



# Huntley Community School District 158

650 Dr. John Burkey Drive (formerly Academic Drive)  
Algonquin, Illinois 60102  
(847) 659-6158 • www.district158.org

## **SCHOOL District 158 Bid 2021-7**

### **Propane**

*New or "One Year Old" Conventional School Bus Specification 77 Passenger – HYDRAULIC BRAKES*

All deviations and exceptions to chassis and body specifications must be noted with bid. Vehicles must meet all applicable Federal and State safety specifications and requirements in effect at time of delivery. Price to include all license and title fees.

#### **CHASSIS SPECIFICATIONS**

#### **BIDDERS COMPLIANCE**

1. 2022 model year chassis with minimum wheelbase of 273" for 77 passenger body. \_\_\_\_\_
2. Vehicle must meet the Colorado Rack and Kentucky Pole Test standards. \_\_\_\_\_
3. V-10, 6.8L 320 H.P. engine MINIUMAN designed for propane dedicated fuel only, liquid propane injection, with .05 Nox or below. Must meet 2015 E.P.A standards. Please include EPA Nox certification. Ford 6R140 automatic 6-speed transmission. Bendix Electronic Stability control to be included. \_\_\_\_\_
4. Dry type air filter. All oil filters to be spin-on type. \_\_\_\_\_
5. Minimum G.V.W. rating of 29,000 lbs. \_\_\_\_\_
6. 10,000 lb. frt. axle rating with oil lubricated bearings. \_\_\_\_\_
7. 21,000 lb. rear axle with a ratio of 5.29 to 1 single speed \_\_\_\_\_
8. HYDRAULIC brakes with 10 hole hub-piloted wheels. 4-Channel A.B.S. with dust shields. Bendix Electronic Stability control system. \_\_\_\_\_
9. Tires: Front 11R22.5 H rated highway tread. Rear 11R22.5 H rated traction tread. Wheels to be 8.25" wide. Wheels and tires balanced before installation. \_\_\_\_\_
10. Minimum 325 amp. Leece Neville alternator. \_\_\_\_\_
11. Dual electric horns. \_\_\_\_\_
12. Tip-off front end with easy tilt option. \_\_\_\_\_
13. Propeller shaft guards. \_\_\_\_\_
14. Power steering. \_\_\_\_\_
15. Front and rear shock absorbers. \_\_\_\_\_

- 16. Locking fuel fill door with ignition interlock.  
Auto shut-off when 80% fuel level is reached while fueling.  
External purge valve set at 80% tank level.  
Manual tank shut off and auto excess loss shut off.  
Dual fuel pumps with stainless steel fuel lines.  
93 usable gallon ASME certified carbon steel, liquid propane Autogas fuel tank located between frame rail behind rear axle. Staubli quick connect fuel fill mounted within the fuel door. \_\_\_\_\_
- 17. Engine block heater 750 watt minimum. Weather-proof Receptacle and battery tender \_\_\_\_\_
- 18. 21,000 lb. Spring rear suspension. \_\_\_\_\_
- 19. 10,000 lb. frt. springs. \_\_\_\_\_
- 20. Three 12 Volt batteries 2100 C.C.A. minimum, with a battery disconnect switch located in the battery box to disconnect power to both the chassis and body. \_\_\_\_\_
- 21. Chassis to be high tensile strength minimum. 50,000 P.S.I. \_\_\_\_\_
- 22. Rear exited single stainless steel exhaust system (heavy-duty). \_\_\_\_\_
- 23. Two (2) frt. and two (2) rear tow hooks. \_\_\_\_\_
- 24. Engine gauges to include high temperature and low oil pressure warning lights with buzzer. Low coolant warning light, tachometer, volt meter and transmission temperature. Fuel gauge to have low level warning light and alarm. \_\_\_\_\_
- 25. One complete set of master shop manuals to be included at time of delivery. Online version acceptable. **Electrical diagrams to be included.** \_\_\_\_\_
- 26. All mechanic classroom training on propane product to be included at no charge to the district. \_\_\_\_\_
- 27. All units to have line set tickets. \_\_\_\_\_
- 28. Fender mounted class (A) LED turn signals. Turn signal switch to be heavy-duty upgrade. \_\_\_\_\_
- 29. Bidder will indicate warranty periods.
  - (a) Chassis \_\_\_\_\_
  - (b) Drive Train \_\_\_\_\_
  - (c) Extended available warranty options \_\_\_\_\_

**(A) CONSTRUCTION**

1. Body shall be first quality of the manufacturer.  
Minimum length to be 33'10", headroom to be 77" \_\_\_\_\_
2. Body shall be for 12 rows 39" wide (3-3) seating. \_\_\_\_\_
3. Seat covers shall be fireblock material. Backs and cushions are to meet Federal safety specifications. Color to be dark brown. Barrier pocket cover behind driver seat in dark brown \_\_\_\_\_
4. Body to be insulated throughout. Insulation to be 1.5 inches minimum. \_\_\_\_\_
5. Minimum 5/8" marine plywood with sealed edges over steel floor. \_\_\_\_\_
6. Rubber floor over plywood. No splices except where ribbed rubber joins smooth rubber. Aisle width of ribbed rubber to be full standard roll. Smooth rubber in drivers area, color of rubber to be tan. \_\_\_\_\_
7. Stainless steel stripping over all open flooring seams using stainless steel fasteners if applicable. \_\_\_\_\_
8. Four (4) exterior, full length, rub rails (shoulder level, seat cushion level, floor level and bottom of skirt)with 16 gauge panels from windows to bottom of skirt. \_\_\_\_\_
9. One piece roof bows to extend from floor line to floor line. \_\_\_\_\_
10. Continuous armored belt above and below floor line not to be part of exterior. \_\_\_\_\_
11. Aluminized steel interior panels. \_\_\_\_\_
12. Wheel house extensions front and rear of wheels. \_\_\_\_\_
13. Body and chassis to have complete undercoating. \_\_\_\_\_
14. 2022 body to be mounted on a 2022 chassis (see chassis specifications). \_\_\_\_\_
15. Body roof to be painted white to within 12" above drip rail with rounded corners. \_\_\_\_\_
16. Hood and cowl to be "Non Glare". Painted flat yellow. \_\_\_\_\_
17. Stainless steel stepwell with stainless steel trim and mounting hardware. \_\_\_\_\_

**(B) ELECTRICAL**

- 1. Electrically operated dual stop arm. Specialty Model 7000, with LED lights. \_\_\_\_\_
- 2. Electric windshield washers with one (1) gallon reservoir. \_\_\_\_\_
- 3. Body disconnect switch, ignition switch controlled. \_\_\_\_\_
- 4. Electrical system protected by manual-reset SAE type III circuit breakers with trip indicators. Wires to be color coded polyethylene insulated, and mounted in ducts above the side windows. \_\_\_\_\_
- 5. A/M F/M radio with clock. Speakers to be a minimum of six (6) feet from drivers area. Per state requirements. \_\_\_\_\_
- 6. Fuel gauge inspection hole to be a minimum 64 sq. inches with cover included. \_\_\_\_\_
- 7. Interior lights to be LED include a LED Drivers dome light with a separate switch. \_\_\_\_\_
- 8. Electronic back-up alarm. \_\_\_\_\_
- 9. Electric crossing gate to be Specialty model series 6, solid-state manufacture, with an interrupt switch mounted by stop arm switch, and poly gate. \_\_\_\_\_
- 10. Strobe light to be Aero-flash low profile type. \_\_\_\_\_
- 11. All exterior lights are to be LED including a stepwell and an outside LED boarding light. The 8 way warning lights are to be Sound Off Series 7 LED. Warning system to be wired with amber lights solid and reds to be flashing. \_\_\_\_\_
- 12. Unit to be equipped with an exterior light "Pre Check" device which enables one person to do a complete check of all exterior lights including brake and back up lights. \_\_\_\_\_
- 13. Units to be equipped with a 12v power receptacle located in the dash or switch panel area. \_\_\_\_\_

**(C) HEATERS AND DEFROSTERS**

- 1. Heater lines to be covered inside of bus body. \_\_\_\_\_
- 2. Heater shut-off valves to be 1/4 turn type. \_\_\_\_\_
- 3. Left front heater to be 90,000 BTU. 2-fan 3-speed. \_\_\_\_\_

- 4. Entrance door heater to be 50,000 BTU. 2-speed. \_\_\_\_\_
- 5. One under-seat heater 80,000 BTU. 2-fan 2-speed at rear of bus. \_\_\_\_\_
- 6. Three (3) auxiliary defroster fans mounted on forward header panel. \_\_\_\_\_
- 7. Windshield defrosters to have separate motors. \_\_\_\_\_
- 8. Vendor will state sq. inches of fresh air intake for heaters. \_\_\_\_\_

**(D) ACCESSORIES**

- 1. Tinted windshield with front and drivers side visor. Driver's side window and all passenger side windows to be tinted to 28%. The first windows on both sides are to be clear storm glass. All rear glass is to be clear glass-no tint. \_\_\_\_\_
- 2. Padded headers over all exit doors. \_\_\_\_\_
- 3. Front mounted heated Hawkeye crossover mirrors with stainless steel brackets and hardware. Heated, motorized Rosco Open View, Side View mirror system, P/N D3D1312440 8"x12" Flat and 8"x 6" convex mirrors mounted with stainless steel brackets and hardware \_\_\_\_\_
- 4. Heavy duty hoods (one piece) over warning lights. Front and rear. \_\_\_\_\_
- 5. Front door to be electrically operated and electronically controlled from drivers seat. Must also have an exterior cowl mounted, key operated, electronically controlled switch. \_\_\_\_\_
- 6. Heavy duty intermittent electric windshield wipers With all season blades and individual switches. \_\_\_\_\_
- 7. Rear vandal lock to be sliding bolt type to meet state specifications. Starter interlock. \_\_\_\_\_
- 8. Battery, front entrance, electrical panel, and fuel doors to be keyed alike with (4) four sets of keys. All units purchased to have same locks. \_\_\_\_\_
- 9. Drivers seat to be National 2000 air or Bostrom Routemaster #222 plus air. Seat must be adjustable without tools. Shall have right side arm rest and have a 3 point retractable shoulder belt, wall mounted "D" loop type with an 8" track on the wall for height adjustment. Belt color to be "Blaze Orange". Seat shall also have an adjustable lumbar support. \_\_\_\_\_
- 10. Drivers cup/beverage holder. \_\_\_\_\_

**(D) ACCESSORIES...Continued**

- 11. Two (2) **Specialty ProLow** series escape hatches per vehicle. \_\_\_\_\_
  
- 12. Stainless steel entrance grab rails mounted on both sides of steps attached with stainless steel anchors. \_\_\_\_\_
  
- 13. Two (2) emergency push windows on each side of vehicle. Emergency windows to be staggered from opposite side. \_\_\_\_\_
  
- 14. Mud flaps front and rear of vehicle. \_\_\_\_\_
  
- 15. 3-step entrance to be covered with smooth tread non-slip brown plastic with white plastic nosing, all plastic construction. \_\_\_\_\_
  
- 16. Rust free hinges on all doors. State construction. \_\_\_\_\_
  
- 17. Sound package with full length perforated headliner \_\_\_\_\_
  
- 18. Drivers storage compartment for emergency equipment and a drivers locking glove box mounted in dash. \_\_\_\_\_
  
- 19. Tilt/telescoping steering wheel. \_\_\_\_\_
  
- 20. Dealer to install and program, at the district garage, a 2 way radio, antenna and coax that will be district supplied. Prewiring for 2 way radio located in the exterior access Panel, connections for power and ground using a 20amp fuse Must be labeled "2-way radio". \_\_\_\_\_
  
- 21. Prewiring for a video system. Location to be in the exterior electrical panel. Connections for power and ground, protected by a 20amp fuse. Must be labeled "Video". \_\_\_\_\_
  
  
- 22. Headlamp buzzer if headlamps are left on with key off. \_\_\_\_\_
  
- 23. Units to be equipped with an electronic "Child Check-mate" system, armed with warning lights, headlights and horn. Activated with dome lights and one-minute timer. disabled by button at the rear of the bus system. \_\_\_\_\_
  
  
- 24. Equipment to include;
  - 1) 5lb Fire extinguisher \_\_\_\_\_
  - 2) Metal First aid kit with State required sealed packages \_\_\_\_\_
  - 3) Triangle reflector kit \_\_\_\_\_
  - 4) Body Fluids kit \_\_\_\_\_

**(D) ACCESSORIES...Continued**

25. Interior 6 x 30 mirror with backup camera \_\_\_\_\_

**(E) MARKINGS AND LETTERING**

1. School lettering must meet all Federal and State of Illinois requirements. Letters must be 6" high and read **"Huntley Community School District 158"** on both sides. Bus unit numbers to be posted on sides, fronts, and rears of units. Unit numbers are starting with **HP 2015-HP 2025 through number of busses** Vehicle length to be posted inside of vehicle. \_\_\_\_\_

2. Reflectorized school bus signs front and rear. Reflectorized 2" tape stripe down both sides and box around rear of unit. Reflectorized box around all emergency exits. All reflective tape to be 3M reflective tape. \_\_\_\_\_

3. Delivery of vehicles will be made to the DISTRICT TRANSPORTATION GARAGE located at 650 Dr. John Burkey Drive Algonquin Il. 60102 Vehicles must be State inspected and ready for use. \_\_\_\_\_

4. "To comment on my driving" sticker shall be located on the Left rear corner of the Rear window. \_\_\_\_\_

**(F) OPTIONAL SPECIFICATIONS**

**BIDDERS COMPLIANCE**

1. Bidder will indicate standard warranty period. \_\_\_\_\_

2. Bidder will describe available extended warranty options and state cost for same. \_\_\_\_\_