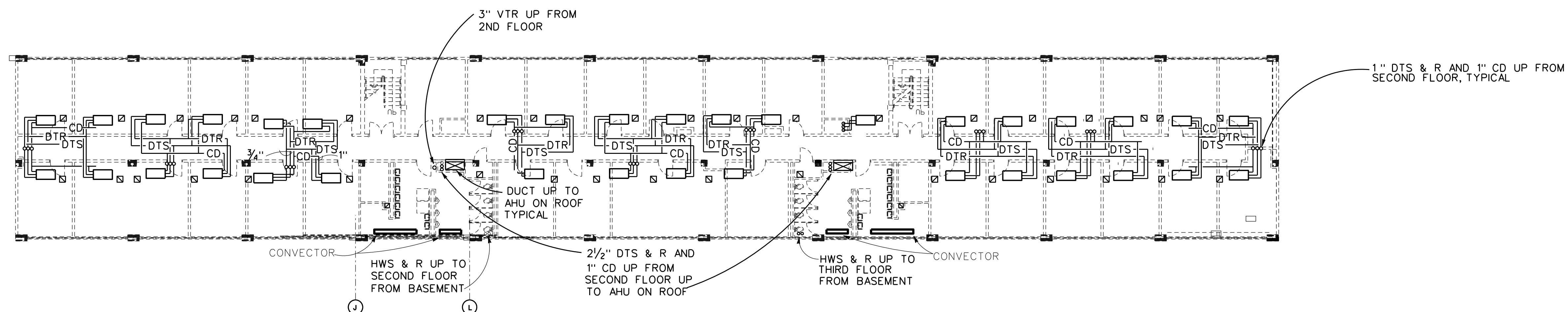


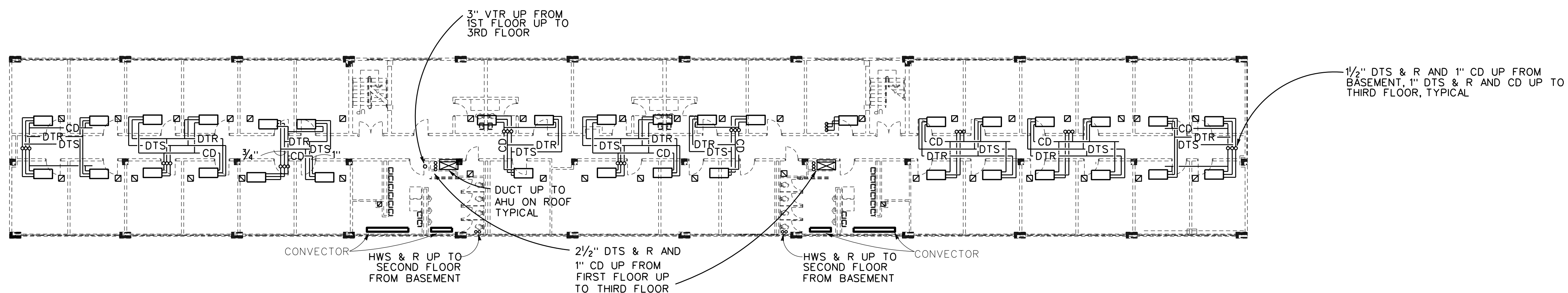
```

DGNSPEC#####
#####SYTIME#####

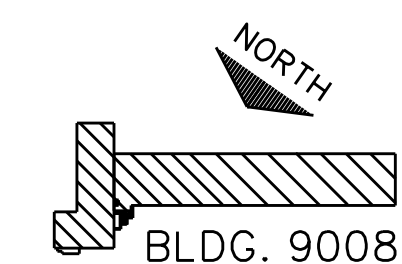
```

THIRD FLOOR DEMOLITION PLAN
SCALE: $\frac{3}{32}" = 1'-0"$



SECOND FLOOR DEMOLITION PLAN
SCALE: $\frac{3}{32}" = 1'-0"$



KEY PLAN

NOTES:

1. SEE DEMOLITION NOTES ON PLATE M-1
2. CONTRACTOR SHALL TURN IN ALL SALVAGABLE MATERIALS TO BUILDING 326, DRMO, FT. BENNING GEORGIA.

SCALE: $\frac{3}{32}'' = 1'-0''$

RECORD DRAWING

		AS_BUILT	28SEP01	JSP
SYMBOL	ZONE	DESCRIPTION	DATE	B
		REVISIONS		

U. S. ARMY ENGINEER DISTRICT, SAVANNAH CORPS OF ENGINEERS SAVANNAH, GEORGIA			
BARRACKS RENEWAL KELLEY HILL NO. 2 BUILDING 9008 - DEMOLITION MECHANICAL SECOND AND THIRD FLOOR PLANS FORT BENNING, GEORGIA			
SIZE F	SOLICITATION NO. DACA21-96-8-0050	FILE NO. 721-11-09	PLATE M-3
SCALE: 3/32"=1'-0"		SHEET 106	

```

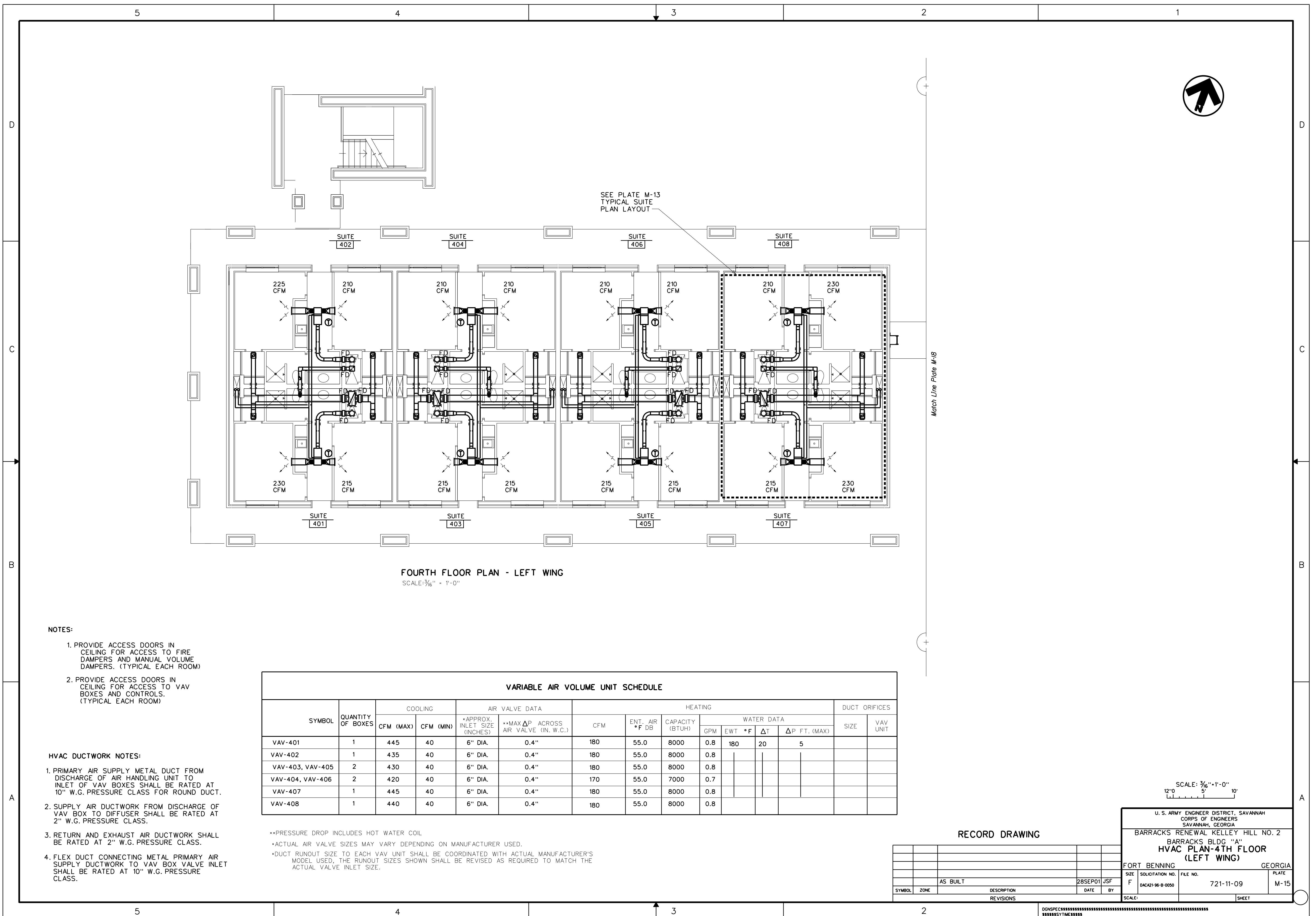
DGNSEC#####
#####SYTIME####

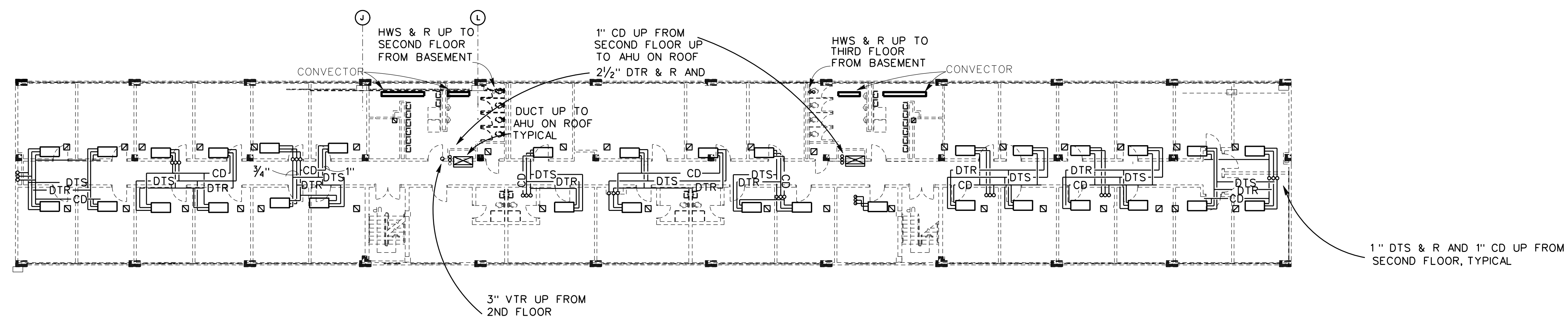
```

```

DGNSPEC#####
#####SYTIME####

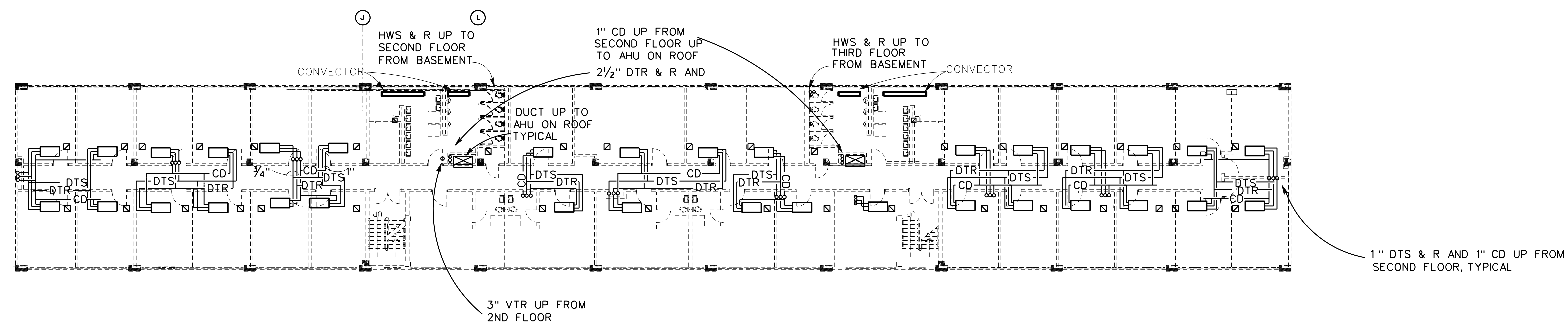
```





THIRD FLOOR DEMOLITION PLAN

SCALE: $\frac{3}{32}" = 1'-0"$



SECOND FLOOR DEMOLITION PLAN

SCALE: $\frac{3}{32}" = 1'-0"$

NOTES:

1. SEE DEMOLITION NOTES ON PLATE M-4
2. CONTRACTOR SHALL TURN IN ALL SALVAGABLE MATERIALS TO BUILDING 326, DRMO, FT. BENNING GEORGIA.

RECORD DRAWING

		AS BUILT	28SEP01	JSF
SYMBOL	ZONE	DESCRIPTION OF VISIONS	DATE	B

U. S. ARMY ENGINEER DISTRICT, SAVANNAH CORPS OF ENGINEERS SAVANNAH, GEORGIA			
BARRACKS RENEWAL KELLEY HILL NO. 2 BUILDING 9009 - DEMOLITION MECHANICAL - SECOND AND THIRD FLOOR PLANS			
FORT BENNING	721-11-09		GEORGIA
SIZE F	SOLICITATION NO. DACA21-96-B-0050	FILE NO.	PLATE M-6
SCALE:	SHIFT		108

```

DGNSPEC#####
#####SYTIME####

```




SEE MECHANICAL DEMOLITION NOTES ON PLATE M-1.



BUILDING 9017

BUILDING 9020

SCALE: 1/8" = 1'-0"

FLOOR PLAN DEMOLITION-BUILDING 9017 & 9020

SCALE: $\frac{1}{8}" = 1'-0"$

1. SEE PLATE M-1 FOR DEMOLITION NOTES.
2. CONTRACTOR SHALL TURN IN ALL SALVAGABLE MATERIALS TO BUILDING 326, DRMO, FT. BENNING, GEORGIA.
3. REMOVE ALL WASTE PIPING TO BUILDING 5 FOOT LINE. SEAL ABANDONED SECTIONS TO REMAIN WITH CONCRETE PLUG.
4. REMOVE ALL INTERIOR WATER AND GAS PIPING.
5. REMOVE ALL GAS-FIRED HEATERS, DUCT WORK, AND FLUE STACKS.
6. REMOVE EXHAUST FANS AND ASSOCIATED DUCT WORK AND DAMPERS.
7. REMOVE ALL PLUMBING FIXTURES AND ASSOCIATED PIPING.

1. CONTRACTOR SHALL TURN IN ALL SALVAGEABLE MATERIALS TO BUILDING 326, DRMO, FORT BENNING, GEORGIA

2. DISPOSAL OF ALL MATERIALS, RUBBISH, TRASH, DEGRIS, CONCRETE, ASPHALT, ETC. SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL BE AT NO ADDITIONAL COST TO THE GOVERNMENT. NO DISPOSAL SHALL BE DONE ON FT. BENNING.

		AS BUILT	28SEP01	JSF
SYMBOL	ZONE	DESCRIPTION OF VISIONS	DATE	B

U. S. ARMY ENGINEER DISTRICT, SAVANNAH CORPS OF ENGINEERS SAVANNAH, GEORGIA			
BARRACKS RENEWAL KELLEY HILL NO. 2			
BUILDINGS 9017, 9020 AND 9039 -DEMOLITION			
MECHANICAL PLANS			
FORT BENNING			GEORGIA
SIZE	SOLICITATION NO.	FILE NO.	PLATE
F	DCA41-96-B-0050	721-11-09	M-11
SCALE: AS SHOWN		SHEET 201	

```

DGNSPEC#####
#####SYTIME#####

```

_____ CHWS _____	CHILLED WATER SUPPLY
_____ CHWR _____	CHILLED WATER RETURN
_____ D _____	DRAIN (COOLING COIL CONDENSATE)

_____ G _____	NATURAL GAS
_____ HTWS _____	HIGH TEMPERATURE WATER SUPPLY
_____ HTWR _____	HIGH TEMPERATURE WATER RETURN

_____ COLD WATER

_____ HOT WATER

_____ HOT WATER CIRCULATION

_____ **SS** _____ SANITARY SEWER

_____ VENT

(LETTER INDICATES P.D.I. SIZE)

	W60	WALL CLEAN OUT
	F60	FLOOR CLEAN OUT
	G60	GRADE CLEAN OUT

 ELBOW - 45 DEGREES
 ELBOW - 90 DEGREES

—┐ ELBOW - TURNED DOWN

—┘ ELBOW - TURNED UP

 TEE-OUTLET UP
 UNION

 TEE

—□ FD FLOOR DRAIN WITH TRAP

	WF HF LF WH	WALL FAUCET HOSE OR LAWN FAUCET, WALL HYDRANT AND DESIGNATION,
---	----------------------	---

LATERAL

PIPE GUIDE

BLIND FLANGE/PIPE CAP

STRAINER

SLEEVE

SIGHT DRAIN

TEE OUTLET DOWN

	WET PIPE SPRINKLER PIPE
	PRE-ACTION FOAM SPRINKLER PIPE
	FOAM MONITOR
	H.A.D. - HEAT ACTUATED DETECTORS
	UPRIGHT SPRINKLER
	PENDANT SPRINKLER
	STRAINER
	WATER MOTOR ALARM GONG
	CHECK VALVE
	GATE VALVE
	AUTOMATIC VALVE
	FIRE DEPARTMENT SIAMESE CONNECTION
	OS & Y VALVE WITH VALVE POSITION STATUS SWITCH (STATUS SIGNAL TO FIRE ALARM PANEL)
	ALARM CHECK VALVE, RETARD CHAMBER, ETC. (FLANGED TYPE)
	REDUCER (FLANGED TYPE)

	BOILER SAFETY
	VALVE IN RISER, VALVE IN DROP
	GLOBE VALVE
	PITCH DOWN IN DIRECTION OF ARROW
	PRESSURE RELIEF
	CHECK VALVE
	3-WAY CONTROL VALVE
	2-WAY CONTROL VALVE
	GATE VALVE
	FLEXIBLE CONNECTION
	BALANCING VALVE

		AUTOMATIC AIR VENT, MANUAL AIR VENT
		TEMPERATURE SENSOR, HUMIDITY SENSOR (EMCS) (EMCS)
		DIFFERENTIAL PRESSURE TRANSMITTER STATIC PRESSURE SENSOR
		MULTI-ZONE UNIT SENSOR WITH MULTI-ZONE UNIT ZONE DESIGNATION
		HUMIDISTAT, THERMOSTAT
		THERMOSTAT AND DESIGNATION
		PRESSURE GAGE AND COCK
		THERMOMETER - STEM
		PUMP, FAN
		OCCUPIED/UNOCCUPIED SWITCH

	EF	EXHAUST FAN
	UH-2	HORIZONTAL UNIT HEATER
	EF-3	PROPELLER TYPE WALL MOUNTED FAN
	W	WINCH
	UH-1	VERTICAL UNIT HEATER
	VAV-101	VARIABLE AIR VOLUME UNIT

	DIRECTION OF FLOW
	DUCT-FIRST FIGURE WIDTH, SECOND DEPTH
20 x 12	SUPPLY DUCT SECTION
	OUTSIDE AIR INTAKE LOUVER (SEE ARCH. DRAWINGS FOR LOUVER)
	MOTOR OPERATED SMOKE DAMPER WITH A DOOR
	SMOKE DETECTOR, DUCT MOUNTED
	SUPPLY DUCT ELBOW (UP-DN)
	RET/EXH DUCT ELBOW (UP-DN)
	CONCENTRIC, ECCENTRIC DUCT TRANSITION
	DENOTES ROUND DUCT
	ROUND OR OVAL DUCT (UP)
	ROUND OR OVAL DUCT (DN)

	CEILING DIFFUSER OR REGISTER
	AIR DEFLECTOR
	EXHAUST RETURN, OR RELIEF DUCT SECTION
	FLEXIBLE DUCT
	FIRE DAMPER W/ACCESS DOOR IN CEILING
	VOLUME CONTROL DAMPER (MANUAL)
	MOTOR OPERATED DAMPER
	RADIUS TYPE ELBOW
	SQUARE ELBOW W/TURNING VANES
	DUCT SPLIT W/TURNING VANES

AD	ACCESS DOOR	FD	FLOOR DRAIN
AF	ABOVE FINISHED FLOOR	GPM	GALLONS PER MINUTE
AMD	AIR MEASURING DEVICE	GV	GRAVITY VENTILATOR
ANN	ANNUNCIATOR	HWP	HOT WATER PUMP
AHU	AIR HANDLING UNIT	HWS	HOT WATER SUPPLY
AC	AIR COMPRESSOR	HWR	HOT WATER RETURN
BTU	BRITISH THERMAL UNIT	IN WG	INCHES WATER GAGE
BLR	BOILER	LDB	LEAVING DRY BULB
CAT	CAPTIVE AIR TANK	LWB	LEAVING WET BULB
CFM	CUBIC FEET PER MINUTE	LWT	LEAVING WATER TEMP
CHS	CHILLED WATER SUPPLY	MAU	MAKE UP AIR UNIT
CHR	CHILLED WATER RETURN	MCC	MOTOR CONTROL CENTER
CONC	CONCRETE	MOD	MOTOR OPERATED DAMPER
COND	CONDENSATE	MAX	MAXIMUM
CONT	CONTINUATION	MIN	MINIMUM
CLG	CEILING	MOR	MANUAL OVER-RIDE
CU	CONDENSER UNIT	MUA	MAKE UP AIR
		N.C.	NORMALLY CLOSE
CONN	CONNECTION	NTS	NOT TO SCALE
DB	DRY BULB	OAG	OUTSIDE AIR GRILLE
DN	DOWN	PD	PRESSURE DROP
EFF	EFFICIENCY	RV	RELIEF VALVE
EWB	ENTERING WET BULB	REG	REGISTER
EDB	ENTERING DRY BULB	SP	STATIC PRESSURE
EWT	ENTERING WATER TEMP	SENS	SENSIBLE
ET	EXPANSION TANK	SR	SUPPLY REGISTER
EG	EXHAUST GRILL	SV	SOLENOID VALVE
EXT	EXTERNAL	UH	UNIT HEATER
ENT	ENTERING	VEL	VELOCITY
		DTC	DATA TERMINAL CABINET
°F	FAHRENHEIT	IR	INFRA-RED
FOR	FUEL OIL RETURN	MVD	MANUAL VOLUME DAMPER
FOS	FUEL OIL SUPPLY	SA	SUPPLY AIR
NITE	NIGHT THERMOSTAT	RA	RETURN AIR
VTR	VENT THRU ROOF	EA	EXHAUST AIR
VAV	VARIABLE AIR VOLUME UNIT	WHA	WATER HAMMER ARRESTER
		POI	PLUMBING AND DRAINAGE INSTITUTE
		WALL	WALL HYDRANT
		TA	THROW AWAY
		WF	WALL FAUCET

NOTE : WF WALL FAUCE
FOR ADDITIONAL ABBREVIATIONS NOT SHOWN HERE
SEE INDEX SHEET PLATE X-1.

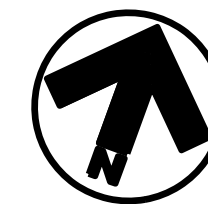
		AS BUILT		28SEP01	JSF
SYMBOL	ZONE	DESCRIPTION		DATE	BY
REVISIONS					

U. S. ARMY ENGINEER DISTRICT, SAVANNAH CORPS OF ENGINEERS SAVANNAH, GEORGIA			
BARRACKS RENEWAL KELLEY HILL NO. 2			
BARRACKS BLDGS "A, B, & C" MECHANICAL LEGEND			
FORT BENNING			GEORGIA
SIZE F	SOLICITATION NO. DAC421-96-B-0050	FILE NO. 721-11-09	PLATE M-12
SCALE:		SHEET 204	

```

DGNSPEC#####
#####SYTIME#####

```

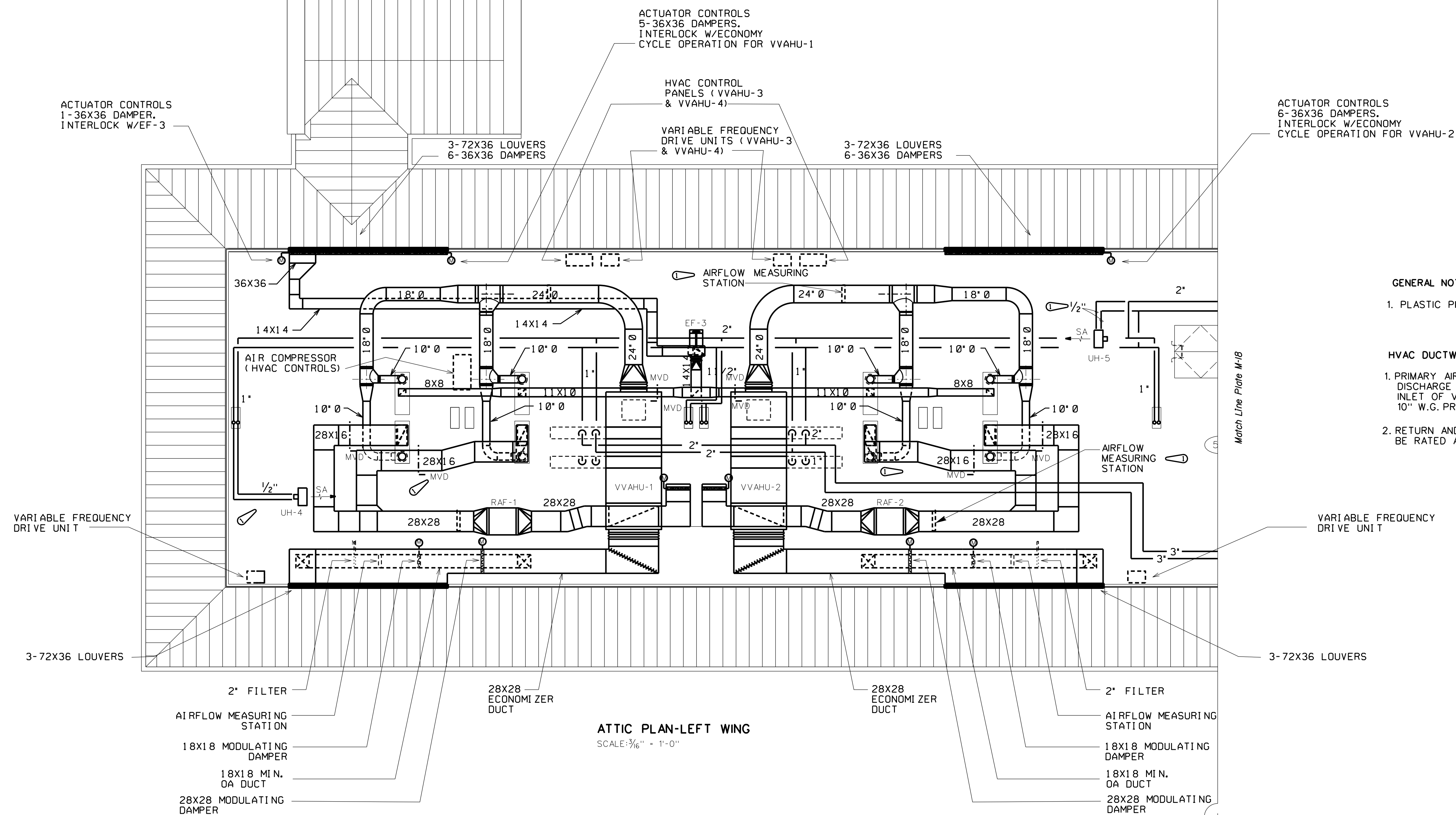
TYP
ROOM
DESIGNATIONS

200'S - SECOND FLOOR
300'S - THIRD FLOOR

```

DGNSPEC#####
#####SYTIME#####

```

GENERAL NOTES:

1. PLASTIC PIPING SHALL NOT BE USED.

HVAC DUCTWORK NOTES:

1. PRIMARY AIR SUPPLY METAL DUCT FROM DISCHARGE OF AIR HANDLING UNIT TO INLET OF VAV BOXES SHALL BE RATED AT 10" W.G. PRESSURE CLASS FOR ROUND DUCT.
2. RETURN AND EXHAUST AIR DUCTWORK SHALL BE RATED AT 2" W.G. PRESSURE CLASS.

ATTIC PLAN-LEFT WING

SCALE: $\frac{3}{16}" = 1'-0"$

 WORK NOTES:

1. ADD AIR FLOW MEASURING STATION IN SUPPLY AND RETURN DUCT AS SHOWN.
2. REVISE ROUTING OF RETURN DUCT SECTION TO PROVIDE THE REQUIRED STRAIGHT-DUCT LENGTH FOR THE AIR FLOW MEASURING STATION.
3. REVISIONS INDICATED ABOVE ARE TYPICAL FOR VVAHU-1 THRU VVAHU-12 DUCT SYSTEMS. APPLICABLE PLATES ARE M-17 (SHEET 209), M-18 (SHEET 210), M-23 (SHEET 215), M-24 (SHEET 216), M-29 (SHEET 221), & M-30 (SHEET 222).

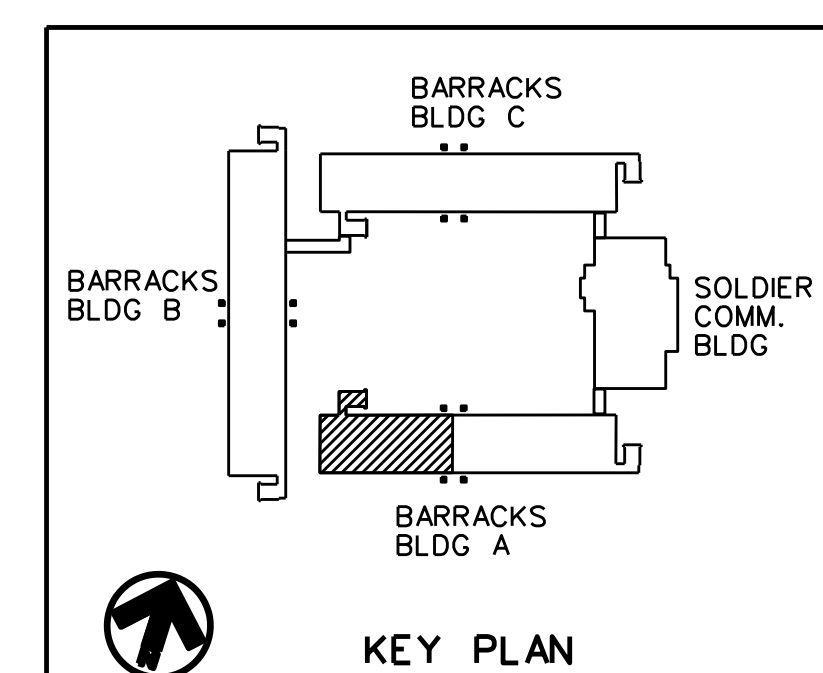
RECORD DRAWING

(1)	-	REVISED IN ACCORDANCE WITH AMENDMENT NO. 0001	13MAY96	JSP
SYMBOL	ZONE	DESCRIPTION	DATE	B'
		DEVIATIONS		

```

DGNSPEC#####
#####SYTIME#####

```



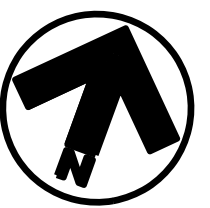
U. S. ARMY ENGINEER DISTRICT, SAVANNAH
CORPS OF ENGINEERS
SAVANNAH, GEORGIA

BARRACKS RENEWAL KELLEY HILL NO. 2
BARRACKS BLDG "A"
HVAC ATTIC PLAN-LEFT WING

FORT BENNING GEORGIA

SIZE	SOLICITATION NO.	FILE NO.	PLATE
F	DACA21-96-B-0050	721-11-09	M-17

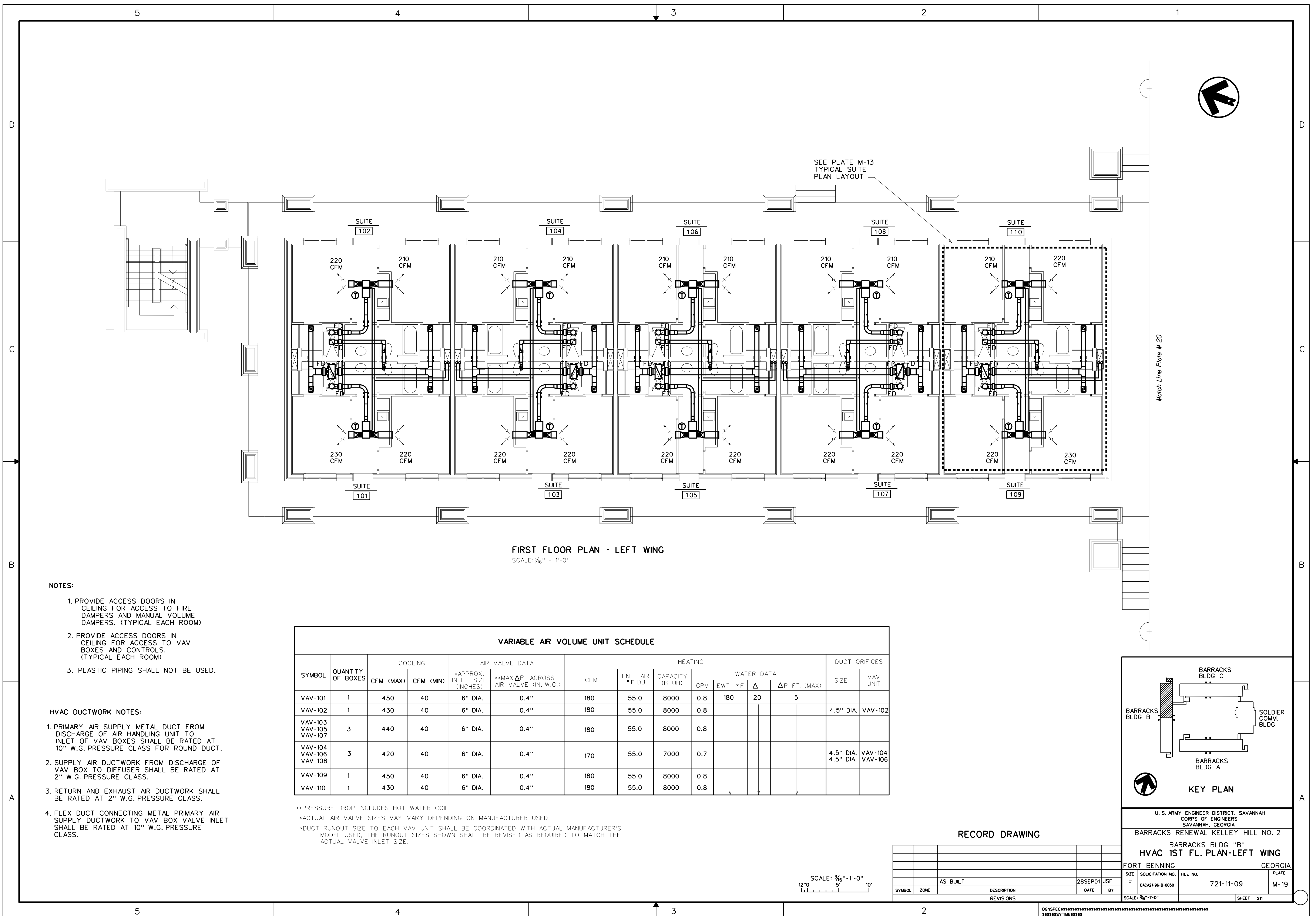
SCALE:	SHEET 209
--------	-----------

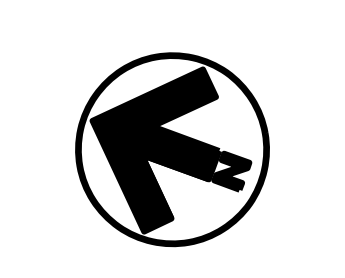


```

DGNSPEC#####
#####SYTIME#####

```





Match Line Plate M-19

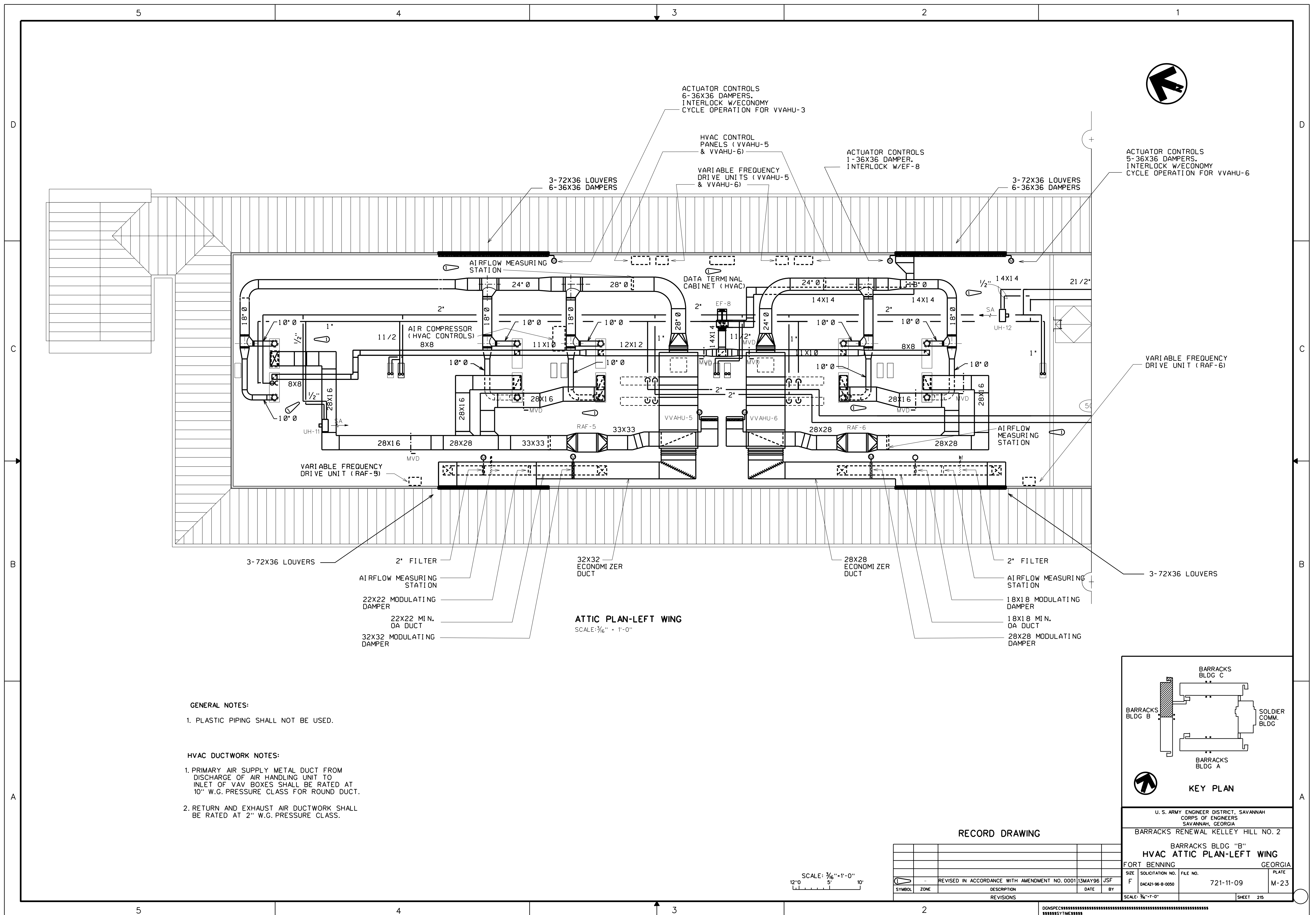
- ```

DGNSPEC#####
#####SYTIME#####

```



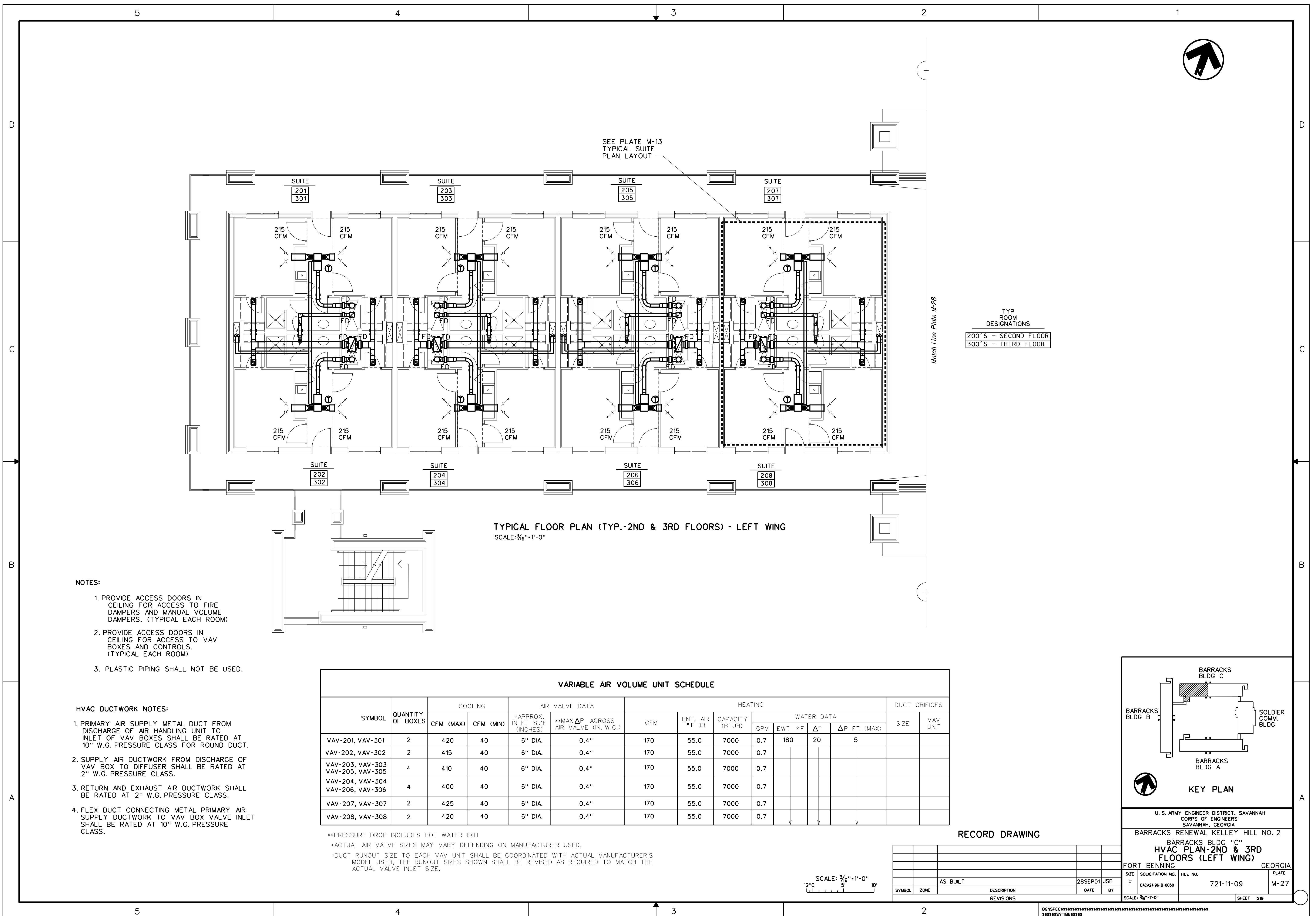




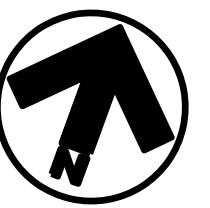








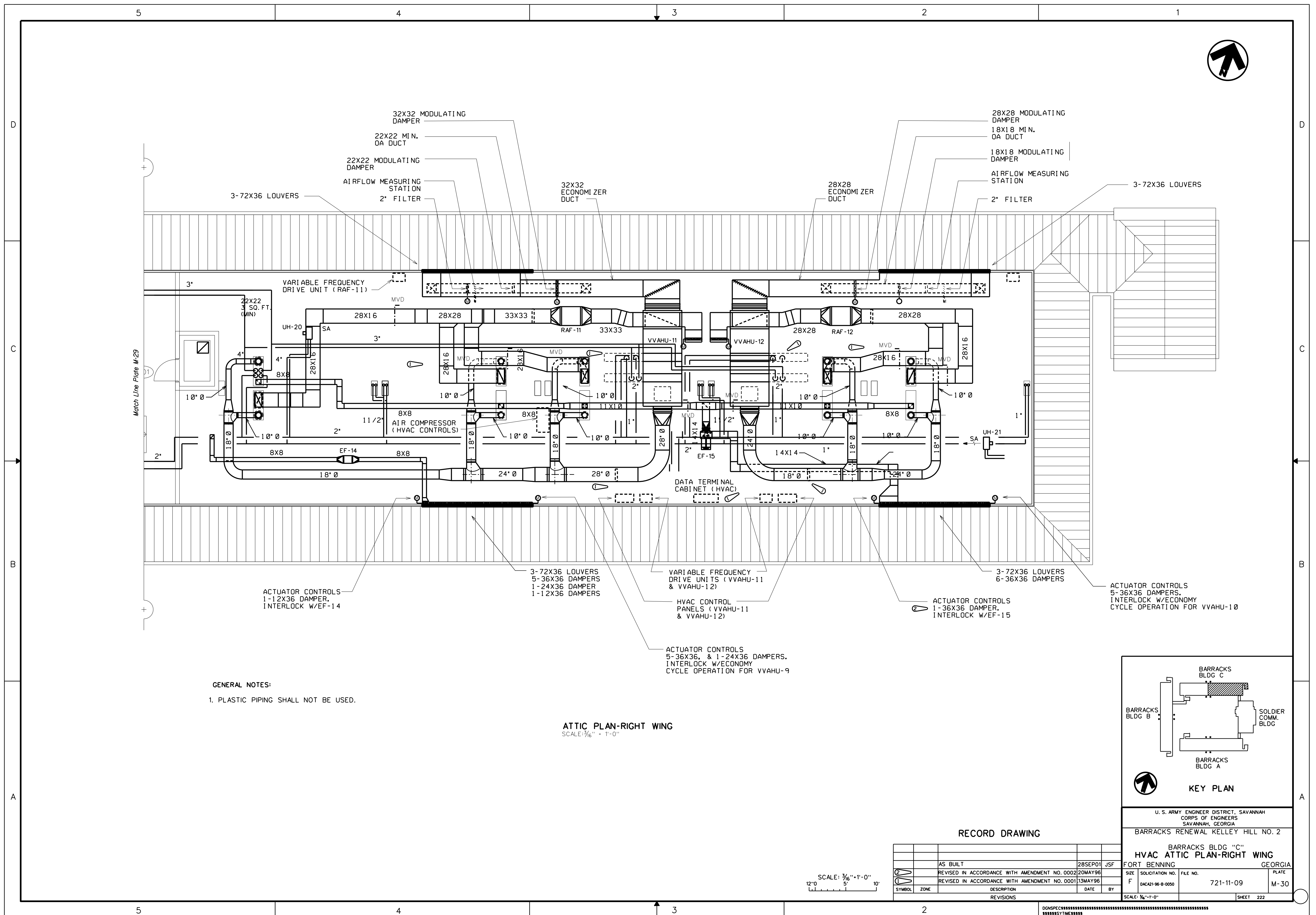




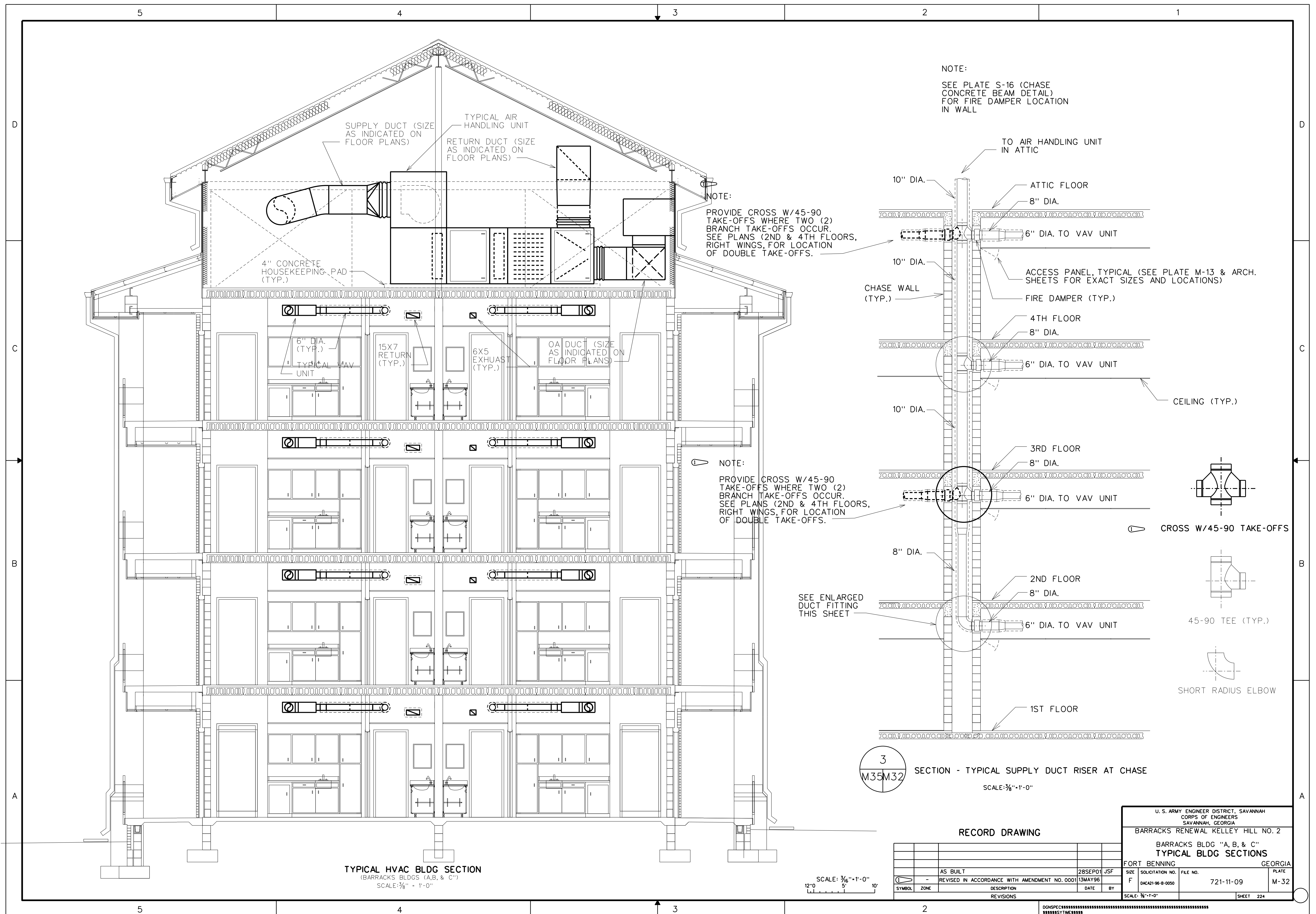
```

DGNSPEC#####
#####SYTIME#####

```







[illegible]

\* TOTAL E.S.P. INCLUDES 1.0" FOR DIRTY AIR FILTER.  
 \*\* AHU'S SHALL HAVE FAN MOTORS EQUIPPED WITH  
 VARIABLE FREQUENCY DRIVE FOR FAN VOLUME CONTROL.  
 \*\*\* FINAL AIR FILTERS SHALL BE HIGH PERFORMANCE (H.P.),  
 EXTENDED AREA, RIGIDLY SUPPORTED, DISPOSABLE  
 FILTERS.  
 \*\*\* AHU FAN MOTORS SHALL BE OF A DESIGN TYPE FOR USE  
 IN VARIABLE SPEED DRIVE APPLICATION.

| AIR TERMINAL DEVICE SCHEDULE |         |                    |                    |                            |          |         |
|------------------------------|---------|--------------------|--------------------|----------------------------|----------|---------|
| I.D. SYMBOL                  | SERVICE | FACE SIZE (INCHES) | NECK SIZE (INCHES) | MAX PRESS. DROP (IN. W.C.) | CFM MAX. | REMARKS |
| Ⓒ                            | SUPPLY  | 14X10              | 12X8               | 0.05                       | 300      | 1,2,4,5 |
| Ⓐ                            | RETURN  | 12X12              | 10X10              | 0.05                       | 250      | 1,2,3,5 |
| Ⓑ                            | EXHAUST | 6X6                | 4X4                | 0.05                       | 75       | 1,2,3,5 |

\*MAX PRESSURE DROP FOR TEN (10) FOOT LENGTHS OF FLEXIBLE DUCT SHALL SHALL NOT EXCEED 0.05 IN W.C.

REMARK NOTES

1. OPPOSED-BLADE VOLUME DAMPER
2. DIRECTIONAL FLOW DEFLECTORS  
REQ'D FOR SUPPLY, NONE REQ'D  
FOR RETURN OR EXHAUST
3. SURFACE MOUNT DESIGN
4. SIDEWALL MOUNT DESIGN
5. LOUVERED FACE

| LOUVER SCHEDULE |          |           |                    |                            |                     |                            |          |                           |                                                       |         |
|-----------------|----------|-----------|--------------------|----------------------------|---------------------|----------------------------|----------|---------------------------|-------------------------------------------------------|---------|
| SYMBOL          | QUANTITY | LOCATION  | SERVICE            | *DIMENSIONS<br>(NOM. SIZE) | FREE AREA<br>(MIN.) | FACE VELOCITY<br>(MAX FPM) | CFM      | ΔP (MAX)<br>(INCHES W.C.) | ACCESSORIES                                           | REMARKS |
| L-1             | 3        | ELEV. RM. | INTAKE             | 24X24                      | 0.6 SQ. FT.         | 550                        | 140/280  | 0.05                      | MOTOR-OPERATED<br>DAMPER, BIRD SCREEN                 |         |
| L-2             | 3        | MECH. RM. | EXHAUST            | 24x24                      | 1.1 SQ. FT.         | 1750                       | 875/1750 | 0.05                      | BIRD SCREEN                                           |         |
| L-3             | 3        | MECH. RM. | INTAKE             | 36X48                      | 3.5 SQ. FT.         | 550                        | 875/1750 | 0.15                      | BIRD SCREEN                                           |         |
| L-4             | 72       | ATTIC     | INTAKE/<br>EXHAUST | 72X36                      | 7.0 SQ. FT.         | 550                        | 3700     | 0.15                      | BIRD SCREEN,<br>MOTOR-OPERATED<br>DAMPER AS INDICATED |         |

\*NOMINAL SIZES INCLUDE LOUVER FRAMING

| EXHAUST FAN SCHEDULE |                          |          |                   |                                                                                                                                                                               |
|----------------------|--------------------------|----------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SYMBOL               | AREA SERVED              | CFM      | E.S.P. (IN. W.C.) | REMARKS                                                                                                                                                                       |
| EF-2                 | MAIN MECH. RMS.          | 875/1750 | 0.375             | WALL-MTD., PROPELLER-TYPE, DIRECT DRIVE, TWO-SPEED FAN MOTOR, MOTOR-OPERATED DAMPER/SHUTTER, SCREENED FAN GUARD, THERMOSTATICALLY CONTROLLED WITH SET POINTS @ 85/95 DEGREES. |
| EF-7                 |                          |          |                   |                                                                                                                                                                               |
| EF-12                |                          |          |                   |                                                                                                                                                                               |
| EF-3                 | TOILETS<br>(LEFT WINGS)  | 1120     | 1.1               | IN-LINE, CENTRIFUGAL, BELT-DRIVEN, UTILITY-TYPE, INTERLOCK W/AHU                                                                                                              |
| EF-8                 |                          |          |                   |                                                                                                                                                                               |
| EF-13                |                          |          |                   |                                                                                                                                                                               |
| EF-4                 | ELEV. MECH. RMS.         | 140/280  | 0.5               | WALL-MTD., PROPELLER-TYPE, DIRECT DRIVE, TWO-SPEED FAN MOTOR, MOTOR-OPERATED DAMPER/SHUTTER, SCREENED FAN GUARD, THERMOSTATICALLY CONTROLLED WITH SET POINTS @ 85/95 DEGREES. |
| EF-9                 |                          |          |                   |                                                                                                                                                                               |
| EF-14                |                          |          |                   |                                                                                                                                                                               |
| EF-5                 | TOILETS<br>(RIGHT WINGS) | 1680     | 1.3               | IN-LINE, CENTRIFUGAL, BELT-DRIVEN, UTILITY-TYPE, INTERLOCK W/AHU                                                                                                              |
| EF-10                |                          |          |                   |                                                                                                                                                                               |
| EF-15                |                          |          |                   |                                                                                                                                                                               |

| UNIT HEATER SCHEDULE |                              |              |             |             |           |        |               |        |        |        |     |          |               |                                                     |
|----------------------|------------------------------|--------------|-------------|-------------|-----------|--------|---------------|--------|--------|--------|-----|----------|---------------|-----------------------------------------------------|
| BLDG A               | BLDG B                       | BLDG C       | AREA SERVED | APPROX. CFM | THROW FT. | DISCH. | CAPACITY BTUH | EAT °F | WATER  |        |     |          | MOUNT HT. FT. | REMARKS                                             |
|                      |                              |              |             |             |           |        |               |        | EW T   | LWT    | GPM | ΔP (MAX) |               |                                                     |
| UH-1, UH-2           | UH-8, UH-9                   | UH-15, UH-16 | MECH./ELEV. | 300         | 10        | HORIZ. | 3000          | 40/55  | 180 °F | 160 °F | 0.3 | 5.0      | 9'-0"         | FURNISHED WITH REMOTE THERMOSTAT, PROPELLER-TYPE    |
| UH-3                 | UH-10                        | UH-17        | MECH. RM.   | 350         | 15        | HORIZ. | 6000          | 40     | 180 °F | 160 °F | 0.6 | 5.0      | 9'-0"         | FURNISHED WITH REMOTE THERMOSTAT, PROPELLER-TYPE    |
| UH-4, UH-5           | -                            | UH-18, UH-19 | ATTIC       | 400         | 15        | HORIZ. | 8000          | 40     | 180 °F | 160 °F | 0.8 | 5.0      | 9'-0"         | FURNISHED WITH REMOTE THERMOSTAT, PROPELLER-TYPE    |
| UH-6, UH-7           | UH-11, UH-12<br>UH-13, UH-14 | UH-20, UH-21 | ATTIC       | 550         | 15        | HORIZ. | 10000         | 40     | 180 °F | 160 °F | 1.0 | 5.0      | 9'-0"         | THERMOSTAT, PROPELLER-TYPE<br>FURNISHED WITH REMOTE |

| AIR SEPARATOR SCHEDULE |       |               |                      |                               |                            |                    |
|------------------------|-------|---------------|----------------------|-------------------------------|----------------------------|--------------------|
| SYMBOL                 | GPM   | MEDIUM        | PIPE CONNECTION SIZE | MAXIMUM OPERATING TEMPERATURE | MAXIMUM OPERATING PRESSURE | ΔP (MAX) (FT HEAD) |
| AS-1, AS-3             | 214.5 | CHILLED WATER | 4"                   | 90 DEGREES F                  | 90 PSIG                    | 5.0                |
| AS-2                   | 243.1 | CHILLED WATER | 4"                   | 90 DEGREES F                  | 90 PSIG                    | 5.0                |

| RECORD DRAWING                                                                        |      |                                               |         |     |
|---------------------------------------------------------------------------------------|------|-----------------------------------------------|---------|-----|
|                                                                                       |      |                                               |         |     |
|                                                                                       |      |                                               |         |     |
|                                                                                       |      | AS BUILT                                      | 28SEP01 | JSF |
|  | -    | REVISED IN ACCORDANCE WITH AMENDMENT NO. 0001 | 13MAY96 |     |
| SYMBOL                                                                                | ZONE | DESCRIPTION                                   | DATE    | BY  |
| REVISIONS                                                                             |      |                                               |         |     |

|                                                                                   |                                     |                       |               |
|-----------------------------------------------------------------------------------|-------------------------------------|-----------------------|---------------|
| U. S. ARMY ENGINEER DISTRICT, SAVANNAH<br>CORPS OF ENGINEERS<br>SAVANNAH, GEORGIA |                                     |                       |               |
| BARRACKS RENEWAL KELLEY HILL NO. 2                                                |                                     |                       |               |
| BARRACKS BLDGS "A, B, & C"<br>HVAC SCHEDULES                                      |                                     |                       |               |
| FORT BENNING                                                                      |                                     | GEORGIA               |               |
| FIG<br>F                                                                          | SOLICITATION NO.<br>DMACT-96-B-0050 | FILE NO.<br>721-11-09 | PLATE<br>M-33 |
| SCALE: NO SCALE                                                                   |                                     | SHEET 225             |               |

DGNSPEC#####  
 #####SYTIME#####

| PUMP SCHEDULE  |               |       |                  |                     |                                        |
|----------------|---------------|-------|------------------|---------------------|----------------------------------------|
| SYMBOL         | SERVICE       | GPM   | TOTAL HEAD (FT.) | EFFICIENCY (MIN. %) | TYPE                                   |
| CHWP-1, CHWP-3 | CHILLED WATER | 214.5 | 120              | 60                  | BASE-MOUNTED, END-SUCTION, CENTRIFUGAL |
| CHWP-2         | CHILLED WATER | 243.1 | 130              | 60                  |                                        |
| HWP-1, HWP-3   | HOT WATER     | 79.6  | 65               | 60                  |                                        |
| HWP-2          | HOT WATER     | 93.7  | 65               | 60                  |                                        |

NOTE: PUMP HEADS FOR ESTIMATING PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING PUMP HEAD BASED ON ACTUAL PIPING LAYOUT.

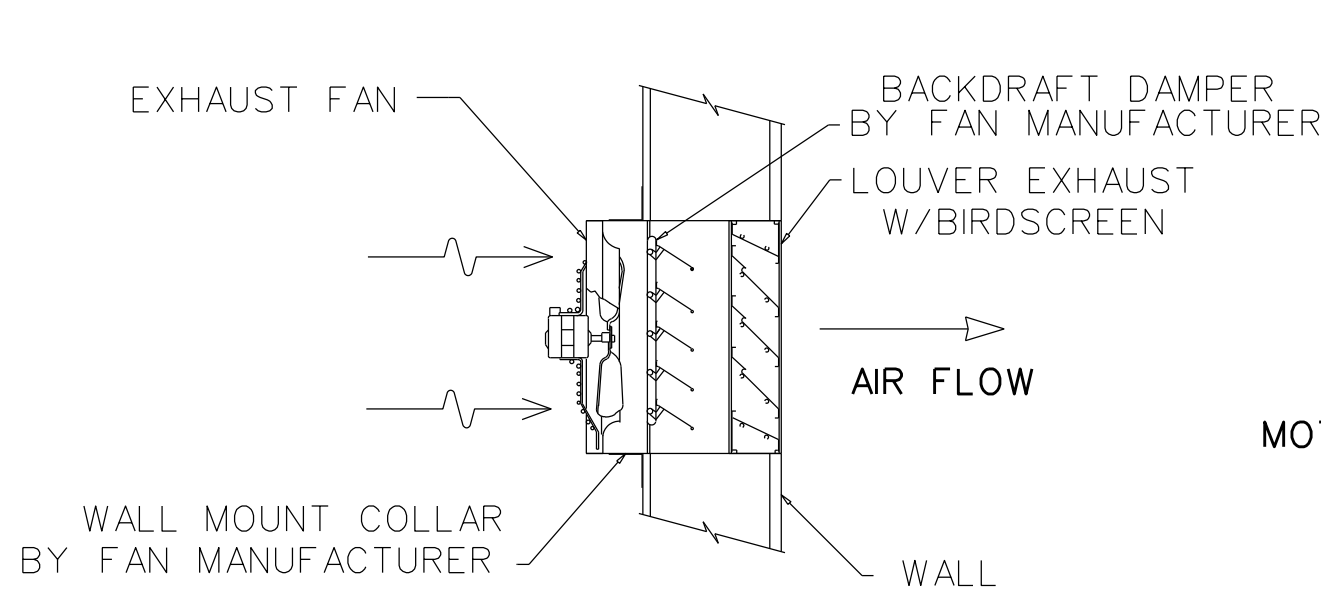
SYSTEM OPERATING PARAMETERS  
CHILLED WATER: 90 PSIG MAX, 40-90 DEGREES F.  
HOT WATER: 70 PSIG MAX, 60-240 DEGREES F.

| AIR-COOLED CHILLER SCHEDULE |               |                     |                    |                    |                    |                      |                                                                                          |
|-----------------------------|---------------|---------------------|--------------------|--------------------|--------------------|----------------------|------------------------------------------------------------------------------------------|
| SYMBOL                      | BARRACKS BLDG | NET CAPACITY (TONS) | CHILLED WATER DATA |                    |                    |                      | REMARKS                                                                                  |
|                             |               |                     | GPM                | ENT. WATER TEMP °F | TEMP DIFFERENCE °F | MAX PRESS. DROP (FT) |                                                                                          |
| C-1                         | A             | 90                  | 214.5              | 55                 | 10                 | 25                   | 95 DEGREE (MIN.) AMBIENT AIR TEMPERATURE FOR CONDENSER. 5-STEP CAPACITY UNLOADING (MIN.) |
| C-2                         | B             | 100                 | 243.1              | 55                 | 10                 |                      |                                                                                          |
| C-3                         | C             | 90                  | 214.5              | 55                 | 10                 |                      |                                                                                          |

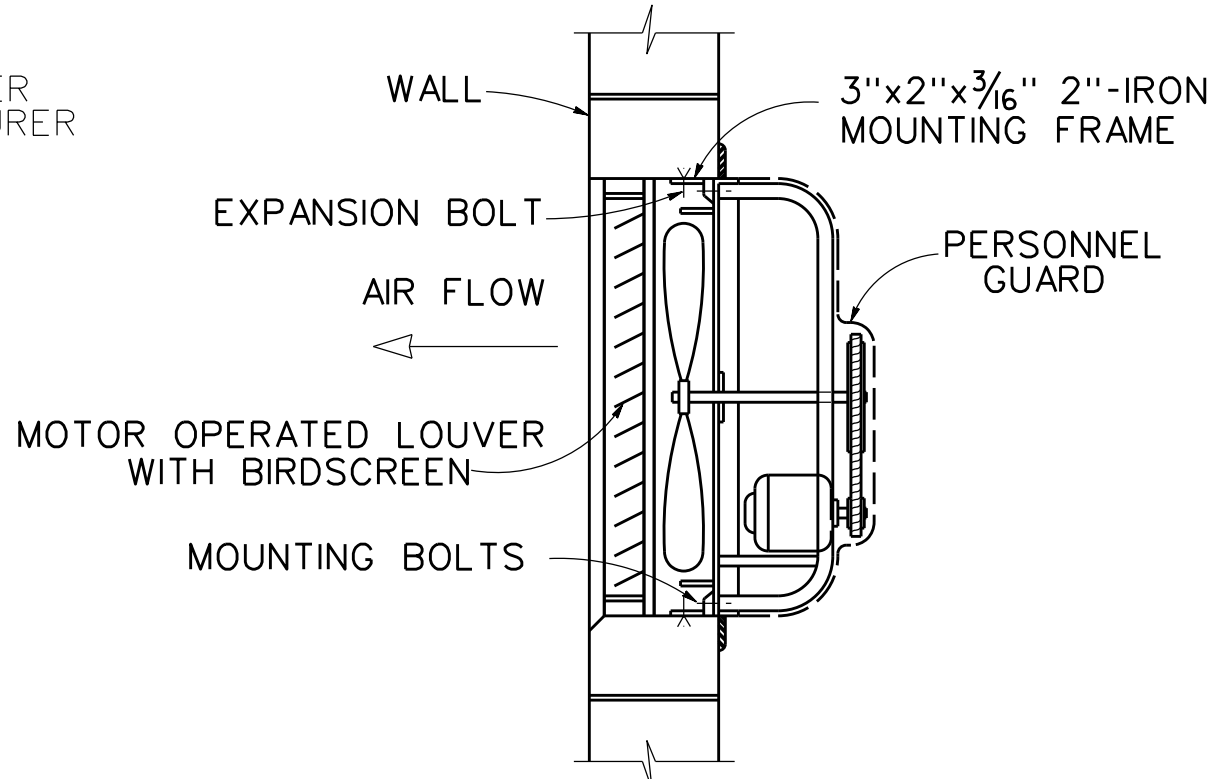
FLOWS GPM INCLUDES 30% ETHYLENE GLYCOL SOLUTION.  
CONTRACTOR SHALL PROVIDE ETHYLENE GLYCOL SOLUTION

| EXPANSION TANK SCHEDULE |                           |               |                              |            |                              |            |                                                           |
|-------------------------|---------------------------|---------------|------------------------------|------------|------------------------------|------------|-----------------------------------------------------------|
| SYMBOL                  | SIZE (GAL)<br>ACCEP. VOL. | MEDIUM        | MIN. OPERATING<br>CONDITIONS |            | MAX. OPERATING<br>CONDITIONS |            | REMARKS                                                   |
|                         |                           |               | TEMP.                        | PRESS.     | TEMP.                        | PRESS.     |                                                           |
| ET-1, ET-3              | 19                        | CHILLED WATER | 40 ° F                       | 30<br>PSIG | 90 ° F                       | 90<br>PSIG | DIAPHRAM-TYPE,<br>FLOOR-MOUNTED ON<br>4" HOUSEKEEPING PAD |
| ET-2                    | 19                        | CHILLED WATER |                              |            |                              |            |                                                           |

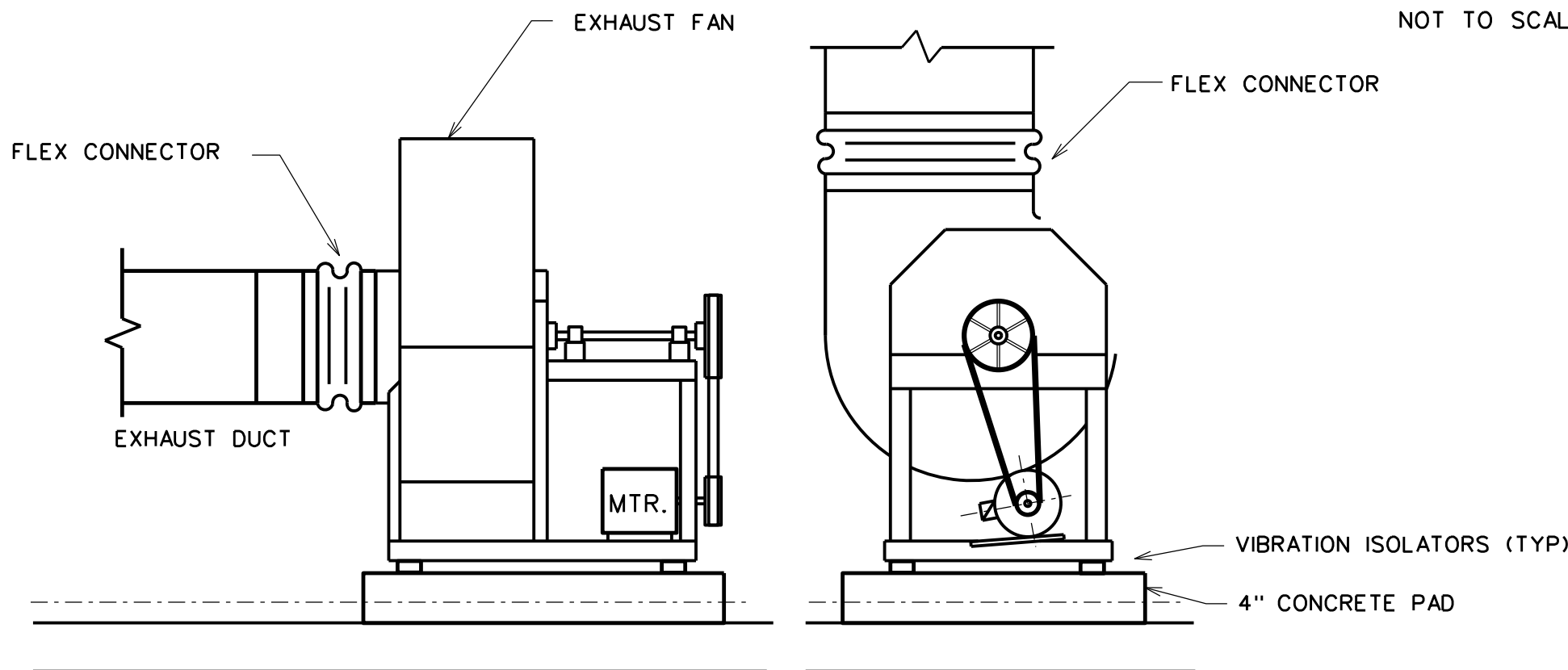
\*PRE-CHARGED BY CONTRACTOR



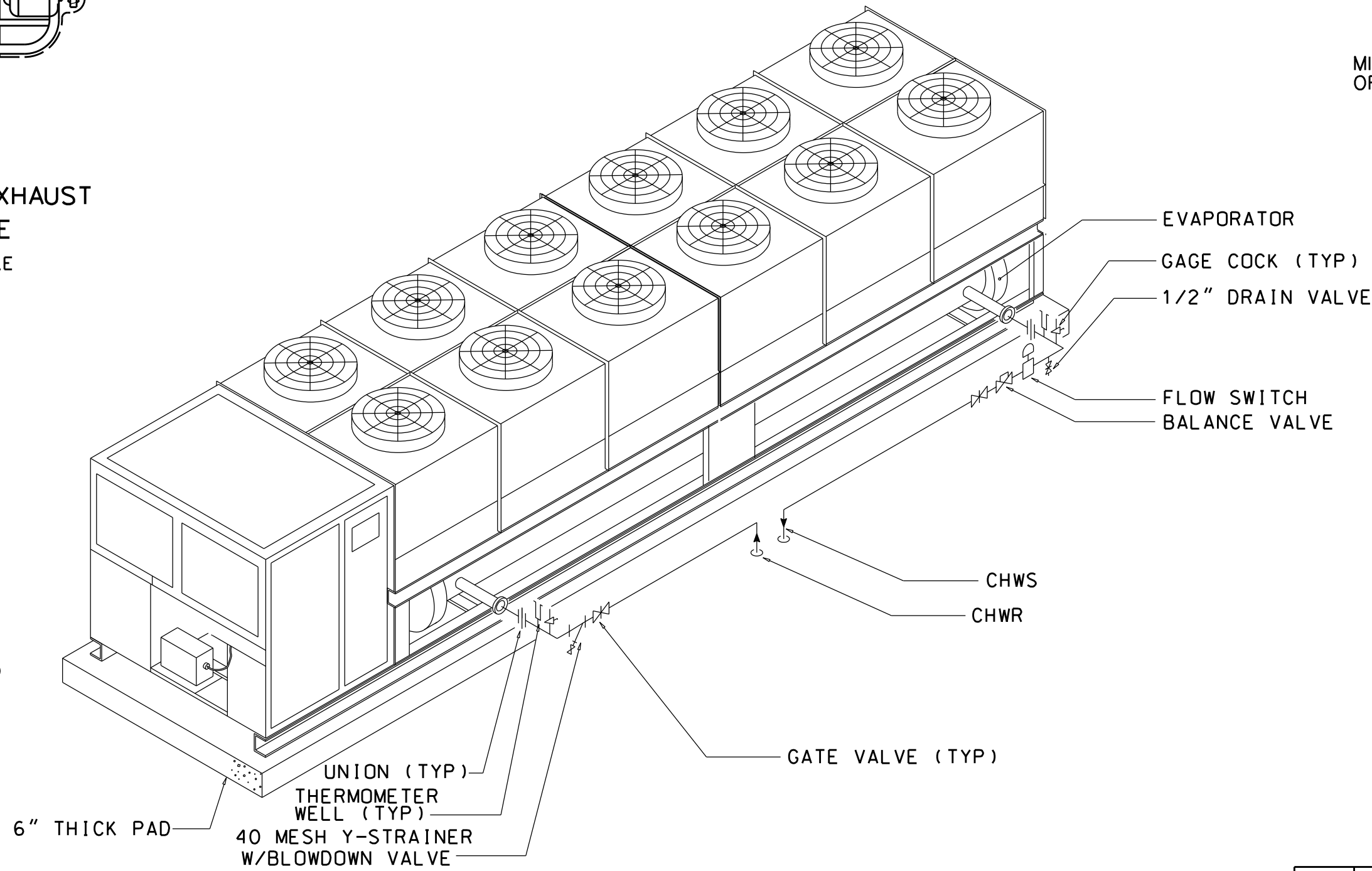
WALL FAN - EXHAUST DIRECT DRIVE  
NOT TO SCALE



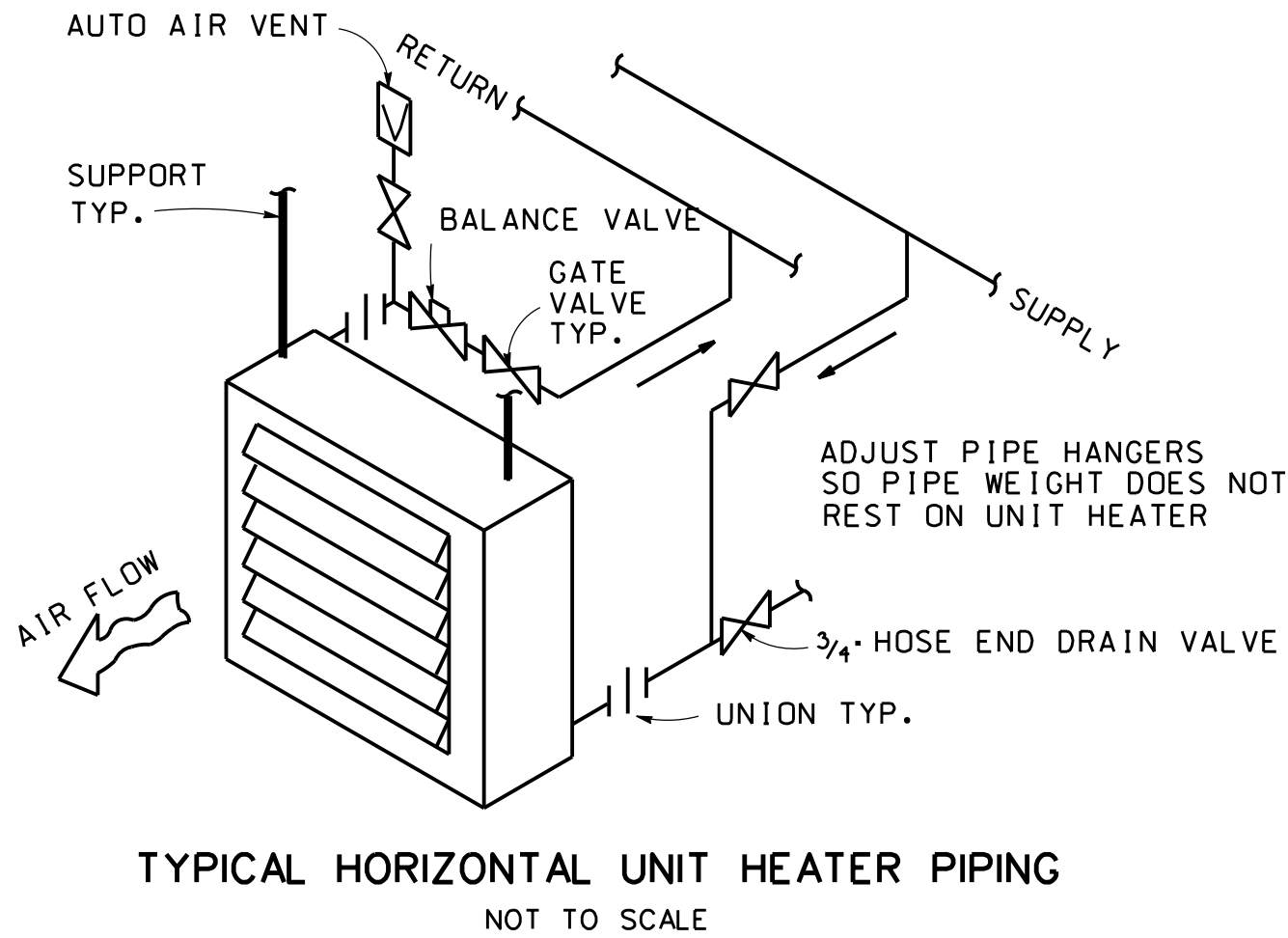
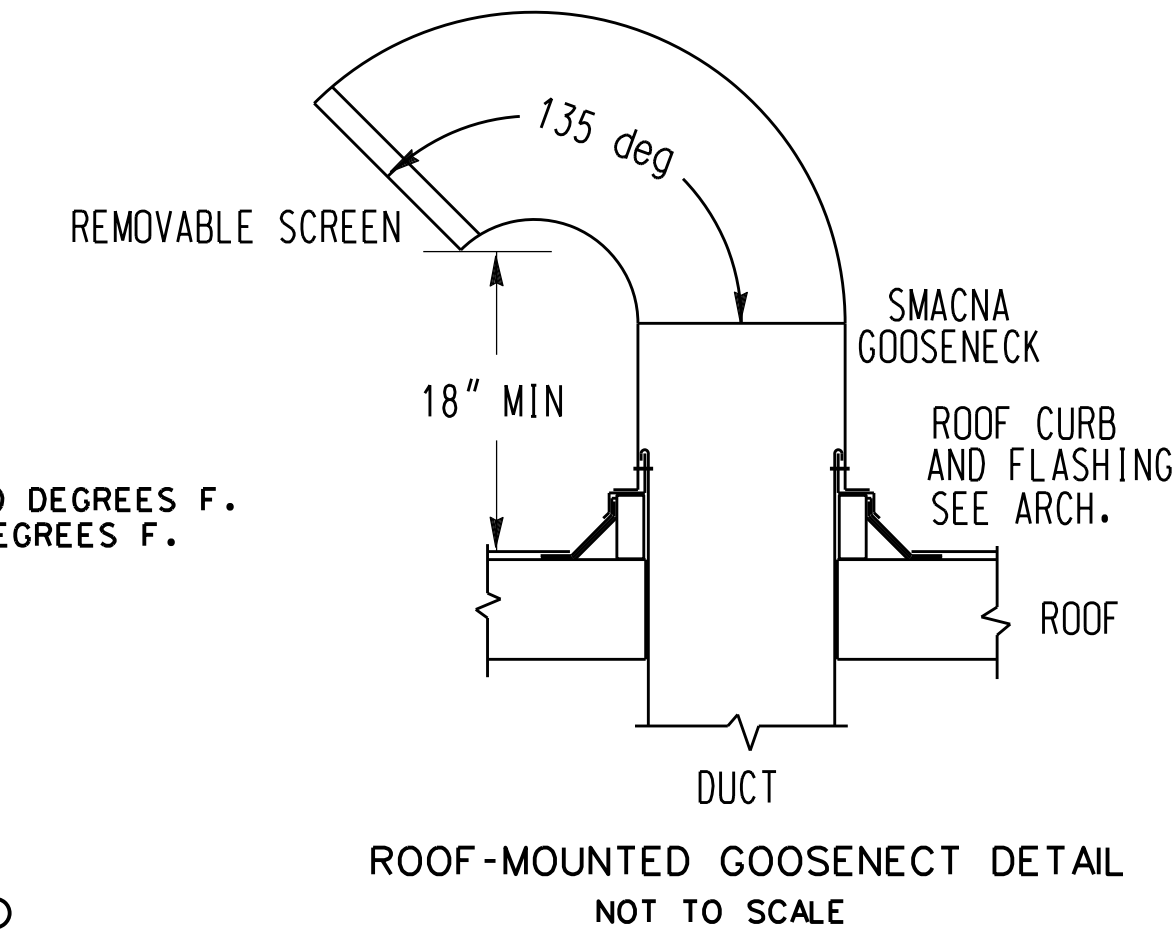
WALL FAN - EXHAUST BELT DRIVE  
NOT TO SCALE



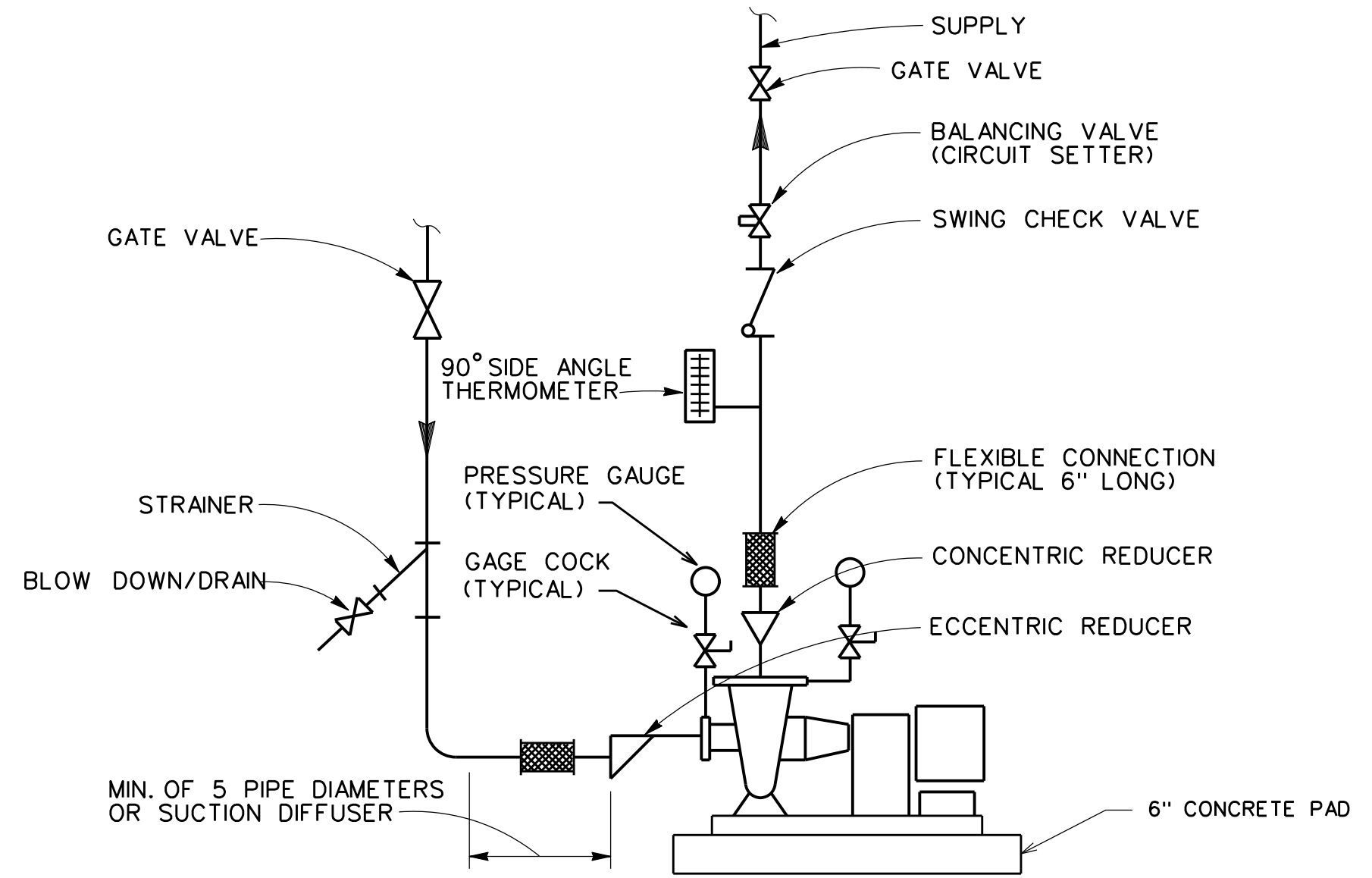
TYPICAL FOR EF-3, 5, 8, 10, 13, & 15  
ATTIC MOUNTED EXHAUST FAN DETAIL  
NOT TO SCALE



AIR COOLED CHILLER DETAIL  
NOT TO SCALE



| RETURN AIR FAN SCHEDULE                              |                      |       |                   |                                                                                                                                                                                                           |
|------------------------------------------------------|----------------------|-------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SYMBOL                                               | AREA SERVED          | CFM   | E.S.P. (IN. W.C.) | REMARKS                                                                                                                                                                                                   |
| RAF-1<br>RAF-2<br>RAF-4<br>RAF-9<br>RAF-10<br>RAF-12 | RETURN AIR FOR AHU'S | 6700  | 1.5               | IN-LINE, DUCT-MOUNTED, AXIAL-FLOW, VARIABLE FREQUENCY DRIVE FOR AIR FLOW CONTROL. BELT-DRIVEN, INTERLOCK W/CORRESPONDING AHU. FAN MOTOR SHALL BE OF A DESIGN FOR USE IN VARIABLE SPEED DRIVE APPLICATION. |
| RAF-3<br>RAF-11                                      | RETURN AIR FOR AHU'S | 9950  | 1.7               | IN-LINE, DUCT-MOUNTED, AXIAL-FLOW, VARIABLE FREQUENCY DRIVE FOR AIR FLOW CONTROL. BELT-DRIVEN, INTERLOCK W/CORRESPONDING AHU. FAN MOTOR SHALL BE OF A DESIGN FOR USE IN VARIABLE SPEED DRIVE APPLICATION. |
| RAF-5<br>RAF-7                                       | RETURN AIR FOR AHU'S | 10650 | 1.7               | IN-LINE, DUCT-MOUNTED, AXIAL-FLOW, VARIABLE FREQUENCY DRIVE FOR AIR FLOW CONTROL. BELT-DRIVEN, INTERLOCK W/CORRESPONDING AHU. FAN MOTOR SHALL BE OF A DESIGN FOR USE IN VARIABLE SPEED DRIVE APPLICATION. |
| RAF-6<br>RAF-8                                       | RETURN AIR FOR AHU'S | 6900  | 1.5               | IN-LINE, DUCT-MOUNTED, AXIAL-FLOW, VARIABLE FREQUENCY DRIVE FOR AIR FLOW CONTROL. BELT-DRIVEN, INTERLOCK W/CORRESPONDING AHU. FAN MOTOR SHALL BE OF A DESIGN FOR USE IN VARIABLE SPEED DRIVE APPLICATION. |

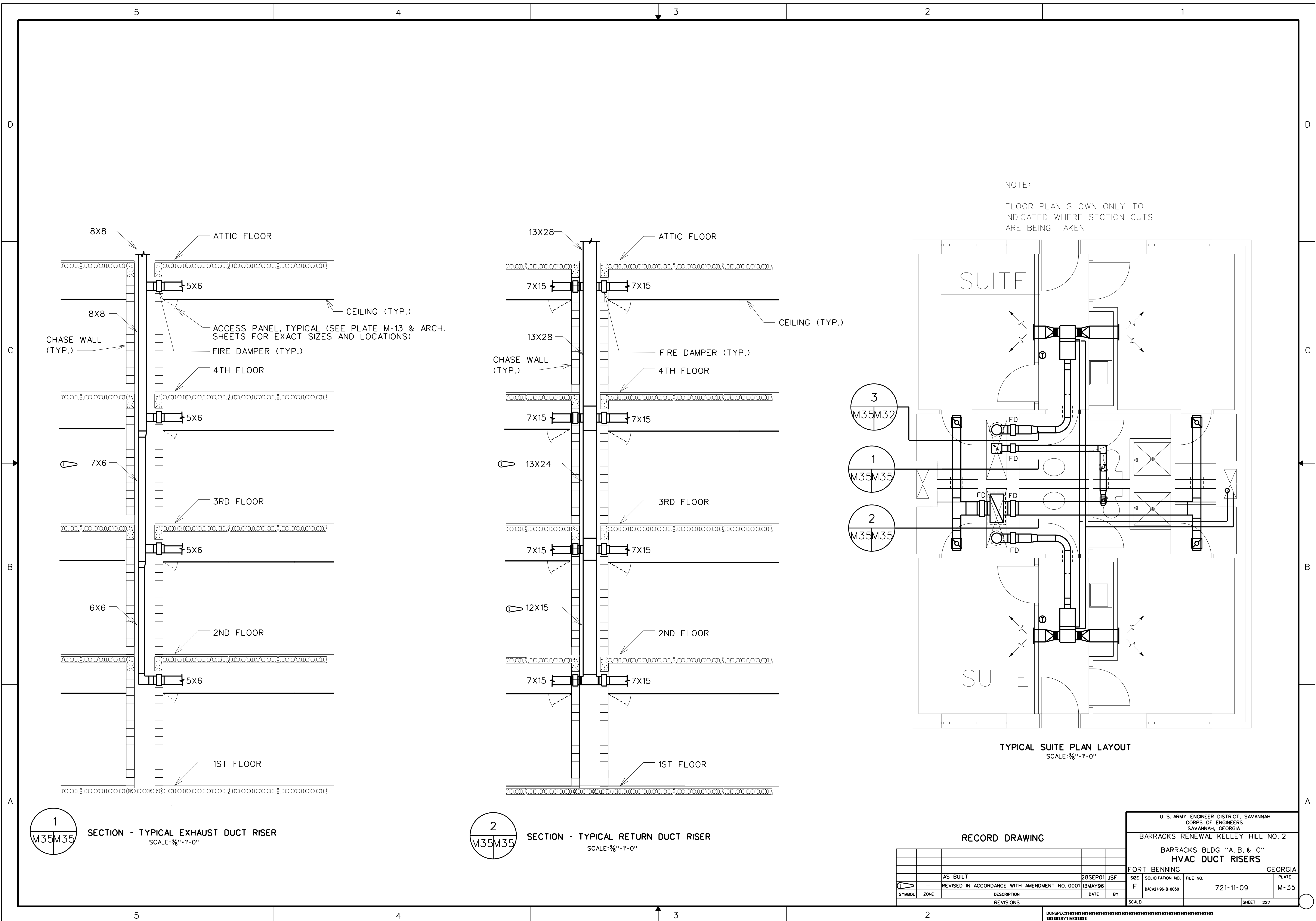


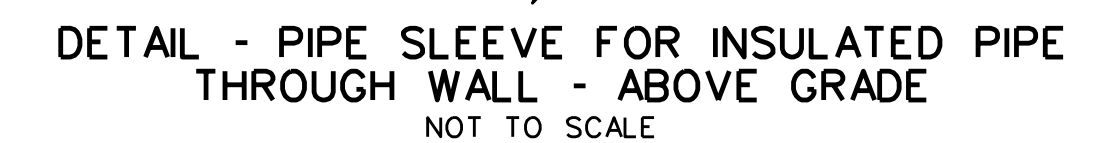
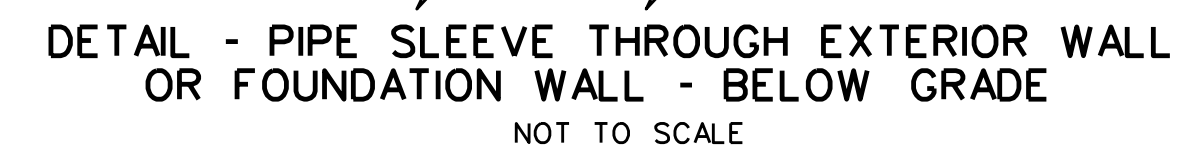
CHILLED WATER & HOT WATER PUMP PIPING SCHEMATIC  
NOT TO SCALE

RECORD DRAWING

| SYMBOL                                        | ZONE | DESCRIPTION | REVISIONS   |
|-----------------------------------------------|------|-------------|-------------|
| AS BUILT                                      |      |             | 28SEP01 JSF |
| REVISED IN ACCORDANCE WITH AMENDMENT NO. 0001 |      |             | 13MAY96     |

|                                                                                   |                  |           |       |
|-----------------------------------------------------------------------------------|------------------|-----------|-------|
| U. S. ARMY ENGINEER DISTRICT, SAVANNAH<br>CORPS OF ENGINEERS<br>SAVANNAH, GEORGIA |                  |           |       |
| BARRACKS RENEWAL KELLEY HILL NO. 2<br>BARRACKS BLDGS "A, B, & C"                  |                  |           |       |
| HVAC SCHEDULES AND DETAILS                                                        |                  |           |       |
| FORT BENNING                                                                      |                  | GEORGIA   |       |
| SIZE                                                                              | SOLICITATION NO. | FILE NO.  | PLATE |
| F                                                                                 | DACA21-96-B-0050 | 721-11-09 | M-34  |
| SCALE: NO SCALE                                                                   |                  | SHEET 226 |       |



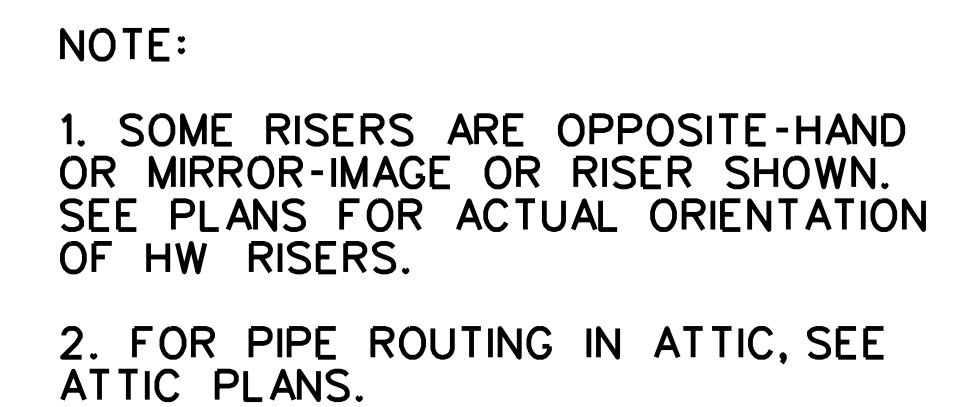


|                                                                                       |        |                                               |             |      |                                                                                                       |                           |           |       |
|---------------------------------------------------------------------------------------|--------|-----------------------------------------------|-------------|------|-------------------------------------------------------------------------------------------------------|---------------------------|-----------|-------|
| RECORD DRAWING                                                                        |        |                                               |             |      | SAVANNAH, GEORGIA<br>BARRACKS RENEWAL KELLEY HILL NO. 2<br>BARRACKS BLDGS "A, B, & C"<br>HVAC DETAILS |                           |           |       |
|                                                                                       |        |                                               |             |      | FORT BENNING                                                                                          |                           | GEORGIA   |       |
|                                                                                       |        | AS BUILT                                      | 28SEP01     | JSF  | SIZE                                                                                                  | SOLICITATION NO.          | FILE NO.  | PLATE |
|                                                                                       |        | REVISED IN ACCORDANCE WITH AMENDMENT NO. 0001 | 13MAY96     |      | F                                                                                                     | DACA21-96-B-0050          | 721-11-09 | M-36  |
|  | SYMBOL | ZONE                                          | DESCRIPTION | DATE | BY                                                                                                    | SCALE: NO SCALE SHEET 228 |           |       |

```

DGNSPEC#####
#####SYTIME#####

```



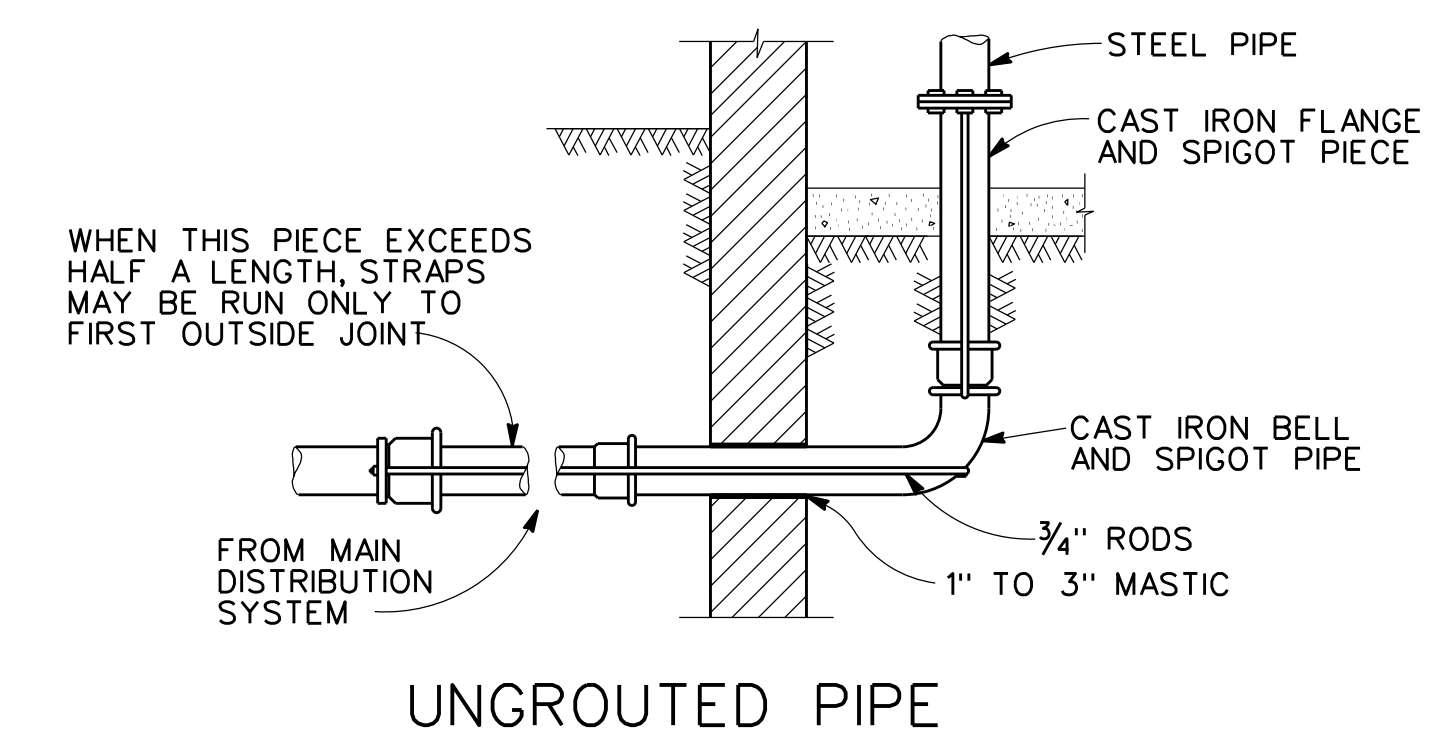
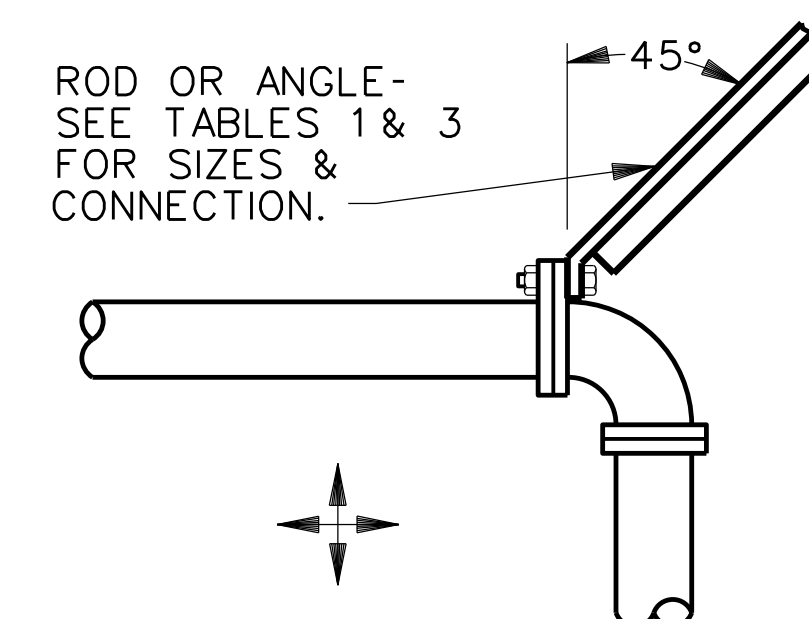
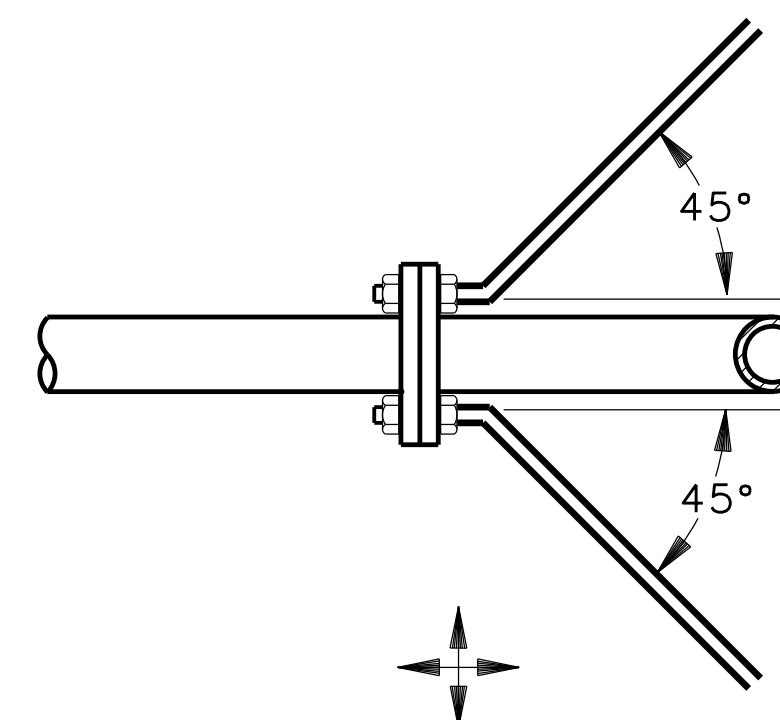
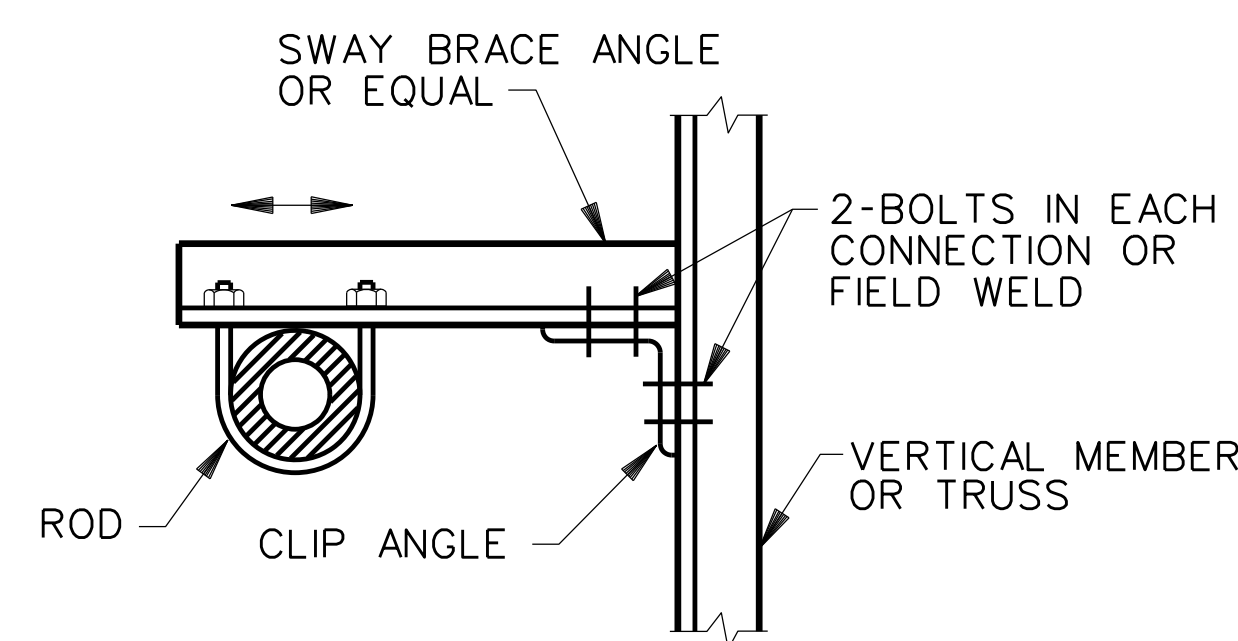
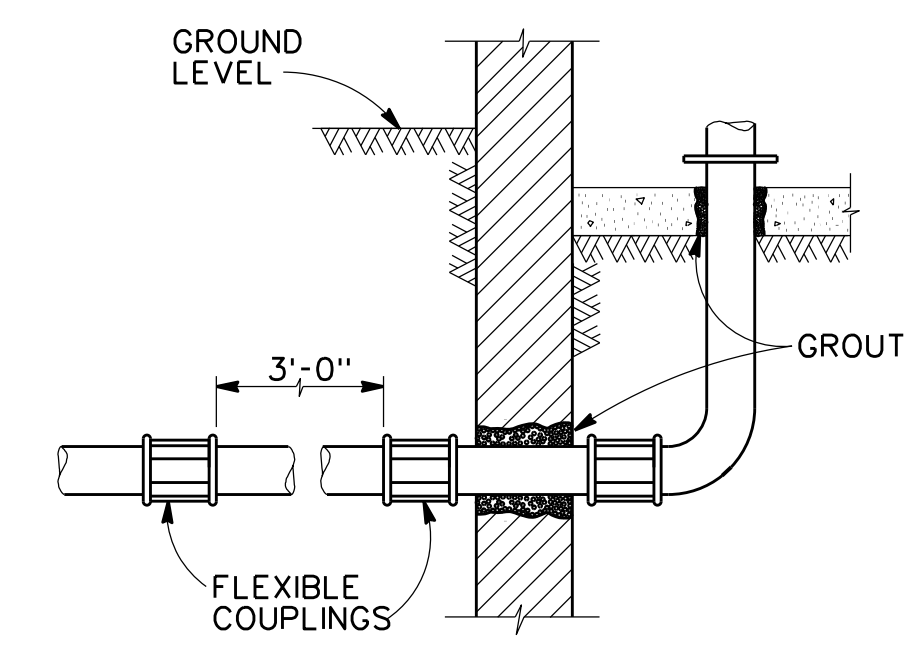
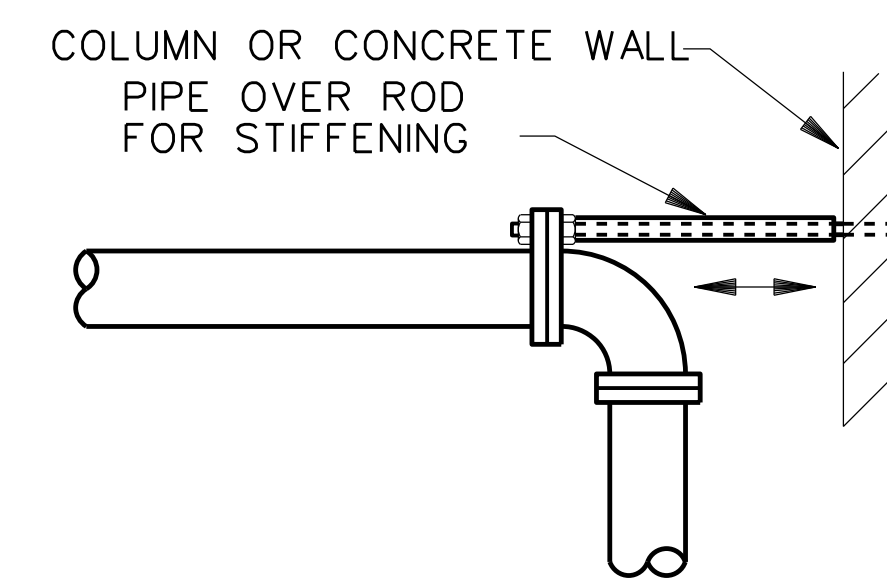
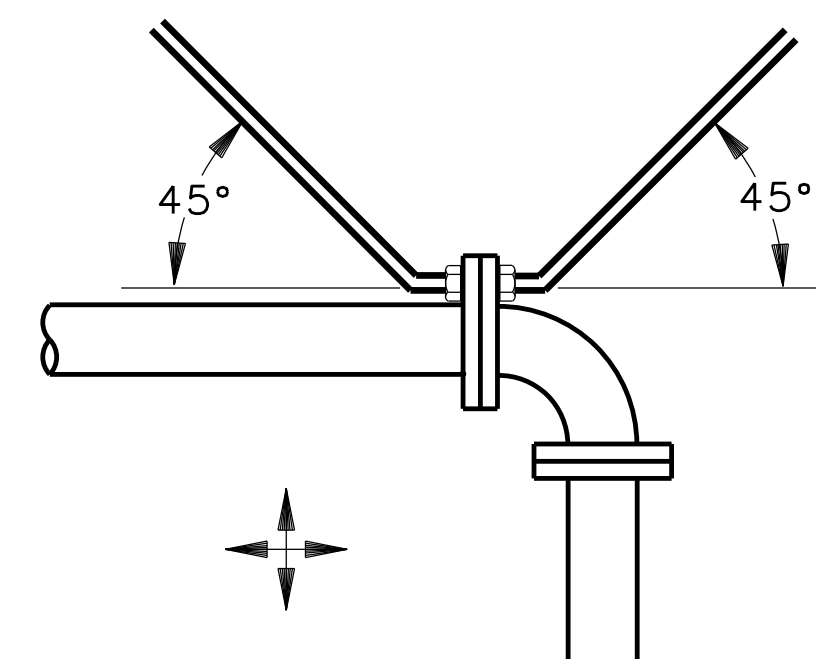
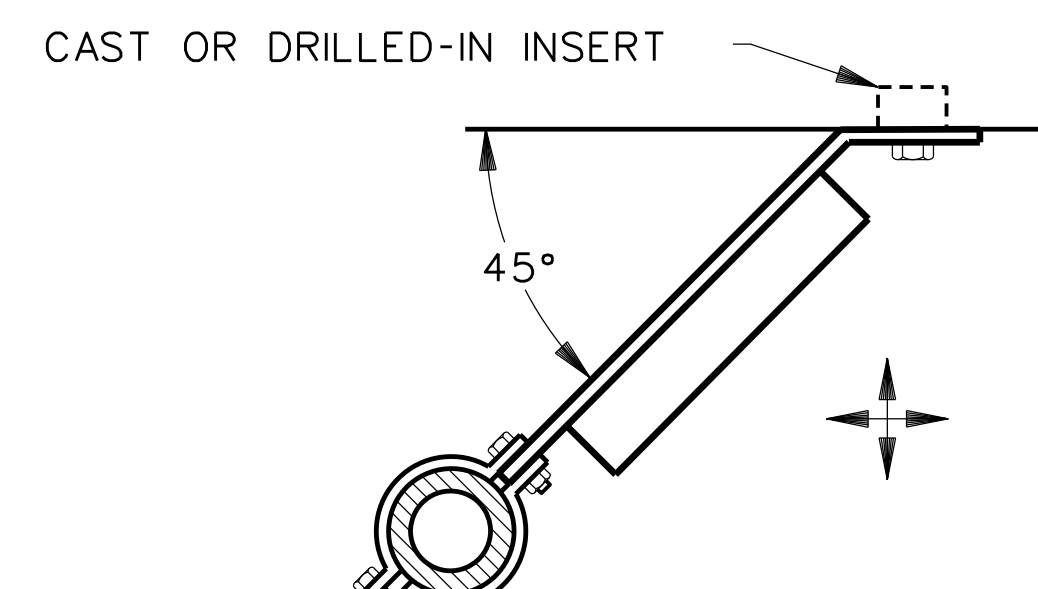
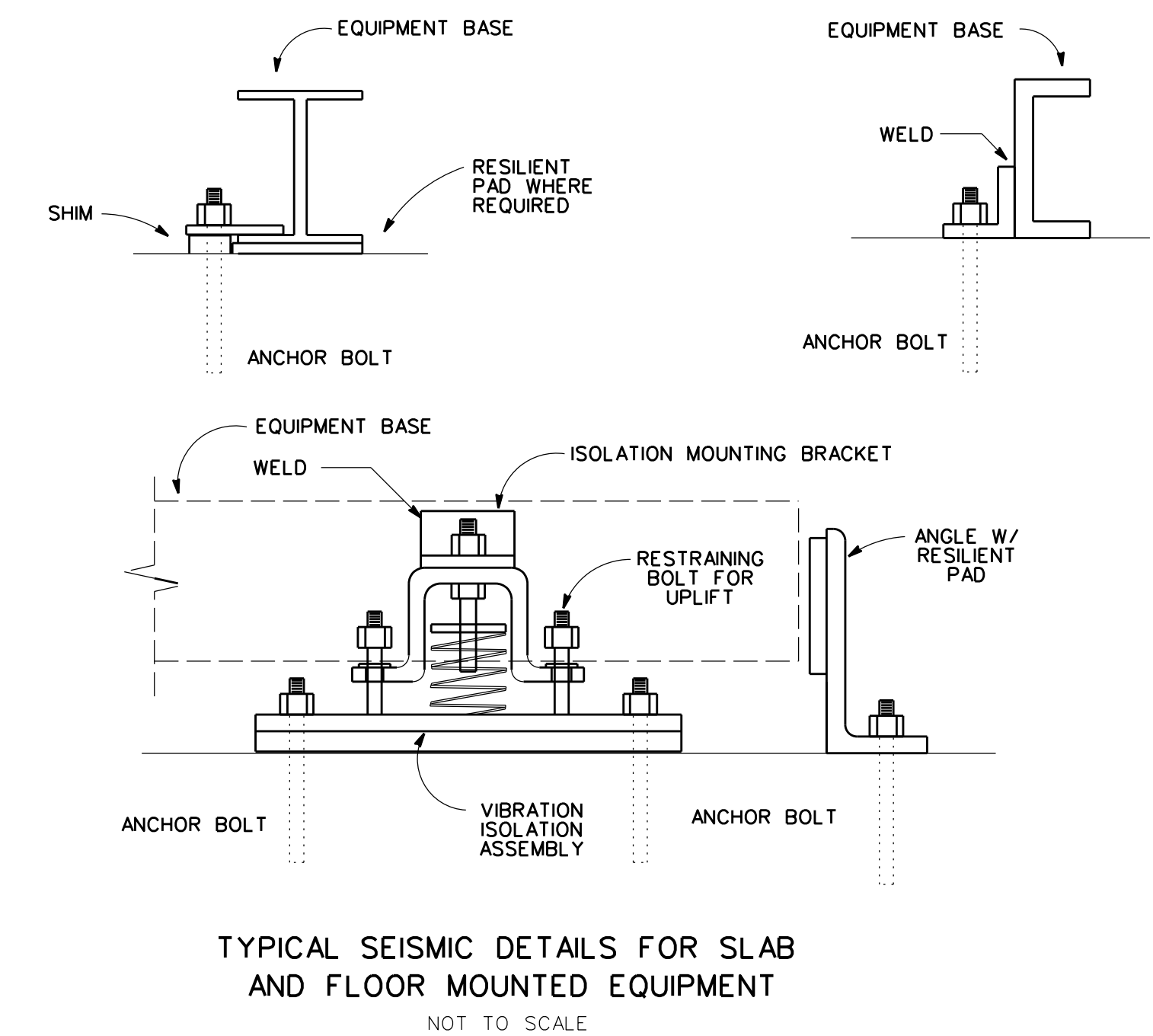
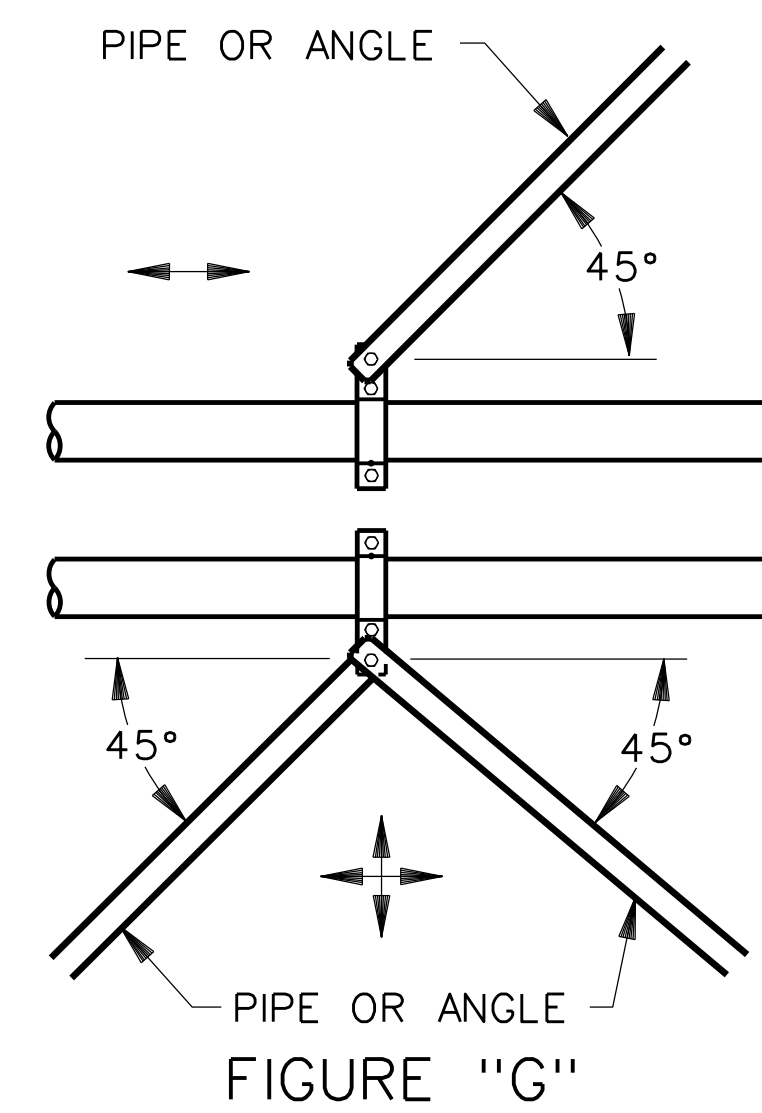
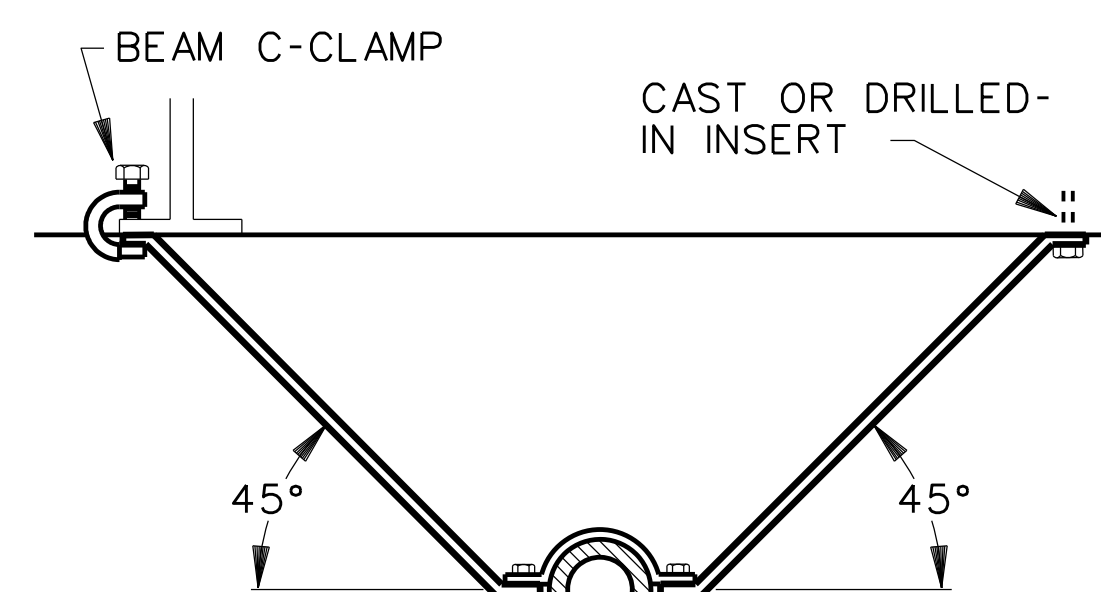
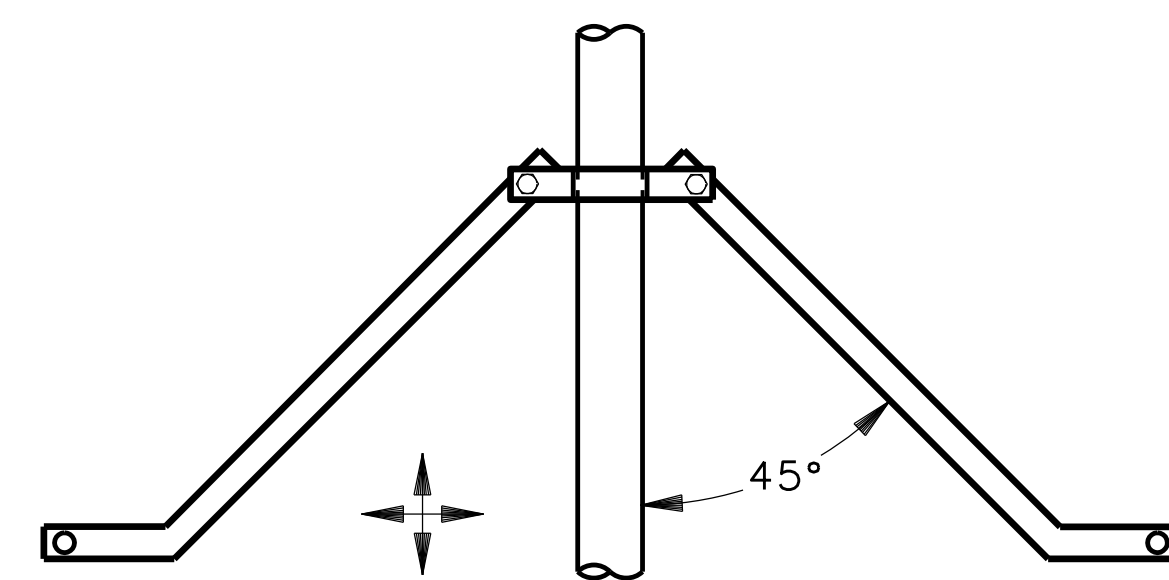
|        |      |             |         |     |
|--------|------|-------------|---------|-----|
|        |      |             |         |     |
|        |      |             |         |     |
|        |      |             |         |     |
|        |      |             |         |     |
|        |      | AS_BUILT    | 28SEP01 | JSP |
| SYMBOL | ZONE | DESCRIPTION | DATE    | B   |
|        |      | REVISIONS   |         |     |

|                                                                                   |                                     |                       |               |
|-----------------------------------------------------------------------------------|-------------------------------------|-----------------------|---------------|
| U. S. ARMY ENGINEER DISTRICT, SAVANNAH<br>CORPS OF ENGINEERS<br>SAVANNAH, GEORGIA |                                     |                       |               |
| BARRACKS RENEWAL KELLEY HILL NO. 2                                                |                                     |                       |               |
| HVAC DETAILS                                                                      |                                     |                       |               |
| FORT BENNING                                                                      |                                     |                       | GEORGIA       |
| SIZE<br>F                                                                         | SOLICITATION NO.<br>DAC21-96-8-0050 | FILE NO.<br>721-11-09 | PLATE<br>M-37 |
| SCALE: NO SCALE                                                                   |                                     | SHEET 229             |               |

```

DGNSPEC#####
#####SYTIME####

```



NOTES: RODS OR ANGLES MAY BE USED FOR SUPPORTS INTERCHANGEABLY. SEE MAXIMUM BRACING LENGTHS SHOWN IN TABLE 1 AND MINIMUM SIZES AND SPAN INTERVALS IN TABLE 3.

ARROWS INDICATE DIRECTION OF AVAILABLE FORCE RESISTANCE, TYPICAL.

## SEISMIC PIPE SUPPORT DETAILS

RECORD DRAWING

|        |      |             |         |      |                            |                                      |                       |               |
|--------|------|-------------|---------|------|----------------------------|--------------------------------------|-----------------------|---------------|
|        |      |             |         |      | BARRACKS BLDGS "A, B, & C" |                                      |                       |               |
|        |      |             |         |      | MECHANICAL SEISMIC DETAILS |                                      |                       |               |
|        |      |             |         |      | FORT BENNING               |                                      |                       | GEORGIA       |
|        |      | AS BUILT    | 28SEP01 | JSF  | SIZE<br>F                  | SOLICITATION NO.<br>DACA21-96-B-0050 | FILE NO.<br>721-11-09 | PLATE<br>M-38 |
| SYMBOL | ZONE | DESCRIPTION |         | DATE | BY                         |                                      |                       |               |
|        |      | REVISIONS   |         |      |                            |                                      |                       |               |
|        |      |             |         |      | SCALE: NO SCALE            |                                      | SHEET 2 NO            |               |

```

DGNSPEC#####
#####SYTIME####

```







## BACK PANEL LAYOUT FOR HVAC SYSTEM CONTROL PANEL

NOTES:

1. CONTROL PANEL SHALL BE CAPABLE OF ACCEPTING A CONTROLLER WHICH PROTRUDES 10 1/4 INCHES FROM THE REAR OF THE INNER DOOR AND 1 5/8 INCHES FROM THE FRONT OF THE INNER DOOR.

B-B  
(TYPICAL FOR ALL MOUNTING RAILS)

A-A

## RECORD DRAWING

|        |      |             |         |     |
|--------|------|-------------|---------|-----|
|        |      |             |         |     |
|        |      |             |         |     |
|        |      |             |         |     |
|        |      |             |         |     |
|        |      | AS_BUILT    | 28SEP01 | JSP |
| SYMBOL | ZONE | DESCRIPTION | DATE    | B   |
|        |      | REVISIONS   |         |     |

|                                                                                   |                                      |                       |               |
|-----------------------------------------------------------------------------------|--------------------------------------|-----------------------|---------------|
| U. S. ARMY ENGINEER DISTRICT, SAVANNAH<br>CORPS OF ENGINEERS<br>SAVANNAH, GEORGIA |                                      |                       |               |
| BARRACKS RENEWAL KELLEY HILL NO. 2                                                |                                      |                       |               |
| AHU BACK PANEL                                                                    |                                      |                       |               |
| FORT BENNING                                                                      |                                      |                       | GEORGIA       |
| SIZE<br>F                                                                         | SOLICITATION NO.<br>DAC421-96-8-0050 | FILE NO.<br>721-11-09 | PLATE<br>MC-4 |
| SCALE: NONE                                                                       |                                      | SHEET 255             |               |

```

DGNSPEC#####
#####SYTIME#####

```

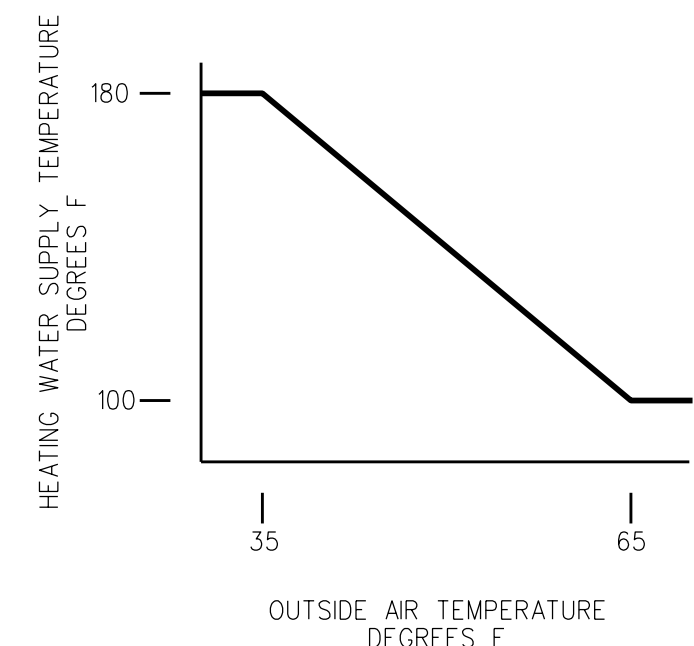
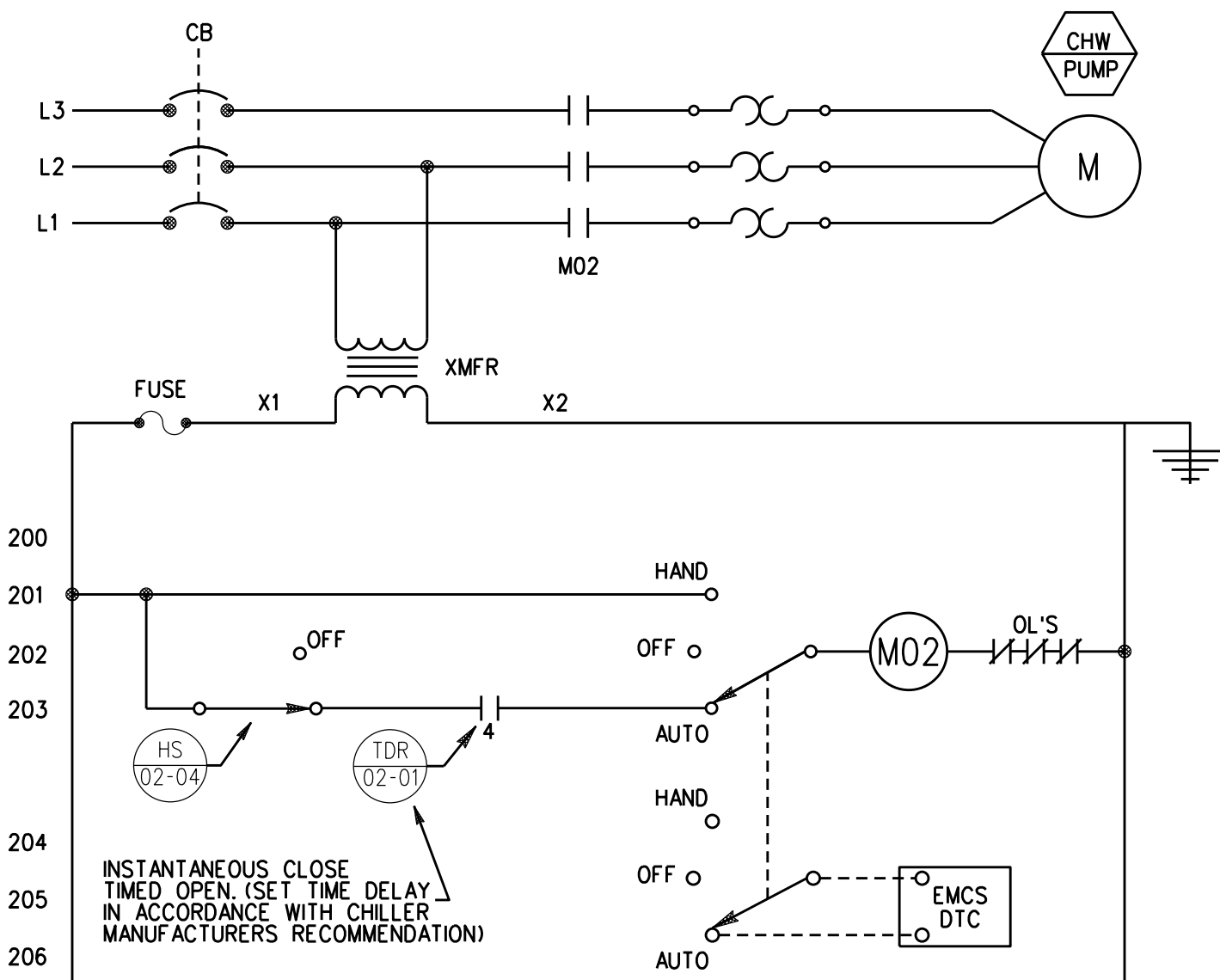


Figure 1: Control-system ladder diagram. The diagram illustrates the control logic for a system with two main control lines, H (Heating) and C (Cooling). Each line starts with an 'OFF' and 'ENABLE' switch. The H line passes through a pressure switch (PV) and a temperature controller (TC 02-01) before reaching a relay (R 02-01) for the HEATING PUMP (103). The C line passes through a pressure switch (PV) and a temperature controller (TC 02-01) before reaching a relay (R 02-02) for the CONVERTOR VALVE (IP-02-01). Both lines also branch off to other components: H to a relay (R 02-03) for the CHILLER (300) and a relay (R 02-04) for the COOLING PUMP (203); C to a relay (R 02-05) for the CHILLER (300) and a relay (R 02-06) for the COOLING PUMP (203). The diagram includes various interlocks and safety features, such as the 'REMOVE JUMPER FOR EMCS START/STOP' instruction.



## HOT-WATER PUMP STARTER

NOTE: DRAWINGS C-5, C-6, AND C-7 ARE  
TYPICAL OF ONE HYDRONIC SYSTEM.  
TOTAL NUMBER REQUIRED IS ONE EA. PER  
BARRACKS BUILDING.

NOTE : OTHER CONTROL DEVICES SUCH AS I/PS AND RELAYS ARE NOT SHOWN

RECORD DRAWING

|             |  |      |  |          |                            |            |                  |           |         |           |  |
|-------------|--|------|--|----------|----------------------------|------------|------------------|-----------|---------|-----------|--|
|             |  |      |  |          | HYDRONIC CONTROL SCHEMATIC |            |                  |           |         |           |  |
|             |  |      |  |          | FORT BENNING               |            |                  |           | GEORGIA |           |  |
|             |  |      |  |          | SIZE                       |            | SOLICITATION NO. |           |         | PLATE     |  |
|             |  |      |  |          | F                          |            | DACA21-96-8-0050 |           |         | 721-11-09 |  |
| SYMBOL      |  | ZONE |  | AS BUILT |                            | 28SEP01    |                  | JSF       |         | MC-5      |  |
| DESCRIPTION |  |      |  |          |                            | DATE       |                  | BY        |         | FILE NO.  |  |
| REVISIONS   |  |      |  |          |                            | SCALE-NONE |                  | SHEET 256 |         |           |  |

```

*****SYTIME*****

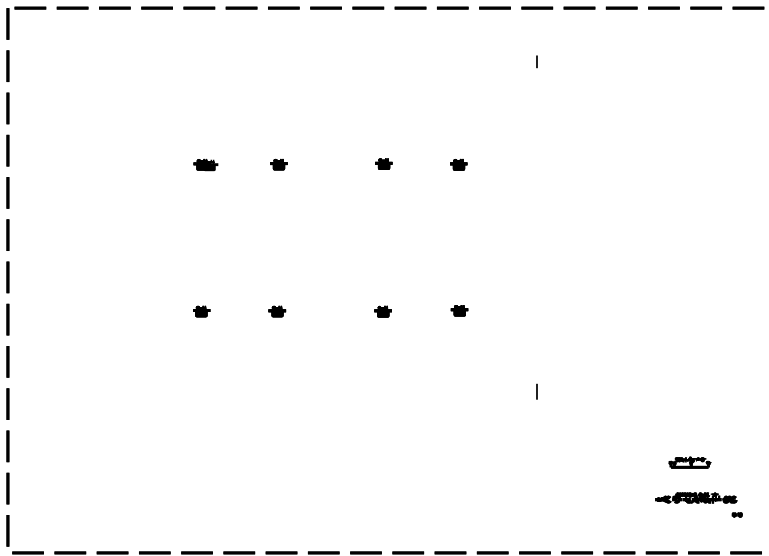
```



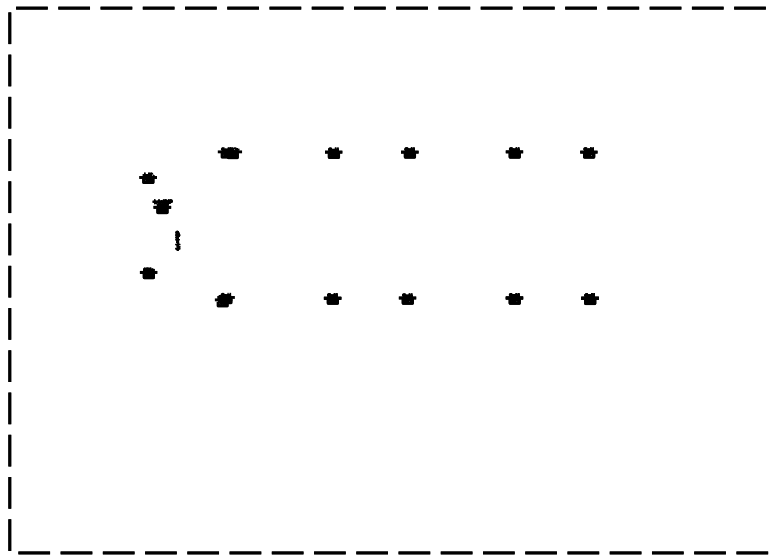




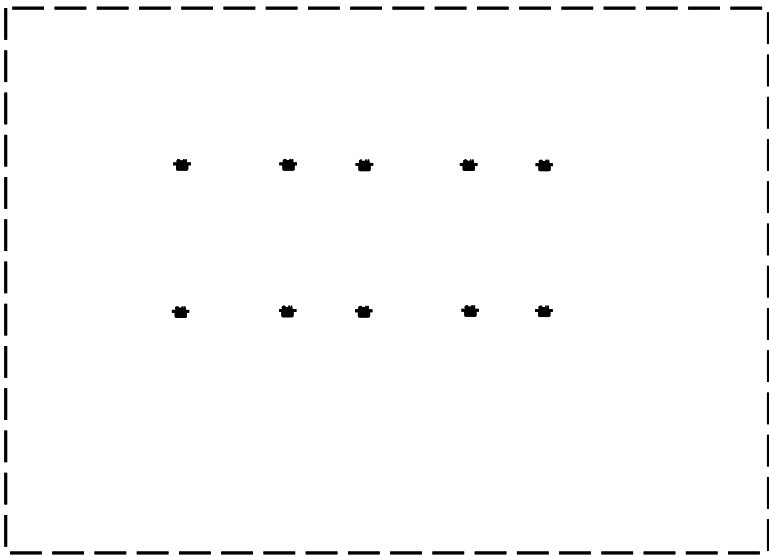
1ST FLOOR BLDG A-LEFT WING



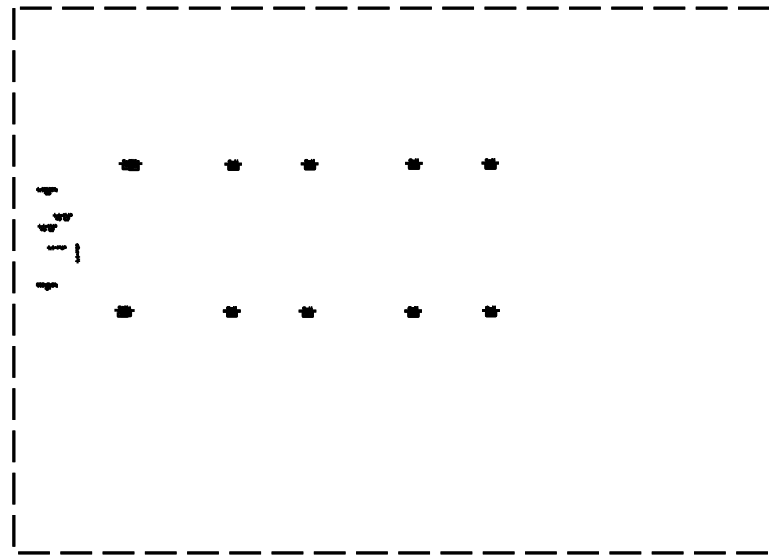
1ST FLOOR BLDG A-RIGHT WING



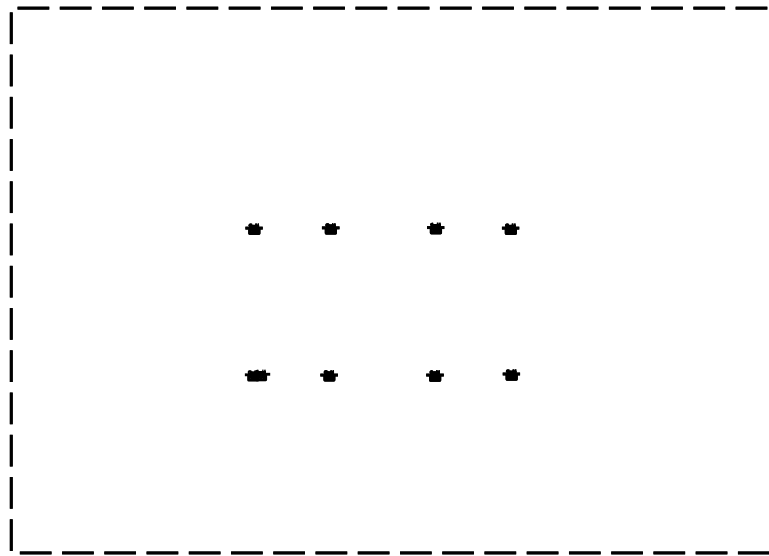
1ST FLOOR BLDG B-LEFT WING



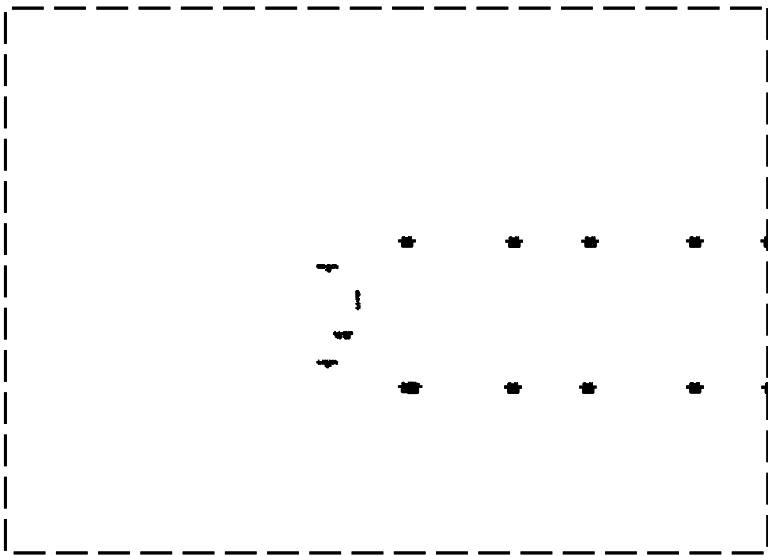
1ST FLOOR BLDG B-RIGHT WING



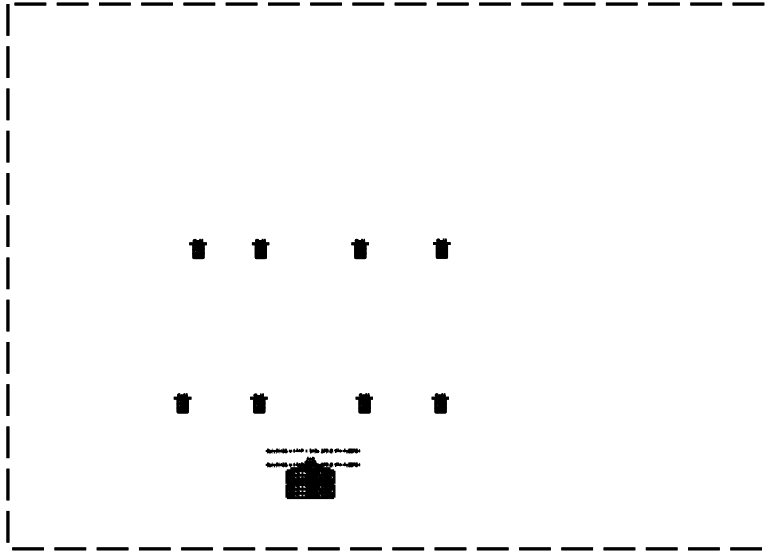
1ST FLOOR BLDG C-LEFT WING



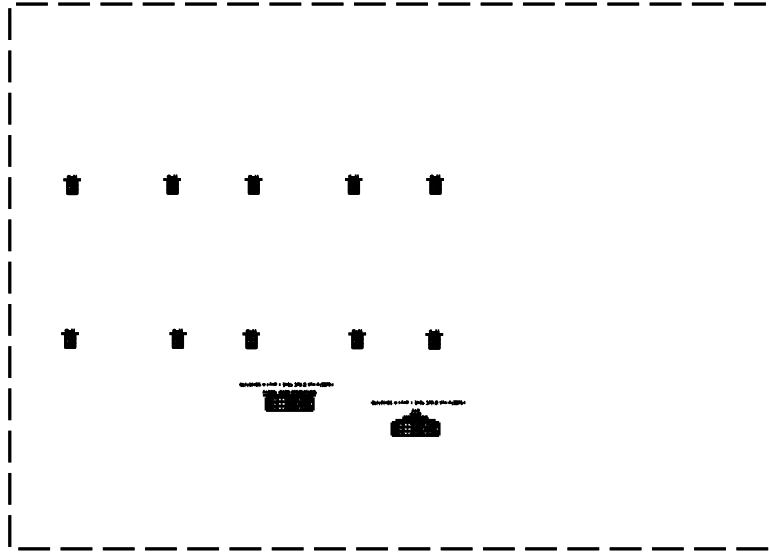
1ST FLOOR BLDG C-RIGHT WING



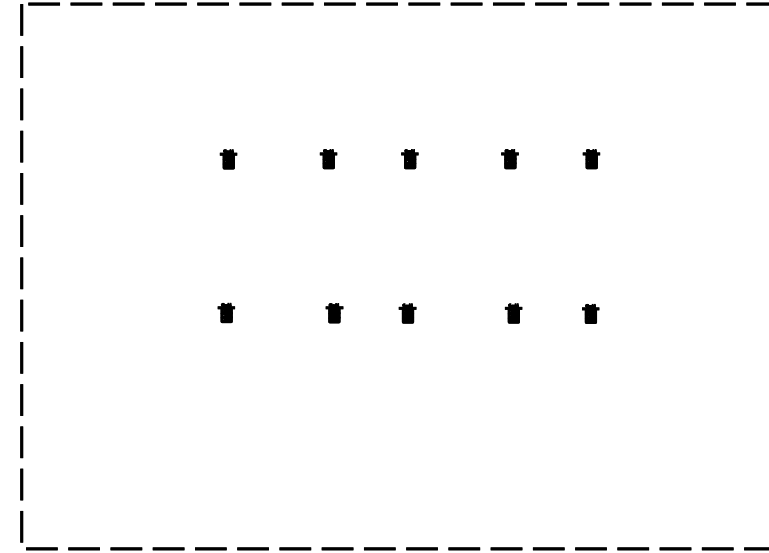
2,3,4 FLOORS BLDG A-LEFT WING



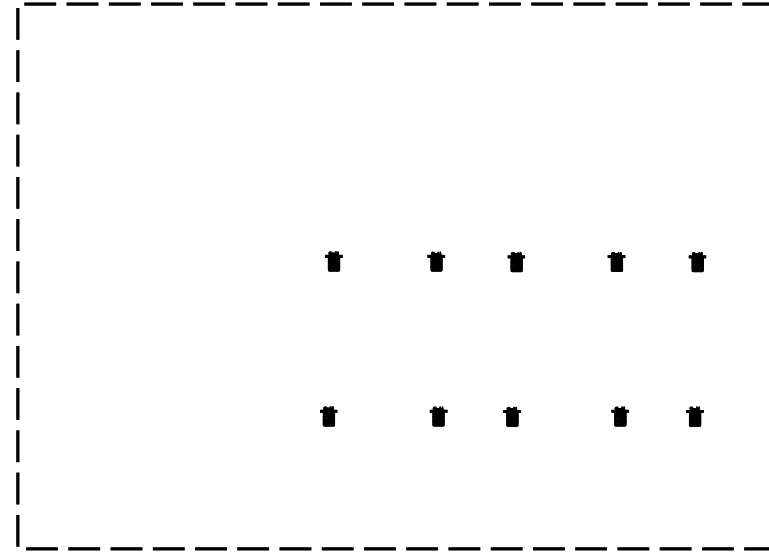
2,3,4 FLOORS BLDG A-RIGHT WING



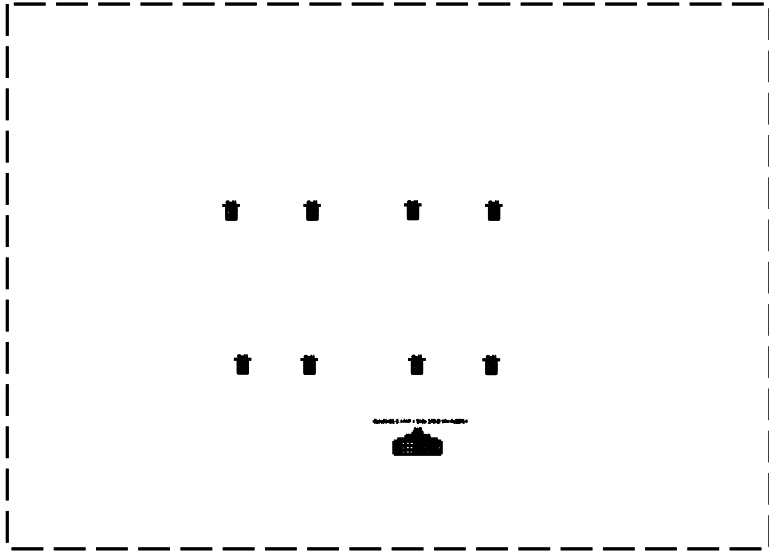
2,3,4 FLOORS BLDG B-LEFT WING



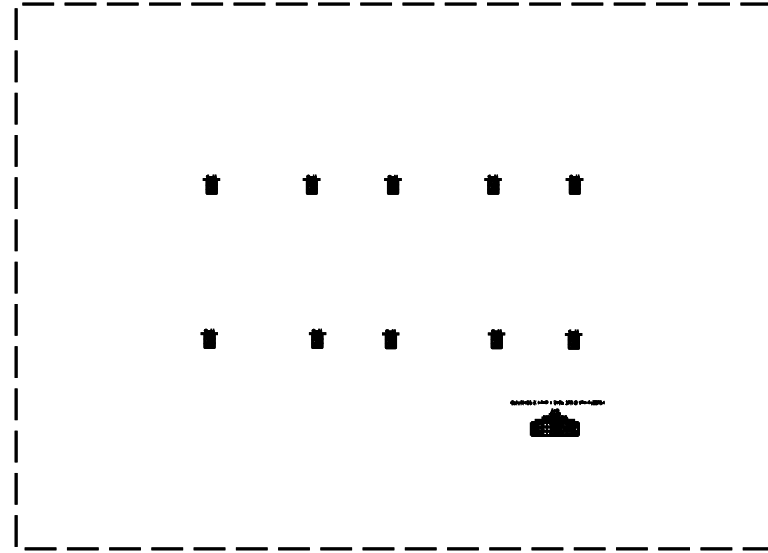
2,3,4 FLOORS BLDG B-RIGHT WING



2,3,4 FLOORS BLDG C-LEFT WING



2,3,4 FLOORS BLDG C-RIGHT WING



| PANEL                     | P1W1           | TYPE                                              | SURFACE        | MAIN BUS RATING | 225                                       |
|---------------------------|----------------|---------------------------------------------------|----------------|-----------------|-------------------------------------------|
| MAIN BREAKER: NO OF POLES | 3              | FRAME                                             | TRIP           | 225             | TYPE                                      |
| VOLTAGE                   | 208/120        | MIN. BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS) | 22,000         |                 | MB                                        |
| DEVICES                   | BRANCH CIRCUIT | PHASE LOAD                                        | BRANCH CIRCUIT | DEVICES         |                                           |
| TRIP                      | DESCRIPTION    | VOL-T-AMPS                                        | VOL-T-AMPS     | TRIP            |                                           |
| AMPS                      | NO             | PHASE A PHASE B PHASE C                           | NO             | AMPS            | DESCRIPTION                               |
| 20.1                      | SPARE          | 1500 1500                                         | 2              | 1500            | SPARE                                     |
| 20.1                      | LIT 107        | 750 3                                             | 4              | 750             | LIT 107                                   |
| 20.1                      | LIT 108        | 750 3                                             | 4              | 750             | LIT 108                                   |
| 20.1                      | RECEIPT 107    | 1260 7                                            | 2520           | 1500            | RECEIPT 107                               |
| 20.1                      | RECEIPT 108    | 1260 9                                            | 2520           | 1500            | RECEIPT 108                               |
| 20.1                      | APPLANCE 107   | 1200 11                                           | 2400           | 12              | APPLANCE 107                              |
| 20.1                      | APPLANCE 108   | 1200 13                                           | 2400           | 14              | APPLANCE 108                              |
| 20.1                      | RECEIPT 109    | 1260 15                                           | 2520           | 16              | RECEIPT 109                               |
| 20.1                      | RECEIPT 110    | 1260 17                                           | 2520           | 18              | RECEIPT 110                               |
| 20.1                      | APPLANCE 109   | 1200 19                                           | 2400           | 20              | APPLANCE 109                              |
| 20.1                      | APPLANCE 110   | 1200 21                                           | 2400           | 22              | APPLANCE 110                              |
| 20.1                      | VAV SW         | 1500 23                                           | 2500           | 24              | SPARE                                     |
| 20.1                      | SPACE          | 25                                                | 26             | SPACE           |                                           |
| 20.1                      | SPACE          | 27                                                | 28             | SPACE           |                                           |
| 20.1                      | SPACE          | 29                                                | 30             | SPACE           |                                           |
| 20.1                      | SPACE          | 31                                                | 32             | SPACE           |                                           |
| 20.1                      | SPACE          | 33                                                | 34             | SPACE           |                                           |
| 20.1                      | SPACE          | 35                                                | 36             | SPACE           |                                           |
| 20.1                      | SPACE          | 37                                                | 38             | SPACE           |                                           |
| 20.1                      | SPACE          | 39                                                | 40             | SPACE           |                                           |
| 20.1                      | SPACE          | 41                                                | 42             | SPACE           |                                           |
| TOTAL                     |                | 8820                                              | 8940           | 8920            | CONNECTED 26,680 KVA<br>DEMAND 18,000 KVA |

| PANEL                     | P1W2           | TYPE                                              | SURFACE        | MAIN BUS RATING | 225                                       |
|---------------------------|----------------|---------------------------------------------------|----------------|-----------------|-------------------------------------------|
| MAIN BREAKER: NO OF POLES | 3              | FRAME                                             | TRIP           | 225             | TYPE                                      |
| VOLTAGE                   | 208/120        | MIN. BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS) | 22,000         |                 | MB                                        |
| DEVICES                   | BRANCH CIRCUIT | PHASE LOAD                                        | BRANCH CIRCUIT | DEVICES         |                                           |
| TRIP                      | DESCRIPTION    | VOL-T-AMPS                                        | VOL-T-AMPS     | TRIP            |                                           |
| AMPS                      | NO             | PHASE A PHASE B PHASE C                           | NO             | AMPS            | DESCRIPTION                               |
| 20.1                      | UNIT HEATER    | 750 3                                             | 1500           | 2               | SPARE                                     |
| 20.1                      | LIT 109        | 750 3                                             | 4              | 750             | LIT 109                                   |
| 20.1                      | RECEIPT 109    | 1260 7                                            | 2520           | 8               | RECEIPT 109                               |
| 20.1                      | RECEIPT 110    | 1260 9                                            | 2520           | 10              | RECEIPT 110                               |
| 20.1                      | APPLANCE 109   | 1200 11                                           | 2400           | 12              | APPLANCE 109                              |
| 20.1                      | APPLANCE 110   | 1200 13                                           | 2400           | 14              | APPLANCE 110                              |
| 20.1                      | RECEIPT 111    | 1260 15                                           | 2520           | 16              | RECEIPT 111                               |
| 20.1                      | RECEIPT 112    | 1260 17                                           | 2520           | 18              | RECEIPT 112                               |
| 20.1                      | APPLANCE 111   | 1200 19                                           | 2400           | 20              | APPLANCE 111                              |
| 20.1                      | APPLANCE 112   | 1200 21                                           | 2400           | 22              | APPLANCE 112                              |
| 20.1                      | VAV NW         | 1200 23                                           | 2400           | 24              | SPARE                                     |
| 20.1                      | SPACE          | 25                                                | 26             | SPACE           |                                           |
| 20.1                      | SPACE          | 27                                                | 28             | SPACE           |                                           |
| 20.1                      | SPACE          | 29                                                | 30             | SPACE           |                                           |
| 20.1                      | SPACE          | 31                                                | 32             | SPACE           |                                           |
| 20.1                      | SPACE          | 33                                                | 34             | SPACE           |                                           |
| 20.1                      | SPACE          | 35                                                | 36             | SPACE           |                                           |
| 20.1                      | SPACE          | 37                                                | 38             | SPACE           |                                           |
| 20.1                      | SPACE          | 39                                                | 40             | SPACE           |                                           |
| 20.1                      | SPACE          | 41                                                | 42             | SPACE           |                                           |
| TOTAL                     |                | 8790                                              | 8940           | 8820            | CONNECTED 26,550 KVA<br>DEMAND 18,000 KVA |

| PANEL                     | P1E1           | TYPE                                              | SURFACE        | MAIN BUS RATING | 225                                       |
|---------------------------|----------------|---------------------------------------------------|----------------|-----------------|-------------------------------------------|
| MAIN BREAKER: NO OF POLES | 3              | FRAME                                             | TRIP           | 225             | TYPE                                      |
| VOLTAGE                   | 208/120        | MIN. BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS) | 22,000         |                 | MB                                        |
| DEVICES                   | BRANCH CIRCUIT | PHASE LOAD                                        | BRANCH CIRCUIT | DEVICES         |                                           |
| TRIP                      | DESCRIPTION    | VOL-T-AMPS                                        | VOL-T-AMPS     | TRIP            |                                           |
| AMPS                      | NO             | PHASE A PHASE B PHASE C                           | NO             | AMPS            | DESCRIPTION                               |
| 20.1                      | RMS 119-122    | 750 3                                             | 1500           | 2               | SPARE                                     |
| 20.1                      | LIT 117        | 750 3                                             | 4              | 750             | LIT 117                                   |
| 20.1                      | LIT 118        | 750 3                                             | 4              | 750             | LIT 118                                   |
| 20.1                      | RECEIPT 117    | 1260 7                                            | 2520           | 8               | RECEIPT 117                               |
| 20.1                      | RECEIPT 118    | 1260 9                                            | 2520           | 10              | RECEIPT 118                               |
| 20.1                      | APPLANCE 117   | 1200 11                                           | 2400           | 12              | APPLANCE 117                              |
| 20.1                      | APPLANCE 118   | 1200 13                                           | 2400           | 14              | APPLANCE 118                              |
| 20.1                      | RECEIPT 119    | 1260 15                                           | 2520           | 16              | RECEIPT 119                               |
| 20.1                      | RECEIPT 120    | 1260 17                                           | 2520           | 18              | RECEIPT 120                               |
| 20.1                      | APPLANCE 119   | 1200 19                                           | 2400           | 20              | APPLANCE 119                              |
| 20.1                      | APPLANCE 120   | 1200 21                                           | 2400           | 22              | APPLANCE 120                              |
| 20.1                      | VAV SE         | 1200 23                                           | 2400           | 24              | SPARE                                     |
| 20.1                      | SPACE          | 25                                                | 26             | SPACE           |                                           |
| 20.1                      | SPACE          | 27                                                | 28             | SPACE           |                                           |
| 20.1                      | SPACE          | 29                                                | 30             | SPACE           |                                           |
| 20.1                      | SPACE          | 31                                                | 32             | SPACE           |                                           |
| 20.1                      | SPACE          | 33                                                | 34             | SPACE           |                                           |
| 20.1                      | SPACE          | 35                                                | 36             | SPACE           |                                           |
| 20.1                      | SPACE          | 37                                                | 38             | SPACE           |                                           |
| 20.1                      | SPACE          | 39                                                | 40             | SPACE           |                                           |
| 20.1                      | SPACE          | 41                                                | 42             | SPACE           |                                           |
| TOTAL                     |                | 10080                                             | 10140          | 10080           | CONNECTED 30,300 KVA<br>DEMAND 18,000 KVA |

| PANEL                     | ELL            | TYPE                                              | SURFACE        | MAIN BUS RATING | 100                                      |
|---------------------------|----------------|---------------------------------------------------|----------------|-----------------|------------------------------------------|
| MAIN BREAKER: NO OF POLES | 3              | FRAME                                             | TRIP           | 225             | TYPE                                     |
| VOLTAGE                   | 208/120        | MIN. BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS) | 22,000         |                 | MB                                       |
| DEVICES                   | BRANCH CIRCUIT | PHASE LOAD                                        | BRANCH CIRCUIT | DEVICES         |                                          |
| TRIP                      | DESCRIPTION    | VOL-T-AMPS                                        | VOL-T-AMPS     | TRIP            |                                          |
| AMPS                      | NO             | PHASE A PHASE B PHASE C                           | NO             | AMPS            | DESCRIPTION                              |
| 20.1                      | SPARE          | 1500 3                                            | 2382           | 2               | RECEIPT 121                              |
| 20.1                      | UNIT-10, UP-7  | 1500 5                                            | 2040           | 4               | SPARE                                    |
| 20.1                      | LIT 109        | 750 3                                             | 1500           | 6               | SPARE                                    |
| 20.1                      | CHMP           | 7452 7                                            | 8772           | 8               | SPARE                                    |
| 20.1                      | SPACE          | 13                                                | 14             | SPACE           |                                          |
| 20.1                      | SPACE          | 15                                                | 16             | SPACE           |                                          |
| 20.1                      | SPACE          | 17                                                | 18             | SPACE           |                                          |
| 20.1                      | SPACE          | 19                                                | 20             | SPACE           |                                          |
| 20.1                      | SPACE          | 21                                                | 22             | SPACE           |                                          |
| 20.1                      | SPACE          | 23                                                | 24             | SPACE           |                                          |
| 20.1                      | SPACE          | 25                                                | 26             | SPACE           |                                          |
| 20.1                      | SPACE          | 27                                                | 28             | SPACE           |                                          |
| 20.1                      | SPACE          | 29                                                | 30             | SPACE           |                                          |
| 20.1                      | SPACE          | 31                                                | 32             | SPACE           |                                          |
| 20.1                      | SPACE          | 33                                                | 34             | SPACE           |                                          |
| 20.1                      | SPACE          | 35                                                | 36             | SPACE           |                                          |
| 20.1                      | SPACE          | 37                                                | 38             | SPACE           |                                          |
| 20.1                      | SPACE          | 39                                                | 40             | SPACE           |                                          |
| 20.1                      | SPACE          | 41                                                | 42             | SPACE           |                                          |
| TOTAL                     |                | 3596                                              | 3507           | 3625            | CONNECTED 10,728 KVA<br>DEMAND 6,300 KVA |

| PANEL                     | MC             | TYPE                                              | SURFACE        | MAIN BUS RATING | 225                                       |
|---------------------------|----------------|---------------------------------------------------|----------------|-----------------|-------------------------------------------|
| MAIN BREAKER: NO OF POLES | 3              | FRAME                                             | TRIP           | 225             | TYPE                                      |
| VOLTAGE                   | 208/120        | MIN. BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS) | 22,000         |                 | MB                                        |
| DEVICES                   | BRANCH CIRCUIT | PHASE LOAD                                        | BRANCH CIRCUIT | DEVICES         |                                           |
| TRIP                      | DESCRIPTION    | VOL-T-AMPS                                        | VOL-T-AMPS     | TRIP            |                                           |
| AMPS                      | NO             | PHASE A PHASE B PHASE C                           | NO             | AMPS            | DESCRIPTION                               |
| 20.1                      | CONTROLS       | 1500 1                                            | 2000           | 2               | RECEIPT 121                               |
| 20.1                      | UNIT-10, UP-7  | 1500 5                                            | 2040           | 4               | SPARE                                     |
| 20.1                      | LIT 109        | 750 3                                             | 1500           | 6               | SPARE                                     |
| 20.1                      | CHMP           | 7452 7                                            | 8772           | 8               | SPARE                                     |
| 20.1                      | SPACE          | 13                                                | 14             | SPACE           |                                           |
| 20.1                      | SPACE          | 15                                                | 16             | SPACE           |                                           |
| 20.1                      | SPACE          | 17                                                | 18             | SPACE           |                                           |
| 20.1                      | SPACE          | 19                                                | 20             | SPACE           |                                           |
| 20.1                      | SPACE          | 21                                                | 22             | SPACE           |                                           |
| 20.1                      | SPACE          | 23                                                | 24             | SPACE           |                                           |
| 20.1                      | SPACE          | 25                                                | 26             | SPACE           |                                           |
| 20.1                      | SPACE          | 27                                                | 28             | SPACE           |                                           |
| 20.1                      | SPACE          | 29                                                | 30             | SPACE           |                                           |
| 20.1                      | SPACE          | 31                                                | 32             | SPACE           |                                           |
| 20.1                      | SPACE          | 33                                                | 34             | SPACE           |                                           |
| 20.1                      | SPACE          | 35                                                | 36             | SPACE           |                                           |
| 20.1                      | SPACE          | 37                                                | 38             | SPACE           |                                           |
| 20.1                      | SPACE          | 39                                                | 40             | SPACE           |                                           |
| 20.1                      | SPACE          | 41                                                | 42             | SPACE           |                                           |
| TOTAL                     |                | 12324                                             | 12364          | 12472           | CONNECTED 37,160 KVA<br>DEMAND 31,800 KVA |

| PANEL                     | MD              | TYPE                                              | SURFACE        | MAIN BUS RATING | 225                                         |
|---------------------------|-----------------|---------------------------------------------------|----------------|-----------------|---------------------------------------------|
| MAIN BREAKER: NO OF POLES | 3               | FRAME                                             | TRIP           | 225             | TYPE                                        |
| VOLTAGE                   | 208/120         | MIN. BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS) | 22,000         |                 | MB                                          |
| DEVICES                   | BRANCH CIRCUIT  | PHASE LOAD                                        | BRANCH CIRCUIT | DEVICES         |                                             |
| TRIP                      | DESCRIPTION     | VOL-T-AMPS                                        | VOL-T-AMPS     | TRIP            |                                             |
| AMPS                      | NO              | PHASE A PHASE B PHASE C                           | NO             | AMPS            | DESCRIPTION                                 |
| 20.1                      | STANDBY-PWR SYS | 1500 1                                            | 2000           | 2               | CHILLER                                     |
| 20.1                      | UNIT-10, UP-7   | 1500 5                                            | 2040           | 4               | ELEVATOR                                    |
| 20.1                      | LIT 109         | 750 3                                             | 1500           | 6               | ELEVATOR                                    |
| 20.1                      | CHMP            | 7452 7                                            | 8772           | 8               | PANEL MC                                    |
| 20.1                      | SPACE           | 13                                                | 14             | SPACE           |                                             |
| 20.1                      | SPACE           | 15                                                | 16             | SPACE           |                                             |
| 20.1                      | SPACE           | 17                                                | 18             | SPACE           |                                             |
| 20.1                      | SPACE           | 19                                                | 20             | SPACE           |                                             |
| 20.1                      | SPACE           | 21                                                | 22             | SPACE           |                                             |
| 20.1                      | SPACE           | 23                                                | 24             | SPACE           |                                             |
| 20.1                      | SPACE           | 25                                                | 26             | SPACE           |                                             |
| 20.1                      | SPACE           | 27                                                | 28             | SPACE           |                                             |
| 20.1                      | SPACE           | 29                                                | 30             | SPACE           |                                             |
| 20.1                      | SPACE           | 31                                                | 32             | SPACE           |                                             |
| 20.1                      | SPACE           | 33                                                | 34             | SPACE           |                                             |
| 20.1                      | SPACE           | 35                                                | 36             | SPACE           |                                             |
| 20.1                      | SPACE           | 37                                                | 38             | SPACE           |                                             |
| 20.1                      | SPACE           | 39                                                | 40             | SPACE           |                                             |
| 20.1                      | SPACE           | 41                                                | 42             | SPACE           |                                             |
| TOTAL                     |                 | 279862                                            | 286930         | 284640          | CONNECTED 851,432 KVA<br>DEMAND 582,000 KVA |

| PANEL                     | P1E2           | TYPE                                              | SURFACE        | MAIN BUS RATING | 225                                       |
|---------------------------|----------------|---------------------------------------------------|----------------|-----------------|-------------------------------------------|
| MAIN BREAKER: NO OF POLES | 3              | FRAME                                             | TRIP           | 225             | TYPE                                      |
| VOLTAGE                   | 208/120        | MIN. BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS) | 22,000         |                 | MB                                        |
| DEVICES                   | BRANCH CIRCUIT | PHASE LOAD                                        | BRANCH CIRCUIT | DEVICES         |                                           |
| TRIP                      | DESCRIPTION    | VOL-T-AMPS                                        | VOL-T-AMPS     | TRIP            |                                           |
| AMPS                      | NO             | PHASE A PHASE B PHASE C                           | NO             | AMPS            | DESCRIPTION                               |
| 20.1                      | RECEIPT 118    | 1260 7                                            | 2520           | 8               | RECEIPT 118                               |
| 20.1                      | RECEIPT 119    | 1260 9                                            | 2520           | 10              | RECEIPT 119                               |
| 20.1                      | APPLANCE 118   | 1200 11                                           | 2400           | 12              | APPLANCE 118                              |
| 20.1                      | APPLANCE 119   | 1200 13                                           | 2400           | 14              | APPLANCE 119                              |
| 20.1                      | RECEIPT 120    | 1260 15                                           | 2520           | 16              | RECEIPT 120                               |
| 20.1                      | RECEIPT 121    | 1260 17                                           | 2520           | 18              | RECEIPT 121                               |
| 20.1                      | APPLANCE 120   | 1200 19                                           | 2400           | 20              | APPLANCE 120                              |
| 20.1                      | APPLANCE 121   | 1200 21                                           | 2400           | 22              | APPLANCE 121                              |
| 20.1                      | VAV NE         | 1500 23                                           | 2500           | 24              | SPARE                                     |
| 20.1                      | SPACE          | 25                                                | 26             | SPACE           |                                           |
| 20.1                      | SPACE          | 27                                                | 28             | SPACE           |                                           |
| 20.1                      | SPACE          | 29                                                | 30             | SPACE           |                                           |
| 20.1                      | SPACE          | 31                                                | 32             | SPACE           |                                           |
| 20.1                      | SPACE          | 33                                                | 34             | SPACE           |                                           |
| 20.1                      | SPACE          | 35                                                | 36             | SPACE           |                                           |
| 20.1                      | SPACE          | 37                                                | 38             | SPACE           |                                           |
| 20.1                      | SPACE          | 39                                                | 40             | SPACE           |                                           |
| 20.1                      | SPACE          | 41                                                | 42             | SPACE           |                                           |
| TOTAL                     |                | 9040                                              | 8940           | 9120            | CONNECTED 27,100 KVA<br>DEMAND 18,000 KVA |

| PANEL                     | P2W1           | TYPE                                              | SURFACE        | MAIN BUS RATING | 225                                       |
|---------------------------|----------------|---------------------------------------------------|----------------|-----------------|-------------------------------------------|
| MAIN BREAKER: NO OF POLES | 3              | FRAME                                             | TRIP           | 225             | TYPE                                      |
| VOLTAGE                   | 208/120        | MIN. BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS) | 22,000         |                 | MB                                        |
| DEVICES                   | BRANCH CIRCUIT | PHASE LOAD                                        | BRANCH CIRCUIT | DEVICES         |                                           |
| TRIP                      | DESCRIPTION    | VOL-T-AMPS                                        | VOL-T-AMPS     | TRIP            |                                           |
| AMPS                      | NO             | PHASE A PHASE B PHASE C                           | NO             | AMPS            | DESCRIPTION                               |
| 20.1                      | RECEIPT 207    | 1260 7                                            | 2520           | 8               | RECEIPT 207                               |
| 20.1                      | RECEIPT 208    | 1260 9                                            | 2520           | 10              | RECEIPT 208                               |
| 20.1                      | APPLANCE 207   | 1200 11                                           | 2400           | 12              | APPLANCE 207                              |
| 20.1                      | APPLANCE 208   | 1200 13                                           | 2400           | 14              | APPLANCE 208                              |
| 20.1                      | RECEIPT 209    | 1260 15                                           | 2520           | 16              | RECEIPT 209                               |
| 20.1                      | RECEIPT 210    | 1260 17                                           | 2520           | 18              | RECEIPT 210                               |
| 20.1                      | APPLANCE 209   | 1200 19                                           | 2400           | 20              | APPLANCE 209                              |
| 20.1                      | APPLANCE 210   | 1200 21                                           | 2400           | 22              | APPLANCE 210                              |
| 20.1                      | VAV SW         | 1500 23                                           | 2500           | 24              | SPARE                                     |
| 20.1                      | SPACE          | 25                                                | 26             | SPACE           |                                           |
| 20.1                      | SPACE          | 27                                                | 28             | SPACE           |                                           |
| 20.1                      | SPACE          | 29                                                | 30             | SPACE           |                                           |
| 20.1                      | SPACE          | 31                                                | 32             | SPACE           |                                           |
| 20.1                      | SPACE          | 33                                                | 34             | SPACE           |                                           |
| 20.1                      | SPACE          | 35                                                | 36             | SPACE           |                                           |
| 20.1                      | SPACE          | 37                                                | 38             | SPACE           |                                           |
| 20.1                      | SPACE          | 39                                                | 40             | SPACE           |                                           |
| 20.1                      | SPACE          | 41                                                | 42             | SPACE           |                                           |
| TOTAL                     |                | 8534                                              | 8940           | 8634            | CONNECTED 26,108 KVA<br>DEMAND 18,000 KVA |

| PANEL                     | P2W2           | TYPE                                              | SURFACE        | MAIN BUS RATING | 225          |
|---------------------------|----------------|---------------------------------------------------|----------------|-----------------|--------------|
| MAIN BREAKER: NO OF POLES | 3              | FRAME                                             | TRIP           | 225             | TYPE         |
| VOLTAGE                   | 208/120        | MIN. BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS) | 22,000         |                 | MB           |
| DEVICES                   | BRANCH CIRCUIT | PHASE LOAD                                        | BRANCH CIRCUIT | DEVICES         |              |
| TRIP                      | DESCRIPTION    | VOL-T-AMPS                                        | VOL-T-AMPS     | TRIP            |              |
| AMPS                      | NO             | PHASE A PHASE B PHASE C                           | NO             | AMPS            | DESCRIPTION  |
| 20.1                      | RECEIPT 217    | 1260 7                                            | 2520           | 8               | RECEIPT 217  |
| 20.1                      | RECEIPT 218    | 1260 9                                            | 2520           | 10              | RECEIPT 218  |
| 20.1                      | APPLANCE 217   | 1200 11                                           | 2400           | 12              | APPLANCE 217 |
| 20.1                      | APPLANCE 218   | 1200 13                                           | 2400           | 14              | APPLANCE 218 |
| 20.1                      | RECEIPT 219    | 1260 15                                           | 2520           | 16              | RECEIPT 219  |
| 20.1                      | RECEIPT 220    | 1260 17                                           | 2520           | 18              | RECEIPT 220  |

|                           |                |                                                   |                |                 |            |
|---------------------------|----------------|---------------------------------------------------|----------------|-----------------|------------|
| PANEL                     | <u>P1W1</u>    | TYPE                                              | <u>SURFACE</u> | MAIN BUS RATING | <u>225</u> |
| MAIN BREAKER: NO OF POLES | <u>3</u>       | FRAME                                             | <u>225</u>     | TRIP            | <u>225</u> |
| VOLTAGE                   | <u>208/120</u> | MIN. BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS) | <u>22,000</u>  |                 |            |
|                           |                |                                                   |                |                 |            |

| DEVICE      | BRANCH CIRCUIT | PHASE LOAD | BRANCH CIRCUIT | DEVICE |
|-------------|----------------|------------|----------------|--------|
| AMPS        | TRIP           | VOL-T-AMPS | AMPS           | TRIP   |
| DESCRIPTION | NO             | NO         | DESCRIPTION    | NO     |
| NO          | NO             | NO         | NO             | NO     |
| 201         | UM-B           | 500 1      | 2              | 750    |
| 201         | LTC 109        | 750 3      | 4              | 750    |
| 201         | LTC 107        | 750 5      | 1500           | 6      |
| 201         | RECEPT 109     | 1260 7     | 2520           | 8      |
| 201         | RECEPT 109     | 1260 9     | 2520           | 10     |
| 201         | APPLANCE 109   | 1200 11    | 2400           | 12     |
| 201         | APPLANCE 109   | 1200 13    | 2400           | 14     |
| 201         | RECEPT 107     | 1260 15    | 2520           | 16     |
| 201         | APPLANCE 107   | 1200 19    | 2400           | 20     |
| 201         | APPLANCE 107   | 1200 21    | 2400           | 22     |
| 201         | VAV NW         | 1500 23    | 2760           | 24     |
| 201         | SPARE          | 500 25     | 1760           | 26     |
| 201         | SPACE          | 29         | 1200           | 28     |
| 201         | SPACE          | 31         | 1200           | 30     |
| 201         | SPACE          | 33         | 1200           | 32     |
| 201         | SPACE          | 35         | 1200           | 34     |
| 201         | SPACE          | 37         | 1200           | 36     |
| 201         | SPACE          | 39         | 1200           | 38     |
| 201         | SPACE          | 41         | 1200           | 40     |
| 201         | SPACE          | 42         | 1200           | 42     |
| 201         | SPACE          | 44         | 1200           | 44     |
| 201         | SPACE          | 46         | 1200           | 46     |
| 201         | SPACE          | 48         | 1200           | 48     |
| 201         | SPACE          | 50         | 1200           | 50     |
| 201         | SPACE          | 52         | 1200           | 52     |
| 201         | SPACE          | 54         | 1200           | 54     |
| 201         | SPACE          | 56         | 1200           | 56     |
| 201         | SPACE          | 58         | 1200           | 58     |
| 201         | SPACE          | 60         | 1200           | 60     |
| 201         | SPACE          | 62         | 1200           | 62     |
| 201         | SPACE          | 64         | 1200           | 64     |
| 201         | SPACE          | 66         | 1200           | 66     |
| 201         | SPACE          | 68         | 1200           | 68     |
| 201         | SPACE          | 70         | 1200           | 70     |
| 201         | SPACE          | 72         | 1200           | 72     |
| 201         | SPACE          | 74         | 1200           | 74     |
| 201         | SPACE          | 76         | 1200           | 76     |
| 201         | SPACE          | 78         | 1200           | 78     |
| 201         | SPACE          | 80         | 1200           | 80     |
| 201         | SPACE          | 82         | 1200           | 82     |
| 201         | SPACE          | 84         | 1200           | 84     |
| 201         | SPACE          | 86         | 1200           | 86     |
| 201         | SPACE          | 88         | 1200           | 88     |
| 201         | SPACE          | 90         | 1200           | 90     |
| 201         | SPACE          | 92         | 1200           | 92     |
| 201         | SPACE          | 94         | 1200           | 94     |
| 201         | SPACE          | 96         | 1200           | 96     |
| 201         | SPACE          | 98         | 1200           | 98     |
| 201         | SPACE          | 100        | 1200           | 100    |
| 201         | SPACE          | 102        | 1200           | 102    |
| 201         | SPACE          | 104        | 1200           | 104    |
| 201         | SPACE          | 106        | 1200           | 106    |
| 201         | SPACE          | 108        | 1200           | 108    |
| 201         | SPACE          | 110        | 1200           | 110    |
| 201         | SPACE          | 112        | 1200           | 112    |
| 201         | SPACE          | 114        | 1200           | 114    |
| 201         | SPACE          | 116        | 1200           | 116    |
| 201         | SPACE          | 118        | 1200           | 118    |
| 201         | SPACE          | 120        | 1200           | 120    |
| 201         | SPACE          | 122        | 1200           | 122    |
| 201         | SPACE          | 124        | 1200           | 124    |
| 201         | SPACE          | 126        | 1200           | 126    |
| 201         | SPACE          | 128        | 1200           | 128    |
| 201         | SPACE          | 130        | 1200           | 130    |
| 201         | SPACE          | 132        | 1200           | 132    |
| 201         | SPACE          | 134        | 1200           | 134    |
| 201         | SPACE          | 136        | 1200           | 136    |
| 201         | SPACE          | 138        | 1200           | 138    |
| 201         | SPACE          | 140        | 1200           | 140    |
| 201         | SPACE          | 142        | 1200           | 142    |
| 201         | SPACE          | 144        | 1200           | 144    |
| 201         | SPACE          | 146        | 1200           | 146    |
| 201         | SPACE          | 148        | 1200           | 148    |
| 201         | SPACE          | 150        | 1200           | 150    |
| 201         | SPACE          | 152        | 1200           | 152    |
| 201         | SPACE          | 154        | 1200           | 154    |
| 201         | SPACE          | 156        | 1200           | 156    |
| 201         | SPACE          | 158        | 1200           | 158    |
| 201         | SPACE          | 160        | 1200           | 160    |
| 201         | SPACE          | 162        | 1200           | 162    |
| 201         | SPACE          | 164        | 1200           | 164    |
| 201         | SPACE          | 166        | 1200           | 166    |
| 201         | SPACE          | 168        | 1200           | 168    |
| 201         | SPACE          | 170        | 1200           | 170    |
| 201         | SPACE          | 172        | 1200           | 172    |
| 201         | SPACE          | 174        | 1200           | 174    |
| 201         | SPACE          | 176        | 1200           | 176    |
| 201         | SPACE          | 178        | 1200           | 178    |
| 201         | SPACE          | 180        | 1200           | 180    |
| 201         | SPACE          | 182        | 1200           | 182    |
| 201         | SPACE          | 184        | 1200           | 184    |
| 201         | SPACE          | 186        | 1200           | 186    |
| 201         | SPACE          | 188        | 1200           | 188    |
| 201         | SPACE          | 190        | 1200           | 190    |
| 201         | SPACE          | 192        | 1200           | 192    |
| 201         | SPACE          | 194        | 1200           | 194    |
| 201         | SPACE          | 196        | 1200           | 196    |
| 201         | SPACE          | 198        | 1200           | 198    |
| 201         | SPACE          | 200        | 1200           | 200    |
| 201         | SPACE          | 202        | 1200           | 202    |
| 201         | SPACE          | 204        | 1200           | 204    |
| 201         | SPACE          | 206        | 1200           | 206    |
| 201         | SPACE          | 208        | 1200           | 208    |
| 201         | SPACE          | 210        | 1200           | 210    |
| 201         | SPACE          | 212        | 1200           | 212    |
| 201         | SPACE          | 214        | 1200           | 214    |
| 201         | SPACE          | 216        | 1200           | 216    |
| 201         | SPACE          | 218        | 1200           | 218    |
| 201         | SPACE          | 220        | 1200           | 220    |
| 201         | SPACE          | 222        | 1200           | 222    |
| 201         | SPACE          | 224        | 1200           | 224    |
| 201         | SPACE          | 226        | 1200           | 226    |
| 201         | SPACE          | 228        | 1200           | 228    |
| 201         | SPACE          | 230        | 1200           | 230    |
| 201         | SPACE          | 232        | 1200           | 232    |
| 201         | SPACE          | 234        | 1200           | 234    |
| 201         | SPACE          | 236        | 1200           | 236    |
| 201         | SPACE          | 238        | 1200           | 238    |
| 201         | SPACE          | 240        | 1200           | 240    |
| 201         | SPACE          | 242        | 1200           | 242    |
| 201         | SPACE          | 244        | 1200           | 244    |
| 201         | SPACE          | 246        | 1200           | 246    |
| 201         | SPACE          | 248        | 1200           | 248    |
| 201         | SPACE          | 250        | 1200           | 250    |
| 201         | SPACE          | 252        | 1200           | 252    |
| 201         | SPACE          | 254        | 1200           | 254    |
| 201         | SPACE          | 256        | 1200           | 256    |
| 201         | SPACE          | 258        | 1200           | 258    |
| 201         | SPACE          | 260        | 1200           | 260    |
| 201         | SPACE          | 262        | 1200           | 262    |
| 201         | SPACE          | 264        | 1200           | 264    |
| 201         | SPACE          | 266        | 1200           | 266    |
| 201         | SPACE          | 268        | 1200           | 268    |
| 201         | SPACE          | 270        | 1200           | 270    |
| 201         | SPACE          | 272        | 1200           | 272    |
| 201         | SPACE          | 274        | 1200           | 274    |
| 201         | SPACE          | 276        | 1200           | 276    |
| 201         | SPACE          | 278        | 1200           | 278    |
| 201         | SPACE          | 280        | 1200           | 280    |
| 201         | SPACE          | 282        | 1200           | 282    |
| 201         | SPACE          | 284        | 1200           | 284    |
| 201         | SPACE          | 286        | 1200           | 286    |
| 201         | SPACE          | 288        | 1200           | 288    |
| 201         | SPACE          | 290        | 1200           | 290    |
| 201         | SPACE          | 292        | 1200           | 292    |
| 201         | SPACE          | 294        | 1200           | 294    |
| 201         | SPACE          | 296        | 1200           | 296    |
| 201         | SPACE          | 298        | 1200           | 298    |
| 201         | SPACE          | 300        | 1200           | 300    |
| 201         | SPACE          | 302        | 1200           | 302    |
| 201         | SPACE          | 304        | 1200           | 304    |
| 201         | SPACE          | 306        | 1200           | 306    |
| 201         | SPACE          | 308        | 1200           | 308    |
| 201         | SPACE          | 310        | 1200           | 310    |
| 201         | SPACE          | 312        | 1200           | 312    |
| 201         | SPACE          | 314        | 1200           | 314    |
| 201         | SPACE          | 316        | 1200           | 316    |
| 201         | SPACE          | 318        | 1200           | 318    |
| 201         | SPACE          | 320        | 1200           | 320    |
| 201         | SPACE          | 322        | 1200           | 322    |
| 201         | SPACE          | 324        | 1200           | 324    |
| 201         | SPACE          | 326        | 1200           | 326    |
| 201         | SPACE          | 328        | 1200           | 328    |
| 201         | SPACE          | 330        | 1200           | 330    |
| 201         | SPACE          | 332        | 1200           | 332    |
| 201         | SPACE          | 334        | 1200           | 334    |
| 201         | SPACE          | 336        | 1200           | 336    |
| 201         | SPACE          | 338        | 1200           | 338    |
| 201         | SPACE          | 340        | 1200           | 340    |
| 201         | SPACE          | 342        | 1200           | 342    |
| 201         | SPACE          | 344        | 1200           | 344    |
| 201         | SPACE          | 346        | 1200           | 346    |
| 201         | SPACE          | 348        | 1200           | 348    |
| 201         | SPACE          | 350        | 1200           | 350    |
| 201         | SPACE          | 352        | 1200           | 352    |
| 201         | SPACE          | 354        | 1200           | 354    |
| 201         | SPACE          | 356        | 1200           | 356    |
| 201         | SPACE          | 358        | 1200           | 358    |
| 201         | SPACE          | 360        | 1200           | 360    |
| 201         | SPACE          | 362        | 1200           | 362    |
| 201         | SPACE          | 364        | 1200           | 364    |
| 201         | SPACE          | 366        | 1200           | 366    |
| 201         | SPACE          | 368        | 1200           | 368    |
| 201         | SPACE          | 370        | 1200           | 370    |
| 201         | SPACE          | 372        | 1200           | 372    |
| 201         | SPACE          | 374        | 1200           | 374    |
| 201         | SPACE          | 376        | 1200           | 376    |
| 201         | SPACE          | 378        | 1200           | 378    |
| 201         | SPACE          | 380        | 1200           | 380    |
| 201         | SPACE          | 382        | 1200           | 382    |
| 201         | SPACE          | 384        | 1200           | 384    |
| 201         | SPACE          | 386        | 1200           | 386    |
| 201         | SPACE          | 388        | 1200           | 388    |
| 201         | SPACE          | 390        | 1200           | 390    |
| 201         | SPACE          | 392        | 1200           | 392    |
| 201         | SPACE          | 394        | 1200           | 394    |
| 201         | SPACE          | 396        | 1200           | 396    |
| 201         | SPACE          | 398        | 1200           | 398    |
| 201         | SPACE          | 400        | 1200           | 400    |
| 201         | SPACE          | 402        | 1200           | 402    |
| 201         | SPACE          | 404        | 1200           | 404    |
| 201         | SPACE          | 406        | 1200           | 406    |
| 201         | SPACE          | 408        | 1200           | 408    |
| 201         | SPACE          | 410        | 1200           | 410    |
| 201         | SPACE          | 412        | 1200           | 412    |
| 201         | SPACE          | 414        | 1200           | 414    |
| 201         | SPACE          | 416        | 1200           | 416    |
| 201         | SPACE          | 418        | 1200           | 418    |
| 201         | SPACE          | 420        | 1200           | 420    |
| 201         | SPACE          | 422        | 1200           | 422    |
| 201         | SPACE          | 424        | 1200           | 424    |
| 201         | SPACE          | 426        | 1200           | 426    |
| 201         | SPACE          | 428        | 1200           | 428    |
| 201         | SPACE          | 430        | 1200           | 430    |
| 201         | SPACE          | 432        | 1200           | 432    |
| 201         | SPACE          | 434        | 1200           | 434    |
| 201         | SPACE          | 436        | 1200           | 436    |
| 201         | SPACE          | 438        | 1200           | 438    |
| 201         | SPACE          | 440        | 1200           | 440    |
| 201         | SPACE          | 442        | 1200           | 442    |
| 201         | SPACE          | 444        | 1200           | 444    |
| 201         | SPACE          | 446        | 1200           | 446    |
| 201         | SPACE          | 448        | 1200           | 448    |
| 201         | SPACE          | 450        | 1200           | 450    |
| 201         | SPACE          | 452        | 1200           | 452    |
| 201         | SPACE          | 454        | 1200           | 454    |
| 201         | SPACE          | 456        | 1200           | 456    |
| 201         | SPACE          | 458        | 1200           | 458    |
| 201         | SPACE          | 460        | 1200           | 460    |
| 201         | SPACE          | 462        | 1200           | 462    |
| 201         | SPACE          | 464        | 1200           | 464    |
| 201         | SPACE          | 466        | 1200           | 466    |
| 201         | SPACE          | 468        | 1200           | 468    |
| 201         | SPACE          | 470        | 1200           | 470    |
| 201         | SPACE          | 472        | 1200           | 472    |
| 201         | SPACE          | 474        | 1200           | 474    |
| 201         | SPACE          | 476        | 1200           | 476    |
| 201         | SPACE          | 478        | 1200           | 478    |
| 201         | SPACE          | 480        | 1200           | 480    |
| 201         | SPACE          | 482        | 1200           | 482    |
| 201         | SPACE          | 484        | 1200           | 484    |
| 201         | SPACE          | 486        | 1200           | 486    |
| 201         | SPACE          | 488        | 1200           | 488    |
| 201         | SPACE          | 490        | 1200           | 490    |
| 201         | SPACE          | 492        | 1200           | 492    |
| 201         | SPACE          | 494        | 1200           | 494    |
| 201         | SPACE          | 496        | 1200           | 496    |
| 201         | SPACE          | 498        | 1200           | 498    |
| 201         | SPACE          | 500        | 1200           | 500    |
| 201         | SPACE          | 502        | 1200           | 502    |
| 201         | SPACE          | 504        | 1200           | 504    |
| 201         | SPACE          | 506        | 1200           | 506    |
| 201         | SPACE          | 508        | 1200           | 508    |
| 201         | SPACE          | 510        | 1200           | 510    |
| 201         | SPACE          | 512        | 1200           | 5      |