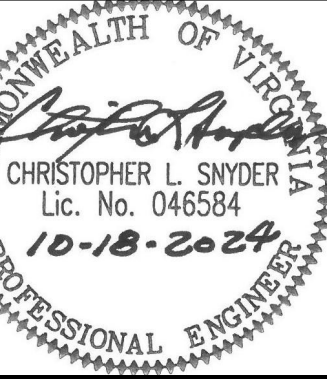


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BOTETOURT COUNTY
NEW CIRCUIT COURTHOUSE
1 WEST MAIN ST. #120, FINCASTLE, VA 24090
PROJECT NO.: 24131

BID SET



PROFESSIONAL ENGINEER
CHRISTOPHER L. SNYDER
Lic. No. 046584
10-18-2024

DATE: 10-18-2024
DESIGNED: TSL
DRAWN: TSL
CHECKED: CLS
REVISIONS:
11-15-2024 ADDENDUM #3

HVAC SCHEDULES

M0.02

REMOTE-CONDENSER SCROLL CHILLER SCHEDULE

MARK	MODEL NUMBER	TONS	REFRIGERANT	V/Ph/Hz	EVAPORATOR EWT	EVAPORATOR LWT	EVAPORATOR GPM	EVAPORATOR DP, FT	REMARKS
CH-1	TPACRM0250D4-MM	63.45	R-410A	460/3/60	57	42	105.5	3.48	1,2

- REMARKS:
1. MODEL NUMBER BASED ON TRANE.
2. CAPACITY BASED ON 25% PROPYLENE GLYCOL CONCENTRATION.

BUFFER TANK SCHEDULE

MARK	DUTY	MODEL NUMBER	GALLON CAPACITY	REMARKS
BT-C	CHW	BVU300	300	1,2
BT-H	HW	BVU300	300	1,2

- REMARKS:
1. MODEL NUMBER BASED ON LOCHINVAR.
2. PROVIDE WITH INSULATED JACKET AND AIR VENT.

PUMP SCHEDULE

MARK	DUTY	SERIES	MODEL NUMBER	RPM	HP	GPM	HEAD, FT	V/Ph/Hz	REMARKS
BP-1	B-1 CIRCULATOR	60	2x2x5.25	1800	0.75	36	21	460/3/60	1
BP-2	B-2 CIRCULATOR	60	2x2x5.25	1800	0.75	36	21	460/3/60	1
CP-1	CH-1 CIRCULATOR	E-1531	2AD	1800	1.5	105.6	30	460/3/60	1
P-1	HW SYSTEM	E-1531	1.25BC	1800	3	55	60	460/3/60	1,2
P-2	HW SYSTEM	E-1531	1.25BC	1800	3	55	60	460/3/60	1,2
P-3	CHW SYSTEM	E-1531	2BD	1800	3	95.2	50	460/3/60	1,2
P-4	CHW SYSTEM	E-1531	2BD	1800	3	95.2	50	460/3/60	1,2

- REMARKS:
1. MODEL NUMBER BASED ON BELL & GOSSETT.
2. WITH MOTOR SUITABLE FOR USE WITH VFD.

AIR-COOLED CONDENSER SCHEDULE

MARK	MODEL NUMBER	NOM COOLING TONS	SYSTEM SERVED	FAN HP	V/Ph/Hz	REMARKS
C-1	MCS8024-070	70	CH-1	1.5	460/3/60	1

- REMARKS:
1. MODEL NUMBER BASED ON MODINE.

BOILER SCHEDULE

MARK	DUTY	MODEL NUMBER	FUEL	INPUT MBH	OUTPUT MBH	GAS PRESSURE (IN. W.G.)	V/PH/Hz	REMARKS
B-1	HEATING HOT WATER	KBX0650N	NATURAL GAS	650	631	4-14	120/1/60	1,2,3
B-2	HEATING HOT WATER	KBX0650N	NATURAL GAS	650	631	4-14	120/1/60	1,2,3

- REMARKS:
1. MODEL NUMBER BASED ON LOCHINVAR.
2. PERFORMANCE BASED ON 180 DEG. F LWT AND 140 DEG. F EWT.
3. WITH 10:1 TURNDOWN.

FAN SCHEDULE

MARK	MODEL NUMBER	CFM	SP in Wg	WATTS/HP	SONES	DRIVE	RPM	V/Ph/Hz	REMARKS
EF-1	GC-146	50	0.5	29 W	2.5	DIRECT	842	115/1/60	1,2,3,4,5
EF-2	GC-166	100	0.5	41 W	2.5	DIRECT	1023	115/1/60	1,2,3,4,5
EF-3	GC-166	120	0.5	41 W	2.5	DIRECT	1023	115/1/60	1,2,3,4,5
EF-4	GC-166	100	0.5	41 W	2.5	DIRECT	1023	115/1/60	1,2,3,4,5
EF-5	GC-146	50	0.5	29 W	2.5	DIRECT	842	115/1/60	1,2,3,4,5
EF-6	GC-146	50	0.5	29 W	2.5	DIRECT	842	115/1/60	1,2,3,4,5
EF-7	GC-146	50	0.5	29 W	2.5	DIRECT	842	115/1/60	1,2,3,4,5
EF-8	GC-146	50	0.5	29 W	2.5	DIRECT	842	115/1/60	1,2,3,4,5
EF-9	GC-146	50	0.5	29 W	2.5	DIRECT	842	115/1/60	1,2,3,4,5
EF-10	GC-146	50	0.5	29 W	2.5	DIRECT	842	115/1/60	1,2,3,4,5
EF-11	GC-146	50	0.5	29 W	2.5	DIRECT	842	115/1/60	1,2,3,4,5
EF-12	GC-146	50	0.5	29 W	2.5	DIRECT	842	115/1/60	1,2,3,4,5
EF-13	GC-146	50	0.5	29 W	2.5	DIRECT	842	115/1/60	1,2,3,4,5
EF-14	GC-146	50	0.5	29 W	2.5	DIRECT	842	115/1/60	1,2,3,4,5
EF-15	120C ACEB OR80	300	0.5	1/6 HP	7.7	BELT	1153	115/1/60	1,2,3,4,5,6
EF-16	120C ACEB OR80	300	0.5	1/6 HP	7.7	BELT	1153	115/1/60	1,2,3,4,5,6
EF-17	GC-146	50	0.5	29 W	2.5	DIRECT	842	115/1/60	1,2,3,4,5
EF-18	120C ACEB OR80	275	0.5	1/6 HP	7.1	BELT	1114	115/1/60	1,2,3,4,5,6
EF-19	90SQ15D	700	0.5	1/6 HP	8.2	DIRECT	1550	115/1/60	1,2,3,4,5,6
EF-20	36EP614B	5000	0.375	1 HP	13.1	BELT	634	115/1/60	1,2,3,8,10
EF-21	300SQIB	5000	0.5	3/4 HP	7.2	BELT	443	115/1/60	1,2,3,4,11
EF-22	150ACE-D	1900	0.5	1/3 HP	11	DIRECT	1129	115/1/60	1,2,3,4,6,12
EF-23	150ACE-D	1900	0.5	1/3 HP	11	DIRECT	1129	115/1/60	1,2,3,4,6,12
EF-24	150ACE-D	1900	0.5	1/3 HP	11	DIRECT	1129	115/1/60	1,2,3,4,6,12

- REMARKS:
1. MODEL NUMBER BASED ON LOREN COOK.
2. PROVIDE FACTORY-MOUNTED AND WIRED DISCONNECT.
3. FURNISH FAN WITH MOTOR WITH INTEGRAL OVERLOAD PROTECTION.
4. FURNISH AND INST. ALL BACKDRAFT DAMPER.
5. FAN SHALL OPERATE CONTINUOUSLY WHEN SPACE SERVED IS OCCUPIED.
6. PROVIDE WITH INSULATED ROOF CURB. COORDINATE SLOPE WITH GC.
7. NOTE NOT USED.
8. PROVIDE WITH WALL COLLAR AND MOTOR-SIDE WIRE GUARD.
9. NOTE NOT USED.
10. INTERLOCK WITH LOUVER L-10.
11. INTERLOCK WITH LOUVERS L-8 AND L-9.
12. PROVIDE SPEED CONTROLLER MOUNTED ON FAN.

AIR HANDLING UNIT SCHEDULE

MARK	AREA SERVED	MODEL NUMBER	FAN CFM	OA CFM	FAN EXT S.P. IN. W.G.	FAN TYPE	FAN WATTS/HP	V/Ph/Hz	COOLING TONS	COOLING SEN MBH	COOLING EAT db/wb	COOLING LAT db/wb	HEATING NOM MBH	HEATING EAT/LAT db	MAX COIL FACE VEL	REMARKS
AHU-1A	FIRST FLOOR	CSAA008	3775	960	2	DIRECT	5 HP	460/3/60	10.4	101.4	79.4/65.4	55.0/54.4	113.6	56.2/84.0	550	1,2,3,4,5,6,14,15
AHU-1B	FIRST FLOOR	CSAA010	4440	1220	2	DIRECT	5 HP	460/3/60	12.4	121.2	79.8/65.6	55.0/54.5	144.8	55.1/85.2	550	1,2,3,4,5,7,14,15
AHU-2A	SECOND FLOOR	CSAA008	2590	680	2	DIRECT	3 HP	460/3/60	7.0	69.9	79.5/65.5	55.0/54.9	94.9	55.7/89.5	550	1,2,3,4,5,8,14,15
AHU-2B	SECOND FLOOR	CSAA008	3400	800	2	DIRECT	5 HP	460/3/60	8.7	90.2	79.1/65.2	55.0/54.9	106.9	57.2/86.2	550	1,2,3,4,5,9,14,15
AHU-3	JURY COURT ROOM	CSAA004	1600	310	2	DIRECT	1.5 HP	460/3/60	4.2	41.1	78.4/65.0	55.0/54.6	46.9	61.1/88.1	550	1,2,3,4,10,13,15,16
AHU-4	HEARING ROOM	CSAA003	1200	260	2	DIRECT	1.5 HP	460/3/60	3.2	31.4	78.8/65.0	55.0/54.6	30.7	59.8/83.4	550	1,2,3,4,10,13,15,16
AHU-5	LOBBY	CSAA003	1200	170	2	DIRECT	1.5 HP	460/3/60	2.8	29.6	77.5/64.0	55.0/54.5	29.0	64.0/86.3	550	1,2,3,10,15,16
AHU-6	BASEMENT FLOOR	CSAA006	2600	650	2	DIRECT	3 HP	460/3/60	6.9	69.5	79.3/65.3	55.0/55.0	77.7	56.4/84.0	550	1,2,3,4,5,11,14,15
AHU-7	ELEC 137	PKA-A12LA	455	0	0	DIRECT	46 W	208-230/1/60	1	10.2	80.0/67.0	55.0/55.0	14.0	70.0/60.0	-	12
AHU-8	ELEC 212	PKA-A12LA	455	0	0	DIRECT	46 W	208-230/1/60	1	10.2	80.0/67.0	55.0/55.0	14.0	70.0/60.0	-	12
AHU-9	COMPUTER 127	PKA-A12LA	455	0	0	DIRECT	46 W	208-230/1/60	1	10.2	80.0/67.0	55.0/55.0	14.0	70.0/60.0	-	12
AHU-10	I.T. 220	PKA-A12LA	455	0	0	DIRECT	46 W	208-230/1/60	1	10.2	80.0/67.0	55.0/55.0	14.0	70.0/60.0	-	12
AHU-11	A/V 240	PKA-A12LA	455	0	0	DIRECT	46 W	208-230/1/60	1	10.2	80.0/67.0	55.0/55.0	14.0	70.0/60.0	-	12
AHU-S	STAIR S02	PKA-A12LA	455	0	0	DIRECT	46 W	208-230/1/60	1	10.2	80.0/67.0	55.0/55.0	-	-	-	12

- REMARKS:
1. MODEL NUMBER BASED ON TRANE.
2. COIL PERFORMANCE BASED ON:
A. CHILLED WATER: 25% PROPYLENE GLYCOL, 42-57 DEG. F.
B. HOT WATER: 180-140 DEG. F.
3. PROVIDE WITH UV-C LIGHT, LIMIT SWITCH, AND UV PROTECTANT.
4. PROVIDE WITH 100% COMPARATIVE ENTHALPY ECONOMIZER.
5. PROVIDE WITH SUPPLY AND RETURN SMOKE DETECTORS. SMOKE DETECTORS SHALL INTERFACE TO THE FACILITY FIRE ALARM SYSTEM. SEE ELECTRICAL.
6. RETURN FAN PERFORMANCE: 2 HP, 3775 CFM AT 1.25 IN. W.G. ESP.
7. RETURN FAN PERFORMANCE: 3 HP, 4440 CFM AT 1.25 IN. W.G. ESP.
8. RETURN FAN PERFORMANCE: 1.5 HP, 2590 CFM AT 1.25 IN. W.G. ESP.
9. RETURN FAN PERFORMANCE: 1.5 HP, 3400 CFM AT 1.25 IN. W.G. ESP.
10. UNIT SHALL BE EQUIPPED WITH VFD FOR OPERATION IN SINGLE-ZONE VAV SYSTEM.
11. RETURN FAN PERFORMANCE: 1.5 HP, 2600 CFM AT 1.25 IN. W.G. ESP.
12. MODEL NUMBER BASED ON MITSUBISHI ELECTRIC.
13. WITH DEMAND-CONTROLLED VENTILATION AS REQUIRED BY CODE. SEE HVAC CONTROLS.
14. UNIT SHALL BE EQUIPPED WITH VFD FOR OPERATION IN MULTIPLE-ZONE VAV SYSTEM.
15. PROVIDE WITH CONDENSATE OVERFLOW SWITCH. WIRE CONDENSATE OVERFLOW SWITCH TO DISABLE UNIT IF THE CONDENSATE PAN FILLS WITH WATER.
16. PROVIDE WITH POWER EXHAUST FAN WITH 0.75 IN. W.G. ESP.

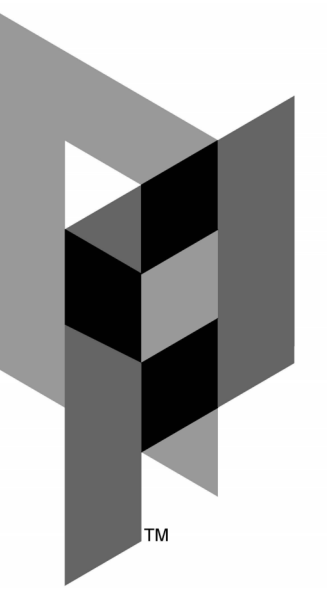
FAN-POWERED VAV BOX SCHEDULE

MARK	MODEL NUMBER	SIZE	ASSOCIATED AHU	MAX AIRFLOW CFM	MIN COOLING AIRFLOW CFM	A.P.D. (IN W.G.)	HEATING EAT/LAT	HEATING MBH	HEATING GPM	FAN HP	FAN DOWNSTREAM SP (IN. W.G.)	FAN V/Ph/Hz	REMARKS
VAV-1A-1	VSWF06	6	AHU-1A	465	140	0.41	65.5/91.4	13.1	0.50	1/3	0.5	115/1/60	1,2,3,4,5
VAV-1A-2	VSWF05	5	AHU-1A	285	90	0.06	65.3/98.5	10.3	0.50	1/8	0.5	115/1/60	1,2,3,4,5
VAV-1A-4	VSWF05	5	AHU-1A	330	110	0.08	65.0/95.2	10.8	0.50	1/8	0.5	115/1/60	1,2,3,4,5
VAV-1A-5	VSWF08	8	AHU-1A	595	180	0.23	62.4/90.0	17.8	0.70	1/3	0.5	115/1/60	1,2,3,4,5
VAV-1A-8	VSWF06	6	AHU-1A	385	120	0.11	65.3/92.4	11.3	0.50	1/8	0.5	115/1/60	1,2,3,4,5
VAV-1B-1	VSWF08	8	AHU-1B	680	205	0.29	65.5/90.0	18.1	0.71	1/3	0.5	115/1/60	1,2,3,4,5
VAV-1B-4	VSWF06	6	AHU-1B	355	110	0.09	65.4/94.0	11.0	0.50	1/8	0.5	115/1/60	1,2,3,4,5
VAV-1B-6	VSWF06	6	AHU-1B	330	100	0.08	65.5/95.5	10.8	0.50	1/8	0.5	115/1/60	1,2,3,4,5
VAV-1B-7	VSWF06	6	AHU-1B	495	150	0.47	65.5/90.2	13.3	0.50	1/3	0.5	115/1/60	1,2,3,4,5
VAV-1B-10	VSWF06	6	AHU-1B	420	130	0.13	65.4/90.9	11.6	0.50	1/8	0.5	115/1/60	1,2,3,4,5
VAV-1B-11	VSWF06	6	AHU-1B	460	140	0.40	65.4/91.6	13.1	0.50	1/3	0.5	115/1/60	1,2,3,4,5
VAV-2A-1	VSWF08	8	AHU-2A	820	250	0.41	65.4/87.4	19.5	0.75	1/3	0.5	115/1/60	1,2,3,4,5
VAV-2A-2	VSWF06	6	AHU-2A	480	145	0.44	65.5/90.8	13.2	0.50	1/3	0.5	115/1/60	1,2,3,4,5
VAV-2A-3	VSWF05	5	AHU-2A	340	100	0.08	65.6/95.0	10.9	0.50	1/8	0.5	115/1/60	1,2,3,4,5
VAV-2B-1	VSWF06	6	AHU-2B	480	145	0.44	65.5/90.8	13.2	0.50	1/3	0.5	115/1/60	1,2,3,4,5
VAV-2B-5	VSWF06	6	AHU-2B	490	150	0.46	65.4/90.3	13.2	0.50	1/3	0.5	115/1/60	1,2,3,4,5
VAV-2B-6	VSWF06	6	AHU-2B	500	150	0.48	65.5/90.0	13.3	0.50	1/3	0.5	115/1/60	1,2,3,4,5
VAV-2B-7	VSWF05	5	AHU-2B	320	100	0.07	65.3/96.1	10.7	0.50	1/8	0.5	115/1/60	1,2,3,4,5
VAV-2B-8	VSWF08	8	AHU-2B	800	240	0.40	65.5/87.9	19.4	0.75	1/3	0.5	115/1/60	1,2,3,4,5

- REMARKS:
1. MODEL NUMBER BASED ON TRANE.
2. PROVIDE WITH 1/2" MATTE INSULATION.
3. PERFORMANCE BASED ON 180 DEG. F EWT.
4. PROVIDE WITH INTEGRAL ATTENUATOR SECTION.
5. PROVIDE WITH SPRING HANGER BRACKET FOR VIBRATION CONTROL. SEE SPECIFICATIONS.

VAV BOX SCHEDULE

MARK	MODEL NUMBER	SIZE	ASSOCIATED AHU	MAX AIRFLOW CFM	MIN COOLING AIRFLOW CFM	HEATING CFM	A.P.D. (IN W.G.)	HEATING EAT/LAT	HEATING MBH	HEATING GPM	REMARKS
VAV-1A-3	VCWF06	6	AHU-1A	470							



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BOTETOURT COUNTY
NEW CIRCUIT COURTHOUSE

PROJECT NO.: 24131
1 WEST MAIN ST. #120, FINCASTLE, VA 24090

BID SET



WHILE WORKING ON THESE DRAWINGS, THE ENGINEER SHALL TAKE PRECEDENCE OVER ALL OTHERS AND BE RESPONSIBLE FOR ALL ENGINEERING AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE ADVISED OF ANY VIOLATIONS FROM THE ENGINEER AND CONDITIONS SHOWN BY THESE DRAWINGS.

DATE: 10-18-2024
DESIGNED: TSL
DRAWN: TSL
CHECKED: CLS
REVISIONS:
11-15-2024 ADDENDUM #3

HVAC SCHEDULES AND DETAILS

M0.03

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EXPANSION TANK SCHEDULE

MARK	DUTY	MODEL NUMBER	TANK VOLUME (GAL)	TANK FILL PRESSURE (PSI)	TANK MAX PRESSURE (PSI)	FILL TEMP (DEG. F)	MAX TANK TEMP. (DEG. F)	REMARKS
ET-CHW	CHW	B85	23.0	30	125	AMBIENT	100	1
ET-HW	HW	B130	34.0	30	125	AMBIENT	200	1

REMARKS:
1. MODEL NUMBER BASED ON BELL AND GOSSETT.

ELECTRIC HEATER SCHEDULE

MARK	MODEL	CFM	WATTS	V/Ph/Hz	REMARKS
EWH-1	E3321TD-RP	175	750 W	120/1/60	1,2

REMARKS:
1. MODEL NUMBER BASED ON MARKEL.
2. PROVIDE WITH SURFACE MOUNTING KIT AND UNIT-MOUNTED THERMOSTAT.

HOT WATER UNIT HEATER SCHEDULE

MARK	MODEL	CFM	WATTS/HP	V/Ph/Hz	MBH	GPM	HEATING LAT	REMARKS
UH-1	UHSB048	630	1/20 HP	115/1/60	31.3	3.5	111	1,2
UH-2	UHSB180	2200	1/3 HP	115/1/60	118.0	11.8	110	1,2
UH-3	UHSB180	2200	1/3 HP	115/1/60	118.0	11.8	110	1,2

REMARKS:
1. MODEL NUMBER BASED ON TRANE.
2. PERFORMANCE BASED ON 60 DEG. F EAT AND 200 DEG. F EWT.

RELIEF & INTAKE VENT SCHEDULE

MARK	MODEL NUMBER	SIZE	REMARKS
RV-1	12X12GR	12"x12" THROAT, 31"x27" HOOD	1,2,3
RV-2	12X12GR	12"x12" THROAT, 31"x27" HOOD	1,2,3
RV-3	12X12GR	12"x12" THROAT, 31"x27" HOOD	1,2,3
RV-4	12X12GR	12"x12" THROAT, 31"x27" HOOD	1,2,3
RV-5	12X12GR	12"x12" THROAT, 31"x27" HOOD	1,2,3
RV-6	12X12GR	12"x12" THROAT, 31"x27" HOOD	1,2,3

REMARKS:
1. MODEL NUMBER BASED ON LOREN COOK.
2. PROVIDE WITH ROOF CURB.
3. FURNISH AND INSTALL BIRDSCREEN.

GLYCOL FEEDER SCHEDULE

MARK	MODEL NUMBER	TANK CAPACITY (GALLONS)	PUMP HP	PUMP FLOW (GPM)	PUMP HEAD (PSI)	REMARKS
GF-1	G-50-1A	50	1/3	1.5	100	1

REMARKS:
1. MODEL NUMBER BASED ON NEPTUNE CHEMICAL PUMP COMPANY.

CRAC UNIT SCHEDULE

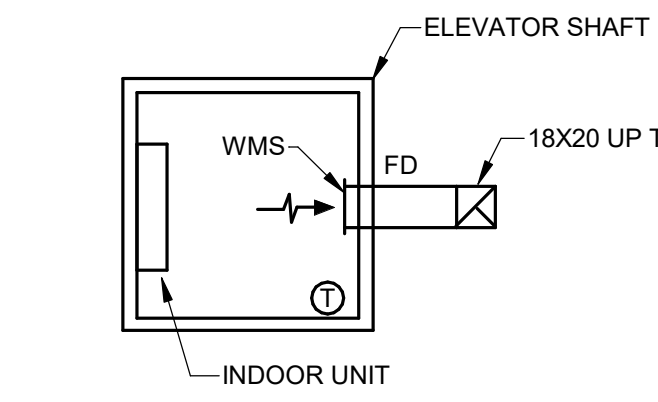
MARK	AREA SERVED	MODEL NUMBER	FAN CFM	FAN EXT S.P. IN. W.G.	V/Ph/Hz	COOLING SEN MBH	COOLING EAT db/wb	REMARKS
CRAC-1	DFE 002.1	MT036HE1P0012	1350	0.2	208-230/1/60	25.8	72/60	1,2,3,4

REMARKS:
1. MODEL NUMBER BASED ON LIEBERT.
2. WITH 7.4 KW ELECTRIC REHEAT.
3. WITH HORIZONTAL DISCHARGE.
4. PROVIDE WITH AUTOMATIC CONDENSATE PUMP.

AIR DISTRIBUTION SCHEDULE

MARK	MODEL	NECK SIZE	MOUNTING	MATERIAL	COLOR	MAX NC	REMARKS
CD-1	SCD	6"ø	SURFACE	STEEL	WHITE	25	1,2,3
CD-2	SCD	6"ø	LAY-IN	STEEL	WHITE	25	1,2
CD-3	SCD	8"ø	LAY-IN	STEEL	WHITE	25	1,2
CD-4	SCD	16"ø	LAY-IN	STEEL	WHITE	25	1,2
EG-1	PDDR	6"ø	LAY-IN	STEEL	WHITE	25	1,2
EG-2	PDDR	8"ø	LAY-IN	STEEL	WHITE	25	1,2
LBG-1	LBMH	12"x4"	SURFACE	ALUMINUM	-	25	1,11
RG-1	PDDR	22"x22"	LAY-IN	STEEL	WHITE	25	1,2,8
RG-2	530	28"x20"	SURFACE	STEEL	WHITE	25	1
RG-3	PDDR	14"ø	LAY-IN	STEEL	WHITE	25	1,2
RG-4	PDDR	18"ø	LAY-IN	STEEL	WHITE	25	1,2
RREG-1	MSRRG	8"x8"	SURFACE	STEEL	WHITE	25	1
RREG-2	MSRRG	10"x10"	SURFACE	STEEL	WHITE	25	1
RRSG-1	MSRRG	8"x8"	SURFACE	STEEL	WHITE	25	1
RRSG-2	MSRRG	10"x10"	SURFACE	STEEL	WHITE	25	1
SD-1	AS	6"ø	LAY-IN	ALUMINUM	WHITE	25	1,4,5,6
SD-2	AS	8"ø	LAY-IN	ALUMINUM	WHITE	25	1,4,5,7
SD-3	AS	8"ø	LAY-IN	ALUMINUM	WHITE	25	1,4,9,10
SD-4	AS	8"ø	LAY-IN	ALUMINUM	WHITE	25	1,4,5,6
SG-1	510	12"x4"	SURFACE	ALUMINUM	WHITE	25	1

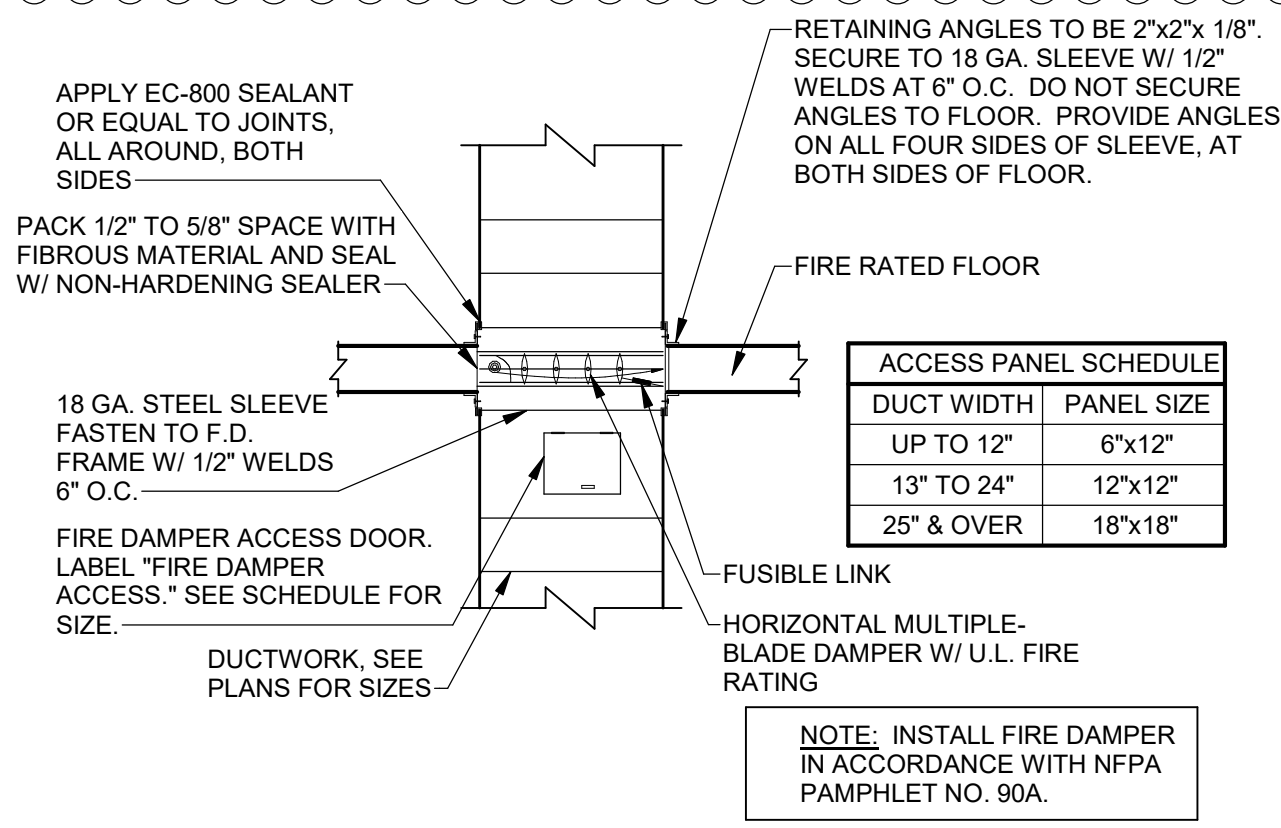
REMARKS:
1. MODEL NUMBER BASED ON PRICE INDUSTRIES.
2. 24"x24" GRILLE OR DIFFUSER.
3. WITH PLASTER RING FOR INSTALLATION IN HARD CEILING.
4. WITH PRICE INDUSTRIES MODEL ASP PLENUM.
5. PLENUM AND SLOT DIFFUSER SHALL BE 4" IN LENGTH.
6. WITH ONE 1" SLOT.
7. WITH TWO 1" SLOTS.
8. WITH PRICE INDUSTRIES MODEL RAC RETURN AIR CANOPY.
9. PLENUM AND SLOT DIFFUSER SHALL BE 2" IN LENGTH.
10. WITH ONE 2" SLOT.
11. COLOR/FINISH TO BE SELECTED BY ARCHITECT.



NOTES:
1. INSTALL LINE VOLTAGE THERMOSTAT ADJACENT TO ELEVATOR MACHINERY.
2. COORDINATE LOCATION OF EF ON ROOF WITH MECHANICAL EQUIPMENT (TYP OF 3).
3. INSTALL MITSUBISHI PKA-A24KA7 (OR EQUAL) ADJACENT TO ELEVATOR EQUIPMENT. ROUTE CONDENSATE DRAIN TO FLOOR DRAIN. ROUTE REFRIGERANT PIPING TO ROOF AND CONNECT TO MITSUBISHI PUV-A24-NHA7 (TYP OF 3).

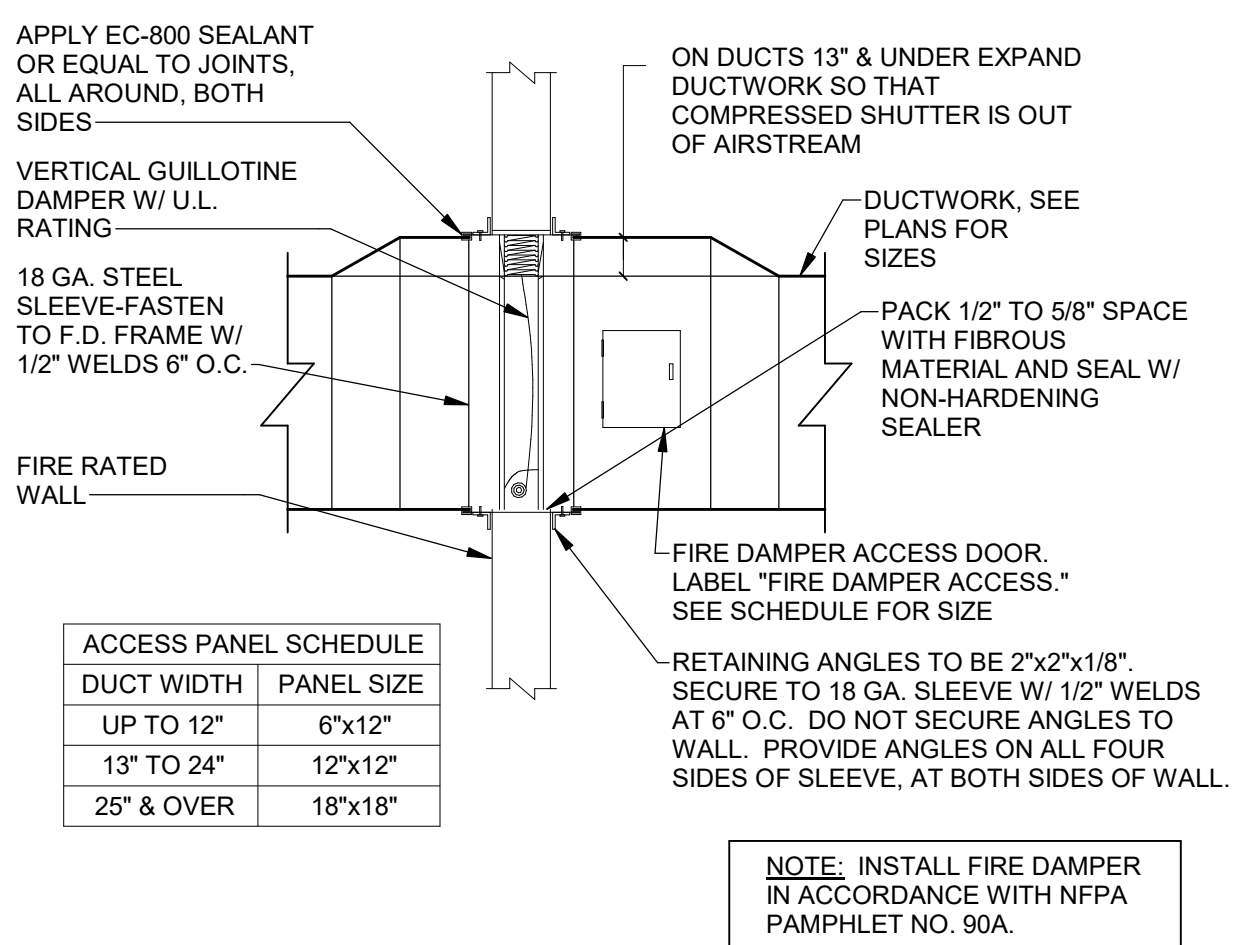
ELEVATOR HVAC

NOT TO SCALE



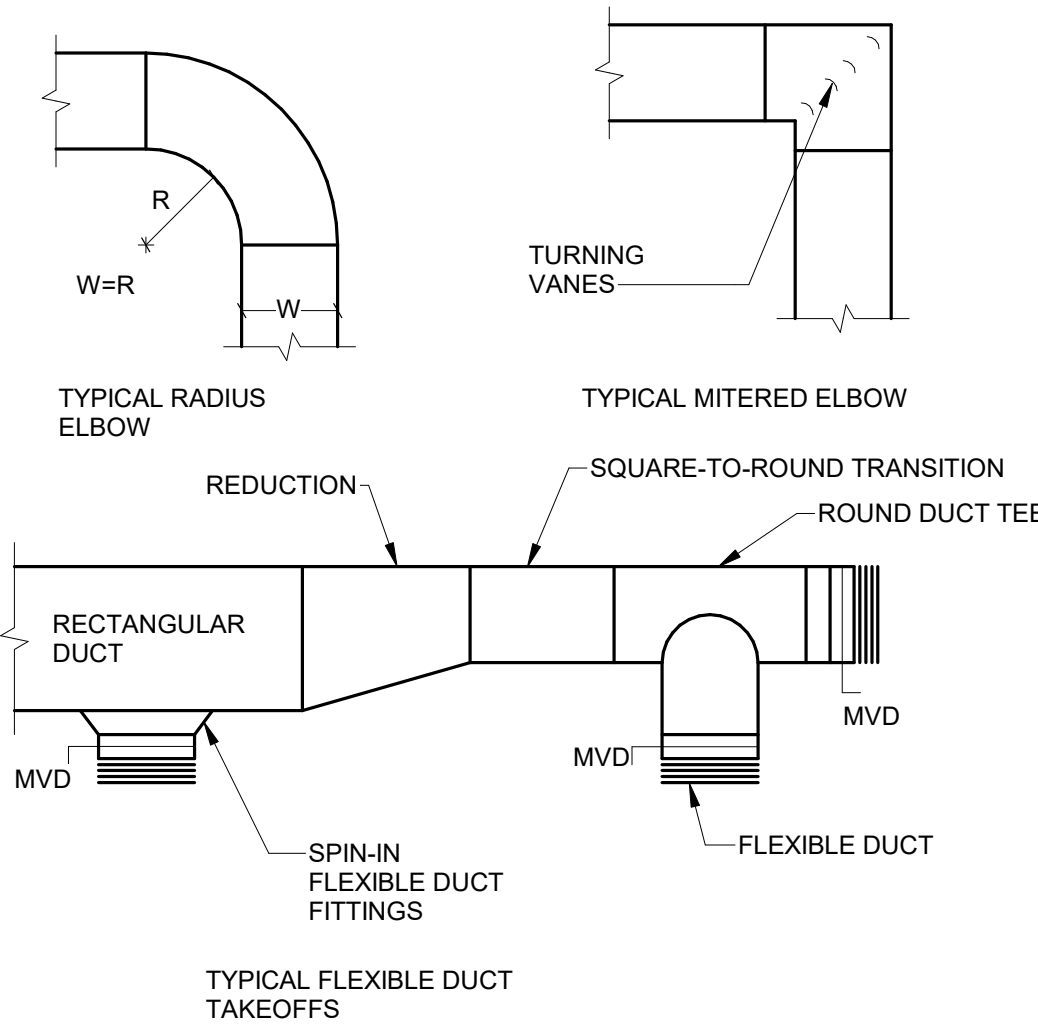
HORIZONTAL FIRE DAMPER DETAIL

NOT TO SCALE



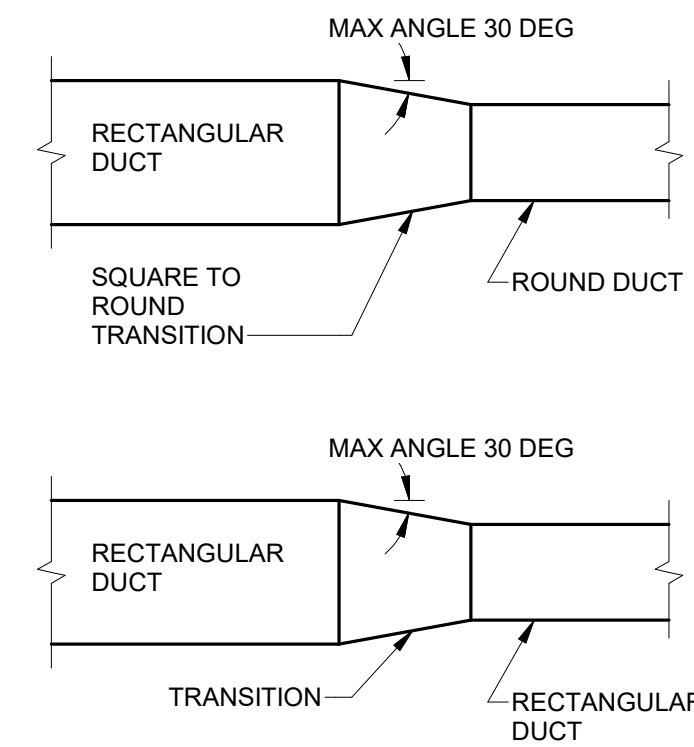
VERTICAL FIRE DAMPER DETAIL

NOT TO SCALE



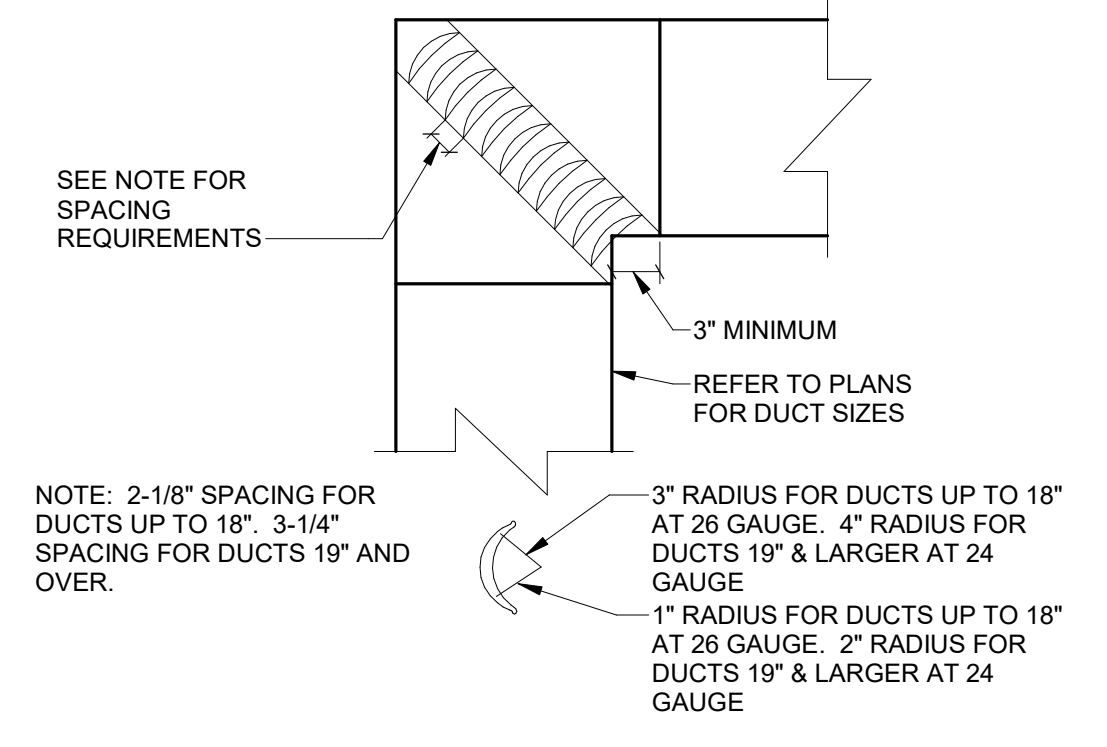
DUCT CONNECTION DETAILS

NOT TO SCALE



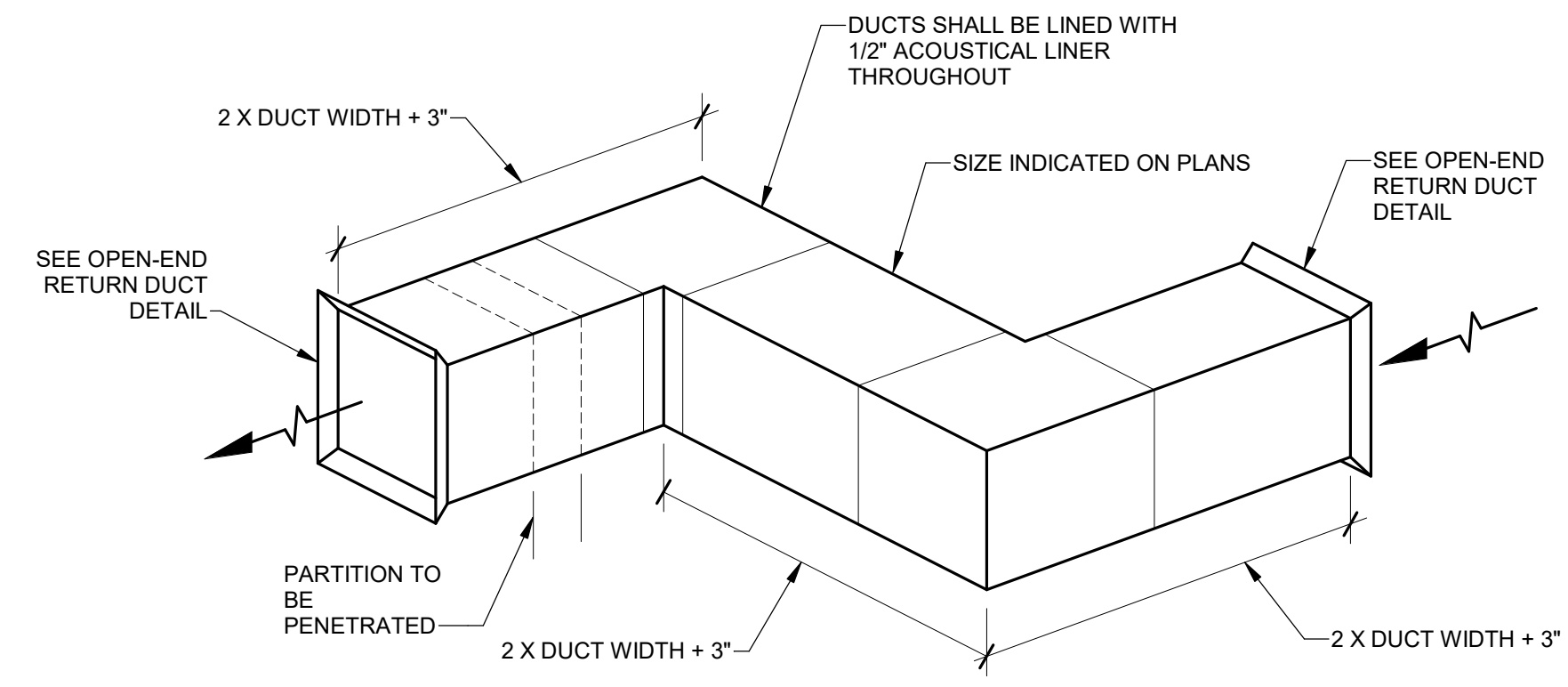
DUCT TRANSITION DETAILS

NOT TO SCALE



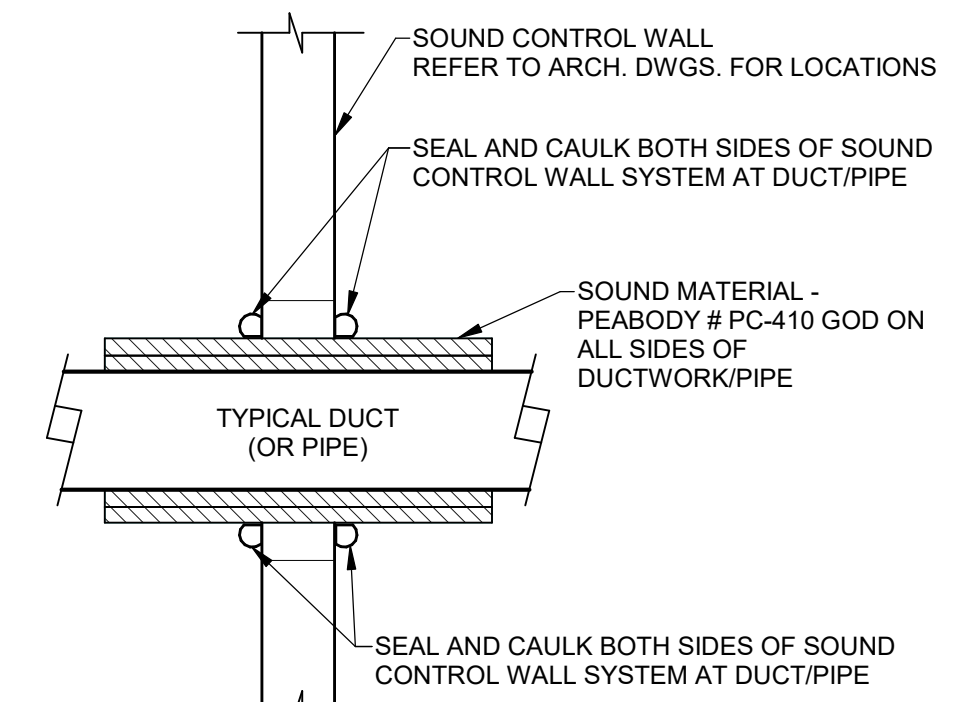
SQUARE ELBOW TURNING VANES DETAIL

NOT TO SCALE



RETURN-AIR PLENUM TRANSFER DUCT

NOT TO SCALE



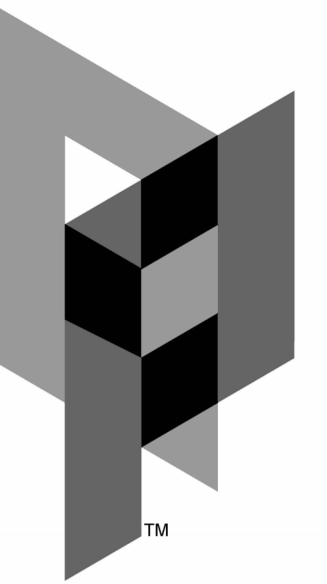
DUCT/PIPE PENETRATION THRU WALL DETAIL

NOT TO SCALE

11/15/2024 1:12:36 PM



CCH

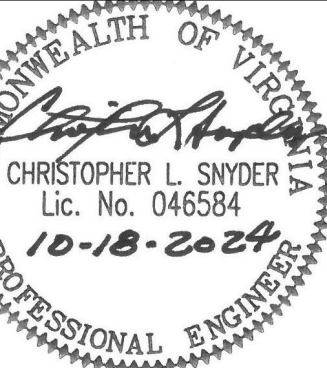


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BOTETOURT COUNTY
NEW CIRCUIT COURTHOUSE
1 WEST MAIN ST. #120, FINCASTLE, VA 24090 PROJECT NO.: 24131

BID SET



WRITTEN PERMISSION ON THESE DRAWINGS SHALL TAKE PRECEDENCE OVER SEALED ENDORSEMENTS. CONTRACTORS SHALL VERIFY DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.

DATE: 10-18-2024
DESIGNED: TSL
DRAWN: TSL
CHECKED: CLS
REVISIONS:
A 11-15-2024 ADDENDUM #3

HVAC ROOF PLAN

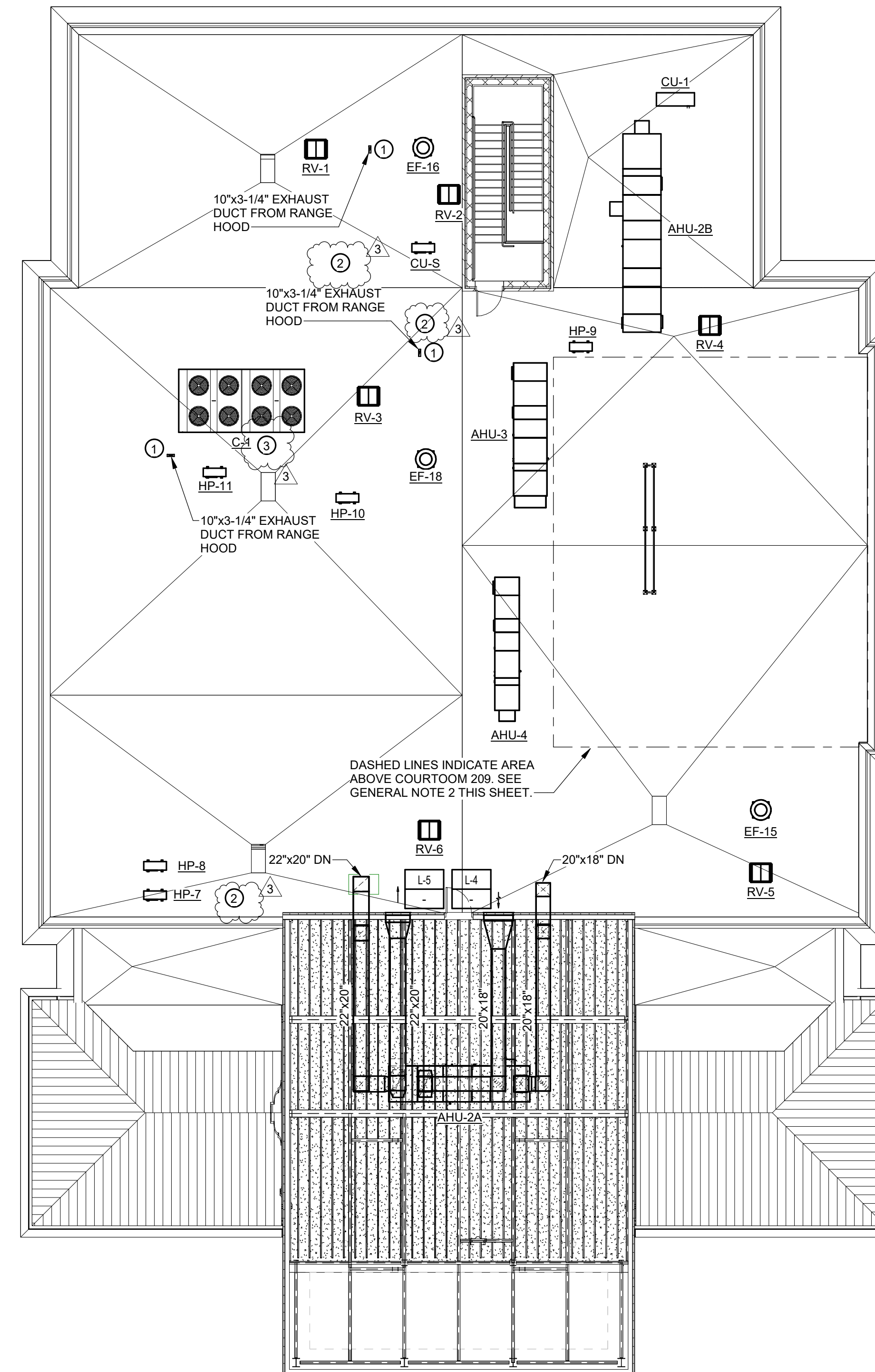
M1.04

PLAN NOTES

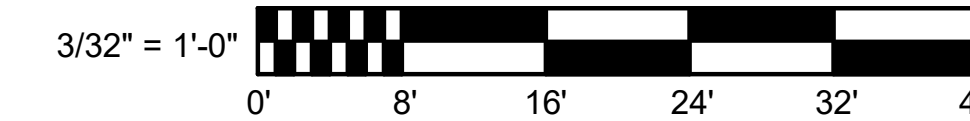
- ROUTE EXHAUST DUCT FROM RANGE HOOD AND TERMINATE THROUGH ROOF USING MANUFACTURER-APPROVED DEVICE.
- PROVIDE AND INSTALL ROOF-MOUNTED VENTILATION AND AIR CONDITIONING EQUIPMENT FOR ELEVATOR SHAFT. SEE "ELEVATOR HVAC" DETAIL, SHEET M0.03.
- CONTRACTOR SHALL COORDINATE REFRIGERANT PIPING INCLUDING SIZING AND ROUTING WITH TRANE AND MODINE. INSTALL ANY RECOMMENDED SPECIALTIES ON ARRANGEMENTS INCLUDING TRAPS AND DOUBLE-SUCTION RISERS, AS REQUIRED, TO PROVIDE A COMPLETE, FUNCTIONAL, AND RELIABLE SYSTEM.

GENERAL NOTES

- MAINTAIN MINIMUM 10' DISTANCE FROM ROOF EDGE FOR ALL ROOFTOP MECHANICAL EQUIPMENT.
- AHU-2B, AHU-3, AND AHU-4 SHALL BE LOCATED ON THE ROOF SUCH THAT NO PART OF THEIR PLAN FOOTPRINT IS LOCATED DIRECTLY OVER ANY PART OF COURTROOM 209 OR ANY OF THE WALLS ENCLOSING THE COURTROOM.



HVAC ROOF PLAN
3/32" = 1'-0"



KEY PLAN

MASTER
ENGINEERS & DESIGNERS
904 Lakeside Drive, Lynchburg VA 24501
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