

GENERAL

1.01 SCOPE:

- A. Non-RMCS controlled devices: On HVAC devices not controlled by the RMCS, provide as necessary: control power, power wiring, valves, actuators, conduit, wiring, circuit boards, thermostats, labor, etc, for a complete and operation system.
- B. RMCS controlled devices: On HVAC devices controlled by the RMCS, provide all: control power supply, [**valves, boiler reset controls,**] power wiring, actuators, conduit, wiring, HVAC interface boards, etc, as necessary to connect to RMCS dry control contacts as shown on Design Standard Plates 23 09 16-42 through 46. Make final connection to RMCS dry contacts. Section 23 09 16 shall provide all temperature sensing probes and condition monitor wiring and conduit. Section 23 90 00 shall provide heat reclaim valves.

1.02 Related Sections: 23 05 00, 23 09 16.

PRODUCTS

2.01 HVAC control parameters

- A. All equipment not controlled by the RMCS shall have controls as described herein. These controls shall be specified in Section 23 09 13 or specified with the equipment with installation and wiring specified in this Section.
- B. DX cooling: On air handlers with more than 6 tons DX cooling capacity, provide control of two stages of cooling and banked evaporator.
- C. Chilled water cooling: On air handlers with more than 6 tons Chilled water cooling capacity, provide control of two control valves in parallel.
- D. Heat Reclaim: Heat reclaim valves shall be provided by 23 90 00 contractor.
- E. Staging and Receiving heaters: Shall be controlled by the RMCS.
- F. Control parameters
 - 1. Do not provide pneumatic controls.
 - 2. Do not use DDC controls.
 - 3. Use only two position, on-off, controls. Do not use modulating or proportional except in the case of boiler or cooling tower/evaporative cooler bypass valves.
 - 4. Do not use economizer cycles.
 - 5. Do not use variable volume controls.

EXECUTION

- 3.01 Carefully coordinate the specification of this Section with Section 23 09 16.
- 3.02 Require a conference between the HVAC and RMCS subcontractors to coordinate the interface of their work.
- 3.03 See the guide specification Section 23 09 16 for specific items to be controlled by the RMCS. All other equipment shall be controlled by this section.

END OF SECTION