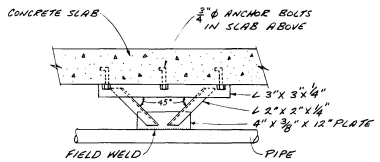
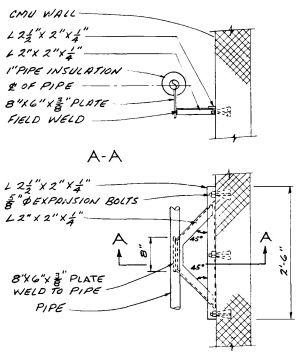


ANCHOR TO CONCRETE SLAB DETAIL

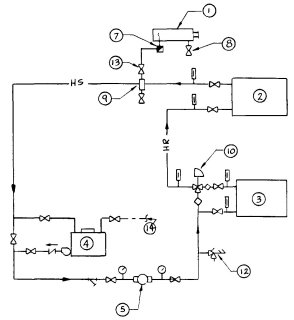
NOT TO SCALE



PLAN

ANCHOR TO CMU WALL DETAIL

NOT TO SCALE

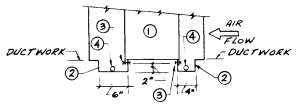


HEAT RECOVERY SYSTEM FLOW DIAGRAM

NOT TO SCALE

HEAT RECOVERY SYSTEM NOTES

1. 15 GALLON COMPRESSION TANK W/SIGHTGLASS (ET-B-2) IN ATTIC.
2. HEAT RECOVERY COIL # HRC-B IN DISCHARGE OF EXHAUST FAN # F-B-5
3. HEAT RECOVERY COIL # HRC-B IN AHU-B
4. 10 GALLON GLYCOL SOLUTION CHARGING TANK WITH HAND PUMP
5. IN-LINE PUMP P-B-5
6. PROVIDE MANUAL AIR VENTS IN DISCHARGE PIPING OF EACH HEAT RECOVERY COIL
7. AIR CONTROL TANK FITTING WITH DIP TUBE
8. COMBINATION DRAIN AND CHARGING VALVE, 125 PSIG WORKING PRESSURE
9. AIR SEPARATOR UNIT
10. V-1 SHALL BE A 3-WAY VALVE, N.O. TO HRC FLOW. MIN. CV SHALL BE 10.0
11. CHARGE THE SYSTEM TO 12 PSIG ON FILL (AT THE COMPRESSION TANK)
12. 100 LBS/HOUR AT 100 PSIG. EXTEND PIPING TO NEAREST FLOOR DRAIN OR OPEN SIGHT DRAIN IN THE MECH. EQUIP. RM. PIPING SHALL BE THE SAME SIZE AS THE VALVE PROVIDED.
13. RISING STEM VALVE
14. COLD WATER SUPPLY FROM OUTLET SIDE OF BACKFLOW PREVENTER.

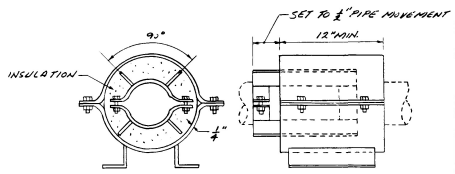


HEAT RECOVERY EXHAUST COIL DETAIL

NOT TO SCALE

HEAT RECOVERY EXHAUST COIL NOTES

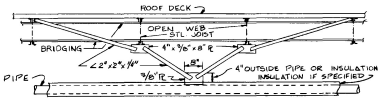
1. HRC-B-1 EXHAUST COIL
2. SHEET METAL DRAIN PAN FULL LENGTH OF COIL. ALL SEAMS AND JOINTS IN PAN CONSTRUCTION SHALL BE SOLDERED WATERTIGHT.
3. BOLT DRAIN PAN TO COIL CASING FLANGE. SEAL JOINT WITH DUCT SEALANT
4. 3/4" DRAIN THREADED CONNECTIONS. SILVER BRAZE FITTING TO DRAIN PAN. CONNECT TWO 1/4" DRAIN PIPING BRANCHES & EXTEND ONE 3/4" DRAIN PIPE FROM EACH COIL AS INDICATED. PROVIDE A 1 INCH DEEP TRAP SEAL.



NOTE: USE SIMILAR GUIDE FOR DOMESTIC HOT WATER

PIPE GUIDE SUPPORT DETAIL

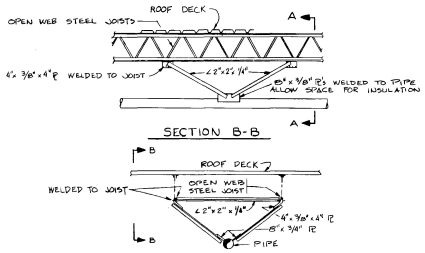
NOT TO SCALE



ANCHOR WITH JOIST PERPENDICULAR TO PIPE RUN

NOT TO SCALE

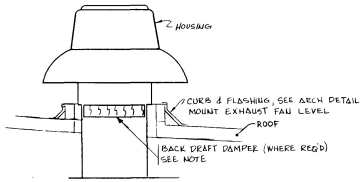
NOTE:
ANCHOR SHOULD BE LOCATED NEAR BRIDGING IF POSSIBLE. WELD ALL CONNECTIONS.



ANCHOR WITH JOISTS PARALLEL TO PIPE RUN

NOT TO SCALE

NOTE:
IF PIPING IS DIRECTLY UNDER JOISTS ONLY TWO STRUTS TO JOIST DIRECTLY ABOVE ARE NEEDED INSTEAD OF FOUR AS SHOWN.



ROOF TOP EXHAUST FAN

NOT TO SCALE

NOTE:
1. IF DUCT IS USED, LOCATE BACK-DRAFT DAMPER IN DUCT

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: F-721-90-12 — PLATE: 131

SCALE: AS SHOWN — DATE: 5 FEB. 1987 — SHEET: M-15

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