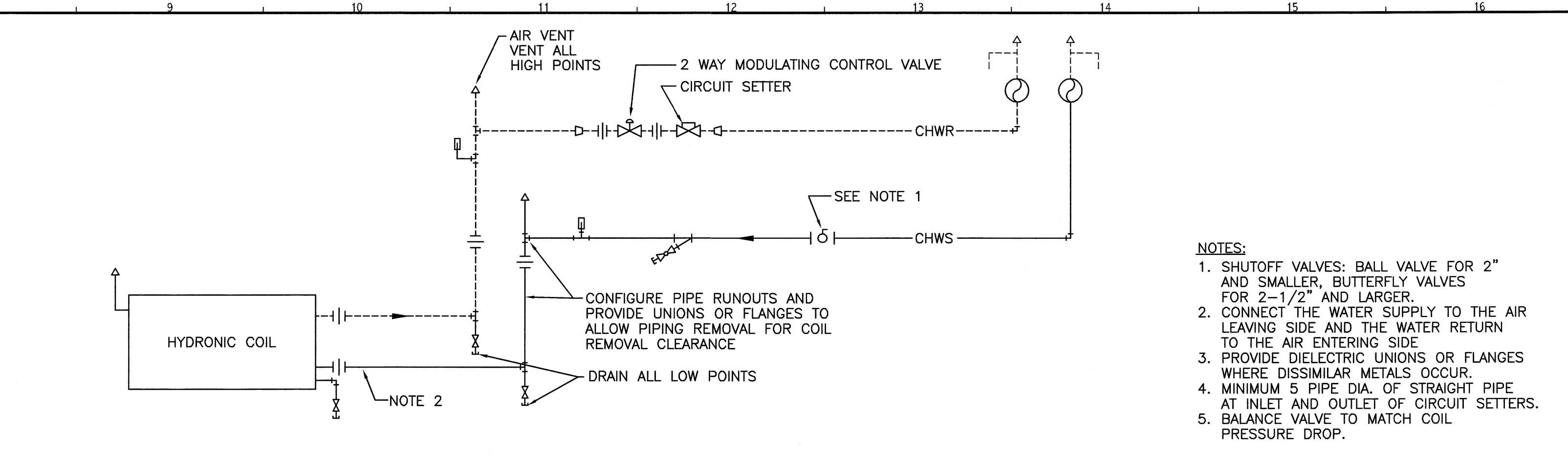
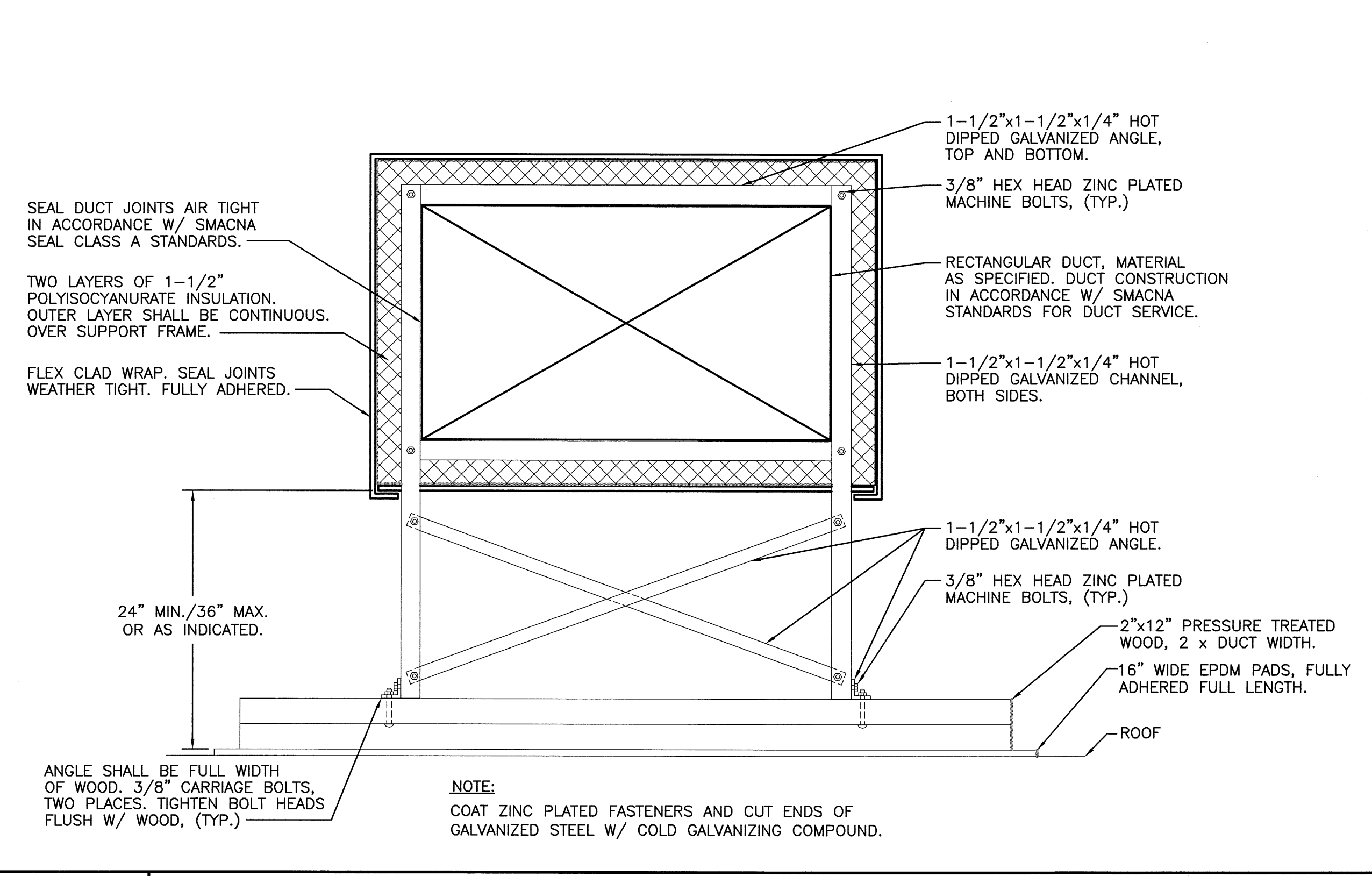


**K4 BLOWER COIL INSTALLATION**  
NOT TO SCALE

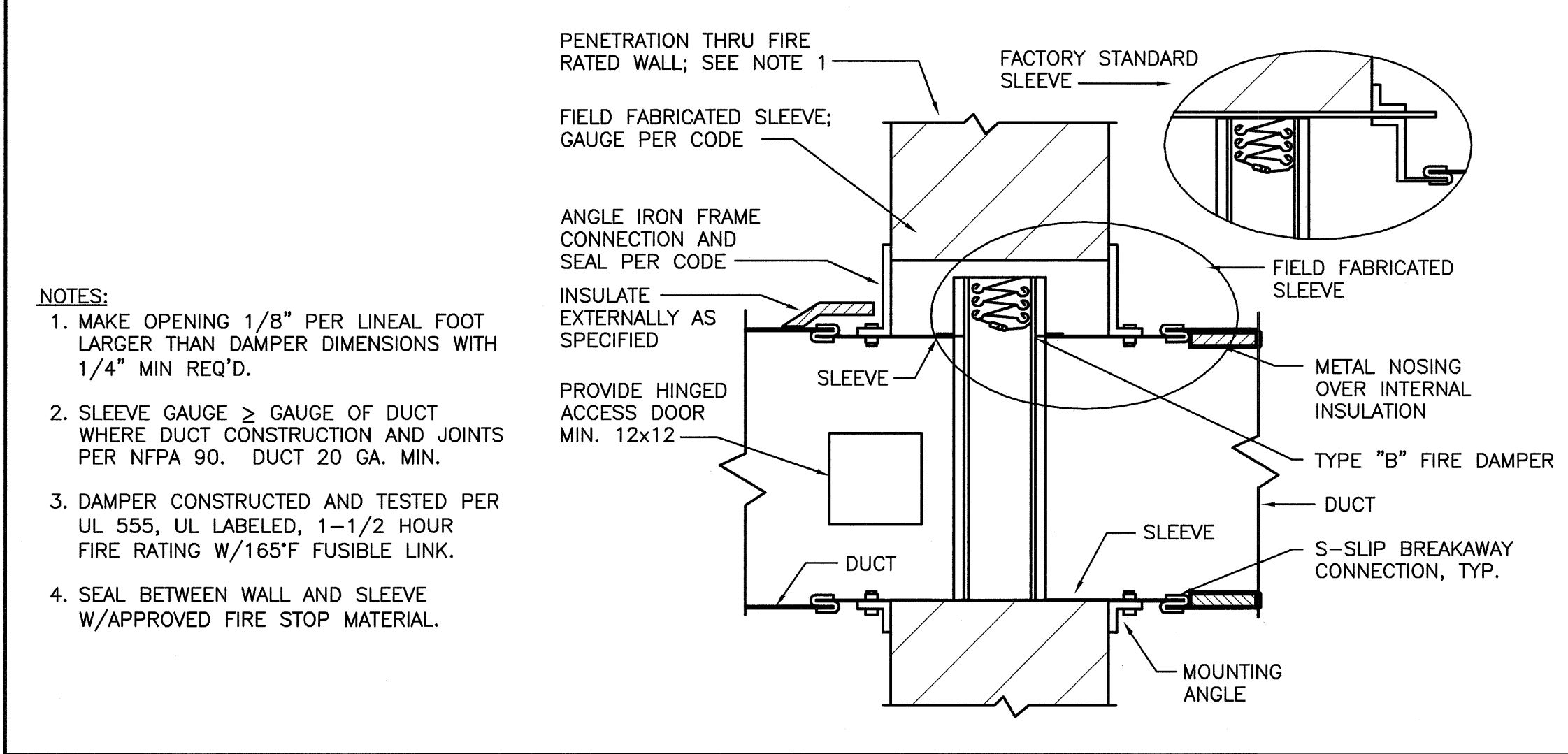


**K8 CHILLED WATER PIPING DETAIL, TWO-WAY VALVE**  
NOT TO SCALE TYPICAL AT BC-1 AND AHU-13.

- NOTES:**
1. SHUTOFF VALVES: BALL VALVE FOR 2" AND SMALLER, BUTTERFLY VALVES FOR 2-1/2" AND LARGER.
  2. CONNECT THE WATER SUPPLY TO THE AIR LEAVING SIDE AND THE WATER RETURN TO THE AIR ENTERING SIDE.
  3. PROVIDE DIELECTRIC UNIONS OR FLANGES WHERE DISSIMILAR METALS OCCUR.
  4. MINIMUM 5 PIPE DIA. OF STRAIGHT PIPE AT INLET AND OUTLET OF CIRCUIT SETTERS.
  5. BALANCE VALVE TO MATCH COIL PRESSURE DROP.

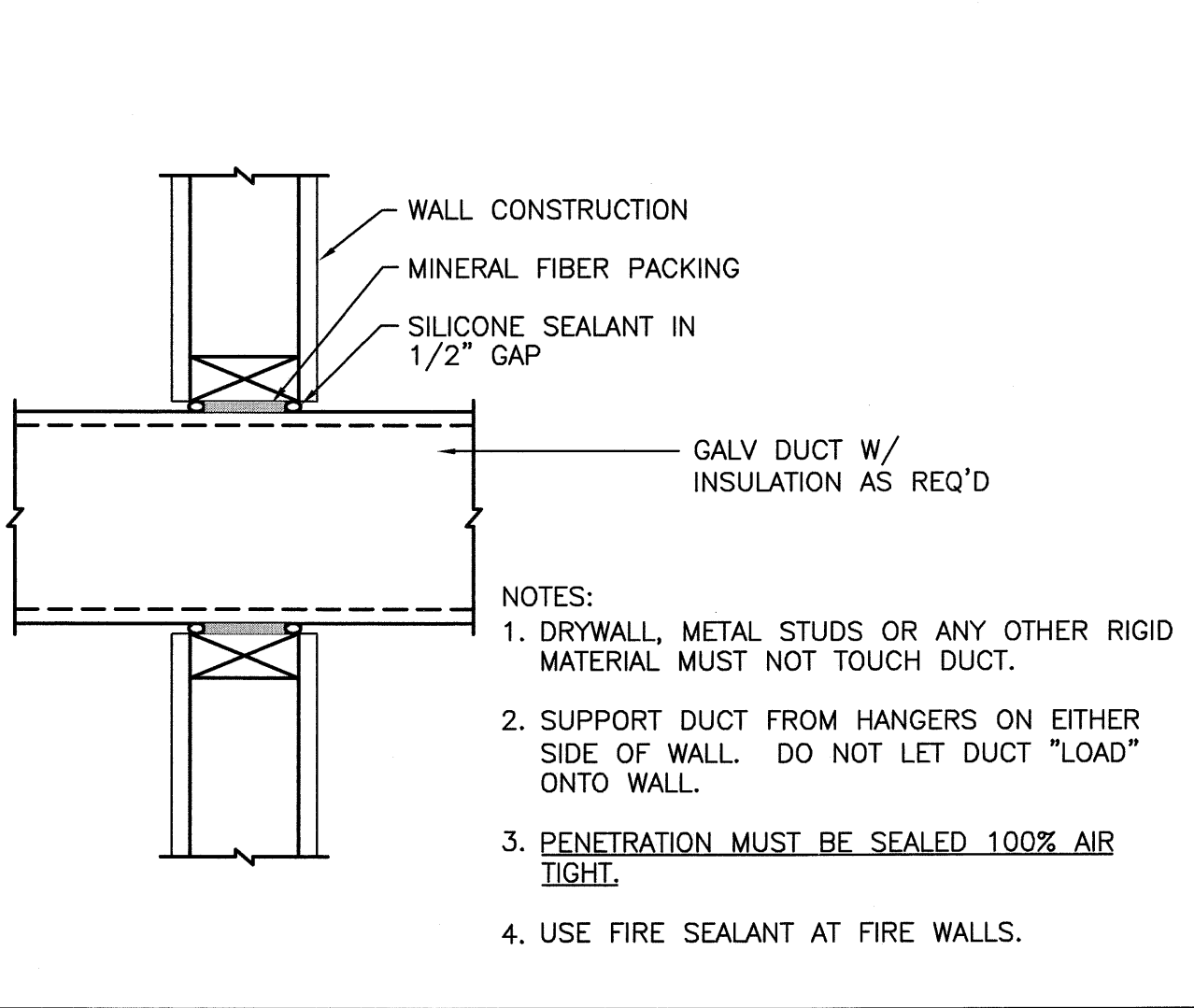


**E1 INSULATED RECTANGULAR DUCT ON ROOF DETAIL**  
NOT TO SCALE



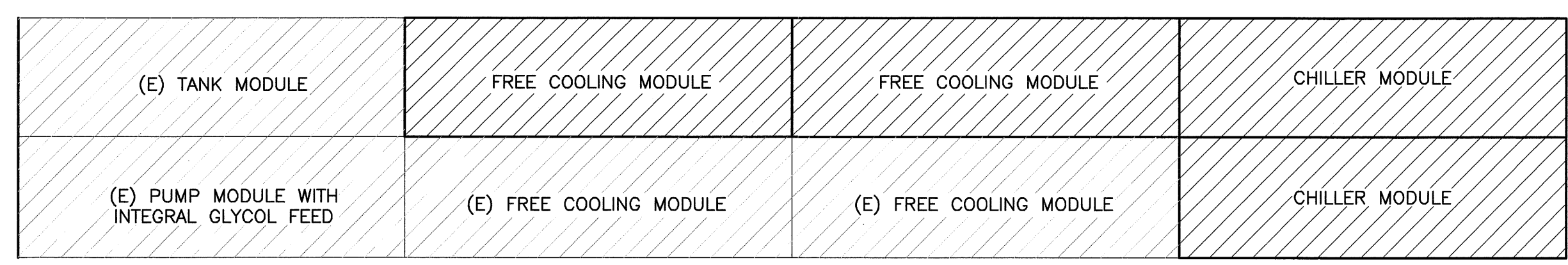
**G7 FIRE DAMPER DETAIL**  
NOT TO SCALE

- NOTES:**
1. MAKE OPENING 1/8" PER LINEAL FOOT LARGER THAN DAMPER DIMENSIONS WITH 1/4" MIN REQ'D.
  2. SLEEVE GAUGE ≥ GAUGE OF DUCT WHERE DUCT CONSTRUCTION AND JOINTS PER NFPA 90. DUCT 20 GA. MIN.
  3. DAMPER CONSTRUCTED AND TESTED PER UL 555, UL LABELED, 1-1/2 HOUR FIRE RATING W/165°F FUSIBLE LINK.
  4. SEAL BETWEEN WALL AND SLEEVE W/APPROVED FIRE STOP MATERIAL.



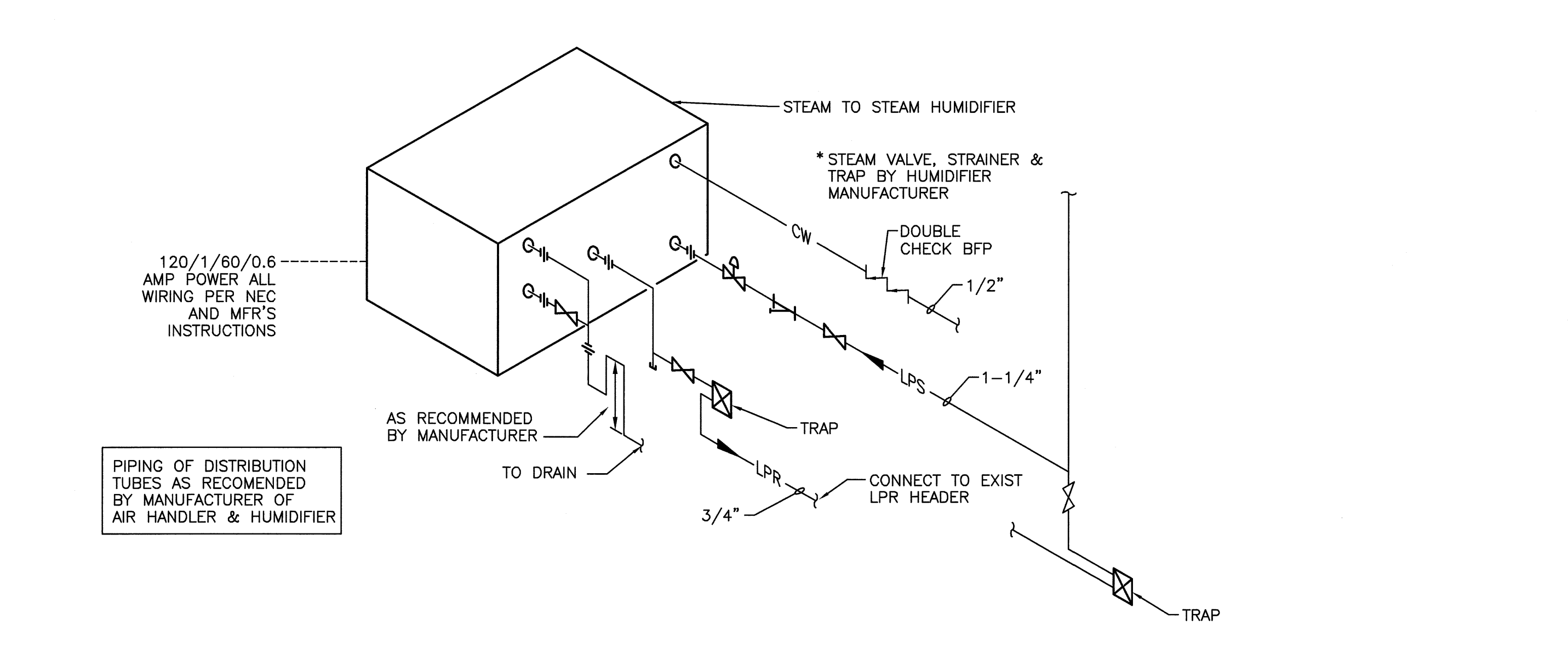
**G13 METAL DUCT WALL PENETRATION**  
NOT TO SCALE

- NOTES:**
1. DRYWALL, METAL STUDS OR ANY OTHER RIGID MATERIAL MUST NOT TOUCH DUCT.
  2. SUPPORT DUCT FROM HANGERS ON EITHER SIDE OF WALL. DO NOT LET DUCT "LOAD" ONTO WALL.
  3. PENETRATION MUST BE SEALED 100% AIR TIGHT.
  4. USE FIRE SEALANT AT FIRE WALLS.

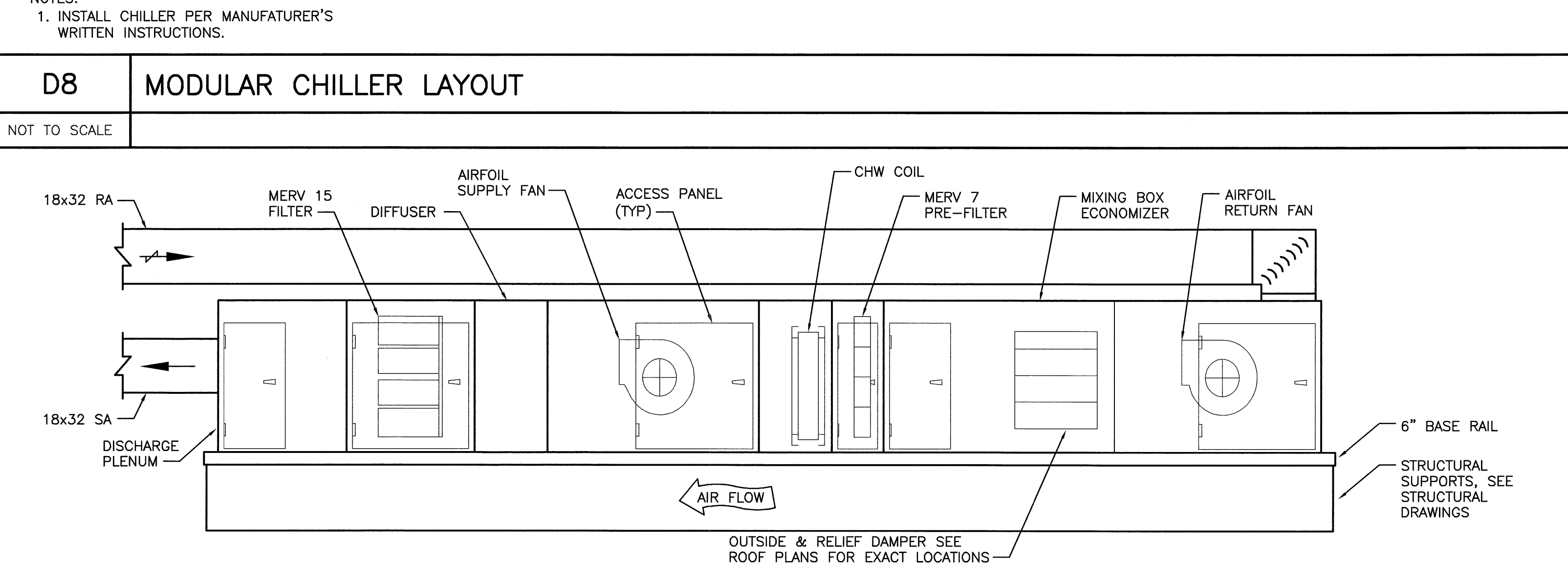


**D8 MODULAR CHILLER LAYOUT**  
NOT TO SCALE

- NOTES:**
1. INSTALL CHILLER PER MANUFACTURER'S WRITTEN INSTRUCTIONS.



**A1 STEAM TO STEAM HUMIDIFIER**  
NOT TO SCALE



**A8 AHU-89 ELEVATION**  
NOT TO SCALE

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PORTLAND, ME

ISSUED FOR CONSTRUCTION 3-30-09

NO.	ISSUED FOR CONSTRUCTION	DATE
0	REV	

GRAPHIC SCALE:  
0' 1'

SCALE: NOT TO SCALE

PROJECT MANAGER: KD

IC/DRAWN BY: BAL

A/E OF RECORD: PMW

CAD FILE: M-502-09009

PROJECT NO.: 09009

DATE: 3-30-09

SHEET TITLE: DETAILS

SHEET No. M-502