

NOTES:

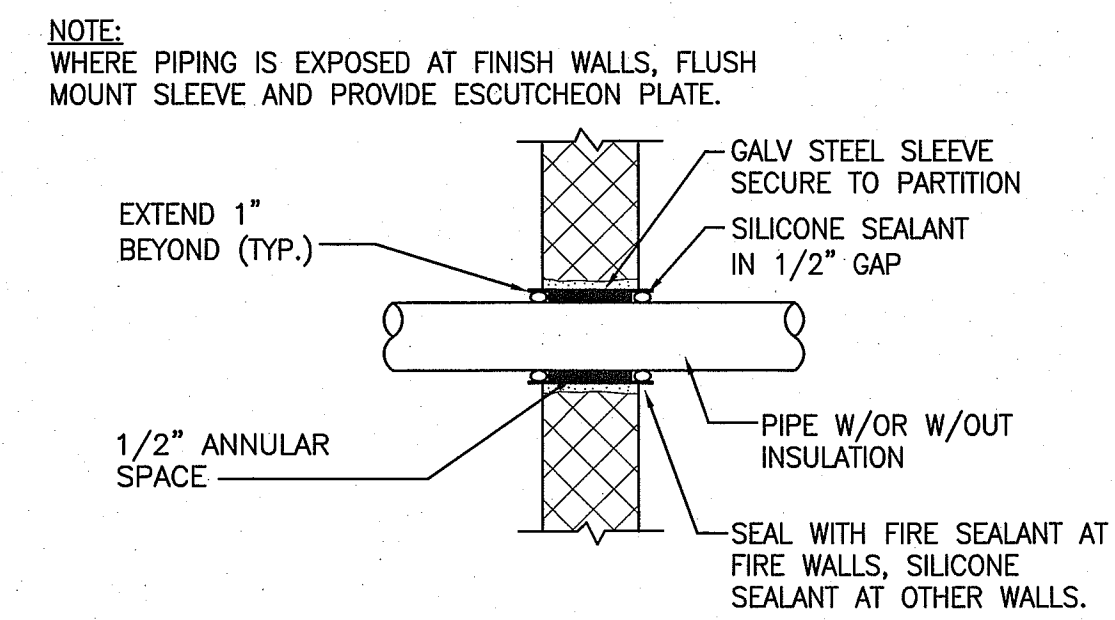
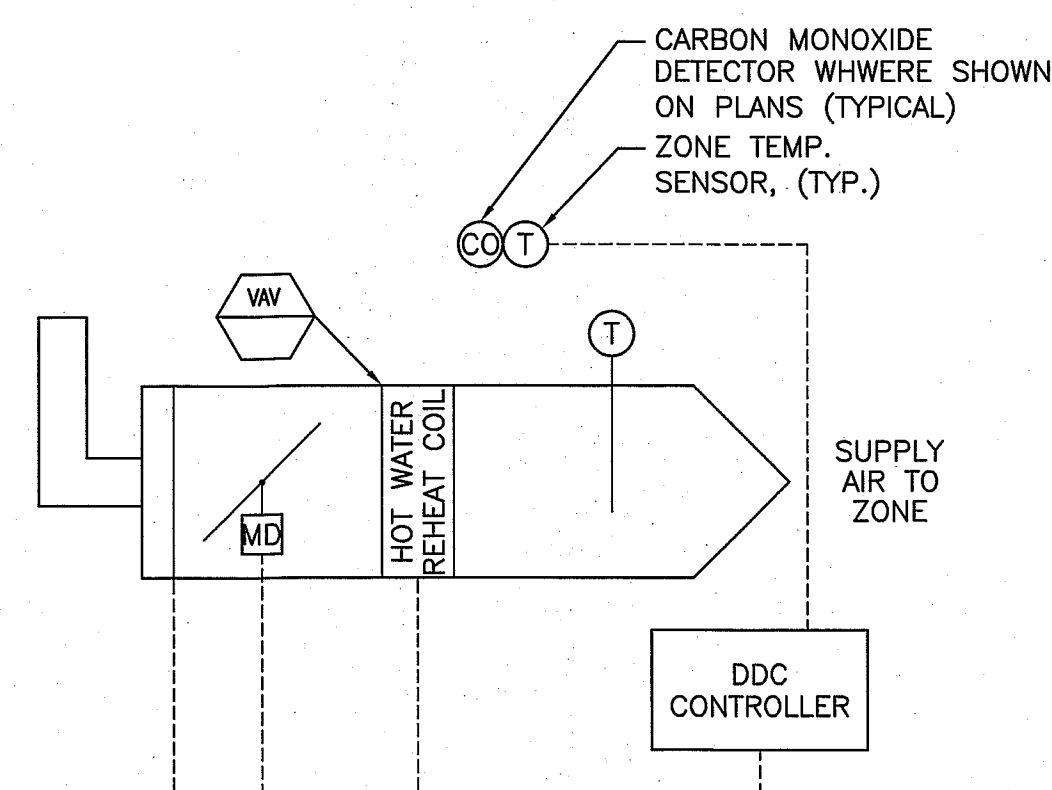
1. SEE SHEET M-001 FOR LEGEND AND ABBREVIATIONS.

SEQUENCE OF OPERATION-NETWORK EQUIPMENT ROOMS

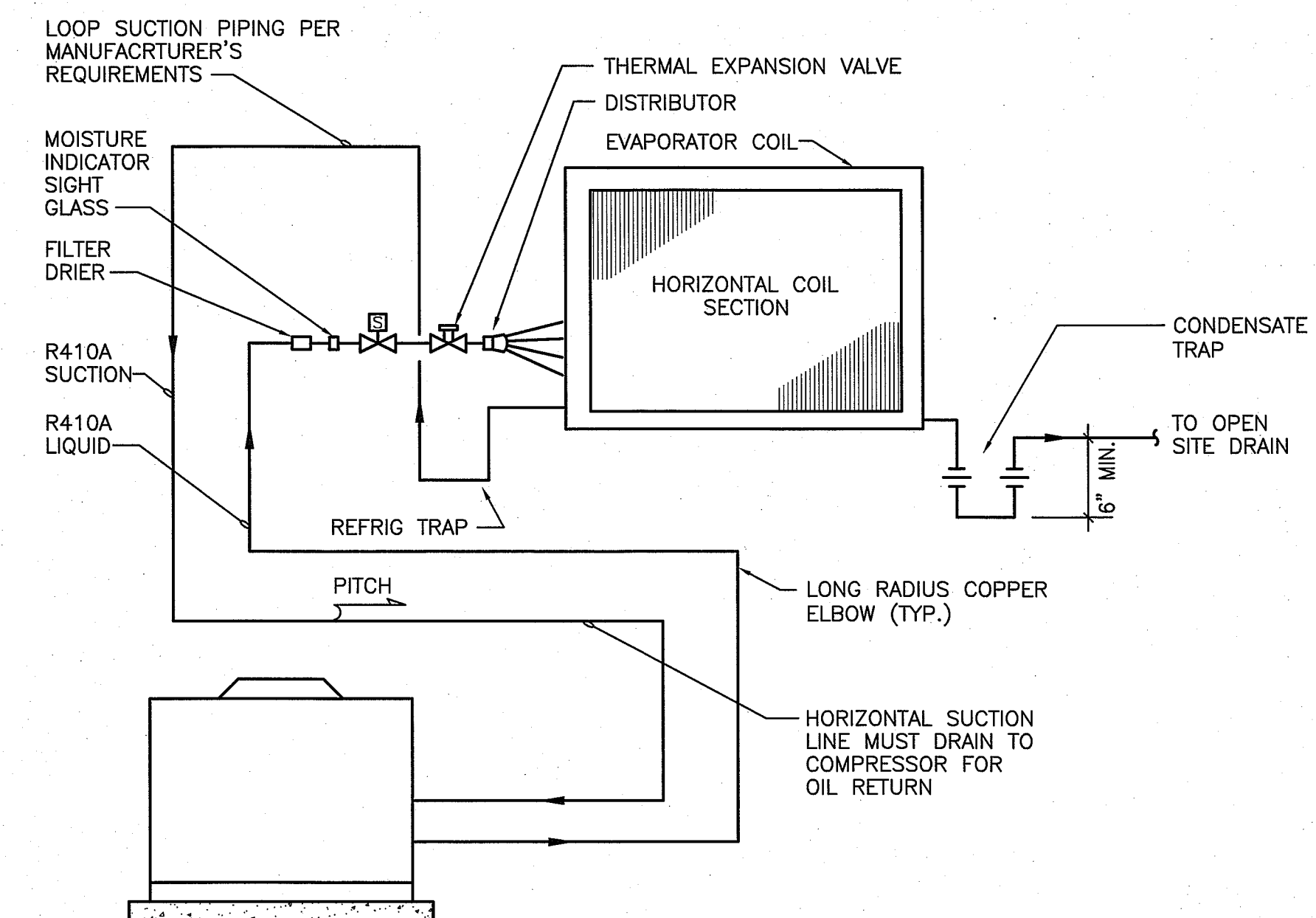
1. AIR CONDITIONING UNITS AC-1 AND AC-2 SHALL OPERATE ACCORDING TO THEIR MICROPROCESSOR-BASED STAND-ALONE CONTROLS. CONTROL CONTRACTOR SHALL PROVIDE ALL HARDWARE, CONTROL WIRING, AND PROGRAMMING AS REQUIRED TO MEET THE INTENT OF THE SPECIFICATIONS. COORDINATE WITH AC UNIT MANUFACTURER.
2. THE DDC SYSTEM SHALL MONITOR THE ROOM TEMPERATURE AND SHALL GENERATE AN ALARM CONDITION WHENEVER THE ROOM EXCEEDS 85°F.
3. THE OWNER (BANK OF AMERICA) SHALL BE DIRECTLY NOTIFIED OF ANY ALARM CONDITION IN THE NER ROOM OR WITH THE ASSOCIATED COOLING EQUIPMENT.

SEQUENCE OF OPERATION-TYPICAL FOR ALL VAV'S

- A. MODULATE THE VAV DAMPER TO MAINTAIN THE ZONE TEMPERATURE AT SETPOINT. ON A RISE OF TEMPERATURE ABOVE THE COOLING SET POINT, 75°F, THE VAV TERMINAL UNIT DAMPER SHALL MODULATE OPEN. AS THE TEMPERATURE DROPS BELOW THE COOLING SET POINT, THE VAV SHALL MODULATE TOWARDS THE MINIMUM CFM POSITION. IF THE SPACE TEMPERATURE FALLS BELOW THE HEATING SETPOINT TEMPERATURE, 70°F, THE VAV WILL OPERATE IN SEQUENCE WITH THE RADIANT PANEL SYSTEM. IF THE RADIANT PANEL SYSTEM IS RUNNING AND THE SPACE TEMPERATURE IS BELOW THE SETPOINT THE HOT WATER VALVE SHALL MODULATE TO MAINTAIN THE SPACE HEATING TEMPERATURE.
- B. PROVIDE NIGHT SETBACK AND MORNING WARM-UP AS REQUIRED BY THE ASSOCIATED SYSTEM.
- C. CONFERENCE ROOM VAV CONTROL: SEQUENCE FOR HEATING, COOLING AND SETBACK SHALL BE AS DESCRIBED ABOVE. HOWEVER, UPON AN INCREASE OF CO2, THE VARIABLE AIR VOLUME DAMPER SHALL MODULATE OPEN TO ITS MAXIMUM CFM TO MAINTAIN CO2 BELOW 1000 PPM. IF THE CO2 CONTINUES TO INCREASE ABOVE 1000 PPM, THEN THE OUTSIDE AIR DAMPER AT THE AIR HANDLER SHALL MODULE OPEN TO PROVIDE MORE OUTSIDE AIR.
- D. MONITOR THE VAV BOX DISCHARGE AIR TEMPERATURE.
- E. THE ZONE OCCUPIED/UNOCCUPIED STATUS SHALL BE SCHEDULED AND OVER RIDDEN THROUGH THE USER WORKSTATION.
- F. THE FOLLOWING POINTS SHALL BE AVAILABLE FOR MONITORING AT THE USER WORKSTATION.
 1. ZONE TEMPERATURE
 2. VAV DISCHARGE AIR TEMPERATURE
 3. DAMPER PERCENT OPEN POSITION
 4. CONTROL VALVE PERCENT OPEN POSITION



2 EXTERIOR PIPING PENETRATION DETAIL
NOT TO SCALE



1 SPLIT SYSTEM PIPING SCHEMATIC
NOT TO SCALE

REVISIONS

BANK OF AMERICA - 9TH & 10TH FLOORS

BANK OF AMERICA
1 MONUMENT SQUARE
Portland, ME

TITLE
MECHANICAL DETAILS AND SEQUENCE
OF OPERATIONS

DATE **JOB NO.**
May 11, 2015 15051.00

DRAWING NO. **M-502**

ISSUED FOR CONSTRUCTION