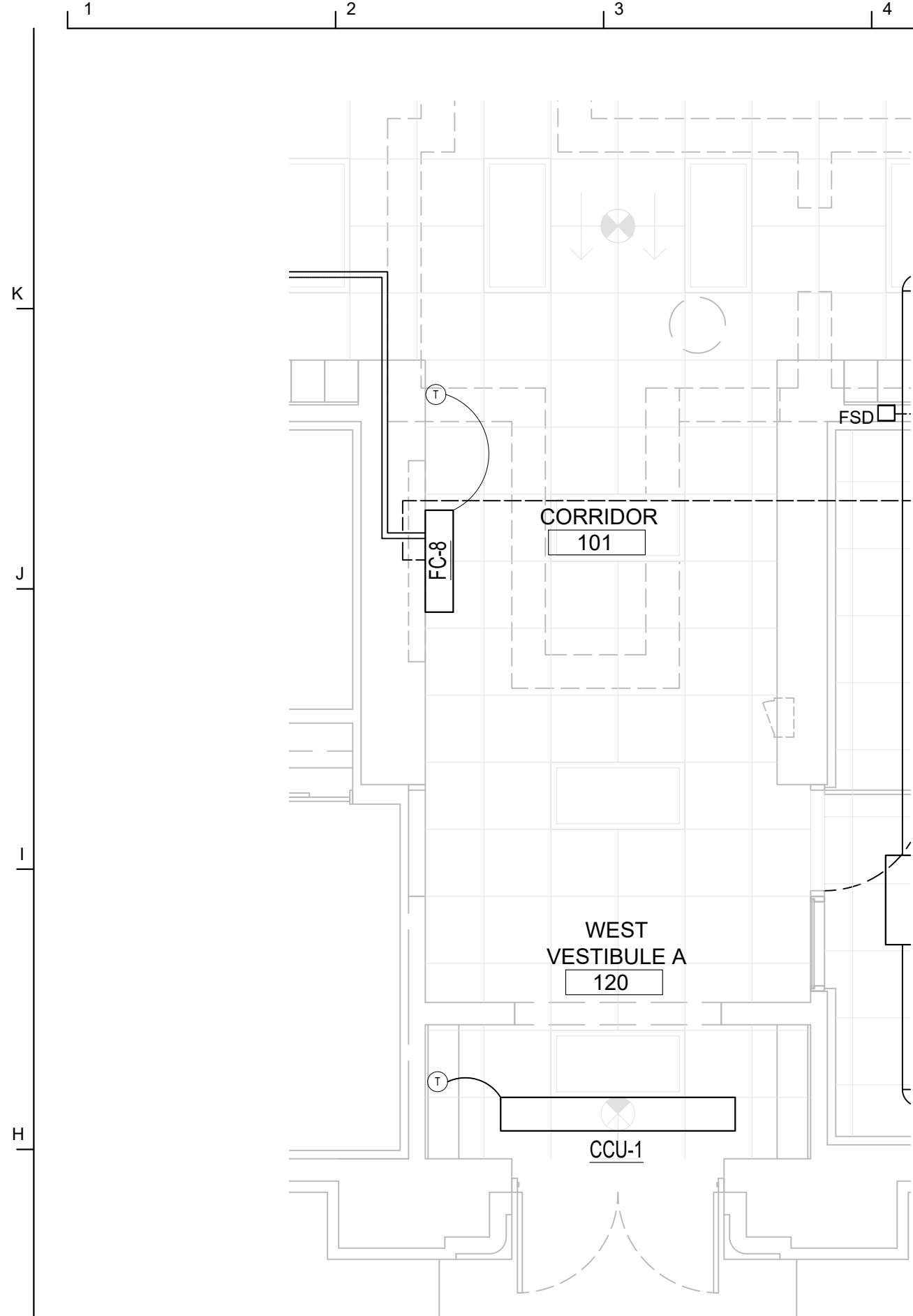
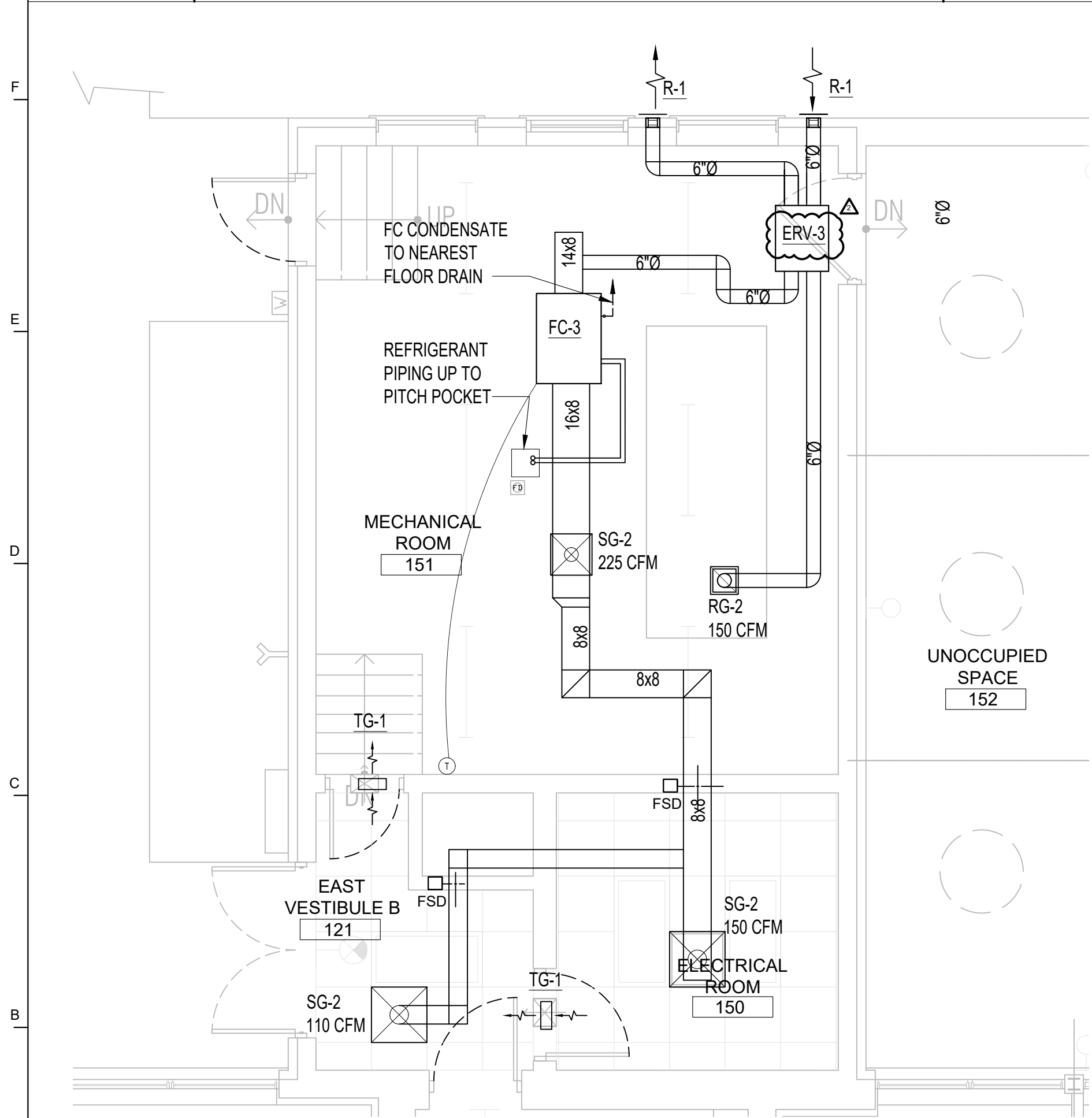


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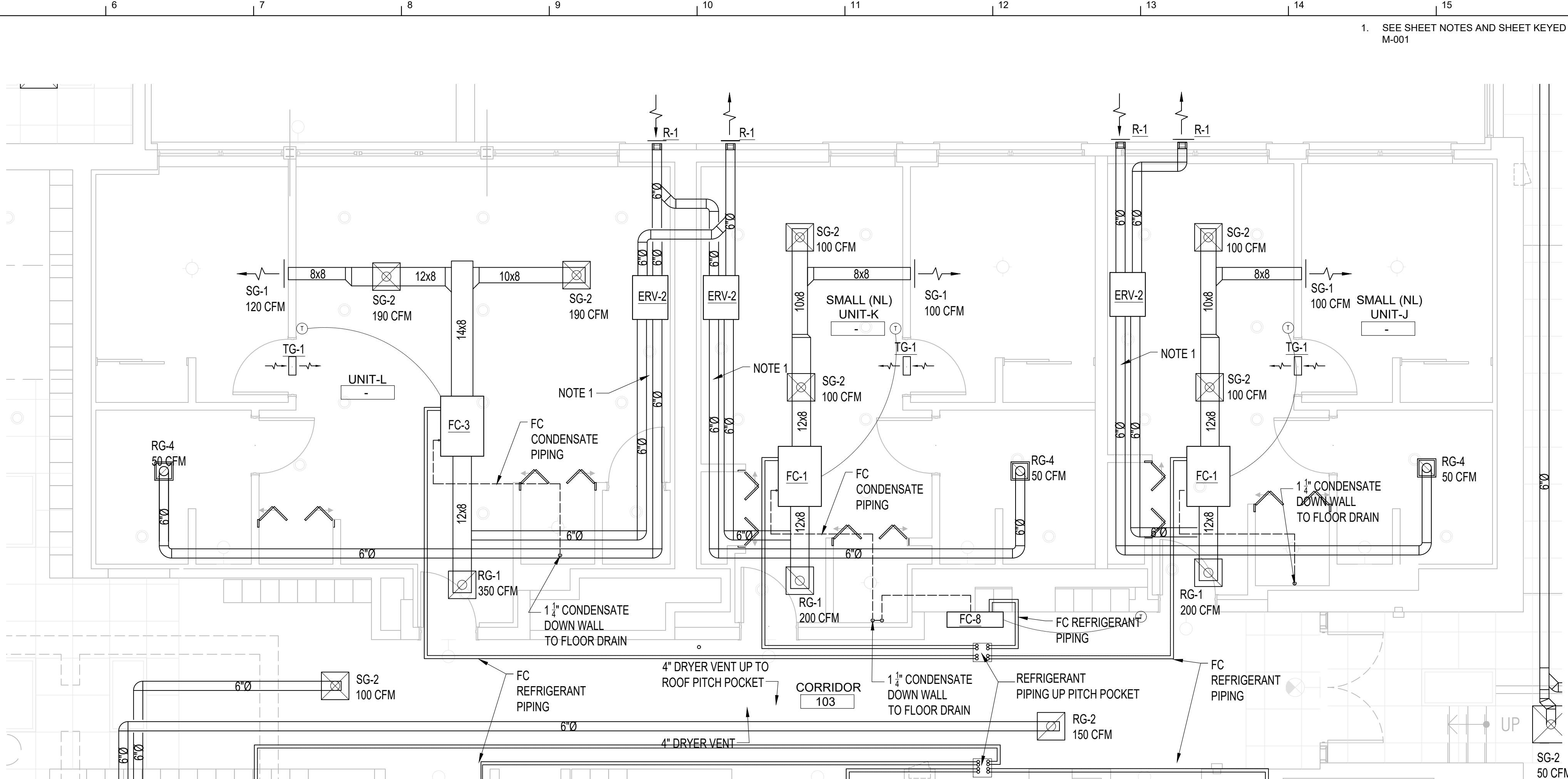
G1 ENLARGED HVAC PLANS

M-403 1/4" = 1'-0"



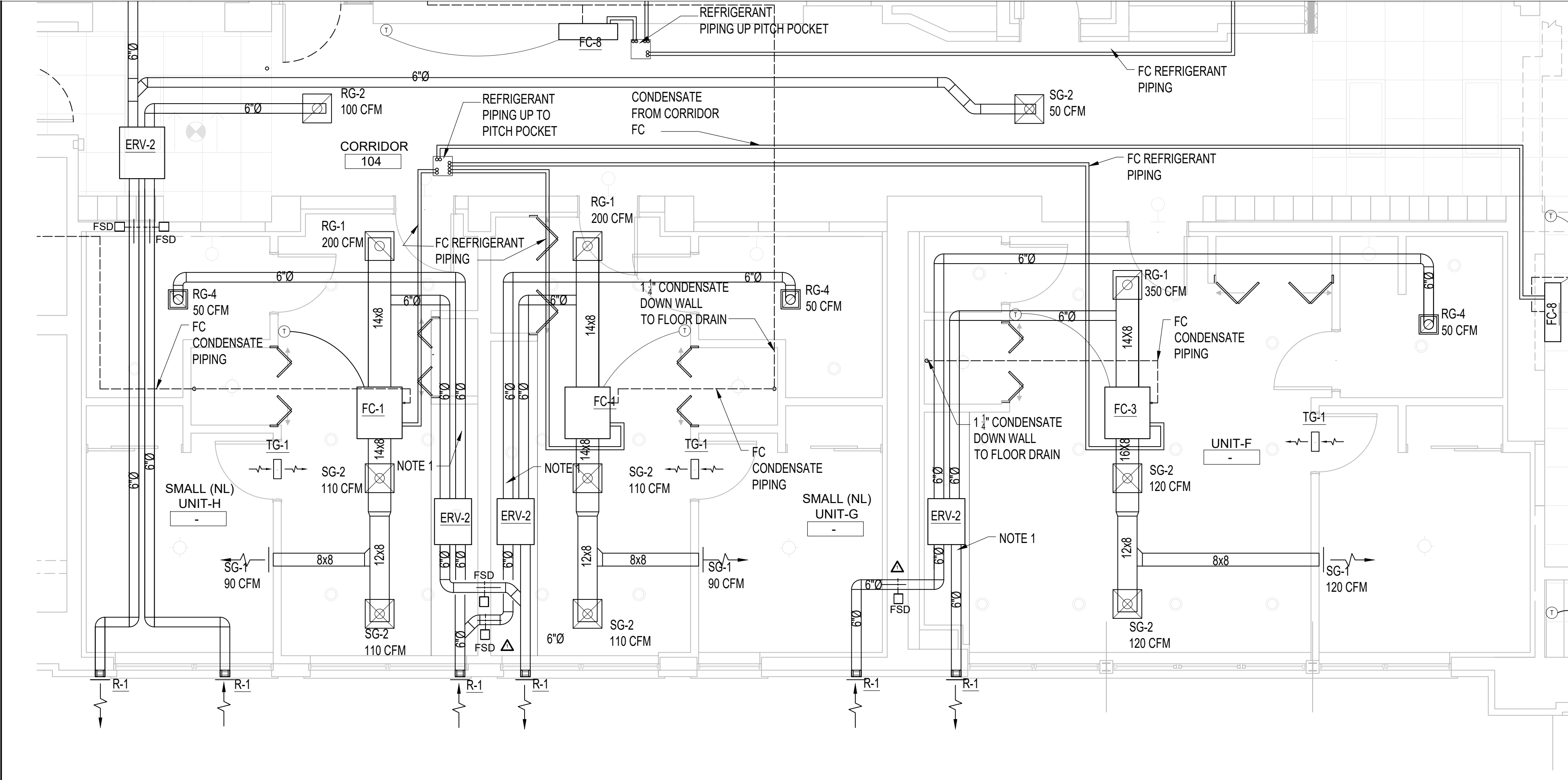
A1 ENLARGED HVAC PLAN

M-403 1/4" = 1'-0"



G5 ENLARGED HVAC PLANS

M-403 1/4" = 1'-0"



A6 ENLARGED HVAC PLANS

M-403 1/4" = 1'-0"

1. SEE SHEET NOTES AND SHEET KEYED NOTES ON M-001

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REGISTRATION SEAL



KEY PLANS

SHEET TITLE
**MECHANICAL HVAC
ENLARGED PLANS**

SCALE: AS NOTED

ISSUED FOR	DATE
PERMIT	10.20.24
△ BULLETIN 3	5.19.25
△ BULLETIN 5	10.13.25

DRAWN BY

CHECKED

APPROVED

FILE NO.

SHEET NO.

21026.00

M-403



SHEET TITLE

MECHANICAL HVAC
ENLARGED PLANS

SCALE: AS NOTED

ISSUED FOR	DATE
PERMIT	10.20.24
<u>△ BULLETIN 3</u>	<u>5.19.25</u>
<u>△ BULLETIN 5</u>	<u>10.13.25</u>

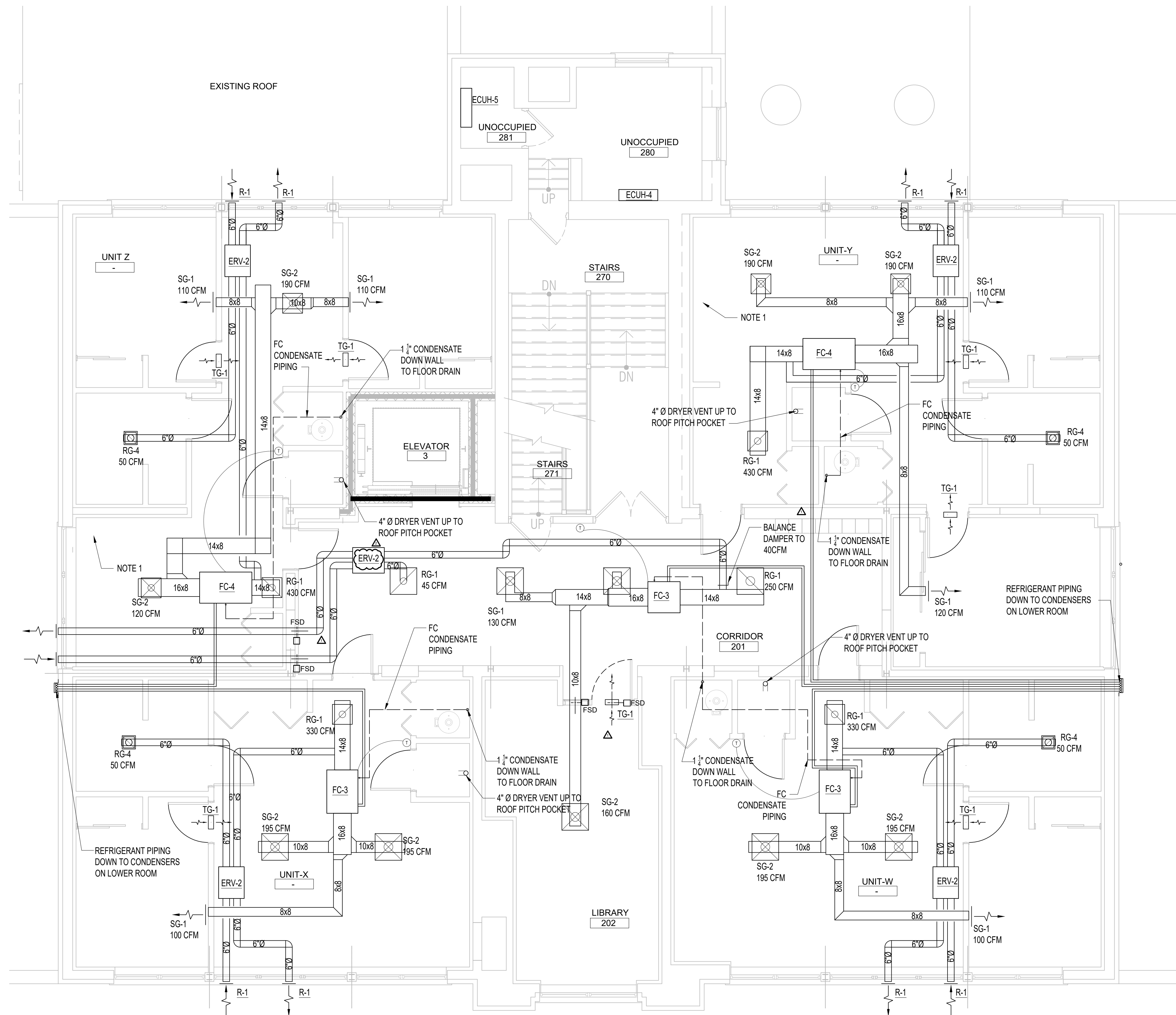
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FILE NO.

SHEET NO.



A1 ENLARGED HVAC PLANS

A5 ENLARGED HVAC PLANS

21026.00

M-406

10/11/2025 6:27:53 AM

ENERGY RECOVERY VENTILATOR & FAN SCHEDULE

IDENTIFIER	SERVICE	LOCATION	EXHAUST AIR FLOW (CFM)		QTY	SUPPLY FAN		QTY	EXHAUST FAN		QTY	HEAT EXCHANGER		QTY	ELECTRICAL DATA		DIMENSIONS (IN)			WEIGHT (LBS)	BASIS OF DESIGN		NOTES											
			OUTDOOR AIR	EXHAUST AIR		ESP (IN. WC)	MOTOR R (HP)		ESP (IN. WC)	MOTOR (HP)		EAT DB (°F)	LAT DB (°F)		RAT (°F)	SENSIBLE EFFECTIVENESS %	LATENT EFFECTIVENESS %	EAT DB (°F)	LAT DB (°F)		RAT (°F)	SENSIBLE EFFECTIVENESS %		LATENT EFFECTIVENESS %	MCA	MOCP	VOLTS/PH/Hz	L	W	H	MANUFACTURER	MODEL		
ERV -1	Addition – Floor 1 & 2	Roof	2180	1890	1	1.4	1.7	1	1.3	1.9	90	73.4	80.3	68.8	75.0	62.5	66.2%	44.4	0	46.3	51.3	66.2	66.0	11.3	15	208-230/160	81 7/8	22	58 1/2	261-415	Ymjlund	AS1	5	
ERV -2	Residential units	Residential units	50-100	50-100	1	1-4		1	1-4		95	60%							32			84%					120/160	28 1/2	23	9 7/8		Panasonic	Imesh Balance FY-10VCL3	1, 3
ERV -3	Hallways & Library Room	Various	60-200	60-200	1	0.4		1	0.4		95	61%							32			86%					120/160	27 1/2	30 1/2	19 1/2		Panasonic	Imesh Balance FY-10VCL3	1, 3
ERV -4	Community Room (Gym)	Existing Roof	692	720	1	0.85	0.77	2	0.65	0.70	90.7	73.4	80.3	68.8	75.0	62.5	66.2%		44.4	0	46.3	51.3	66.2	66.0	11.3	15	208-230/160	81 7/8	22	58 1/2	261-415	RenewAir	HE10-WITH-SS5AH-DG1-L	1, 2, 3
TF -1	Addition	Residential Units	60	0	1	0.03																					120/160	3	18 3/4	7 3/4		Ymjlund	AS1	5

- NOTES:
- Refer to manufacturer cut sheets for effectiveness for various cfm and temperature ranges.
 - Refer to manufacturer cut sheet for roof mounting detail and curb dimensions.
 - Provide access panel in location to access filters and units for proper maintenance and service.
 - Coordinate with architectural and electrical for placement in ceiling and routing of duct work. Refer to additional details and control sequence..
 - Provide 24v relay/transformer FC24 and provide necessary wiring to a 24v adjustable thermostat that meets PHILUS requirements. Coordinate location and finish with other trades and architectural plans.
 - Provide and install roof as required refer to architectural and structural drawings.
 - Unit comes pre packaged with electric pre heater at 480V 3P, MOP 30A, MCA 32.7A. Requires separate circuit

HEAT PUMP - FCU SCHEDULE

IDENTIFIER	SERVICE	TYPE	CONDENSING UNIT	SUPPLY FAN				COOLING				ELECTRICAL DATA				DIMENSIONS (IN)				WEIGHT (LBS)	BASIS OF DESIGN		NOTES		
				SPEED	AIR FLOW (CFM)		ESP (IN. WC)	ROUND PRESSURE LEVEL (RPA)	TON	TOTAL MBH	SENSIBLE MBH		SHR	HEATING TOTAL MBH	VOLTAGE	PHASE	MCA	MOCP	W		H	D		MANUFACTURER	MODEL
					OUTSIDE AIR (CFM)	OUTSIDE AIR (CFM)					TON	TON													
FC-1	Residential units, library, offices.	Ducted	ACCU-1		317	0.2	30	0.75	9	12.5	208	1	0.74	15	31 1/8	7 7/8	27 9/16	42	Mitsubishi	SEZ-KD09NAMRT1 TH	1, 2				
FC-2	Residential units, Corridors, Mechanical	Ducted	ACCU-2		388	0.2	33	1.1	12	15	208	1	0.80	15	39	7 7/8	27 9/16	50	Mitsubishi	SEZ-KD12NAMRT1 TH	1, 2				
FC-3	Residential units, Laundry	Ducted	ACCU-3		429	0.2	33	1.25	15	18	208	1	1.1	20	39	7 7/8	27 9/16	54	Mitsubishi	SEZ-KD15NAMRT1 TH	1, 2				
FC-4	Residential units, Custodial	Ducted	ACCU-4		635	0.2	38	1.5	18	21.6	208	1	1.13	20	46 7/8	7 7/8	27 9/16	62	Mitsubishi	SEZ-KD18NAMRT1 TH	1, 2				
FC-5	Prep Space	Wall Mounted	ACCU-5		701	34	1.87	2.4		21.2	208	1	1	20	43 5/16	12 13/16	9 3/8	37	Mitsubishi	MSZ-GS24NA	1, 2				
FC-6	Community Gym, Reading Room	Wall Mounted	ACCU-6		775	39	2.5	30		32	208	1	1	35	48 1/16	14 3/8	11 5/8	46	Mitsubishi	PKA-A30K4B	1, 2, 3				
FC-7	Offices, Hot Room	Wall Mounted	ACCU-7		437	36	0.75	9		9.6	208	1	1	15	36 7/16	12 11/16	9 3/16	29	Mitsubishi	MUZ-FS09NA	1, 2				
FC-8	Corridors - Existing	Wall Mounted	ACCU-8		514	46	1.5	19		24	208	1	1	20	36 7/16	12 11/16	9 3/16	29	Mitsubishi	MUZ-FS19NA	1, 2				
FC-9	Addition - Lobby	Ceiling Mount	ACCU-9		570-880	38	2.5	30		34	208	1	1	40	33 1/16	11 3/4	33 1/16	67	Mitsubishi	FLAAS3EAB	1, 2, 3				
FC-10	Residential Units – Living Area	Ceiling Mount	ACCU-10		325	38	0.75	9		12	208	1	1	15	43 3/8	7 5/16	14 3/16	34	Mitsubishi	MLZ-KP09NA2	1, 3, 4, 5, 6				
FC-11	Residential Units – Living Area	Ceiling Mount	ACCU-11		350	40	0.5	6		7.2	208	1	1	15	43 3/8	7 5/16	14 3/16	34	Mitsubishi	MLZ-KP12NA2	1, 3, 4, 5, 6				
FC-12	Corridor - Addition	Ceiling Mount	ACCU-12		530-670	35	2.0	24		28	208	1	1	27	60 3/8	9 11/16	26 3/4	31	Mitsubishi	PCA-A24K4B	1, 2, 3				
FC-13	Mechanical & Storage Rooms	Wall Mount	Various		117-437	40	0.5	9		14	208	1	1	15	36 7/16	12	9 3/16	29	Mitsubishi	MSZ-FS09NA	1, 2, 3, 4, 5				

- NOTES:
- Utilize Mitsubishi Touch MA Controller PAR-CT01MAU-SB, provide routing to location on mechanical drawings and associated wiring per manufacturer specifications.
 - Receive power and control ACCU on roof. Mechanical contractor to coordinate install and routing.
 - PROVIDE CONDENSATE PUMP IF REQUIRED FOR ROUTING OF CONDENSATE DRAIN TO NEAREST AVAILABLE FLOOR DRAIN, REFER TO MANUFACTURER SPECIFICATIONS.
 - INCLUDE SYSTEM CONTROL INTERFERENCE, TEMPERATURE SENSOR AND ALL CONTROLS TO ALLOW OPERATION IN MULTI-ZONE SETUP.
 - PROVIDE ALL WIRING AND PIPING NEEDED TO CONNECT TO BRANCH BOX AS SHOWN ON DRAWINGS.
 - INCLUDE GRILLE MLP-448WU AS REQUIRED.

ELECTRIC DUCT HEATER SCHEDULE+B33:AR58B33:A33:CM62

IDENTIFIER	MANUFACTURER	MODEL	QUANTITY	DESCRIPTION	NOTES
DH-1	RenewAir	EK-121208SCCHR—21-15V-N	1	Ducted electric heater	1,2,3,4
DH-2	RenewAir	EK-XXXX10SCCHL—21-15-N	1	Ducted electric heater	1,2,3,5

- NOTES:
- Voltage for heater is 208/230/160, coordinate with electrical contractor.
 - Provide duct thermostat sensor kit for SCR control. Install per manufacturer specifications for location and wiring. Duct temperature sensor to be in supply side of duct work.
 - Interlock duct heater with fan proof from ERV, do not run duct heater without supply fan running.
 - Protect heater and heater control panel from elements, Refer to mechanical details.
 - Match duct size on drawing to duct heater size to fit properly in duct layout, model number with xxxx designates duct work dimensions.

OUTDOOR HEAT PUMP UNIT SCHEDULE

IDENTIFIER	TYPE	LOCATION	SERVICE	COOLING		HEATING		Refrigerant Type	ELECTRICAL DATA				DIMENSIONS (IN)		WEIGHT (LBS)	BASIS OF DESIGN		NOTES
				TOTAL MBH	EER	TOTAL MBH	COP @ 47° F		MOCP	RLA	VOLTS/PH/Hz	H	W	D		MFG#R	MODEL	
ACCU-1	Heat Pump Air Cooled Condenser	Roof	FC-1	9	13	12	4.03	R410A	24	13	208/230/160	34 5/8	38 9/16	13	129	Mitsubishi	SUZ-KA09NAHZ	1, 2, 3, 4
ACCU-2	Heat Pump Air Cooled Condenser	Roof	FC-2	12	13	15	3.90	R410A	24	13	208/230/160	34 5/8	38 9/16	13	129	Mitsubishi	SUZ-KA12NAHZ	1, 2, 3, 4
ACCU-3	Heat Pump Air Cooled Condenser	Roof	FC-3	15	12.5	18	2.70	R410A	31	16	208/230/160	34 5/8	38 9/16	13	131	Mitsubishi	SUZ-KA15NAHZ	1, 2, 3, 4
ACCU-4	Heat Pump Air Cooled Condenser	Roof	FC-4	18	13.1	21.6	3.40	R410A	31	16	208/230/160	34 5/8	38 9/16	13	131	Mitsubishi	SUZ-KA18NAHZ	1, 2, 3, 4
ACCU-5	Heat Pump Air Cooled Condenser	Roof	FC-5	22.4	12.6	21.2	4.03	R410A	20	13.6	208/230/160	34 5/8	33 1/16	13	120	Mitsubishi	MUZ-GS24NAHZ	1, 2, 3, 4
ACCU-6	Heat Pump Air Cooled Condenser	Roof	FC-6	30	12.8	32	3.38	R410A	40	18	208/230/160	52 11/16	41 5/16	14 3/16	261	Mitsubishi	PUZ-HA30NKA	1, 2, 3, 4
ACCU-7	Heat Pump Air Cooled Condenser	Roof	FC-7	09	16	9.6	4.54	R410A	15	10	208/230/160	21 5/8	31 1/2	11 1/4	82	Mitsubishi	MUZ-FS09NA	1, 2, 3, 4
ACCU-8	Heat Pump Air Cooled Condenser	Roof	FC-8	15	14	16	4.06	R410A	20	17	208/230/160	34 5/8	33 1/16	13	117	Mitsubishi	MUZ-FS19NA	1, 2, 3, 4
ACCU-9	Heat Pump Air Cooled Condenser	Roof	FC-9	30	14.1	24	4.1	R410A	40	18	208/230/160	52 43/64	41 11/32	12 63/64	261	Mitsubishi	PUZ-HA30NKA	1, 2, 4, 5
ACCU-10	Heat Pump Air Cooled Condenser	Roof	FC-10	9	12.5	14	4.1	R410A	24	10	208/230/160	34 5/8	38 1/16	13	129	Mitsubishi	SUZ-KA09NAHZ	1, 2, 4, 5
ACCU-11	Heat Pump Air Cooled Condenser	Roof	FC-11	12	12.7	18	3.8	R410A	24	10	208/230/160	34 5/8	33 1/16	13	129	Mitsubishi	SUZ-KA12NAHZ	1, 2, 4, 5
ACCU-12	Heat Pump Air Cooled Condenser	Roof	FC-12	24	12.5	28	3.71	R410A	27	9	208/230/160	37 1/8	37 13/32	13	190	Mitsubishi	PUZ-HA24NHAT-R1	1, 2, 4, 5
ACCU-13	Heat Pump Air Cooled Condenser	Roof	FC-13	9	19	14	4.68	R410A	15	9.2	208/230/160	21 5/8	31 1/2	11 1/4	82	Mitsubishi	MUZ-FS06NA	1, 2, 4, 5
ACCU-14	Heat Pump Air Cooled Condenser	Roof	FC-13	36	15	42	4.0	R410A	86		208/230/160	52 11/16	41 11/32	13	278	Mitsubishi	MXZ-SM36NAMHZ2	1, 2, 4, 5, 6

- NOTES:
- 12 IN CONDENSER STAND TO BE SUPPLIED QSMS1201M
 - UTILIZE MICROPARTICULATE FILTER PM2.5 (part number MAC-EMF615FT-E)
 - INSTALL 2-PIECE WIND BAFFLE WB-PA3
 - PROVIDE ALL NECESSARY LINE SETS AT CORRECT SIZE TO CONNECT TO INDOOR UNIT.
 - INSTALL WIND BAFFLE LOW AMBIENT KIT
 - PIPE TO BRANCH BOX (BB-1) PART NUMBER PAK-MAS2BC. SUPPORT BRANCH BOX VIA ALL THREAD AND MOUNTING APPROVED BY STRUCTURAL. POWER FOR BRANCH BOX FROM OUTDOOR UNIT. REFER TO MANUFACTURER SPECIFICATIONS FOR WIRING, PIPING PRACTICES AND MOUNTING.

DIFFUSER AND GRILLE SCHEDULE

IDENTIFIER	TYPE	SYSTEM	LOCATION	FRAME	DAMPER	MAX NO	MANUF	MODEL #	REMARKS
FG-1	Wall mounted transfer grill	Wall Transfer Return	Apartments	N			Price	2202	Baked White Enamel, 2, 3
SG-1	Soffit supply air register	Supply Air	Various	Y			Price	840 Series	White Finish, 2, 3.
SG-2	Ceiling supply air 24x24 face	Supply Air	Various	Y			Price	ASCO	Baked White Enamel, 1, 2, 3
SG-3	Supply air register	Supply Air	Community Space	Y			Price	89-LA-B12	2, 3
RG-1	Pillar housed return grille	Return Air	Apartments	N			Price	835FF-LH	White B12, 2, 3, 4, 6
RG-2	Ceiling return air 24x24 face	Return Air	Various	N			Price	FDOR Series	White finish, 2, 3.
RG-3	Return air register	Return Air	Community Space	N			Price	97-LA-B12	2, 3
RG-4	Exhaust return grille	Return Air	Apartments	N			Price	830-535	White B12, 2, 3, 4
R-1	Intake & Exhaust Register	OA & Exhaust	Exterior	Y			Price	Primax	WCX 2, 3, 5, 6
R-1	Intake & Exhaust Register	OA & Exhaust	Exterior	N			Price	Accl Series	2, 3, 5, 7

- NOTES:
- FRONT BLADES PARALLEL TO SHORT DIMENSION
 - COORDINATE INSTALL LOCATION WITH ARCHITECTURAL PLANS. FOR LAYIN DIFFUSERS COORDINATE WITH REFLECTED CEILING PLAN FOR PROPER MOUNTING.
 - COORDINATE NECK SIZE WITH MECHANICAL DRAWING DUCT SIZING.
 - SURFACE MOUNTING (SM) FOR SOFFIT OR CEILING INSTALLATION
 - PAINT TO MATCH EXTERIOR BRICK
 - IF USED AS INTAKE REMOVE DAMPER
 - INTERGRATE BIRD SCREEN OPTION FROM MANUFACTURER
 - WHEN LOCATED IN KITCHEN PROVIDE MERV3 1 IN FILTER TO FIT. SIZE TO BE 10IN X 10IN IN KITCHEN AREA AND LOCATED WITH 6FT FROM HOOD SYSTEM.

ELECTRIC UNIT HEATER SCHEDULE

Tag	Location	Type	CFM	Power	Voltage	Phase	Mounting Height	Length	Width	Height	Weight (lbs)	Manufacturer	Model	Remarks
ECUH-1	Addition Stairwells	Wall Mounted	500	6.0 KW	208 V	1	6" ABOVE FF	45"	9 3/4"	26 3/8"	160	Qmark	CU945	CU945-06-20-1-B-F-2B-2-C-S-S-P-K-O-W, 1, 2
ECUH-2	106 and Corridor 212	Wall Mounted	250	5.0 KW	208 V	1	6" ABOVE FF	35"	9 3/4"	26 3/8"	120	Qmark	CU935	CU935-06-20-1-B-F-2B-2-C-S-S-P-K-O-W, 1, 2
ECUH-3	Vestibules - West B & East A	Wall Mounted	250	6.0 KW	208 V	1	6" ABOVE FF	35"	9 3/4"	26 3/8"	120	Qmark	CU935	CU935-06-20-1-B-F-2B-2-C-S-S-P-K-O-W, 1, 2
ECUH-4	East Vestibule B, Unoccupied rooms 280 & 380	Wall Mounted	250	7.0 KW	208 V	1	6" ABOVE FF	35"	9 3/4"	26 3/8"	120	Qmark	CU935	CU935-07-20-1-B-F-2B-2-C-S-S-P-K-O-W, 1, 2
ECUH-5	Existing room 281 & Addition Entrance	Wall Mounted	250	3.0 KW	208 V	1	6" ABOVE FF	35"	9 3/4"	26 3/8"	120	Qmark	CU935	CU935-03-20-1-B-F-2B-2-C-S-S-P-K-O-W, 1, 2
CCU-1	West Vestibule A - 120	Ceiling Mounted	3003	20 KW	208 V	1	Ceiling Height	20 1/4"	75"	16 1/2"	364	Powered Aire	CHD-E-2-72	3, 4