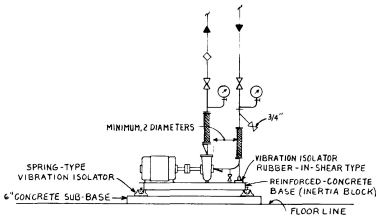
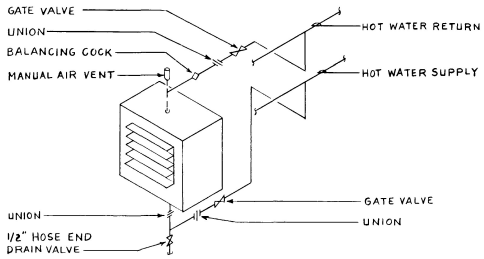
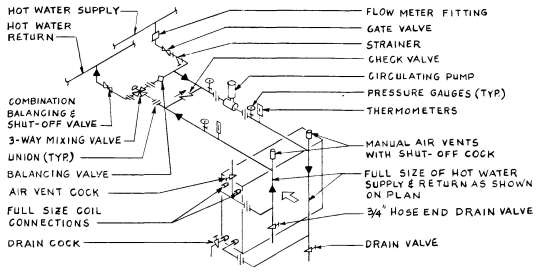


PUMP PIPING DETAIL
SCALE: NONE



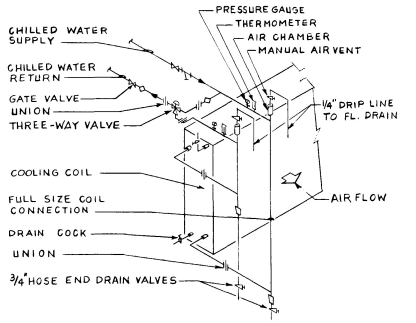
HOT WATER UNIT HEATER PIPING DETAIL
SCALE: NONE



HOT WATER HEATING COIL PIPING DETAIL
SCALE: NONE

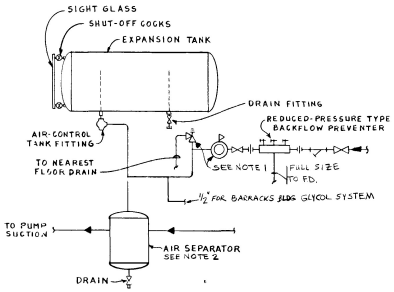
NOTES: 1. APPLICABLE TO AHU-B-1 & B-2 DUAL TEMP COIL AND MAU-B-1 & B-2. LINE WITH CHECK VALVE FOR OTHER COILS. DELETE PUMP AND BY-PASS

2. THE MAXIMUM PRESSURE DROP FOR EACH CONTROL VALVE SHALL NOT EXCEED 5' OF WATER.



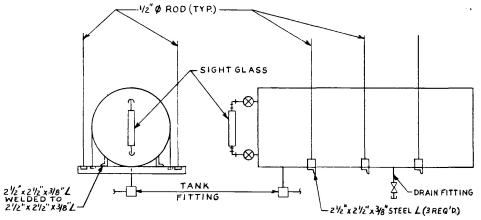
COOLING COIL PIPING DETAIL
SCALE: NONE

NOTE: THE MAXIMUM PRESSURE DROP FOR EACH CONTROL VALVE SHALL NOT EXCEED 10' OF WATER.

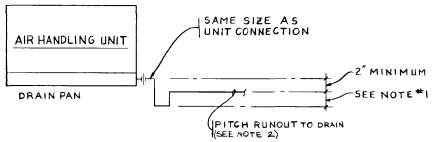


COLD-WATER MAKEUP AND AIR-CONTROL PIPING - HOT WATER SYSTEM
NOT TO SCALE

NOTES:
1. PRESSURE REDUCING AND RELIEF VALVE SETTINGS ARE INDICATED IN SPECIFICATION SECTION: HEATING SYSTEM, FORCED HOT WATER, MEDIUM TEMPERATURE WATER HEAT EXCHANGER.
2. AIR SEPARATOR SIZE TO BE BASED ON FLOW (GPM) OF CORRESPONDING PUMP.



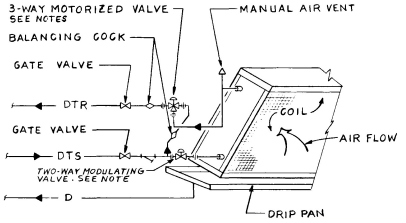
EXPANSION TANKS
NOT TO SCALE



CONDENSATE DRAIN TRAP DETAIL
NO SCALE

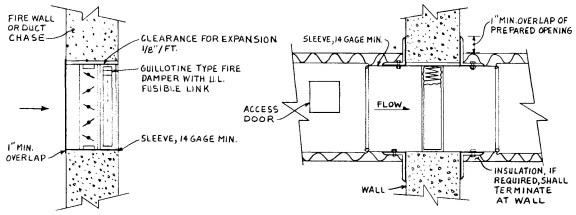
NOTES: 1. TRAP FOR WATER SEAL, THE LENGTH OF WATER SEAL SHALL BE SAME AS PRESSURE ON THE DRAIN WATER OR NOT LESS THAN 2 INCHES.

2. SEE PLUMBING DRAWINGS FOR LOCATION OF FLOOR DRAIN OR OPEN SITE DRAIN.



TYPICAL F.C.U. PIPING CONN. DETAIL
SCALE: NONE

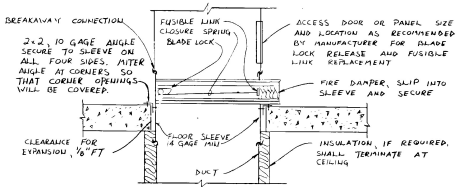
NOTES: 1. SEE FAN COIL RISER FOR WHICH UNITS HAVE TWO OR THREE WAY VALVES.
2. THE MAXIMUM PRESSURE DROP FOR EACH CONTROL VALVE SHALL NOT EXCEED 5' OF WATER.



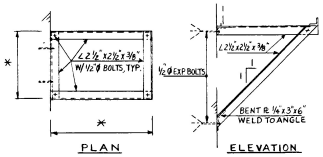
FIRE DAMPER AT TRANSFER REGISTER

FIRE DAMPER AT WALL

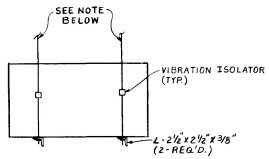
FIRE DAMPER DETAILS
NO SCALE



HORIZONTAL FIRE DAMPER DETAIL
NO SCALE



WALL BRACKET FOR SUPPORTING EXPANSION TANK (TYPICAL)
NO SCALE
* - COORDINATE DIMENSIONS W/EQUIP. MANUFACTURER.



RF- SUPPORT FRAMING (TYPICAL)
NOT TO SCALE

NOTE: 4 - 1/2"ø RODS REQ'D. HANGER RODS SHALL BE ATTACHED TO JOIST BOTTOM CHORDS AT PANEL POINTS ONLY.

GENERAL NOTE:

HANGER LOADS FROM THE BOTTOM CHORD OF STEEL JOISTS SHALL NOT EXCEED 50 POUNDS. HANGER LOADS IN EXCESS OF 50 POUNDS SHALL BE HUNG FROM THE TOP CORD OR IF FROM THE BOTTOM CHORD DIRECTLY AT PANEL POINTS.

REV	DATE	DESCRIPTION	BY
	MAY 90	AS BUILT	

US Army Corps of Engineers

U.S. ARMY ENGINEER DISTRICT, BALTIMORE
CORPS OF ENGINEERS
BALTIMORE, MARYLAND

ABERDEEN PROVING GROUND MARYLAND

ENLISTED BARRACKS PHASE IV

DETAILS

DRAWING NUMBER	PLATE
F-721-90-12	130

SCALE: AS SHOWN | DATE: 5 FEB 1987 | SHEET M-14

41635