## VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE (BATTALION HQ)

| UNIT NO. | TYPE | PEAK CFM | REDUCED CFM | HEATING COIL CFM | HEATING COIL CAPACITY MBH | HEATING COIL ENT. AIR TEMP. °F. DB | HEATING COIL GPM 200°F. ENT. WATER | HEATING COIL MAX. WATER P.D. FT. OF WATER | HEATING COIL MAX. AIR P.D. IN. OF WATER | MAX. AIR P.D. IN. OF WATER TERMINAL UNIT | MAX. NC LEVEL | UNIT SIZE (INLET DUCT DIA. - IN.) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VAV-1 | S.D. | 270 | 135 | — | — | — | — | — | — | .4 | 40 | 5 | 1 OUTLETS |
| VAV-2 | | 810 | 405 | 405 | 4.7 | 60 | .5 | .2 | .2 | | 40 | 8 | 2 |
| VAV-3 | | 440 | 220 | — | — | — | — | — | — | | 40 | 5 | 2 |
| VAV-4 | | 160 | 80 | 80 | 3.3 | 60 | .3 | .2 | .2 | | 35 | 5 | 2 |
| VAV-5 | | 190 | 100 | 100 | 1.5 | 60 | .15 | | | | 35 | 5 | 1 |
| VAV-6 | | 565 | 280 | 280 | 5.8 | | .6 | | | | 35 | 8 | 3 |
| VAV-7 | | 205 | 100 | 100 | 3.5 | | .35 | | | | 35 | 5 | 2 |
| VAV-8 | | 305 | 150 | 150 | 4.7 | | .5 | | | | 35 | 5 | 3 |
| VAV-9 | | 310 | 150 | 150 | 4.9 | | .5 | | | | 35 | 5 | 3 |
| VAV-10 | | 335 | 150 | 150 | 4.7 | | .5 | | | | 35 | 5 | 3 |
| VAV-11 | | 450 | 225 | 225 | 5.1 | 60 | .5 | .2 | .2 | | 30 | 5 | 3 |
| VAV-12 | | 210 | 50 | — | — | — | — | — | — | | 35 | 5 | 3 |
| VAV-13 | | 535 | 270 | 270 | 3.8 | 60 | .4 | .2 | .2 | | 35 | 8 | 3 |

(A) "SD" DENOTES SINGLE DUCT TERMINAL UNIT

(B) MAX. ALLOWED AIR PRESSURE DROP (INCHES WATER GAGE) IS CONDITION FOR PEAK CFM FLOW SCHEDULED.

(C) UNLES OTHERWISE INDICATED MAX. "NC" LEVEL ALLOWED (EITHER DISCHARGE OR RADIATED) SHALL BE BASED ON THE FOLLOWING CONDITIONS

1. 1.50 INCHES W.G. DIFFERENTIAL PRESSURE ACROSS TERMINAL ($\Delta P_s$).
2. PEAK AIR FLOW SCHEDULED
3. 10dB OR RM. ATTENUATION
4. CLG. MATERIAL PROVIDING STC OF 37 TO 41
5. CONSIDERATION MAY BE GIVEN FOR 5 LINEAL FEET OF 1 INCH THICK LINER IN DISCHARGE DUCTWORK FOR UNIT SIZES 5" & 8" (DISCHARGE NC ONLY)
6. AN ALLOWANCE FOR FLOW DIVISION MAY BE CONSIDERED BY THE NUMBER OF OUTLETS SCHEDULED HEREIN THE REMARKS COLUMN.

(D) PROVIDE DUCT TRANSITIONS AS REQUIRED AT EACH TERMINAL UNIT TO SUIT CONNECTION DUCT DIMENSIONS OF THE TERMINAL UNITS PROVIDED.

## EXPANSION TANK SCHEDULE

| UNIT NO. | SERVICE | CAPACITY (GAL.) | DIAMETER (IN.) | LENGTH (IN.) |
|---|---|---|---|---|
| ET-B-1 | BARRACKS - DUAL TEMP. | 74 | 24 | 45 |
| ET-B-2 | BARRACKS - HEAT RECOVERY | 15 | 12 | 33 |
| ET-A-1 | ADMIN. - HOT WATER | 11 | 12 | 26 |
| ET-H-1 | BATTALION HQ - HOT WATER | 8 | 12 | 19 |

## MTW VALVE SCHEDULE

| LOCATION | USE | FLOW GPM APPROX. | ΔP MAX-PSI | SIZE-IN | REMARKS |
|---|---|---|---|---|---|
| BARRACKS | DOMESTIC H.W. | 16.0 | 6 | 1 | BARRACKS Nº 5 |
| BARRACKS | HEATING H.W. | 9.9 | 2 | 1 | BARRACKS Nº 5 |
| BARRACKS | DOMESTIC H.W. | 20.0 | 6 | 1 | BARRACKS Nº 6,7,8 |
| BARRACKS | HEATING H.W. | 10.9 | 2 | 1 | BARRACKS Nº 6,7,8 |
| ADMIN. | HEATING H.W. | 4.8 | 1 | 3/4 | |
| BATT. HQ. | HEATING H.W. | 2.9 | 1 | 3/4 | |

## FAN COIL UNIT SCHEDULE (BARRACKS BUILDING)

| UNIT | C.F.M APPROX. | MIN. O.A C.F.M (PRE COOLED) | EXT. STATIC PRESSURE $H_2O$ | COOLING TOTAL CAPACITY (BTU/HR) | COOLING SENSIBLE CAPACITY (BTU/HR) | COOLING AIR E.D.B. | COOLING AIR E.W.B | COOLING WATER GPM | COOLING WATER E.W.T. | COOLING WATER L.W.T. | COOLING WATER MAX. P.D. FT. | HEATING M.B.H. | HEATING WATER E.W.T. | MOTOR WATTS | MOTOR ELECT. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FC-1 | 150 | 30 | .1 | 3,400 | 2,800 | 76 | 65 | .5 | 48 | 60 | 1.5 | 3.0 | 180 | 135 | 115/1 | HORIZONTAL CONCEALED TYPE |
| FC-2 | 225 | 30 | .1 | 4,200 | 3,800 | 76 | | .7 | | | 1.5 | 3.0 | | 155 | | |
| FC-3 | 350 | 30 | .1 | 5,900 | 5,500 | 77 | | 1.0 | | | 6.0 | 3.0 | | 200 | | |
| FC-4 | 525 | 30 | .1 | 8,200 | 7,800 | 77 | | 1.4 | | | 1.5 | 3.0 | | 345 | | |
| FC-5 | 535 | 30 | .1 | 10,000 | 9,300 | 77 | | 1.7 | | | 2.0 | 3.0 | | 345 | | |
| FC-6 | 800 | 25 | .15 | 15,500 | 13,000 | 76 | | 2.6 | | | 2.0 | 2.5 | | 405 | | |
| FC-7 | 800 | 50 | .15 | 17,500 | 14,700 | 76 | | 3.5 | 48 | 58 | 5.0 | 1.0 | | 405 | | |
| FC-8 | 900 | 120 | .15 | 17,500 | 14,700 | 76 | | 3.5 | 48 | 58 | 5.0 | 4.6 | | 405 | | |
| FC-9 | 900 | 120 | .15 | 19,400 | 13,500 | 76 | | 4.9 | 48 | 56 | 5.0 | 6.2 | | 405 | | |

## FIN TUBE RADIATION SCHEDULE

| UNIT NO | LOCATION | BTU/HR REQ. | HEATING ELEMENT GPM | HEATING ELEMENT LENGTH FT. | E.W.T. °F | ENCLOSURE D-IN. | ENCLOSURE H-IN. | E.A.T. °F | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| FT-A-1,2,3 | ARMS. ROOM | 2080 | 0.2 | 2 | 200 | 6 | 12 | 65 | SLOPING COVER - FLOOR MTD |
| FT-A-4,5,6 | STORAGE | 500 | 0.1 | ½ | | | | 55 | " " - " " |
| FT-H-1 | TOILET | 1190 | 0.1 | 1½ | | | | 68 | " " - " " |
| FT-H-2 | TOILET | 1055 | 0.1 | 1½ | | | | 68 | " " - " " |
| FT-H-3 | STORAGE | 1,400 | 0.15 | 2 | | | | 55 | " " - " " |
| FT-H-4 | SUPPLY | 3,800 | 0.4 | 4 | 200 | 6 | 12 | 68 | BARE W/WIRE MESH COVER - HUNG FROM CEILING |

| 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

EQUIPMENT SCHEDULES

DRAWING NUMBER F-721-90-12 PLATE 128

SCALE: NONE DATE: 5 FEB. 1987 SHEET M-12

41833