

May 20, 2022

ADDENDUM NUMBER THREE (3)

Project: SCSD ESSER Package 3  
Smith County School District  
PN: 21094

FROM: Dean Architecture, P.A..  
661 Sunnybrook Road, Suite 140  
Ridgeland, MS 39157  
(601) 939-7717

The following additions, changes, clarifications and/or substitutions to the Project Drawings as indicated, are hereby made a part of the Contract Documents. Acknowledge receipt of this Addendum by inserting its number and date in the Proposal Form where indicated.

Mechanical

SEE ATTACHED MECHANICAL ITEMS PROVIDED BY HESMA

END OF ADDENDUM NUMBER THREE (3)

Dean Architecture

  
Kenneth A. Oubre, AIA, Principal



PLEASE ATTACH THIS ADDENDUM TO THE INSIDE FRONT COVER OF EACH SET OF SPECIFICATIONS.

## **SECTION 23 09 02**

### **INSTRUMENTATION AND CONTROL FOR HVAC**

#### **PART 1 - GENERAL**

##### **1.01 DESCRIPTION:**

- A. All work specified in this Section is subject to the provisions of Division 26.
- B. Each system shall be controlled by individual thermostats with separate heating and cooling set-points, fan "on-off-auto" switch, and system "heat-off-cool" switches. Thermostat locations shall be as shown on drawings.
- C. Remote position indicators for the electric controllers shall be located adjacent to the controllers and controlled devices.
- D. High limit thermostats shall be provided in intake of all exhaust fans and in discharge air of all supply fans except where smoke detectors are provided, or where fan functions as part of smoke removal system.
- E. Smoke detectors shall be provided under Division 23 and installed by Division 23 in the supply and return air path (s) at each furnace or air handling unit prior to mixing with outside air. Detectors shall be ionization duct-mounted type. All necessary interlocks, relays, contactors, etc., with the smoke detection system and mechanical equipment, shall be provided under Division 23. Wiring for unit shut-down or interlock with smoke removal system shall be provided under Division 23. Provide normally open contacts at each smoke detector for interlock with building fire alarm system.

#### **PART 2 - PRODUCTS**

##### **2.01 MATERIALS AND COMPONENTS:**

- A. All electrical components of the control systems shall conform to the requirements of Division 26.
- B. The automatic temperature control system shall consist of a Commercial Programmable Thermostat. This thermostat shall be equal to the Honeywell T7350 models. The T7350 Commercial Programmable Thermostat controls consist of thermostat and subbase. The thermostat includes a keypad, equipment control connections and display for 7-day programming. The subbase is mounted to the wall and the thermostat is mounted to the subbase.
- C. Features include the following:
  - 1. Two "Occupied" and two "Unoccupied" periods per day,
  - 2. Individual heat and cool set points for both periods,
  - 3. Automatic temperature changeover,
  - 4. Keypad multi-level lockouts available,
  - 5. Remote sensor capability for outdoor air and discharge air temperatures and humidity sensors,

6. Automatic Daylight Saving Time adjustments,
7. Remote changes to the T7350 occupancy override, schedule, fan operation "On, Auto" system mode "Off, Auto", heat, cool and room temperature setpoints via workstation.

## **PART 3 - EXECUTION**

### **3.01 SEQUENCE OF OPERATION:**

- A. The automatic temperature controls shall be installed in complete conformance with the manufacturer's recommendations and the Contract Documents.
- B. The Automatic Temperature Control systems shall be installed to provide a completely functional and fully coordinated system of control.
- C. Systems shall have an automatic heating/cooling changeover programmable thermostat with single stage cooling and with stages to match heating capability.
- D. The programmable thermostat shall automatically sequence heating/cooling functions to maintain set points for occupied and unoccupied period. The thermostat shall be time clock based with minimum 48-hour reserve battery backup, to allow separate 7-day, 24-hours per day scheduling to match Owner's use of the facility. The thermostat installation shall include an integral manual override switch which allows Owner's personnel to override thermostat control during normally unoccupied period for special "after hour" limited use of the facility, as Honeywell Model T7350.
- E. Ionization smoke detectors, mounted in supply and return ductwork/plenums, shall automatically de-energize system controls upon detection of combustion. Provide manual reset capability and interlock with fire alarm system.
- F. Provide full controls submittal with information on all controllers, relays, timers, interlocks, etc. Submit control schematic and wiring diagram and control sequence for approval.

### **END OF SECTION**