SPECIFICATIONS
McLaurin Elementary School

1. **Scope:**

   This specification is intended to provide for a complete heating, ventilating, and air conditioning system. The systems installed and all work performed shall be in accordance with ASHRAE and SMACNA standards, and shall comply with all OSHA, Federal and local regulations.

2. **Guarantee:**

   The Contractor warrants and guarantees for a period of one year from the date of substantial completion that the completed systems are free from all defects due to faulty materials or workmanship, and the Contractor shall promptly make such corrections as may be necessary by reason of such defects including repairs of any damage to other parts of the system resulting from such defects. The Owner will give notice of observed defects with reasonable promptness. In the event that the Contractor shall fail to make such repairs, adjustments, or work that may be made necessary by such defects, the Owner may do so and charge the Contractor the costs thereby incurred. Manufacturer shall provide a five-year compressor warranty.

3. **Supervision of Work:**

   Work of this section shall have a competent superintendent in charge of work at all times, having suitable qualifications and experience in the type of work performed under this contract.

4. **Permits and Fees:**

   Obtain all necessary permits and inspection required for work, and pay all charges incidental thereto. Deliver to Owner all certificates of inspection issued by authorities having jurisdiction.
**Materials:**

Materials and equipment are specified herein to indicate quality, material, and type of construction desired. It shall be the Contractor’s responsibility to ascertain that the manufacturer’s products meet detailed specifications, and that size and arrangement of equipment is suitable for installation. When delivered to the job site, Contractor shall receive, properly handle, house, and protect all material and equipment required under this contract from weather, insect, and rodent damage. Material that is damaged or becomes defective due to failure to follow this provision shall be replaced promptly and at no additional expense to the Owner.

**Protection of Existing Conditions:**

Existing conditions and systems damaged by the Contractor that are to remain in service shall be repaired and brought to original condition by the Contractor, and at no additional expense to the Owner.

**Ordinances and Regulations:**

Conform work to all local and State ordinances and regulations. If work laid out, indicated or specified, is contrary or conflicts with ordinances, regulations or codes, report same to Owner before submitting bid. Contractor will then be issued instructions as to procedure. If Contractor fails to notify Owner of any conflicts or omissions, changes required to comply with ordinances, regulations, or codes shall be included in the bid submitted, and the Contractor shall bear any additional cost to bring the system into compliance.

5. **Heat Pump Schedule:**

Rooms 300a, 301a, & 301b:
A 3-ton Trane 4WCY4036B3000A, or a Carrier 50VT-C36-5 R-410A, 14 SEER package heat pump with 7.5/10.0 kW strip heat at 208-230/3/60 volts, 0-25% manual fresh air damper, Single Power Entry Kit, and Curb Adapter.

Rooms 300b, & 300c:
A 2 ½ -ton Trane 4WCC4030A1000A, or a Carrier 50VT-C30-3TP, R-410A, 14 SEER package heat pump with 6.0/8.0 kW strip heat, at 208-230/1/60 volts, 0-25% manual fresh air damper, Single Power Entry Kit and Curb Adapter.

Units shall be ARI certified as manufactured by Trane, or Carrier. A minimum SEER rating of 14 shall be required. Voltage to match existing service. The units shall be balanced to provide 375 CF of outside air.
6. **Ductwork:**

Duct shall be galvanized sheet metal fabricated and installed in accordance with ASHREA and SMACNA standards for low-pressure duct. All rectangular duct to have ½” duct liner for acoustical purposes. Secure to duct with full coat of adhesive and metal stick clips in accordance with manufacturer’s recommendations.

7. **Controls:**

Thermostat wiring to units by Contractor. Thermostats shall be the auto-changeover type Honeywell Pro 5000 or equal.

8. **Electrical:**

Power wiring to units by Contractor.

9. **Roofing:**

All roofing work required shall be included in this contract by a certified roofing contractor normally engaged in this type work.