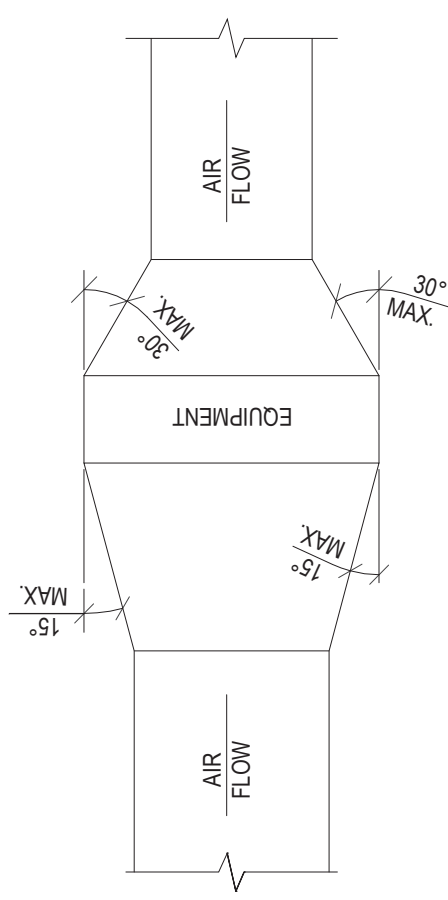


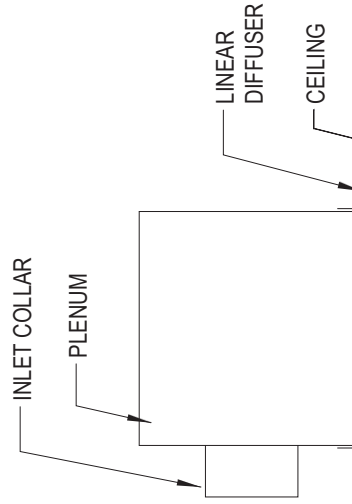
**NOTE:**

1. ALL VANE ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
2. WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE THICKNESS VANE TYPE REGARDLESS OF W2.
3. ALL SINGLE THICKNESS VANES SHALL HAVE A 2" [50MM] RADIUS, 1 1/2" [40MM] MAXIMUM SPACING, AND A 3/4" [20MM] TRAILING EDGE.
4. WHEN W EQUALS W2 AND W1 IS GREATER THAN 20" [500MM] VANES SHALL BE DOUBLE VANE TYPE.

**5 DUCTWORK SQUARE VANE ELBOWS**  
NOT TO SCALE



FUSER FRAME/BORDER TYPE AND END BORDER CONFIGURATION WITH CEILING TYPE.

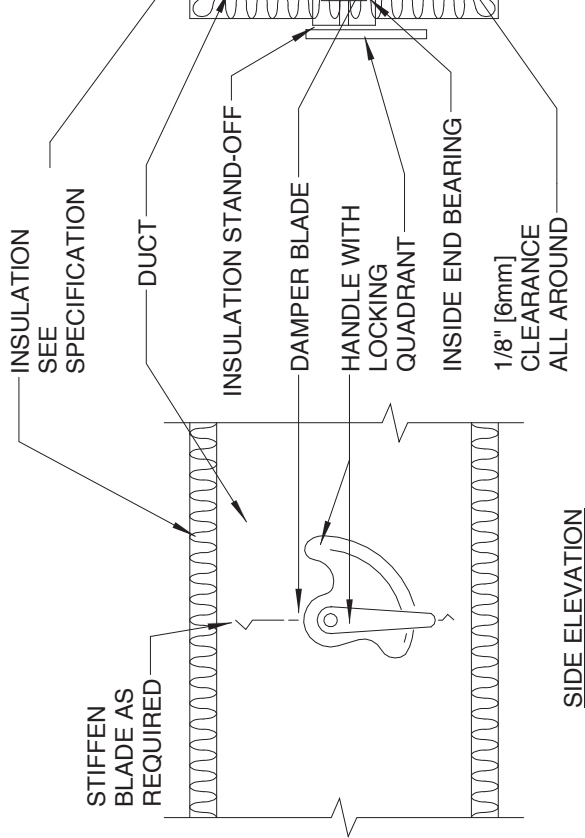


TYPICAL DUCTWORK TRANSITION WITH EQUIPMENT MOUNTED IN DUCT PLAN OR SIDE VIEW

HANGER STRAPS OR RODS				
MAX. DUCT D. [mm]	QUANTITY/SIZE IN. [mm]	MAX. LOAD LBS. [kg]	MAX. SPACING IN. [mm]	
6 [650]	ONE 1 [25] x 22 GA STRAP	260 [119]	144 [3600]	
6 [900]	ONE 1 [25] x 18 GA STRAP	420 [190]	144 [3600]	
0 [1250]	ONE 1 [25] x 16 GA STRAP	700 [317]	144 [3600]	
0 [1500]	TWO 3/8 [10] RODS	1320 [598]	144 [3600]	
4 [2100]	TWO 1/2 [13] RODS	2500 [1133]	144 [3600]	

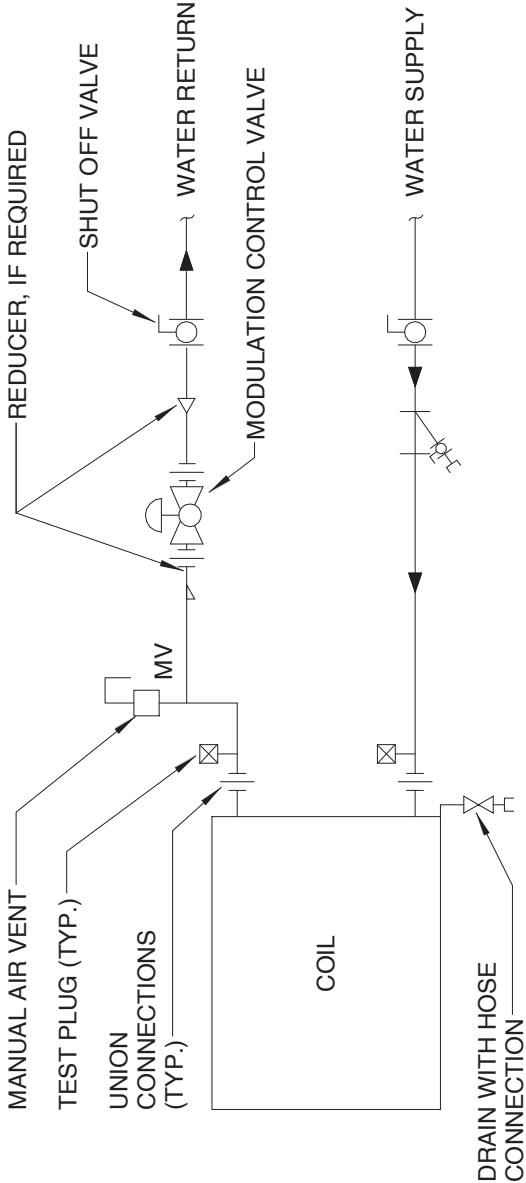
**NOTE:**

TABULATED DATA FROM SMACNA ALLOWS FOR DUCT REINFORCING AND INSULATION, BUT NO EXTERNAL LOAD.



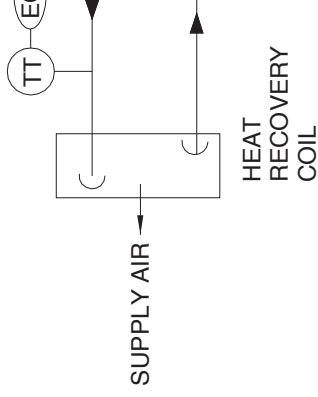
**NOTE:**

1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTER
2. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION DAMPERS & ROUND DAMPERS.



## MINIMAL UNIT WATER COILS - PIPING CONNECTIONS (2-WAY VALVE)

- TO SCALE

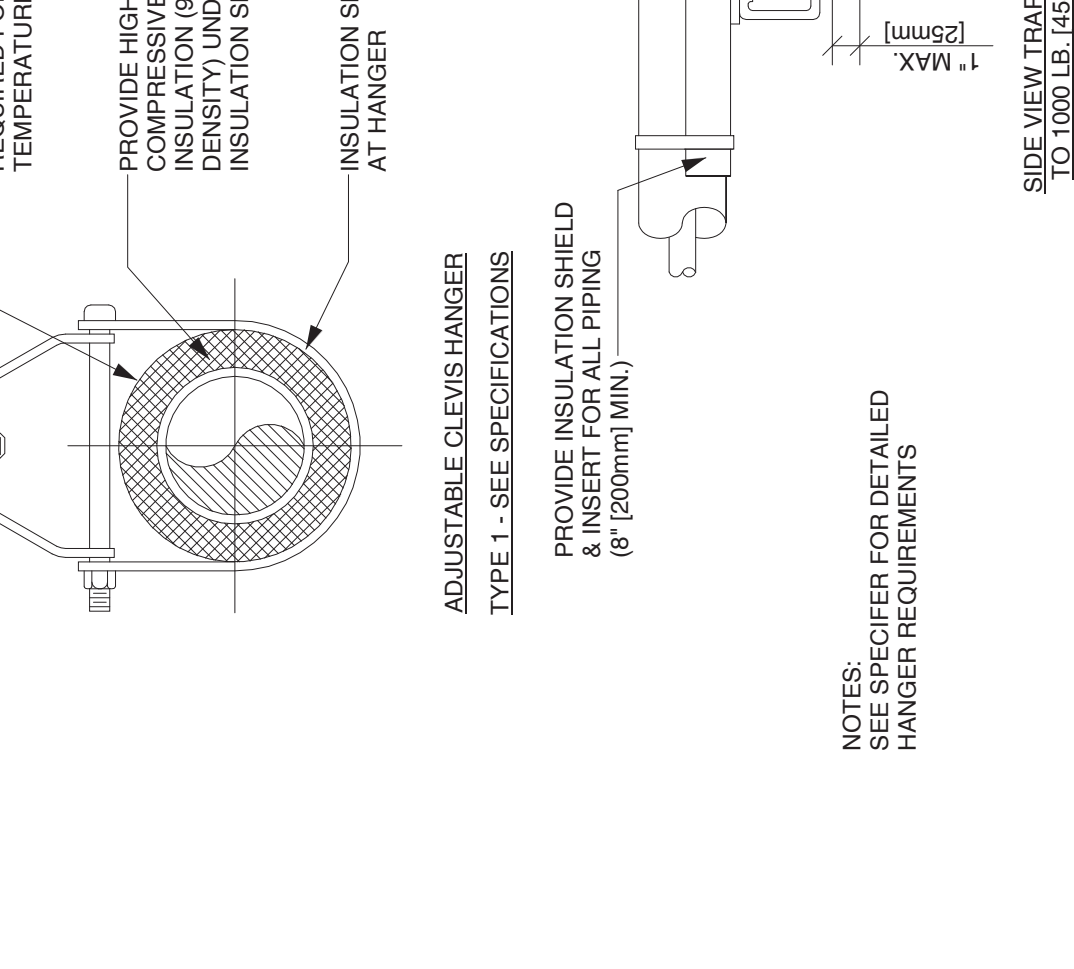


### NOTES:

1. TO PREVENT ICING ON EXH/ EXHAUST AIR COIL > 35°F B
2. DISCONTINUE HEAT RECOV (ADJUSTABLE)
3. FOR SYSTEMS WITH WINTER PROPYLENE GLYCOL SOLU

5

RUN AROUND HEAT RECO  
NOT TO SCALE

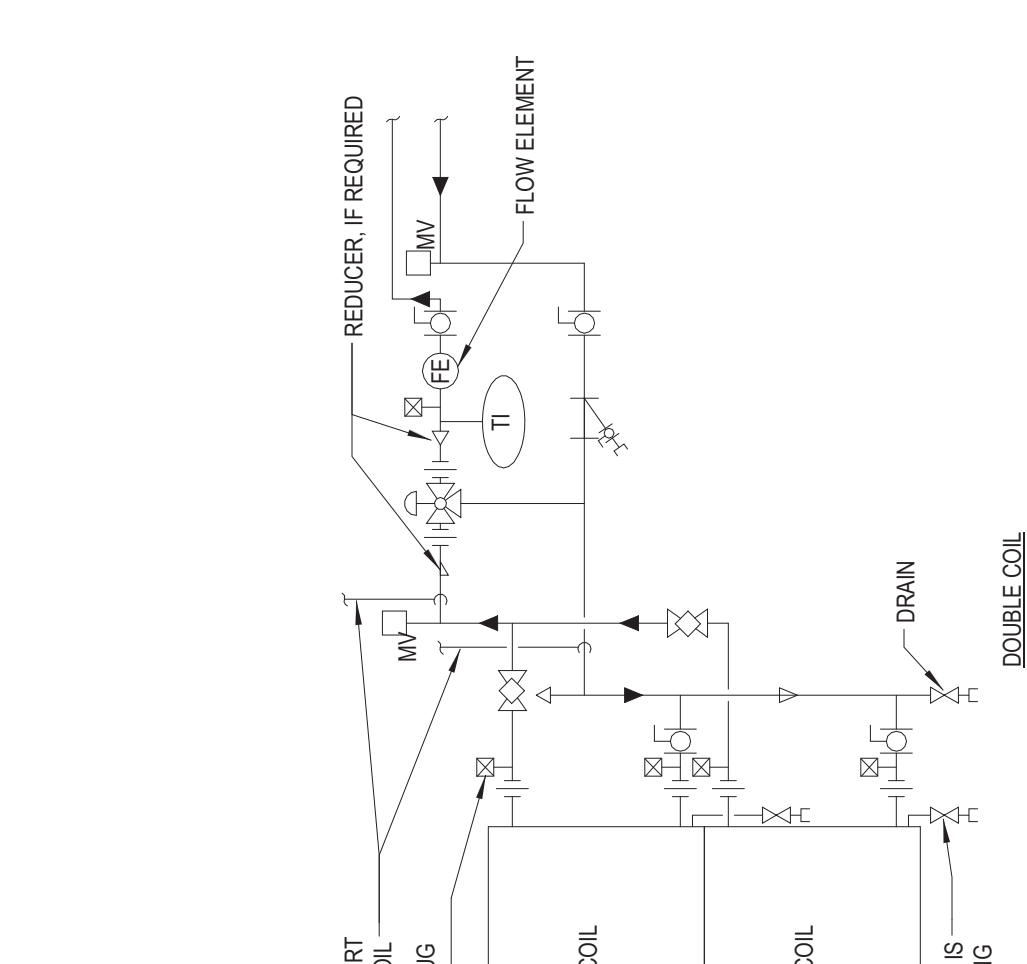


		MAXIMUM PIPE/TUBING SPACING									
NOM. SIZE	IN. [mm]	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8
PIPE	FT. [mm]	7	7	9	10	11	12	14	16	18	20
TUBING	FT. [mm]	5	6	7	8	9	10	12	14	16	18

NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE HANGER

5

PIPE HANGERS  
NOT TO SCALE



COILS SHALL BE INSTALLED IN SUCH MANNER THAT IT WILL NOT BLOCK THE FLOW OF FLUID THROUGH THE COILS. EACH PIPE SHALL BE SPRING & NEOPRENE TYPE. TYPE 1 & SMALLER. TYPE "H-P" FOR 5" [125mm] PIPE

COILS SHALL BE INSTALLED IN SUCH MANNER THAT IT WILL NOT BLOCK THE FLOW OF FLUID THROUGH THE COILS. EACH PIPE SHALL BE SPRING & NEOPRENE TYPE. TYPE 1 & SMALLER. TYPE "H-P" FOR 5" [125mm] PIPE

COILS SHALL BE INSTALLED IN THE SUPPLY PIPING IF THE DOWNSTREAM AND DOWNSTREAM DIMENSIONS CANNOT BE MAINTAINED.

COIL CONNECTION DETAIL (11-CC-1)

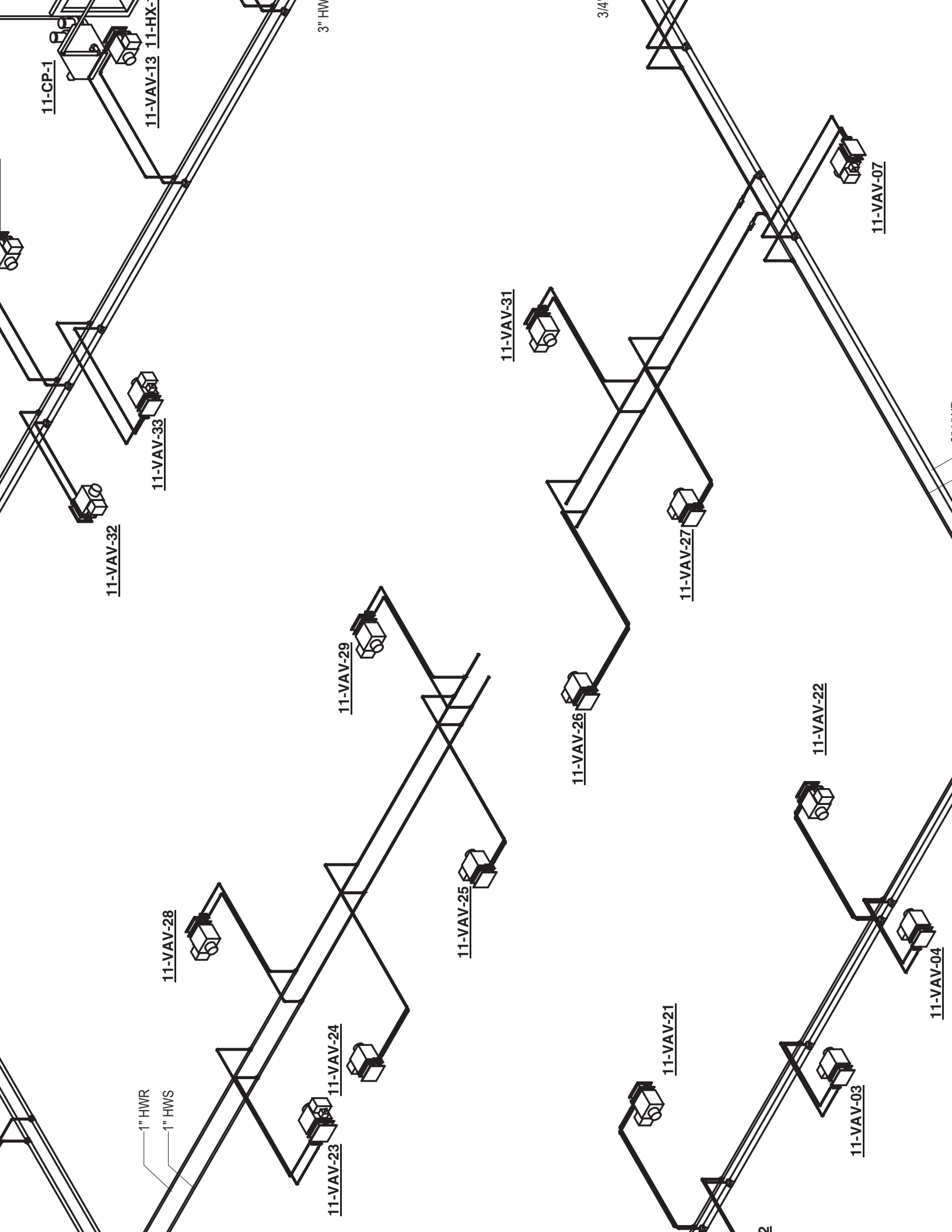
HOT WATER				
T	LWT	WPD		REMARKS
		NA	% GLYCOL	
	NA	NA	1	

GLYCOL	REMARKS
	YES

E K	GLYCOL FILL SIZE	REMARKS
	1000	
	1000	
	1000	

				MOTOR ELECTRICAL						
TER	MIN. % EFF.	DRIVE	FAN MAX. RPM	HP	PHASE	VOLT	RPM	SPEED CONTROL	CONTROL SEQUENCE	REMARKS
6	PREM.	BELT	1200	7.5	3	460	1750	VFD	DETAIL 2/M-800	1
6	PREM.	BELT	2200	30	3	460	1750	VFD	DETAIL 2/M-800	2
	PREM.	BELT	---	5	3	460	1750	CONSTANT	SCHEDULE	4
	PREM.	BELT	---	2	3	460	1750	CONSTANT	SCHEDULE	4
	PREM.	DIRECT	---	50W	1	120	900	CONSTANT	THERMOSTAT	3, 4
	PREM.	BELT	---	1	3	460	1750	VFD	SCHEDULE	1, 4, 5

LL946	WOMEN'S	EXISTING	-	N	0	0	-	-	E	
LL947	MEN'S	EXISTING	-	N	0	0	-	-	E	
TE										
OMS OR AREAS DO NOT HAVE INDIVIDUAL HUMIDITY CONTROL UNLESS NOTED.										
ROO										
Number	Room Name	Air Handling Unit No	Terminal Unit	Individual Room Temp Control	Supply			Air Device Mark	Supply Fan	Return or Exhaust (R/E)
					Room Air Flow		# of Air Devices			
					CFM	L/S				
C1879	DECON STORAGE	11-AHU-01	11-VAV-37	N	200	95		SG-1	11-SF-1	E
C1879A	EMS STRG	11-AHU-01	11-VAV-37	N	200	95		SG-1	11-SF-1	E
C1940	FT/ED WAITING	11-AHU-01	11-VAV-01	Y	3600	1700		LD-4	11-SF-1	E
C1941	MENS	11-AHU-01	-	N	0	0		-	-	E
C1942	BEREAVEMENT	11-AHU-01	11-VAV-02	Y	100	48		LD-1	11-SF-1	R
C1943	WOMEN'S	11-AHU-01	-	N	0	0		-	11-SF-1	E
C1944	ACS BOOTH #1	11-AHU-01	11-VAV-19	Y	315	149		CD-4	11-SF-1	E
C1945	ACS BOOTH #2	11-AHU-01	11-VAV-20	Y	315	149		CD-4	11-SF-1	E
C1946	TOILET	11-AHU-01	-	N	0	0		-	-	E
C1947	ANTE 1	11-AHU-01	-	N	0	0		-	-	-
C1948	EXAM 1	11-AHU-01	11-VAV-18	Y	180	85		LD-1	11-SF-1	R
C1949	NURSE STATION	11-AHU-01	11-VAV-34	N	350	166		CD-3	11-SF-1	R
C1950	CARDIAC 1 & 2	11-AHU-01	11-VAV-17	Y	400	189		LD-2	11-SF-1	R
C1952	STORAGE	11-AHU-01	11-VAV-30	Y	150	71		CD-3	11-SF-1	E
C1954	ISO 2	11-AHU-01	11-VAV-16	Y	450	213		LD-3	11-SF-1	E
C1954A	TOILET	11-AHU-01	-	N	0	0		-	-	E
C1956	ANTE 2	11-AHU-01	-	N	0	0		-	-	-
C1958	EXAM 11	11-AHU-01	11-VAV-15	Y	225	107		LD-2	11-SF-1	R
C1959	MEDS	11-AHU-01	11-VAV-32	Y	75	36		CD-1	11-SF-1	R
C1960	PSYCH HOLDING 3	11-AHU-01	11-VAV-14	Y	225	107		LD-2	11-SF-1	R
C1961	CLEAN UTILITY	11-AHU-01	11-VAV-33	Y	250	118		CD-3	11-SF-1	E
C1962	PSYCH HOLDING 2	11-AHU-01	11-VAV-13	Y	225	107		LD-2	11-SF-1	R
C1963	TOILET	11-AHU-01	-	N	0	0		-	-	E
C1964	PSYCH HOLDING 1	11-AHU-01	11-VAV-12	Y	225	107		LD-2	11-SF-1	R
C1966	EXAM 10	11-AHU-01	11-VAV-11	Y	225	107		LD-2	11-SF-1	R
C1970	ISO 1	11-AHU-01	11-VAV-23	Y	450	213		LD-3	11-SF-1	E
C1970A	TOILET	11-AHU-01	-	N	0	0		-	-	E
C1971	STAT LAB	11-AHU-01	11-VAV-28	Y	75	36		CD-1	11-SF-1	R
C1972	EXAM 2	11-AHU-01	11-VAV-24	Y	165	78		LD-1	11-SF-1	R
C1973	TOILET	11-AHU-01	-	N	0	0		-	-	E
C1974	EXAM 3	11-AHU-01	11-VAV-25	Y	165	78		LD-1	11-SF-1	R
C1975	SOILED	11-AHU-01	11-VAV-29	Y	220	104		CD-3	11-SF-1	E
C1976	EXAM 4	11-AHU-01	11-VAV-26	Y	165	78		LD-1	11-SF-1	R
C1977	SOILED	11-AHU-01	-	-	0	0		-	-	-



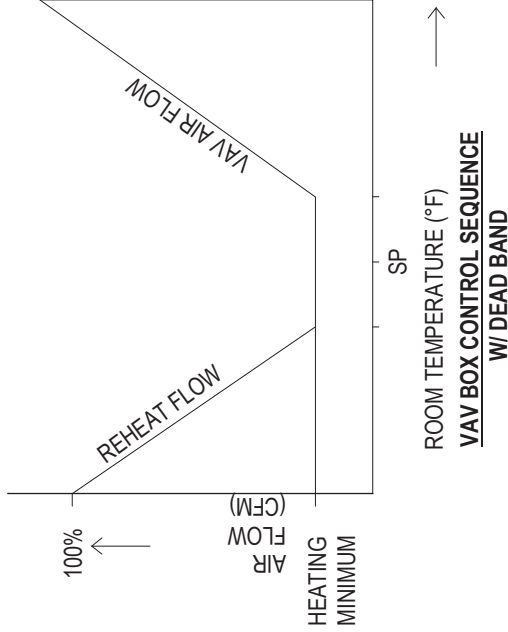


IG SET POINT WILL BE MAINTAINED

NT VALVE V-1 WILL MODULATE  
RANCE HAS BEEN SELECTED

LS BELOW 40°F (ADJ) AND VALVE  
2 SHALL THEN BE MODULATED TO  
NCE OF .5°F HAS BEEN SELECTED

ERATURE.



A. SET POINTS SHALL BE SET AS FOLLOWS:

COOLING 75°F (ADJ)

HEATING 70°F(ADJ)

DEADBAND OF 5° F BETWEEN HEATING AND COOLING SET POINTS WILL BE MAINTAINED.

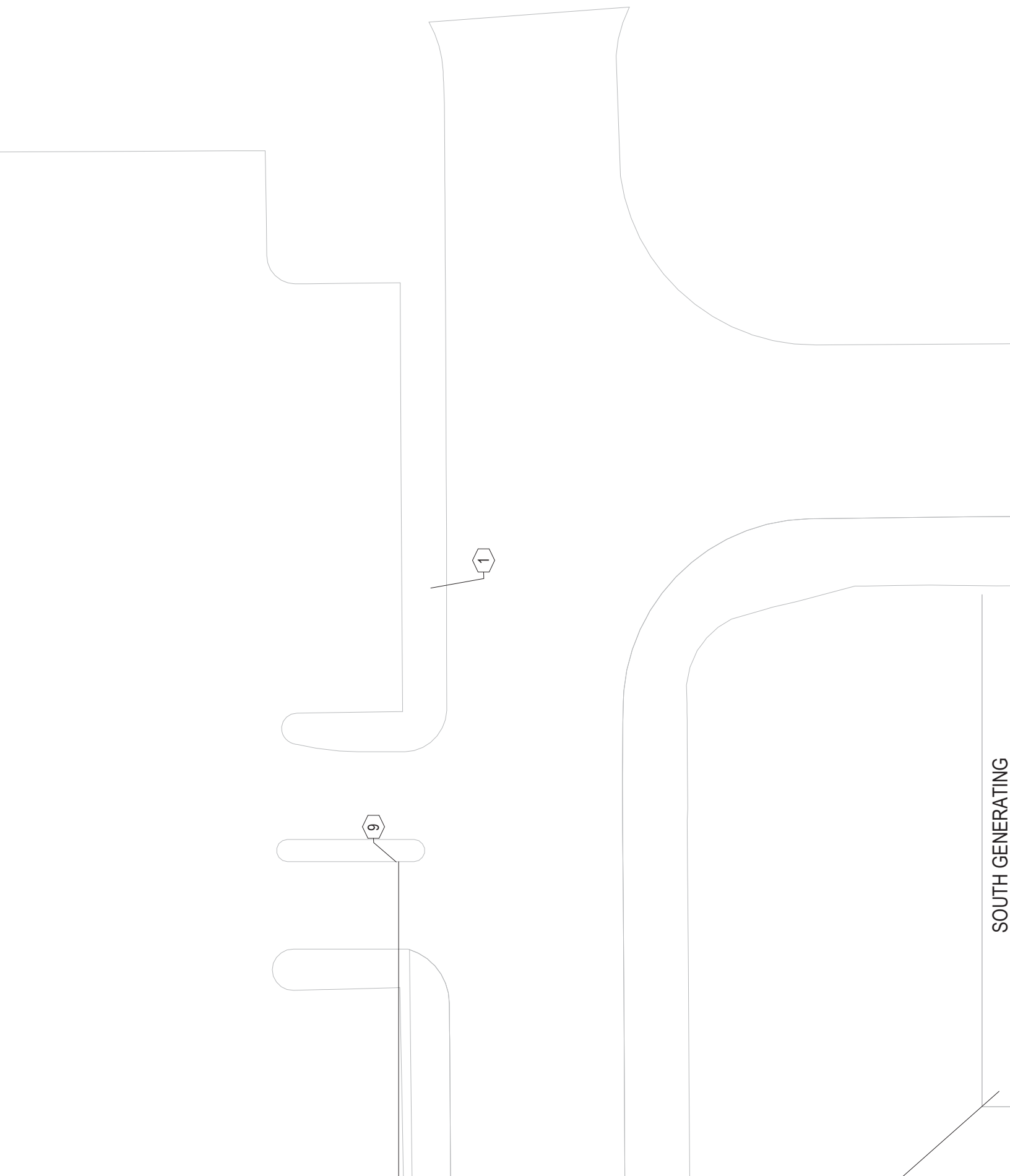
B. UPON FALL IN SPACE TEMPERATURE THE VAV DAMPER WILL MODULATE TO MINIMUM POSITION.

C. UPON FURTHER DROP IN SPACE TEMPERATURE VALVE V-1 WILL MODULATE TO MAINTAIN SET POINT + .5° F. THE ADJUSTABLE TOLERANCE OF + .5° F HAS BEEN SELECTED TO PREVENT VALVE HUNTING

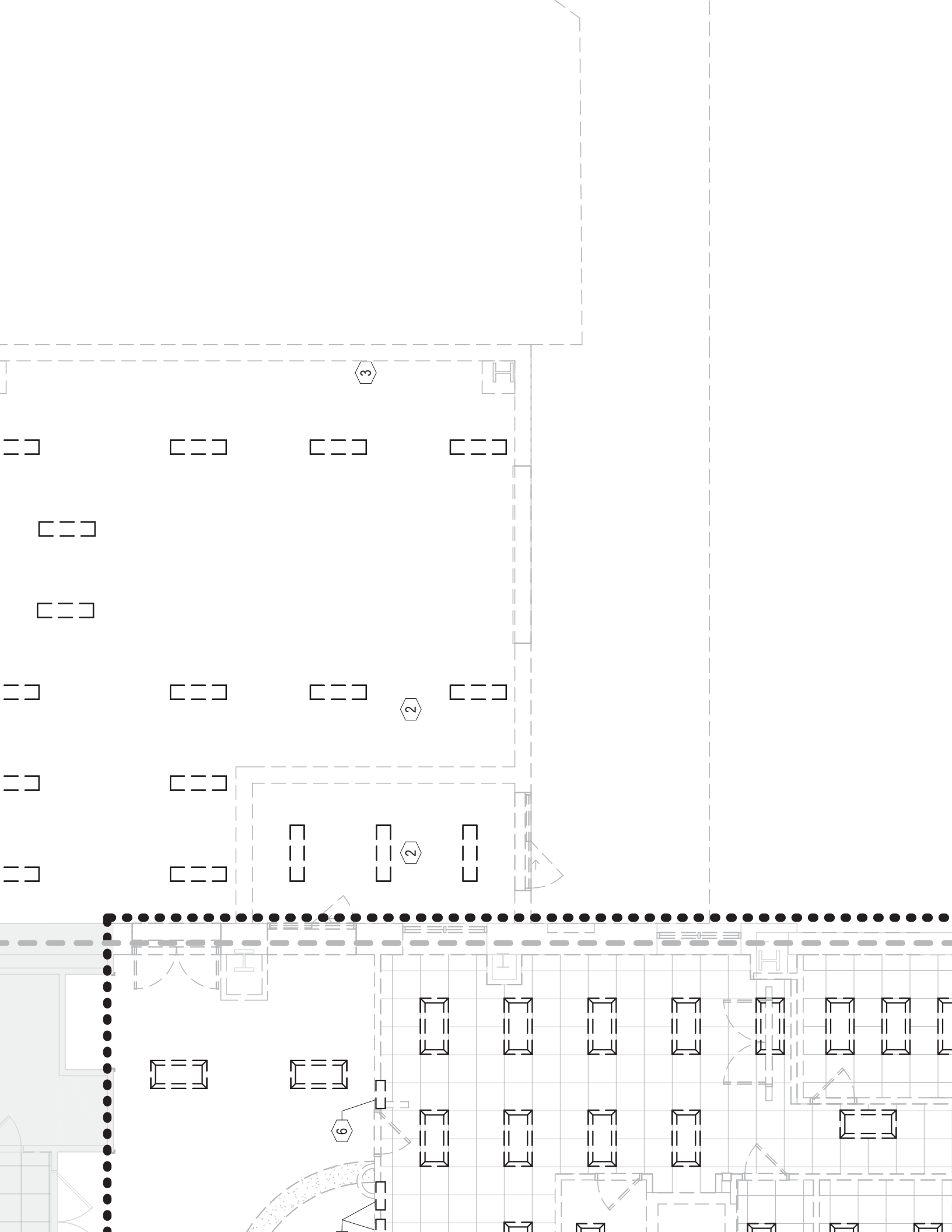
D. THE REVERSE SHALL OCCUR ON THE RISE IN SPACE TEMPERATURE.

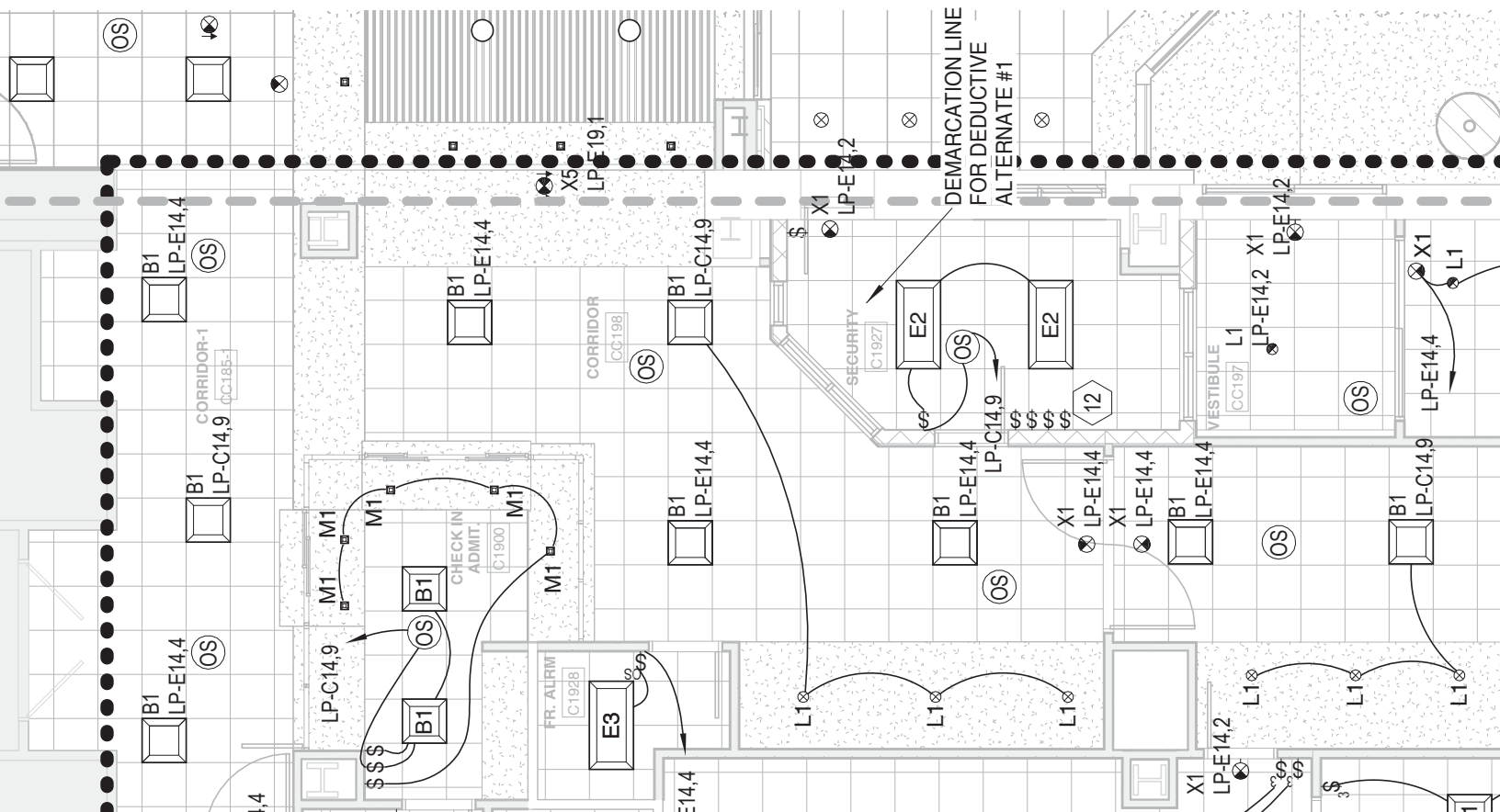


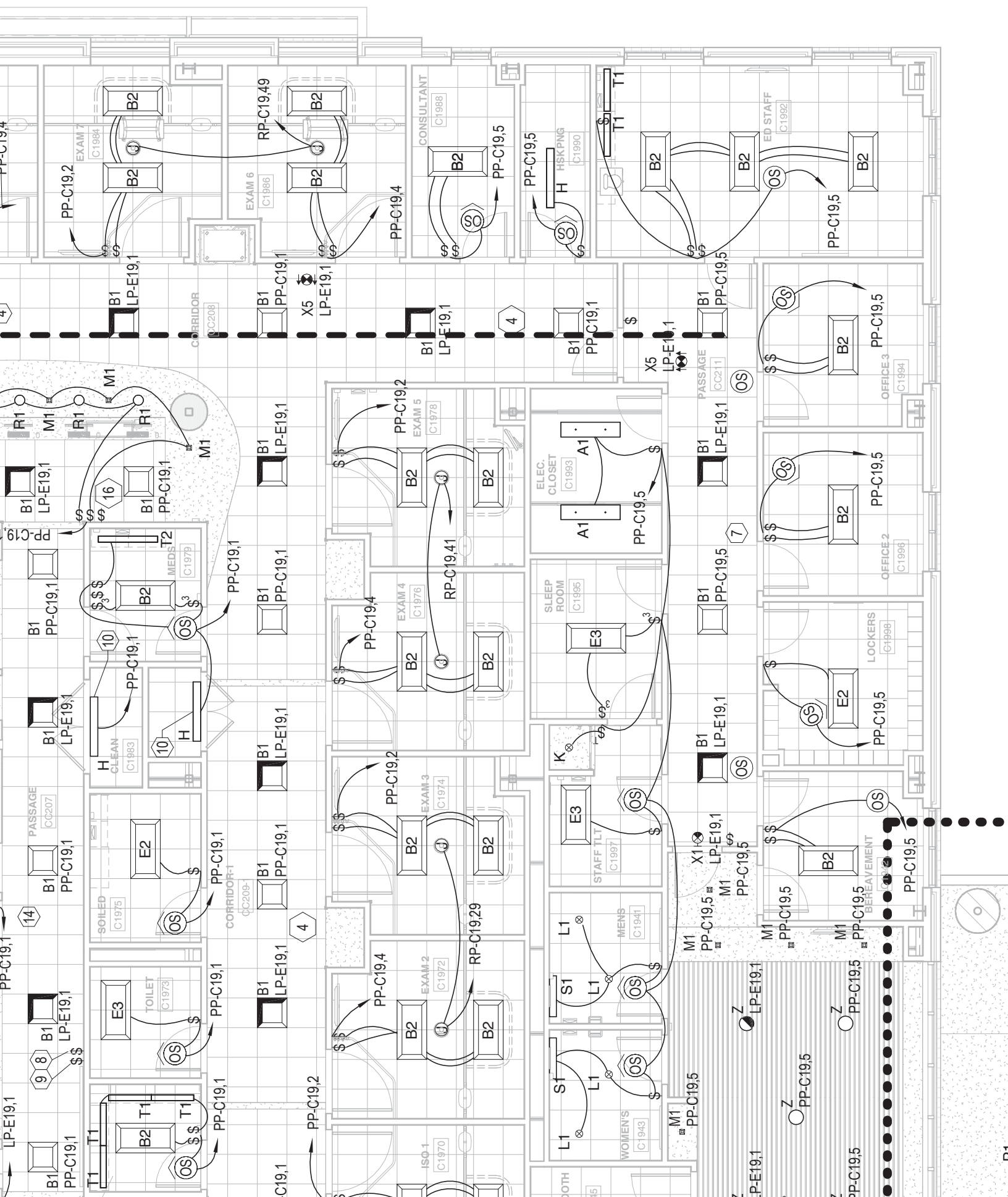


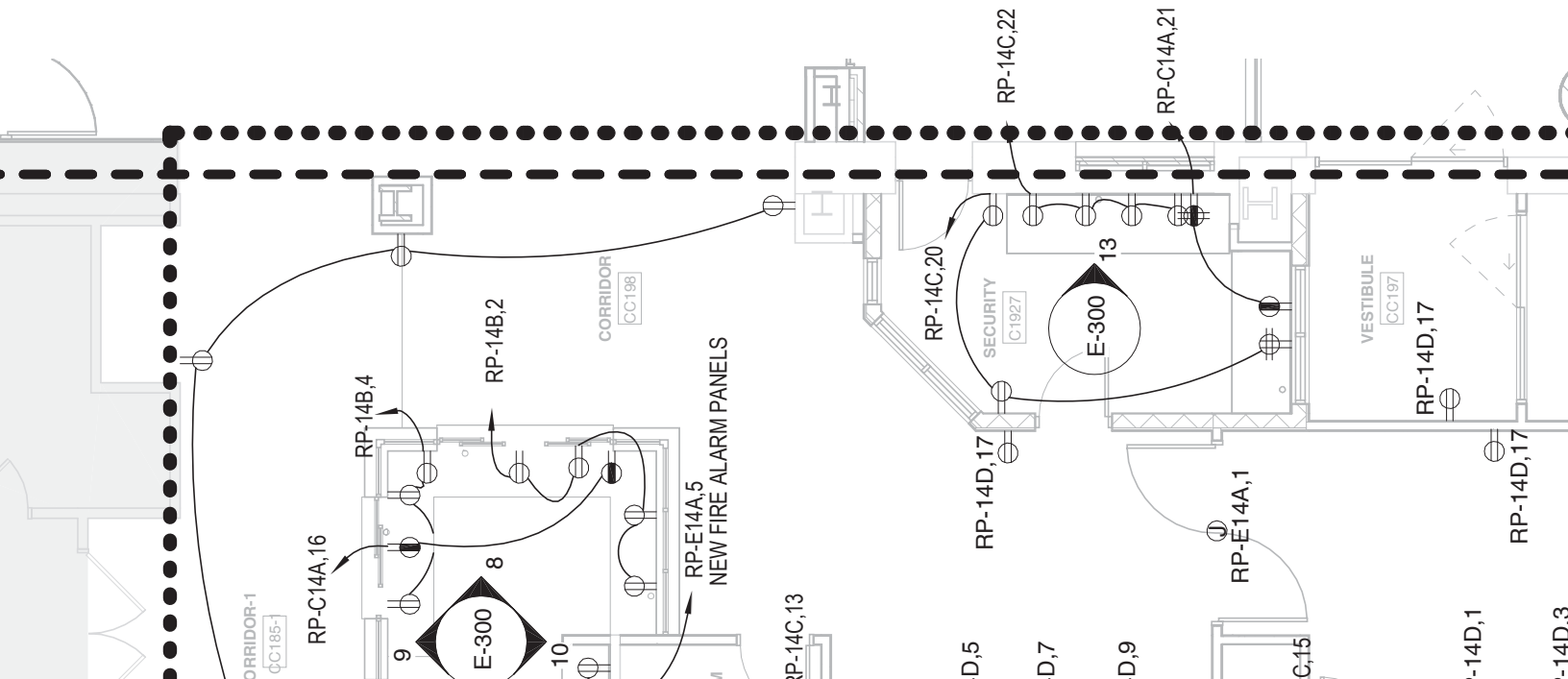


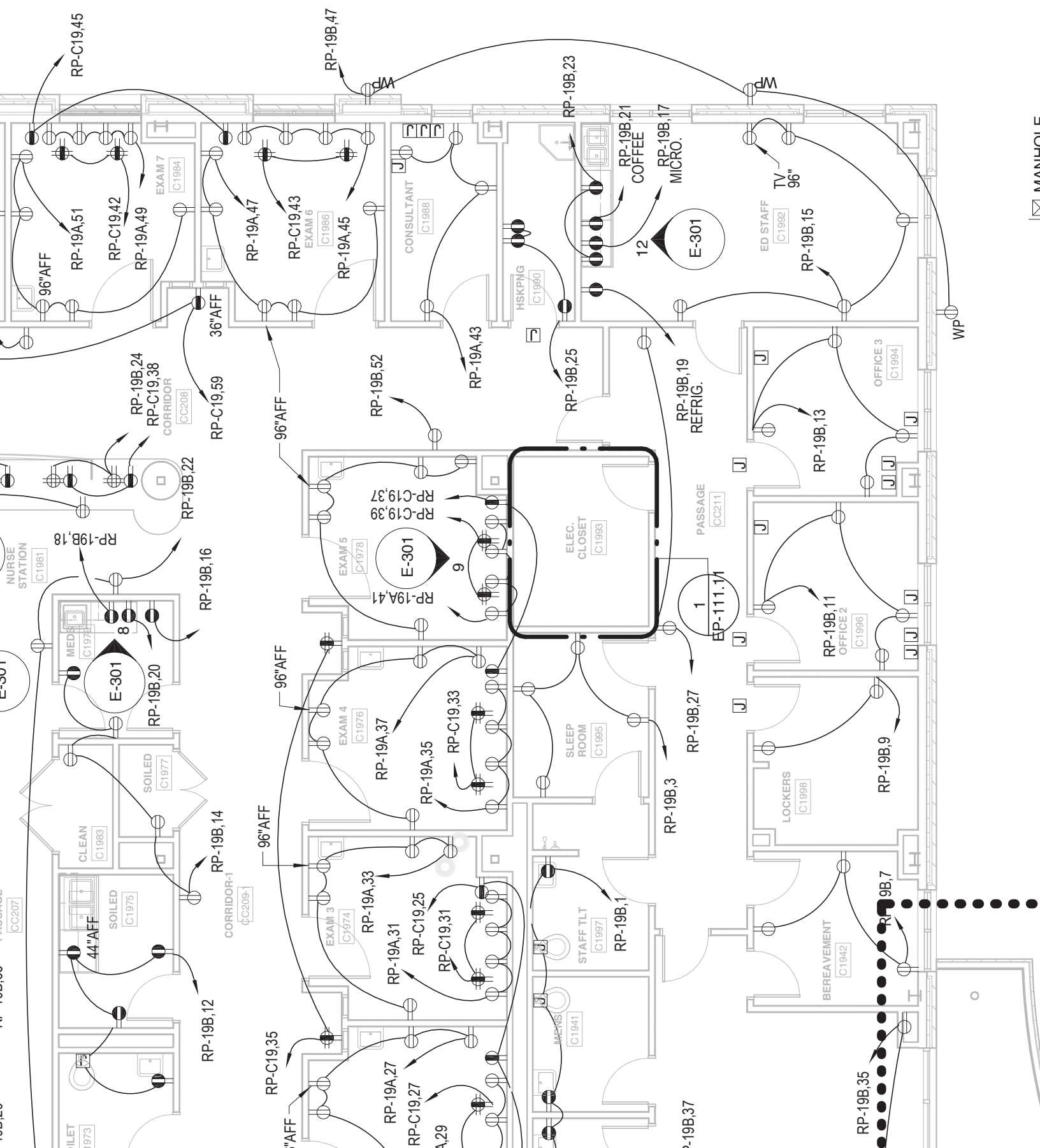
SOUTH GENERATING



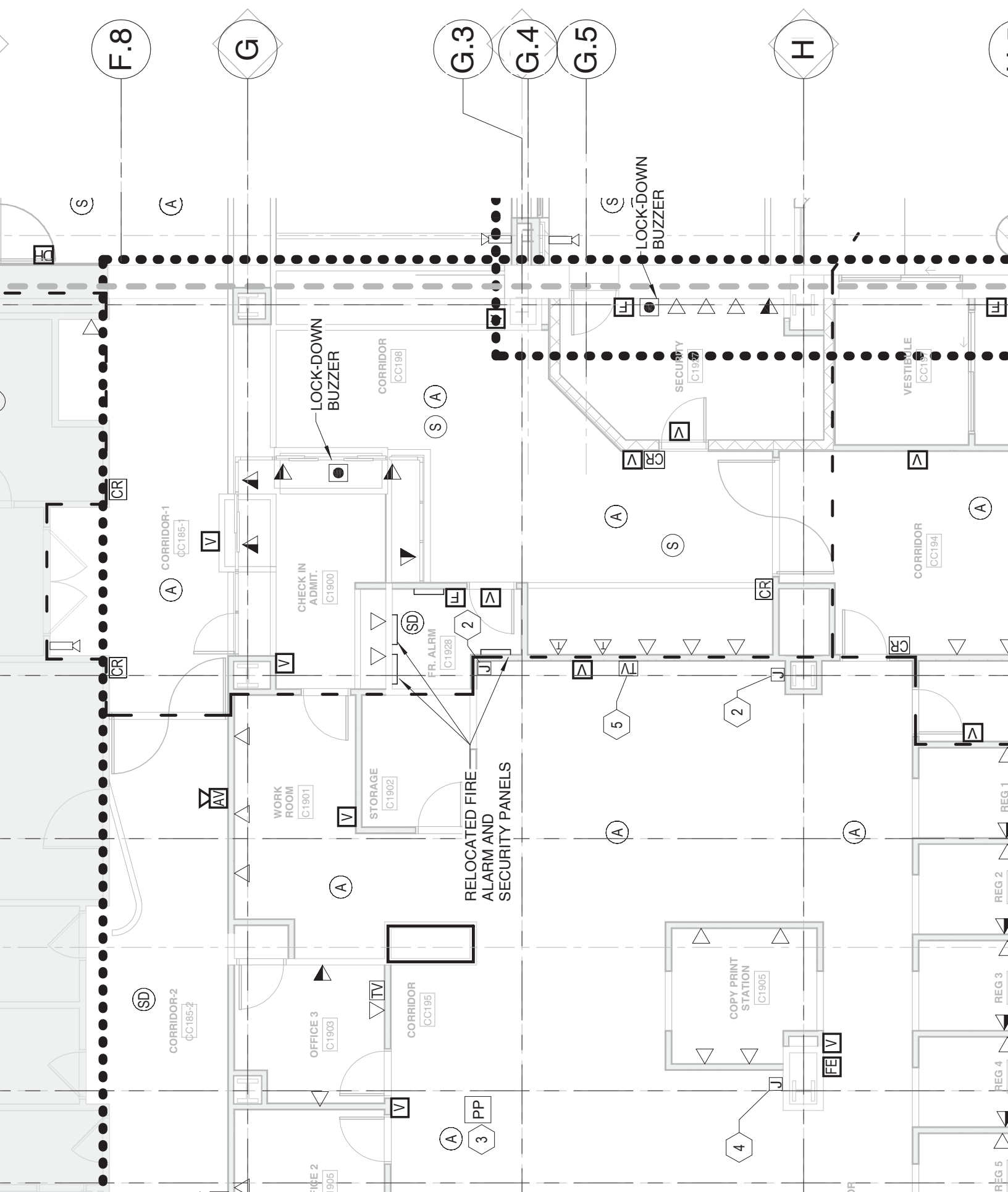




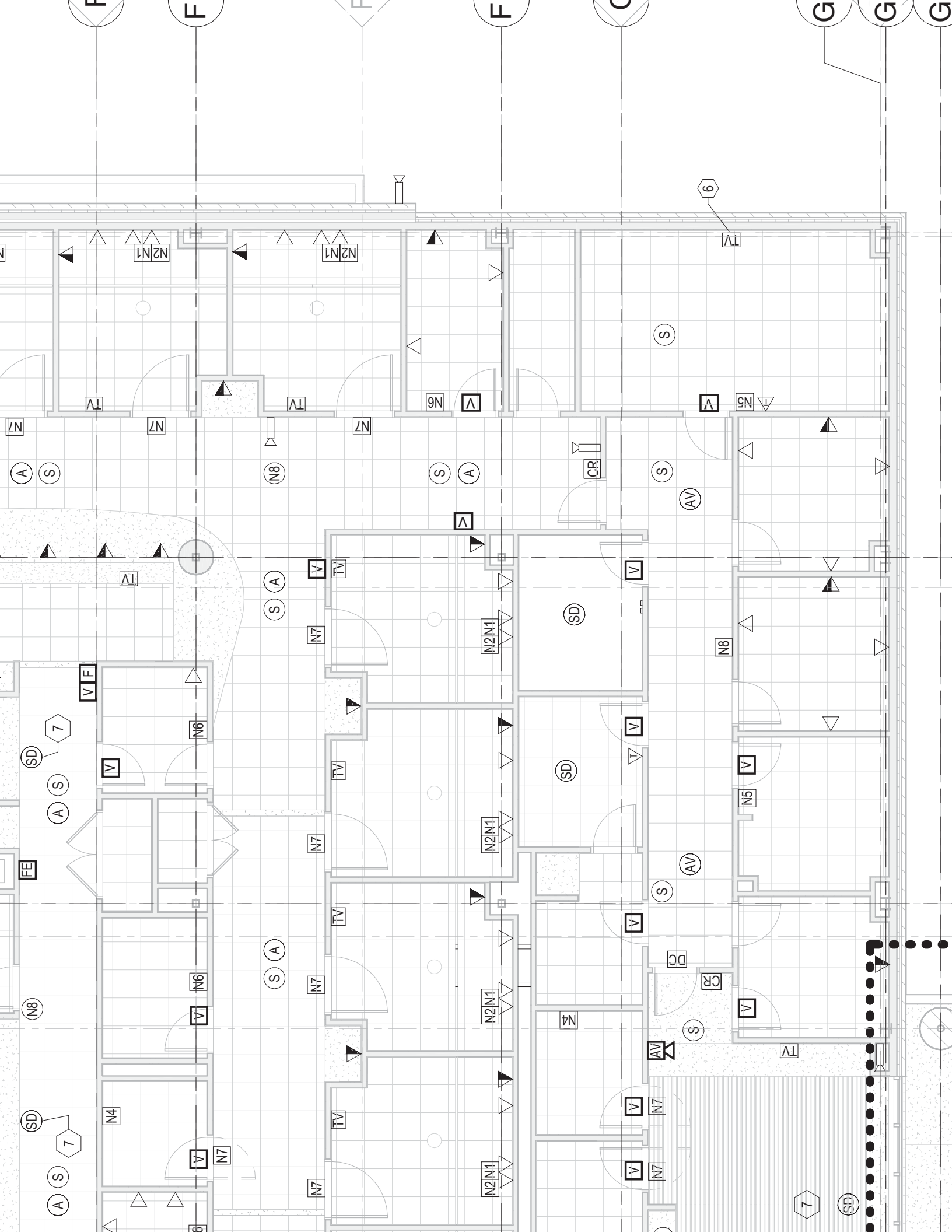


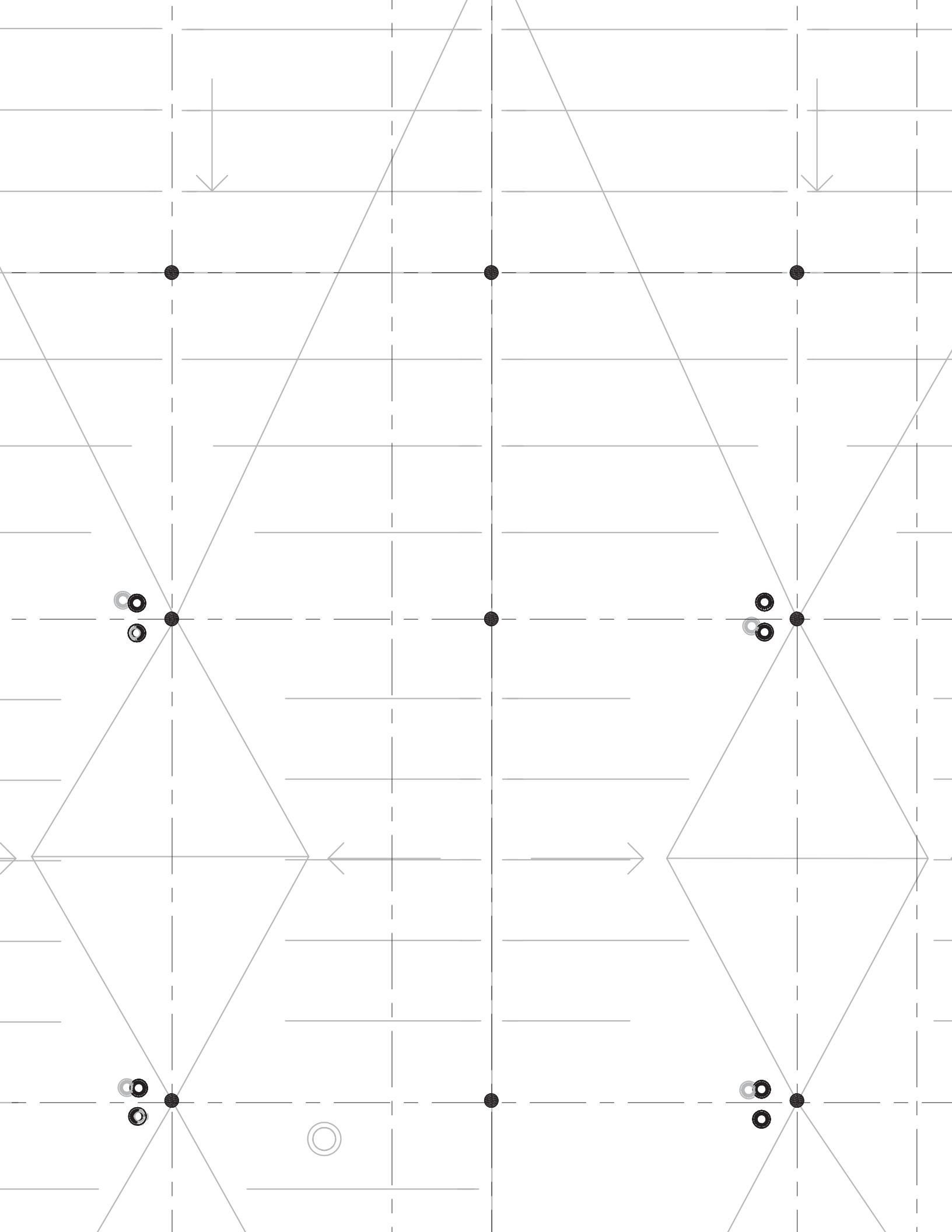


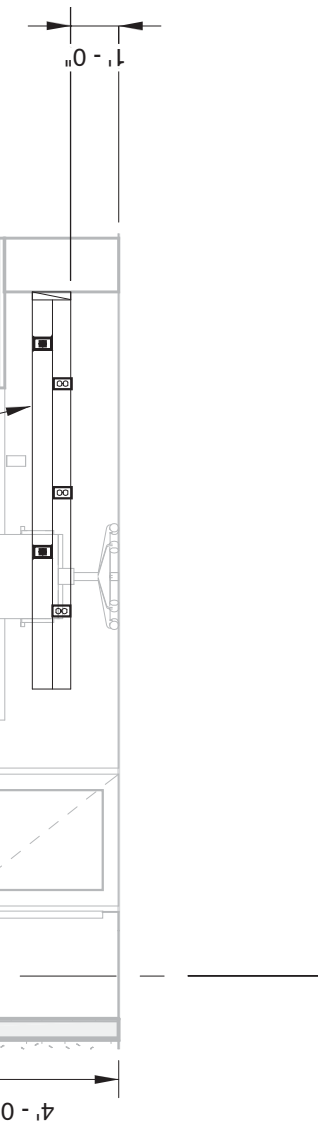
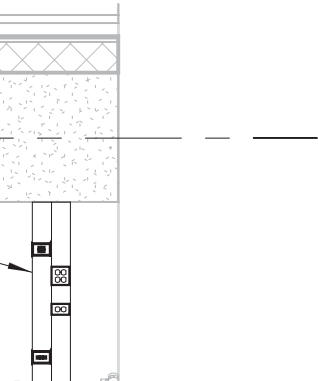
-(2) 4"x4" WIREWAY FOR POWER (TYP. FOR ALL









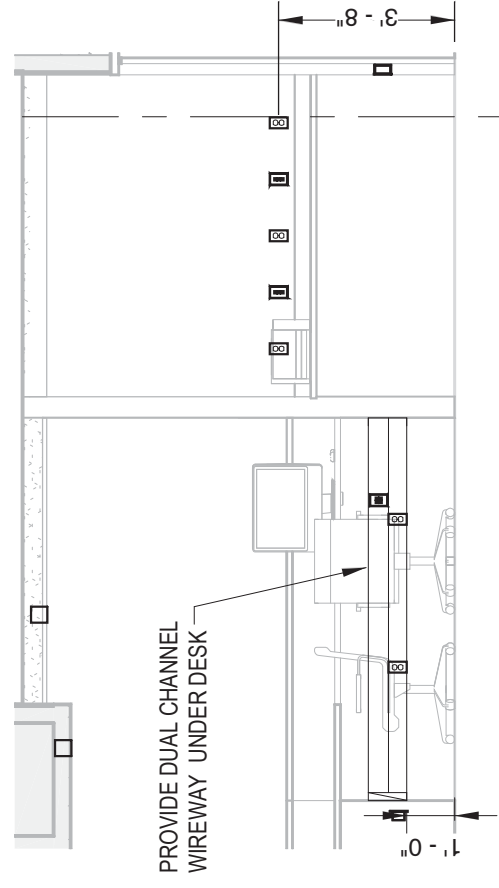
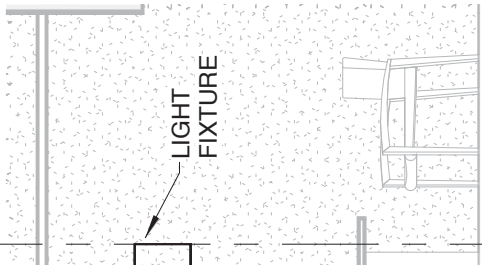


9

CHECK-IN/ADMIN. (NORTH WALL) - C1900  
1/4" = 1'-0"

H.5

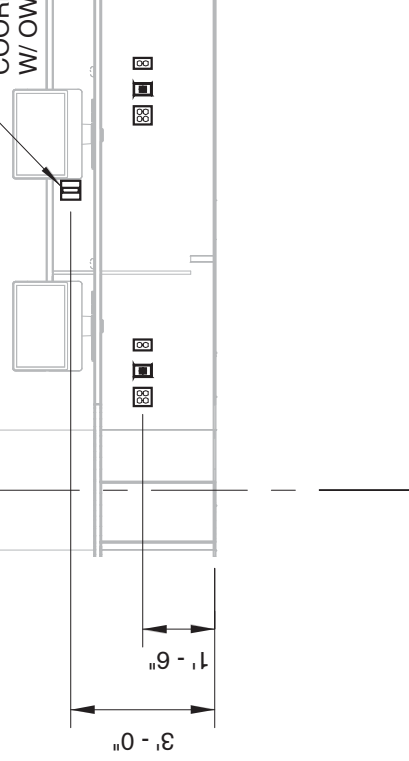
7



L) - C1910

10

CHECK-IN/ADMIN. (SOUTH WALL) - C1900  
1/4" = 1'-0"

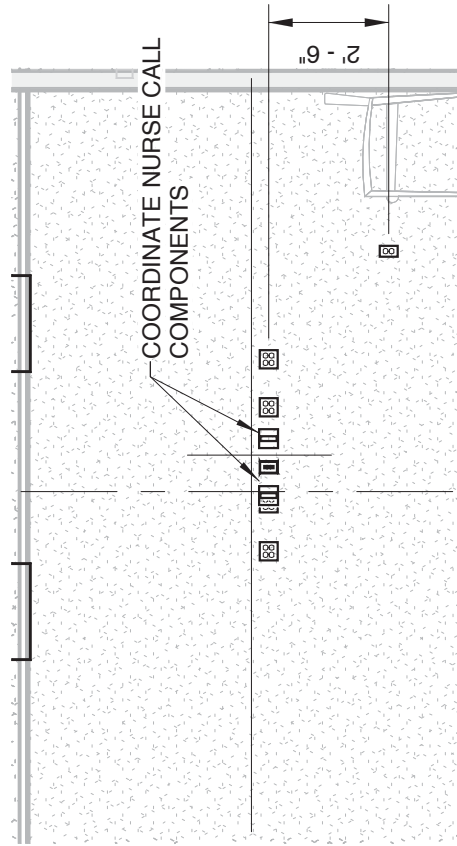


9 TYPICAL EXAM/ ISO ROOM - C1978  
1/4" = 1'-0"

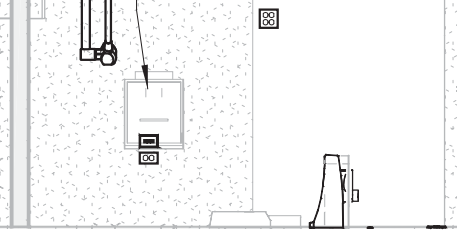
5 NURSE STATION (EA)  
1/4" = 1'-0"

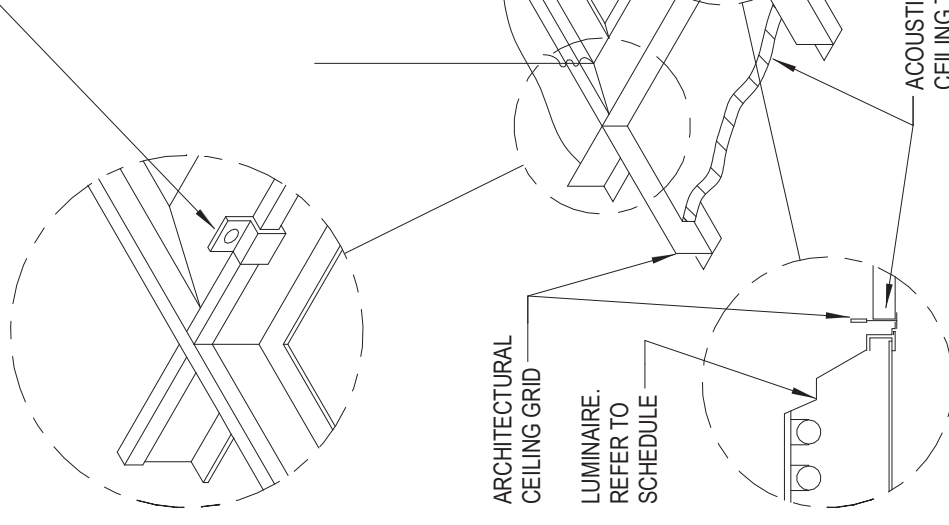
4.3

SEE ARCHITECTURAL PLANS FOR ALL HEADWALL EQUIPMENT LOCATIONS



SEE ARCHITECTURAL PLANS FOR ALL HEADWALL EQUIPMENT LOCATIONS





6

LUMINAIRE MOUNTING - LAY-IN  
NOT TO SCALE

CONDUIT(S) WITH BELL  
ENDS (TYP). SIZE, QUANTITY  
AND WIRING AS INDICATED  
ON PLANS

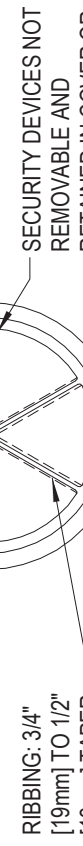
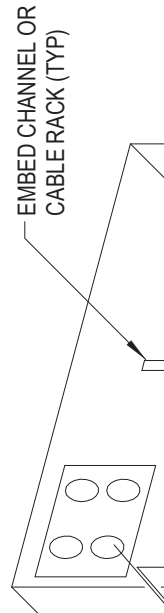
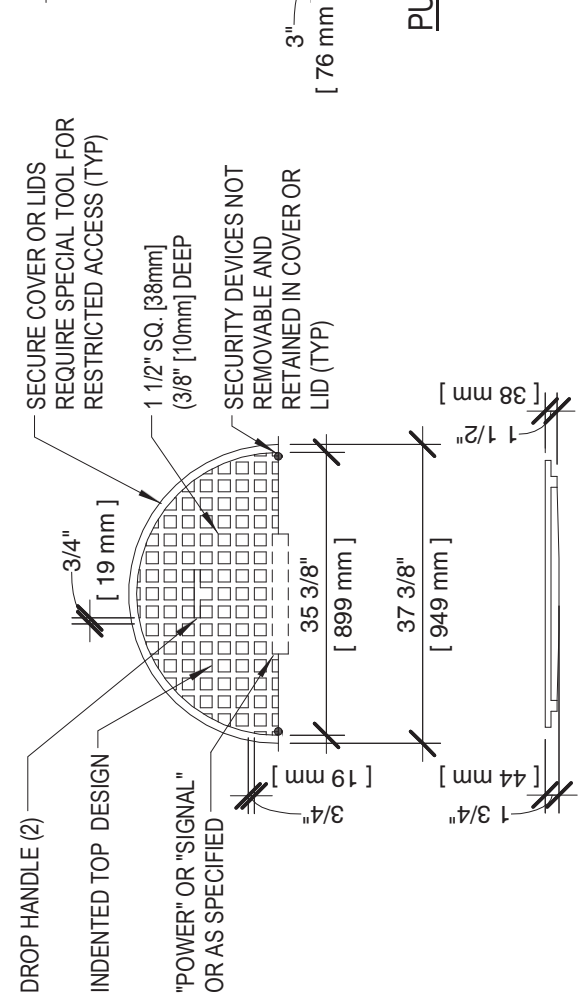
CONCRETE PULLBOX (TURF AREAS)

EXISTING DUCT BANK LAYOUT

NEW DUCT BANK TO EXISTING  
BASEMENT INTERSTITIAL SPACE

6

DUCT BANK SIZING AND LAYOUT  
NOT TO SCALE



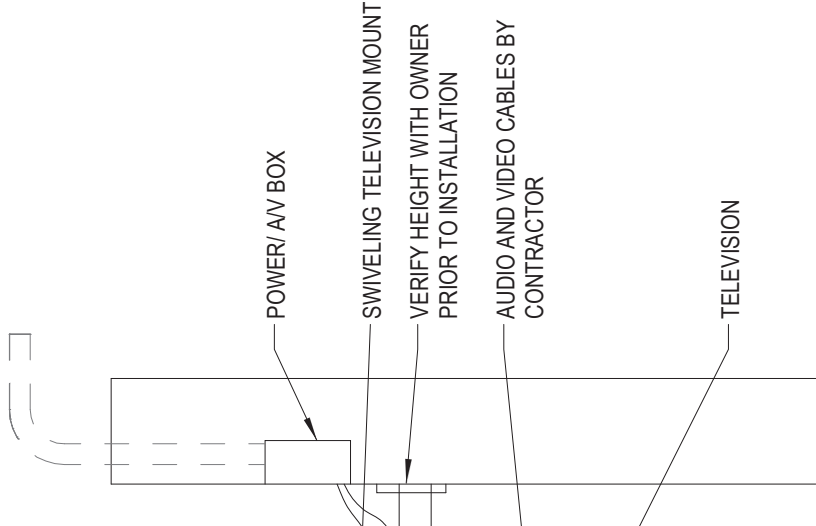
YY = COMMUNICATIONS ROOM WHERE CABLES TERMINATE  
ZZZ = CABLE NUMBER ON THAT FLOOR, 001 - 999

- 3. VERIFY LABELING WITH OWNER PRIOR TO INSTALLATION OF LABELS.

9

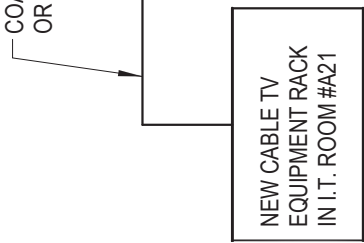
CABLE LABELING DETAIL

NOT TO SCALE



TELEVISION MOUNTING DETAIL NOTES:

1. CONTRACTOR SHALL PROVIDE ALL AUDIO AND VIDEO PATCH CABLES BETWEEN THE TELEVISION AND THE FACEPLATES.
2. THE CONTRACTOR SHALL SUPPLY ANY AND ALL BALUNS, COUPLERS, ADAPTERS AND CONVERTERS THAT ARE REQUIRED FOR THE INTERCONNECTION OF ALL THE AUDIO / VIDEO COMPONENTS.
3. WHERE ITEMS ARE BEING PROVIDED BY OTHERS, THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER APPLICABLE TRADES AND THE OWNER ON THE INSTALLATION OF THIS CABLE AND COMPONENTS.
4. MOUNT THE TV TO THE WALL BRACKET. COORDINATE LOCATION WITH ALL OUTLETS AND OTHER SERVICES.
5. TELEVISION AND BRACKET PROVIDED BY OWNER.
6. PROVIDE INTEGRATION FOR CONTROL WITH NURSE CALL PILLOW SPEAKER SYSTEM.
7. BASIS OF DESIGN FOR POWER/ AV BOX IS HUBBELL NETSELECT FPTV. WITH COVER FOR PATIENT AND CONFERENCE ROOM INSTALLATIONS.
8. PROVIDE INTEGRATION IN ALL PATIENT ROOMS WITH PILLOW SPEAKER CONTROLS



10

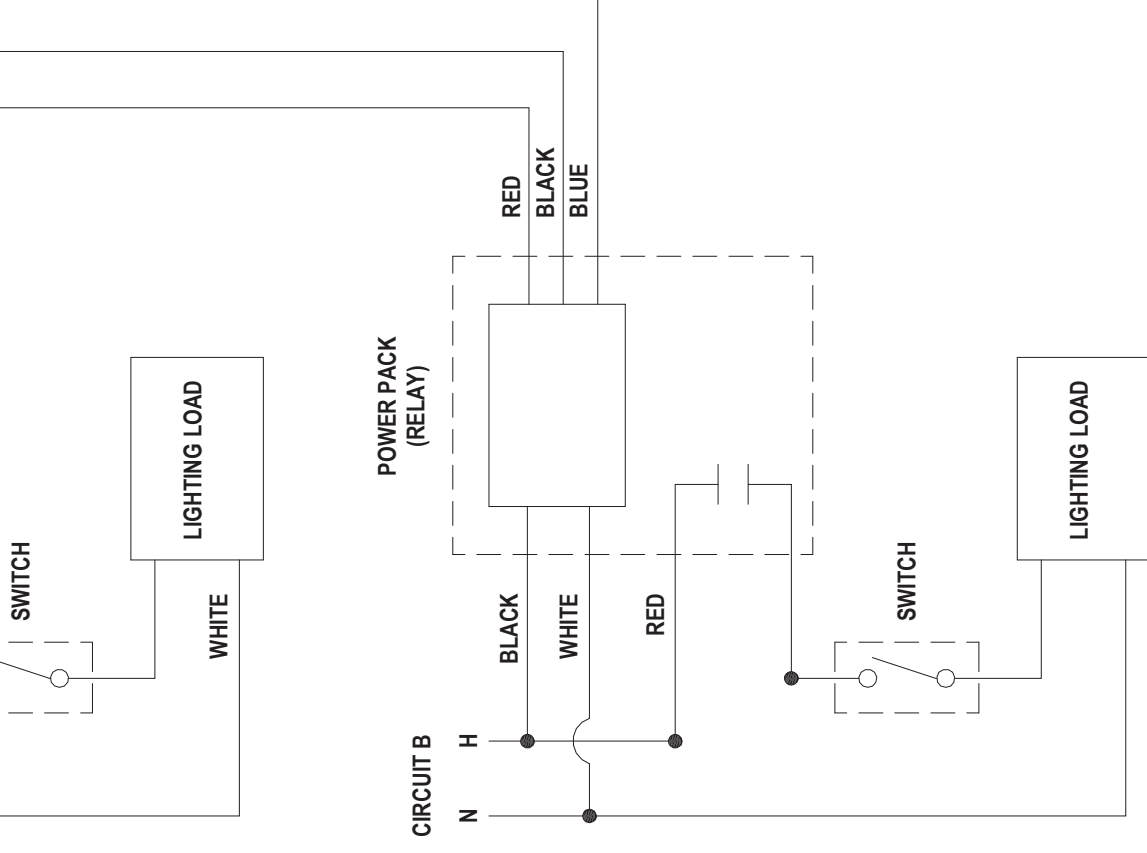
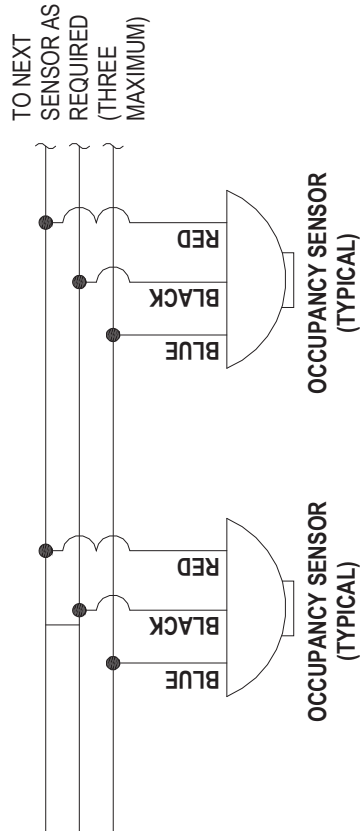
TELEVISION MOUNTING DETAIL

CONDUIT JOINT CROSSING DETAIL (TYP.)

NOT TO SCALE



OCCUPANCY SENSORS WITH OVERRIDE 'OFF'



OCCUPANCY SENSORS WITH 3-WAY OVERRIDE 'OFF'

DUAL CIRCUIT - ONE OR TWO OCCUPANCY SENSORS WITH OVERRIDE