or changed to allow for proposals to be submitted that do not meet all the specifications and therefore disqualify the proposal.

No changes to section 9 will be made. The language of the RFP provides sufficient flexibility needed as noted in sections 11, 13, 18, and 29.

2. Does the district intend for this to be a true (operating) municipal lease?

The District is not taking titles to the vehicles and will not be entertaining an option to purchase at the end of the lease. This will be a true municipal lease where the lessor/vendor keeps title to the buses throughout the lease and the rent is just for the economic value of the use and enjoyment of the buses during the lease. This is stated in the RFP in paragraph #1

3. Can you clarify how you want the pricing submitted?

List the lease price per year per bus along with the annual lease payment. Do this for all five (5) years.

4. Can a bus be brought to the district for a demo?

Yes. Please arrange a time and date with Matthew Bollwerk to bring a bus to the transportation facility, if interested. This is not a requirement. The demo must take place prior to the submission deadline of November 1, 2024.

Bus Specifications and Vendor Instructions

The following set of bus specifications will replace in its entirety, the bus specifications issued in the original proposal on October 11, 2024

NEW 47 PASSENGER SCHOOL BUS SPECIFICATIONS

Minimum specifications are listed below and each bidder must state to the right of the listed specifications the compliance details that pertain to the unit bid indicating size, quality, range and information as necessary to determine unit quality.

CHASSIS SPECIFICATIONS	Meets Spec Yes/No	Exception / Description
1. GENERAL DESCRIPTION		
2025 Model Year 47 Passenger Conventional		
Approximately 193" Wheel Base – Specify length if different than 193"		
Frame - 50,000 PSI Strength		
2. ENGINE AND EPA RELATED EQUIPMENT		
- Gasoline Engine Min 265 HP <i>Specify HP _____ @ _____</i> - Diesel Engine Min 200 HP <i>Specify HP _____ @ _____</i>		
- Gasoline Engine Min 335ft lb torque <i>Specify Torque _____ @ _____</i> - Diesel Engine Min 600ft lb torque <i>Specify Torque _____ @ _____</i>		
Engine Warranty 5 year / 100,000 Mile		
Single Stainless Steel Horizontal Exhaust System, Tail Pipe To Exit Left Side Ahead of the Rear Duals		
Electronic Cruise Control		
Minimum 717 square inch Aluminum Radiator; 2 row, cross flow, Over-under systems with in tank Transmission cooler and hoses that are 1 inch or larger to be secured with constant Torque clamps.		
Gasoline Viscous Fan Clutch		
-40 Degree Anti Freeze, Long Life Coolant		
Dry Element Air Filter With Restriction Gauge		
5 Year Unlimited Mileage Tow Warranty in relation to powertrain issues		
If diesel engine, add Webasto programmable heater for engine coolant and add block heater		
3. TRANSMISSION		
Allison Electronic Series 2500 6 Speed Automatic Transmission With Overdrive Filled With Synthetic Fluid. Provide details of alternate transmission brand if used for buses in place of Allison		
Transmission Warranty, Seven (7) Year Warranty		

	Meets Spec Yes/No	Exception / Description
4. AXLES AND SUSPENSION		
✓ 26,000 Lb GVWR Maximum		
✓ Minimum 8,000 Lb Front Axle		
✓ 8,000 Lb Front Parabolic Leaf Springs		
✓ Synthetic Oil Lubricated Front Wheel		
✓ Minimum 18,000 Lb Rear Axle Synthetic Oil		
✓ 18,000 Lb Vari - Rate Rear Leaf Style		
✓ Rear Axle Ratio to Be 6.17 To 1.		
✓ Specify Rear End Ratio:		
✓ Front And Rear Dual Action Shock		
5. TIRES		
✓ Front- 245/70R 19.5 Highway Tread		
✓ Rear- 245/70R 19.5 Traction Tread		
6. WHEELS		
✓ Black Steel Hub Piloted 19.5 X 6.75		
✓ Wheels & Tires are to be Balanced at the Factory Prior to Delivery		
7. STEERING		
✓ Power Steering System, TRW Power Steering		
✓ 5 Position Tilt Steering Wheel		
✓ Minimum 50 Degree Wheel Cut For Exceptional Maneuverability		
8. BRAKES		
✓ Hydraulic Brake System w/electronic Traction		
✓ Anti-Lock Brakes-4 Channel		
✓ Front & Rear Brakes – Hydraulic Disc Quadrauc; for 70mm diameter pistons		
✓ Parking Brake: Drum type Activated by Pressing Parking Brake Pedal; With key switch interlock, Park Brake Cannot be released Until Ignition Switch is in “On” Position & Service Brake is Depressed		
9. ELECTRICAL EQUIPMENT		
✓ Minimum 320 Amp Pad Mounted Leece Neville Alternator		
✓ Electrical Circuits Protected By Manual Re-Set Circuit Breakers For Body And Chassis		
✓ Body Cut-Off Relays		
✓ Headlights Will Be Halogen or LED And Require No Tools For Replacement		
✓ Daytime Running Lights are automatically activated when the bus engine is running and the parking brake is disengaged		
✓ Battery Shut Off Switch for Batteries		
✓ All Wiring To Be Color Coded And Numbered		

Electrical Equipment Continued	Meets Spec Yes/No	Exception / Description
✓ All Wiring Shall Be Grommet Protected Where It Passes Through Metal		
✓ Three Batteries With a Minimum Of 2250 CCA		
✓ Batteries To Be Enclosed in a Battery Box Compartment With Pull Out Tray On Stainless		
✓ Dual Electric Horns		
✓ On Board IP Diagnostic Display		
10. FUEL TANK		
✓ 60 Gallon Fuel Tank Mounted Between Frame Rails With Heavy Duty Crash Barrier		
11. INSTRUMENTATION		
✓ Complete Instrumentation Including Engine Hour Meter, Oil Pressure Gauge, Temperature Gauge, Speedometer, Tachometer, Amp Meter, Voltage Meter, Transmission Temperature Gauge		
✓ Low Oil Pressure, High Water Temp		
12. FRONT BUMPER		
✓ Front Bumper Shall Be Full Width And Must Extend To Outer Edge Of Fenders		
✓ Front Bumper Must Be Of Sufficient Strength To Permit Pushing Of A Vehicle Of Equal Gross Weight Without Permanent Distortion To Bumper, Chassis, Or Body		
✓ Specialty Series “Solid State” Electric Crossing Arm.		
✓ Crossing Gate To Have Yellow Poly Type Arm Contoured To The Bumper		
✓ Crossing Arm To Be Held To Front Bumper By An Electronic Magnet When Not In Use		
13. HOOD		
✓ Hood To Have Built In Open And Close Assist		
✓ Splash Guards To Limit Splash and Road Dirt From entering The Engine Compartment		
14. MISCELLANEOUS CHASSIS EQUIPMENT		
✓ Frame Mounted Front Tow Hooks		
✓ Frame Mounted Rear Tow Hooks		

BODY SPECIFICATIONS

Minimum specifications are listed below and each bidder must state to the right of the listed specifications the compliance details that pertain to the unit bid indicating size, quality, range and information as necessary to determine unit quality.

	Meets Spec Yes/No	Exception / Description
1. GENERAL DESCRIPTION		
✓ 47 Passenger		
• 2025 Model Year Conventional School Bus Body		
✓ Body Length To Be 23'08" approximately		
✓ Interior headroom in passenger compartment to be a minimum of 77" Specify Headroom_____		
2. BODY CONSTRUCTION		
✓ Body Construction Will Conform To FMVSS220 And FMVSS221 For Joint Strength And Roll Over Protection, Including Floor Joints		
✓ Body To Be Attached To Chassis With GRADE 8 Bolts, Each Body Section Equipped With An Anti Spin Off Device		
✓ The Side Panels On Outside Of Bus Are To Be 16 Gauge Smooth Steel		
✓ Four (4) Full Length Exterior Rub Rails, Painted Black Flange To Flange		
✓ Top Of Each Rub Rails To Be Sealed With Caulk And Bottom To Have Drain Holes		
✓ Body Bows Are To Be a Minimum Of 14 Gauge Steel And Of One Piece Design, Extending From Floor Line To Floor Line		
✓ Exterior Lower Body Skirts Are To Be A Minimum Of 16 Gauge Steel, 19.75 "Long , And Mounted On Heavy Gussets		
✓ Roof Bows To Be Threaded Through Roof Strainers And Drip Rails		
✓ Approximately 39x10x10 Storage compartment located above Driver Window area with locking latches and padding		
✓ One Piece Roof Panels From Window To Window		
✓ Aluminized Steel inner Side Walls		

	Meets Spec Yes/No	Exception / Description
BODY CONSTRUCTION CONTINUED		
✓ Full Length Rain Gutter		
✓ All Ceiling Panels To Be Perforated Type With Acoustic Lining In All Sections		
✓ Ceiling Panels To Be Installed With Rivets		
✓ Complete Insulation, Including Corners, Headers, Ceiling And Roof Bows, R 5.5 value Fiberglass Type:		
✓ Ceiling Insulation To Be Covered With A Full Length Scrim Cloth Type Material To Prevent Insulation From Coming Through The Perforated Headliner		
3. REAR BUMPER		
✓ To Be Die Formed 3/16” Steel, Minimum 12” Face With 12” Wrap Around		
4. DOORS		
✓ Entrance Door To Be Outward Opening, And Electric operation		
✓ Entrance Door To Have Exterior Non- Corrosive Handle Mounted To Front Door Panel To Open And Close Entrance Door		
✓ Entrance Door Open/Close Switch To Be Located On Steering Wheel or control panel		
✓ Redundant Open/Close Switch To Activate The Electric Entrance Door Shall Be Located On The Drivers Switch Panel.		
✓ Entrance Door Will Not Open Until Bus Has Come To A Complete Stop		
✓ Exterior Key To Open and Close Entrance Door and be keyed alike		
✓ 3 Step stepwell Specify Clear Width: _		
✓ Entrance Step Risers To Be 9” and Equal In Height		
✓ Rear Emergency Door Must Conform To FMVSS217 For Emergency Exits		
✓ Stainless Steel Grab Rail Aft Of Entrance Door		
✓ Stainless Steel Grab Rail Forward Of Entrance Door		
✓ Rear Emergency Door To Have Lower Glass		
✓ Vandal Locks Rear Doors		
✓ Rear Vandal Lock To Have Buzzer And Ignition Interlock To Prevent Bus From Starting When Door Is Locked		

5. WINDOWS AND WINDSHIELD	Meets Spec Yes/No	Exception / Description
✓ Windshield To Be Tinted With Heavy Tint Border At Top Of Glass		
✓ Windshield Wipers To Be Heavy Duty With Bottom Mounted Control Arms		
✓ Wipers To Have 5 Intermittent Speeds		
✓ Wiper Control To Be Located On Turn Signal		
✓ Headlights To Operate Automatically When Wipers Are Engaged		
✓ 12" Aluminum Sash Windows with 26% light transmission tinted Laminated glass		
✓ All Windows are to be tinted and laminated		
6. EMERGENCY EXITS		
✓ Two (2) Vertical Hinged Push Out Emergency Exit Windows		
✓ One (1) Transpec Centered Roof Hatch: with outside Release, With English Decals		
7. SAFETY EQUIPMENT		
✓ 5 Lb. Fire Extinguisher Mounted In The Drivers Area		
✓ Triangle Reflector Kit To Be Secured Off The Floor Behind Driver Seat		
✓ Missouri First Aid Kit Mounted To The Front Header		
✓ 112db Back Up Alarm Activated By Reverse Gear		
✓ Post Trip Monitor-"No Student Left Behind" System Accessory Controlled, With Alarm Disable At Rear Of The Bus By Pushing the Red Button displaying the bus has been walked through		
✓ Missouri Body Fluid Kit		
✓ Red Colored "Noise Suppression Switch" To Be Dash Mounted. Switch To Be Labeled "Noise" Or "No Noise". Single Switch To Control All Heater Motors ,Defroster Fans, And Radio So That The Driver Can Hear At Intersections And Railroad Crossings		
8. SEATS AND UPHOLSTERY		
✓ Driver Seat To Be A National 2000 Seat Gray Cloth Inserts And Arm Rest On Right Side		
✓ Driver Seat Belt to Be Orange in Color		
✓ Driver's Seat Belt Shoulder Harness With Adjustable Height Wall Mounted Retractor For Drivers Seat		
✓ Seating Capacity To Be 47 Passenger		
✓ 39" High Back Seats		

SEATS AND UPHOLSTERY CONTINUED	Meets Spec Yes/No	Exception / Description
SEATING ARRANGEMENTS: All 39" Seats Are to be Equipped with three (3) three-point lap and shoulder seat belts & All 26" Seat Are to be Equipped with two (2) Three-point lap and shoulder seat belts.		
FUTURE SEATING FLEXIBILITY, All Passenger Seats Must Have an Interchangeable Seat Back that Allows for Future Upgrades. Upgrades Include Three (3) Point Lap/Shoulder Belt For Up To Three (3) Passenger Per Seat; Integrated Child Seat (ICS) with a 5 point harness and sliding shoulder height adjusters to accommodate significantly taller children. All upgrades to be accomplished without replacing or removing the seat base frame from the floor. Example would be IMMI Safeguard Exchange Seats		
All Seats Upholstered With Heavy Duty 42 Ounce PREVAIL Vinyl Material, Gray In Color		
Bottom Seat Foam To Be Virgin Foam For Longer Life And Reduced Foam Breakdown		
Fire Block Upholstered Header Pad Above Emergency Door and Entrance Door in Gray		
Padded Right And Left Barriers At Entrance		
Modesty Panel Between Floor And Bottom Of Barrier On Right Side		
Modesty Panel Between Floor And Bottom Of Barrier On Left Side With Ventilation Holes		
Large Driver Storage Compartment and a cup holder in Drivers area.		
9. FLOOR AND COVERING		
Black Smooth rubber or Koroseal In Driver's Area And Under Seats		
Heavy Duty Black Ribbed Rubber Or Koroseal Covering In Aisle		
Wheel Housings Shall Be Covered With Abs Molded Wheel House Covers		
Entrance Step treads to be of pebble tread with White Safety Edge on all Steps		
5/8" Exterior Grade Plywood Sub-Floor, Screwed Down		
Aluminum Aisle Trim		
Access Plate to fuel sending unit		

	Meets Spec Yes/No	Exception / Description
10. HEATERS, DEFROSTERS		
✓ Two Defroster Fans One Right One Left		
✓ 90,000 BTU Drivers Heater		
✓ Washable Air Filter To Be Furnished For The Driver's Heater		
✓ 50, 000 BTU Right Front Heater		
✓ Washable Air Filter To Be Furnished For Stepwell Heater		
✓ 80,000 BTU Left Rear Under Seat Heater		
✓ Washable Air Filter To Be Furnished For Rear Heater		
✓ Auxiliary Water Booster Pump Mounted Under The Hood		
✓ All Heater Hoses To Have Constant Torque Hose Clamps		
✓ Two (2) Quarter Turn Brass Heater Cut-Off Valves, With Butterfly Type Handle Under The Hood.		
✓ Driver Switch Panel To Have Switches To Control For The Heat Temperature, Air Flow Direction, And Fresh Air and/or Recirculated		
11. LIGHTS AND ELECTRICAL		
✓ Double Row Of Dome Lights Mounted Over Window Sections Located In The Wiring Access Panels Above The Side Windows		
✓ Drivers Dome Light With Separate Control		
✓ Stepwell Light Wired For Automatic Operation With Entrance Door Control		
✓ Two (2) 7" Combination Brake And Tail Lights		
✓ Two (2) 7" Clear Back Up Lights		
✓ Two (2) 4" Combination Brake And Tail Lights		
✓ 7" Amber Turn Signals On Both Front And Rear		
✓ Recessed Mounted Clearance Lights In Front And Rear Headers To Be L.E.D.		
✓ 8 Way Light System To Be Wired Directly To The Chassis Multi-Plex System		
✓ 8 Way Warning Light System To Be Activated By Steering Wheel Mounted Controls, or control panel		
✓ Pre-Check Switch Enabling One Person To Complete A Check Of All Exterior Lights		
✓ Low Profile Strobe Light, Single Flashing		
✓ Armored Turn Indicators Mounted On Each Side Of The Body To Be L.E.D.		
✓ Armored or Flush mounted Marker Lights As Per Federal And State Requirements To Be L.E.D.		

✓ 12 Volt Outlet In Drivers Area		
✓ FRONT & REAR Specialty Electric Operation Reflective Stop Arm With Lights To Operate From Opening Of Entrance Door		

Lights And Electrical Continued	Meets Spec Yes/No	Exception / Description
✓ Crossing Gate Interrupt Switch		
• AM/FM/MP3/PA Stereo radio system with Clock Display, includes antenna, with 6 speakers		
✓ Exterior or Interior Electrical Access Panel Mounted Below The Drivers Window With Wiring Schematic Attached To The Door		
✓ Exterior Electrical Access Panel Door To Have Lock keyed like current buses or keyed alike		
✓ Electrical Circuits Protected By Manual Re-Set Circuit Breakers For Body And Chassis		
✓ WIRING VIDEO SYSTEM, Power & Ground Connection Only, Connection in Flasher Plate Area with 20 Amp Fuse Protection.		
✓ WIRING TWO WAY RADIO, Power & Ground Connection Only, Connection in Flasher Plate Area with 20 Amp Fuse Protection.		
• TWO-WAY RADIO, Hytera MD782i Installed prior to delivery.		
12. MIRRORS		
✓ 6 X 30 Interior Mirror		
✓ 6 X 30 Left Side Sun Visor, Plastic Type		
✓ Right and Left External Rosco Open View Remote and Heated		
✓ Cross view heated Mirrors		
✓ All Heated Mirror Wiring To Run Through Mirror Frames.		
✓ Large Metal Backing Plate installed on inside of hood for reinforcement of cross View Mirror		
13. PAINT, LETTERING AND REFLECTORS		
✓ Exterior Painted National School Bus Yellow And Black Trim and Roof painted white		
✓ 3M “Fluorescent” Diamond Grade Highly Reflective Tape Around The Perimeter of the Rear of the Bus, All Kick Out Windows, Roof Hatches, Rear Emergency Door,		
✓ 3M “Fluorescent” Diamond Grade Highly Reflective Tape , 2” Stripe Down Each Side		
✓ 3M “Fluorescent” Diamond Grade Highly Reflective Tape For The “School Bus” Signs Front And Rear		
✓ All Amber And Red Reflectors On The Front,Side And Rear To Be 3M “Fluorescent” Highly Reflective Tape		
✓ All Customer Required Lettering Francis Howell School District		
✓ All State Of Missouri Required Lettering		

14. MISCELLANEOUS REQUIREMENTS	Meets Spec Yes/No	Exception / Description
✓ Front And Rear Mud Flaps to be Rubber		
✓ Rear Fender Flares		
✓ Missouri State Inspection Completed before delivery		
✓ Secured Trash Can Container		
✓ Outside Exterior Route Number Changer by Passenger Entry Door		
✓ Common Key for Ignition and Door Locks to be keyed alike		
✓ FOB Saint Charles, MO		
15. CAMERA EQUIPMENT		
GATEKEEPER SYSTEMS, Model Y35 DVR with 512 SD Card. Five Camera System with Event Marker. (Camera Heads: 3 x WA11, 1 x stop sign camera, 1 x S31 IP 4.0 with Drop Mount) Installation are as follows, One Windshield Camera, One Camera Over Drivers Modesty Panel seeing driver and step well, Two Wide Angle Passenger Cabin Cameras Looking down into the seats and across and one Forward Facing Stop Arm Camera. All lights and Sensors Wired to Camera system.		
16. AIR CONDITIONING REQUIREMENTS		
BUS AIR Conditioning, Minimum 136,000 BTU with Front & Rear Recessed Evaporators Installed in Bulkheads Flush Mounted. Driver to have dash air. Condensers are to be mounted within the Wheelbase. Condenser Material will be Aluminized Steel and Installed with Aluminized Hardware. The Air Conditioning System should carry a Five (5) year on Parts/ Components & Approved Labor, Please Provide Warranty Coverage Documentation.		
ADDITIONAL ITEMS TO BE INCLUDED		
5 Year Warranty Provide Body and Chassis Warranty Coverage for. Minimum Five (5) years / 100,000 Mile		\$
Provide Supporting Documents Reinstall current district owned telematic equipment used For Maintenance records and Determining Bus Location.		\$

NEW 35 PASSENGER LIFT SCHOOL BUS SPECIFICATIONS

Minimum specifications are listed below and each bidder must state to the right of the listed specifications the compliance details that pertain to the unit bid indicating size, quality, range and information as necessary to determine unit quality.

CHASSIS SPECIFICATIONS	Meets Spec Yes/No	Exception / Description
3. GENERAL DESCRIPTION		
• 2025 Model Year 40 Passenger With Lift Conventional School Bus Chassis		
✓ Approximately 193" Wheel Base- Specify wheel base if different than 193"		
✓ Frame - 50,000 PSI Strength		
4. ENGINE AND EPA RELATED EQUIPMENT		
• Gasoline Engine, Min 265 HP Specify HP _____ @ _____ • Diesel Engine Min 200 HP Specify HP _____ @ _____		
• Gasoline Engine Min 335ft lb torque Specify Torque _____ @ _____ • Diesel Engine Min 600ft lb Specify Torque _____ @ _____		
✓ Engine Warranty 5 year / 100,000 Mile		
✓ Single Stainless Steel Horizontal Exhaust System, Tail Pipe To Exit Left Side Ahead of the Rear Duals		
✓ Electronic Cruise Control		
✓ Minimum 717 square inch Aluminum Radiator; 2 row, cross flow, Over-under systems with in tank Transmission cooler and hoses that are 1 inch or larger to be secured with constant torque clamps.		
• Gasoline Viscous Fan Clutch		
✓ -40 Degree Anti Freeze Long Life Coolant		
✓ Dry Element Air Filter With Restriction Gauge Located On The Air Cleaner		
✓ 5 Year Unlimited Mileage Tow Warranty in relation to powertrain issues		
• If diesel engine, add Webasto programmable heater for engine coolant and add block heater		
3. TRANSMISSION		
✓ Allison Electronic Series 2550 6 Speed Automatic Transmission With Overdrive Filled With Synthetic Fluid. Provide details of alternate transmission brand if used for buses in place of Allison		
✓ Transmission Warranty, Seven (7) Year Warranty		

	Meets Spec Yes/No	Exception / Description
4. AXLES AND SUSPENSION		
✓ 26,000 Lb GVWR Minimum		
✓ Minimum 8,000 Lb Front Axle		
✓ 8,000 Lb Front Parabolic Leaf Springs		
✓ Synthetic Oil Lubricated Front Wheel		
✓ Minimum 18,000Lb Rear Axle Synthetic		
✓ 18,000 Lb Vari - Rate Rear Leaf Style		
✓ Rear Axle Ratio to Be 6.17 To 1.		
✓ Specify Rear End Ratio:		
✓ Front And Rear Dual Action Shock		
5. TIRES		
✓ Front- 245/70R 19.5 Highway Tread		
✓ Rear- 245/70R 19.5 Traction Tread		
6. WHEELS		
✓ Black Steel Hub Piloted 19.5 X 6.75		
✓ Wheels & Tires are to be Balanced at the Factory Prior to Delivery		
7. STEERING		
✓ Power Steering System, TRW Power Steering		
✓ 5 Position Tilt Steering Wheel		
✓ Minimum 50 Degree Wheel Cut For Exceptional Maneuverability		
8. BRAKES		
✓ Hydraulic Brake System w/electronic Traction Control		
✓ Anti-Lock Brakes-4 Channel		
✓ Front & Rear Brakes – Hydraulic Disc Quadraulic; for 70mm diameter pistons		
✓ Parking Brake: Drum type Activated by Pressing Parking Brake Pedal; With key switch interlock, Park Brake Cannot be released Until Ignition Switch is in “On” Position & Service Brake is Depressed		
9. ELECTRICAL EQUIPMENT		
✓ Minimum 320 Amp Pad Mounted Leece Neville Alternator		
✓ Electrical Circuits Protected By Manual Re-Set Circuit Breakers For Body And Chassis		
✓ Body Cut-Off Relays		
✓ Headlights Will Be Halogen or LED And Require No Tools For Replacement		
✓ Daytime Running Lights are automatically activated when the bus engine is running and the parking brake is disengaged		
✓ Battery Shut Off Switch for Batteries		
✓ All Wiring To Be Color Coded And Numbered For There Appropriate Function		

Electrical Equipment Continued	Meets Spec Yes/No	Exception / Description
✓ All Wiring Shall Be Grommet Protected Where It Passes Through Metal		
✓ Three Batteries With a Minimum Of 2250 CCA		
✓ Batteries To Be Enclosed in a Battery Box Compartment With Pull Out Tray On Stainless Steel Rollers		
✓ Dual Electric Horns		
✓ On Board IP Diagnostic Display		
10. FUEL TANK		
✓ 60 Gallon Fuel Tank Mounted Between Frame Rails With Heavy Duty Crash Barrier		
11. INSTRUMENTATION		
✓ Complete Instrumentation Including Engine Hour Meter, Oil Pressure Gauge, Temperature Gauge, Speedometer, Tachometer, Amp Meter, Voltage Meter, Transmission Temperature Gauge		
✓ Low Oil Pressure, High Water Temp		
12. FRONT BUMPER		
✓ Front Bumper Shall Be Full Width And Must Extend To Outer Edge Of Fenders		
✓ Front Bumper Must Be Of Sufficient Strength To Permit Pushing Of A Vehicle Of Equal Gross Weight Without Permanent Distortion To Bumper, Chassis, Or Body		
✓ Specialty Series “Solid State” Electric Crossing Arm		
✓ Crossing Gate To Have Yellow Poly Type Arm Contoured To The Bumper		
✓ Crossing Arm To Be Held To Front Bumper By An Electronic Magnet When Not In Use		
13. HOOD		
✓ Hood To Have Built In Open And Close Assist		
✓ Splash Guards To Limit Splash and Road Dirt From entering The Engine Compartment		
14. MISCELLANEOUS CHASSIS EQUIPMENT		
✓ Frame Mounted Front Tow Hooks		
✓ Frame Mounted Rear Tow Hooks		

BODY SPECIFICATIONS

Minimum specifications are listed below and each bidder must state to the right of the listed specifications the compliance details that pertain to the unit bid indicating size, quality, range and information as necessary to determine unit quality.

	Meets Spec Yes/No	Exception / Description
1. GENERAL DESCRIPTION		
✓ 35 Passenger with W/C Lift		
✓ 2025 Model Year Conventional School Bus Body		
✓ Minimum Body Length To Be 23'08" approximately		
✓ Interior headroom in the passenger compartment to be a minimum of 77" Specify Headroom_____		
13. BODY CONSTRUCTION		
✓ Body Construction Will Conform To FMVSS220 And FMVSS221 For Joint Strength And Roll Over Protection, Including Floor Joints		
✓ Body To Be Attached To Chassis With GRADE 8 Bolts, Each Body Section Equipped With An Anti Spin Off Device		
✓ The Side Panels On Outside Of Bus Are To Be 16 Gauge Smooth Steel		
✓ Four (4) Full Length Exterior Rub Rails, Painted Black Flange To Flange		
✓ Top Of Each Rub Rails To Be Sealed With Caulk And Bottom To Have Drain Holes		
✓ Body Bows Are To Be a Minimum Of 14 Gauge Steel And Of One Piece Design, Extending From Floor Line To Floor Line		
✓ Exterior Lower Body Skirts Are To Be A Minimum Of 16 Gauge Steel, 19.75" long And Mounted On Heavy Gussets		
✓ Roof Bows To Be Threaded Through Roof Strainers And Drip Rails		
✓ Approximately 39x10x10 Storage compartment located above Driver Window area with locking latches and padding		
✓ One Piece Roof Panels From Window To Window		
✓ Aluminized Steel inner Side Walls		

	Meets Spec Yes/No	Exception / Description
BODY CONSTRUCTION CONTINUED		
✓ Full Length Rain Gutter		
✓ All Ceiling Panels To Be Perforated Type With Acoustic Lining In All Sections		
✓ Ceiling Panels To Be Installed With Rivets		
✓ Complete Insulation, Including Corners, Headers, Ceiling And Roof Bows, R 5.5 value Fiberglass Type:		
✓ Ceiling Insulation To Be Covered With A Full Length Scrim Cloth Type Material To Prevent Insulation From Coming Through The Perforated Headliner		
14. REAR BUMPER		
✓ To Be Die Formed 3/16" Steel, Minimum 12" Face With 12" Wrap Around		
15. DOORS		
✓ Entrance Door To Be Outward Opening, And Electric operation		
✓ Entrance Door To Have Exterior Non- Corrosive Handle Mounted To Front Door Panel To Open And Close Entrance Door		
✓ Entrance Door Open/Close Switch To Be Located On Steering Wheel or control panel		
✓ Redundant Open/Close Switch To Activate The Electric Entrance Door Shall Be Located On The Drivers Switch Panel.		
✓ Entrance Door Will Not Open Until Bus Has Come To A Complete Stop		
Exterior Key to Open and close Entrance door and keyed alike		
✓ 3 Step stepwell Specify Clear Width: _		
✓ Entrance Step Risers To Be 9" and Equal In Height		
✓ Step well To Be 14 Gauge Galvanized Steel, and with Pebble Treads with white safety edge		
✓ Rear Center Emergency Door Must Conform To FMVSS217 For Emergency Exits		
✓ Stainless Steel Grab Rail Aft Of Entrance Door		
✓ Stainless Steel Grab Rail Forward Of Entrance Door		
✓ Rear Emergency Door To Have Lower Glass		
✓ Vandal Locks on Rear Door		
✓ Rear Vandal Lock To Have Buzzer And Ignition Interlock To Prevent Bus From Starting When Door Is Locked		

16. WINDOWS AND WINDSHIELD	Meets Spec Yes/No	Exception / Description
✓ Windshield To Be Tinted With Heavy Tint Border At Top Of Glass		
✓ Windshield Wipers To Be Heavy Duty With Bottom Mounted Control Arms		
✓ Wipers To Have 5 Intermittent Speeds		
✓ Wiper Control To Be Located On Turn Signal Stalk		
✓ Headlights To Operate Automatically When Wipers Are Engaged		
✓ 12" Aluminum Sash Windows with 26% light transmission tinted Laminated glass		
✓ All Windows are to be tinted and laminated		
17. EMERGENCY EXITS		
✓ Two (2) Vertical Hinged Push Out Emergency Exit Windows		
✓ One (1) Transpec Centered Roof Hatch: with outside Release, With English Decals		
18. SAFETY EQUIPMENT		
✓ 5 Lb. Fire Extinguisher Mounted In The Drivers Area		
✓ Triangle Reflector Kit To Be Secured Off The Floor Behind Driver Seat		
✓ Missouri First Aid Kit Mounted To The Front Header		
✓ 112db Back Up Alarm Activated By Reverse Gear		
✓ Post Trip Monitor-"No Student Left Behind" System Accessory Controlled, With Alarm Disable At Rear Of The Bus By Pushing the Red Button displaying the bus has been walked through		
✓ Missouri Body Fluid Kit		
✓ Red Colored "Noise Suppression Switch" To Be Dash Mounted. Switch To Be Labeled "Noise" Or "No Noise". Single Switch To Control All Heater Motors ,Defroster Fans, And Radio So That The Driver Can Hear At Intersections And Railroad Crossings		
19. SEATS AND UPHOLSTERY		
✓ Driver Seat To Be A National 2000 Seat Gray Cloth Inserts & Arm Rest On Right Side		
✓ Driver Seat Belt to Be Orange in Color		
✓ Driver's Seat Belt Shoulder Harness With Adjustable Height Wall Mounted Retractor For Drivers Seat		
✓ Seating Capacity To Be 35 Passenger with Lift Convertible to 29 +2		
✓ 39" High Back Seats		

SEATS AND UPHOLSTERY CONTINUED	Meets Spec Yes/No	Exception / Description
SEATING ARRANGMENTS: All 39" Seats are to be Equipped with three (3) three-point lap and shoulder seat belts & All 26" Seat Are to be Equipped with two (2) Three-point lap and shoulder seat belts. RIGHT SIDE: The first five (5) shall be 39" Stationary Seats. The Sixth Seat shall be 26". LEFT SIDE: The first Four (4) shall be 39" Stationary Seats. Seats five (5) through six (6) shall be 39" track Mounted Seats. Seats seven (7) and Eight (8) shall be open for W/C. All Track Mounted Seats are to be Installed in Position when Delivered		
FUTURE SEATING FLEXIBILTY, All Passenger Seats Must Have an Interchangeable Seat Back that Allows for Future Upgrades. Upgrades Include Three (3) Point Lap/Shoulder Belt For Up To Three (3) Passenger Per Seat; Integrated Child Seat (ICS) with a 5 point harness and sliding shoulder height adjusters to accommodate significantly taller children. All upgrades to be accomplished without replacing or removing the seat base frame from the floor. Example would be IMMI Safeguard Exchange Seats		
All Seats Upholstered With Heavy Duty 42 Ounce PREVAIL Vinyl Material, Gray In Color		
Bottom Seat Foam To Be Virgin Foam For Longer Life		
Fire Block Upholstered Header Pad Above Emergency Door and Entrance Door in Gray		
Padded, Right And Left Barriers At Entrance		
Modesty Panel Between Floor And Bottom Of Barrier On Right Side		
Modesty Panel Between Floor And Bottom Of Barrier On Left Side With Ventilation Holes		
Large Driver Storage Compartment and a cup holder in Drivers area.		
20. FLOOR AND COVERING		
Flat Floor		
One Piece Flooring		
Black Smooth rubber or Koroseal In Driver's Area And Under Seats		
Heavy Duty Black Ribbed Rubber Or Koroseal Covering In Aisle		
Entrance Step treads to be of pebble tread with White Safety Edge on steps		

✓ 5/8" Exterior Grade Plywood Sub Floor Screwed Down		
✓ Access Plate to fuel sending unit		

	Meets Spec Yes/No	Exception / Description
21. HEATERS, DEFROSTERS		
✓ Two Defroster Fans One Right One Left		
✓ 90.000 BTU Drivers Heater		
✓ Washable Air Filter To Be Furnished For The Driver's Heater		
✓ 50, 000 BTU Right Front Heater		
✓ Washable Air Filter To Be Furnished For Stepwell Heater		
✓ 80,000 BTU rear wall Heater		
✓ Washable Air Filter To Be Furnished For Rear Heater		
✓ Auxiliary Water Booster Pump Mounted Under The Hood		
✓ All Heater Hoses To Have Constant Torque Hose Clamps		
✓ Two (2) Quarter Turn Brass Heater Cut-Off Valves, With Butterfly Type Handle Under The Hood.		
✓ Driver Switch Panel To Have Switches To Control For The Heat Temperature, Air Flow Direction, And Fresh Air and/or Recirculated Air		
22. LIGHTS AND ELECTRICAL		
✓ Double Row Of Dome Lights Mounted Over Window		
✓ Drivers Dome Light With Separate Control		
✓ Stepwell Light Wired For Automatic Operation With Entrance Door Control		
✓ Two (2) 7" Combination Brake And Tail Lights		
✓ Two (2) 7" Clear Back Up Lights		
✓ Two (2) 4" Combination Brake And Tail Lights		
✓ 7" Amber Turn Signals Both Front And Rear		
✓ Recessed Mounted Clearance Lights In Front And Rear Headers To Be L.E.D.		
✓ 8 Way Light System To Be Wired Directly To The Chassis Multi-Plex System		
✓ 8 Way Warning Light System To Be Activated By Steering Wheel Mounted Controls or on control panel		
✓ Pre-Check Switch Enabling One Person To Complete A Check Of All Exterior Lights		
✓ Low Profile Strobe Light, Single Flashing		
✓ Armored Turn Indicators Mounted On Each Side Of The Body To Be L.E.D.		
✓ Armored or flush mounted Marker Lights As Per Federal And State Requirements To Be L.E.D.		
✓ 12 Volt Outlet In Drivers Area		

✓ Front & Rear Specialty Electric Operation Reflective Stop Arm With Lights To Operate From Opening Of Entrance Door		
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Lights And Electrical Continued	Meets Spec Yes/No	Exception / Description
✓ Crossing Gate Interrupt Switch		
✓ AM/FM/MP3/PA Stereo radio system with Clock Display, includes antenna, with 6 speakers		
✓ Exterior or Interior Electrical Access Panel Mounted Below The Drivers Window With Wiring Schematic Attached To The Door		
✓ Exterior Electrical Access Panel Door To Have Lock be keyed alike		
✓ Electrical Circuits Protected By Manual Re-Set Circuit Breakers For Body And Chassis		
✓ WIRING VIDEO SYSTEM, Power & Ground Connection Only, Connection in Flasher Plate Area with 20 Amp Fuse Protection.		
✓ WIRING TWO WAY RADIO, Power & Ground Connection Only, Connection in Flasher Plate Area with 20 Amp Fuse		
• TWO-WAY RADIO, Hytera MD782i Installed prior to delivery.		
23. MIRRORS		
✓ 6 X 30 Interior Mirror		
✓ 6 X 30 Left Side Sun Visor, Plastic Type		
✓ Right and Left External Rosco Open View Remote and Heated		
✓ Cross view heated Mirrors		
✓ All Heated Mirror Wiring To Run Through Mirror Frames.		
✓ Large Metal Backing Plate installed on inside of hood for reinforcement of cross View Mirror Mount		
13. PAINT, LETTERING AND REFLECTORS		
✓ Exterior Painted National School Bus Yellow And Black Trim and Roof painted white		
✓ 3M “Fluorescent” Diamond Grade Highly Reflective Tape Around The Perimeter of the Rear of the Bus, All Kick Out Windows, Roof Hatches, Rear Emergency Door,		
✓ 3M “Fluorescent” Diamond Grade Highly Reflective Tape , 2” Stripe Down Each Side		
✓ 3M “Fluorescent” Diamond Grade Highly Reflective Tape For The “School Bus” Signs Front And Rear		
✓ All Amber And Red Reflectors On The Front, Side And Rear To Be 3M “Fluorescent” Highly Reflective Tape		
✓ All Customer Required Lettering Francis Howell School District		
✓ All State Of Missouri Required Lettering		

	Meets Spec Yes/No	Exception / Description
14. SPECIAL NEEDS EQUIPMENT		
✓ Braun Millennial Lift with Forward Power Packet to allow ease of servicing. Minimum 1000 lb lift.		
✓ Lift Location to Be Right Rear		
✓ Exterior Lift Light to light when lift door is open and bus is running.		
✓ Green Lift Door Light to light in Drivers area to indicate that lift door is open.		
✓ Two (2) Evac Blankets with Storage pouches installed in the Wheelchair		
✓ Two (2) Seatbelt Cutters		
✓ Two (2) Sets Q Straint QRT Q8107 A1 L2 With Storage pouches Mounted in Wheel Chair		
✓ Two (2) Wheel Chair Positions shall have Four (4) Full Length parallel L Track Flush mounted across from Braun Lift with full length of track above passenger windows to allow maximum universal securement for different sizes of wheel chair positions.		
15. MISCELLANEOUS REQUIREMENTS		
✓ Front And Rear Mud Flaps to be Rubber		
✓ Rear Fender Flares		
✓ Missouri State Inspection Completed before delivery		
✓ Secured Trash Can Container		
✓ Outside Exterior Route Number Changer by Passenger Entry Door		
✓ Common Key for Ignition and Door Locks that is same as our Current Buses		
✓ FOB Saint Charles, MO		
16. CAMERA EQUIPMENT		
• GATEKEEPER SYSTEMS, Model Y35 DVR with 512 SD Card. Five Camera System with Event Marker. (Camera Heads: 3 x WA11, 1 x stop sign camera, 1 x S31 IP 4.0 with Drop Mount) Installation are as follows, One Windshield Camera, One Camera Over Drivers Modesty Panel seeing driver and step well, Two Wide Angle Passenger Cabin Cameras Looking down into the seats and across and one Forward Facing Stop Arm Camera. All lights and Sensors Wired to Camera system.		

17. AIR CONDITIONING REQUIREMENTS	Meets Spec Yes/No	Exception / Description
BUS AIR Conditioning, Minimum 136,000 BTU with Front & Rear Recessed Evaporators Installed in Bulkheads Flush Mounted. Driver to have dash A/C. Condensers are to be mounted within the Wheelbase. Condenser Material will be Aluminized Steel and Installed with Aluminized Hardware. The Air Conditioning System should carry a Five (5) year on Parts/ Components & Approved Labor, Please Provide Warranty Coverage Documentation.		
ADDITIONAL ITEMS TO BE INCLUDED		
5 Year Warranty Provide Body and Chassis Warranty Coverage for. Minimum Five (5) years / 100,000 Mile Include W/C Lift warranty minimum five (5) years		\$
Provide Supporting Documents Reinstall current district owned telematic equipment used For Maintenance records and Determining Bus Location.		\$