

AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
CW	COLD WATER
D	DRAIN
FD	FIRE DAMPER
MOD	MOTOR OPERATED DAMPER
MYD	MANUAL VOLUME DAMPER
(T)	THERMOSTAT
(H)	HUMIDISTAT
	FLEXIBLE DUCT

<u>MARK</u>	<u>THROAT DIM</u>
RV-11	36 x 36
RV-12	36 x 36

PROVIDE WITH MOD & BIRD SCREEN

MARKET	27TV, 10	
<u>MARK</u>	<u>KW</u>	<u>MODEL</u>
WH-1	15	63323TTD-RP
WH-2	2	63324TTD-RP
WH-3	3	63325TTD-RP

PROVIDE WITH SURFACE MOUNTING BOX

<u>MARK</u>	<u>CAP</u> <u>KN</u>	<u>STAGES</u>	<u>CFM</u>	<u>HGT</u>	<u>WDTH</u>	<u>NOTES</u>
HC-A11	3	1	525	10	10	1
HC-A41	7	1	600	11	10	1
HC-A42	4	1	350	9	8	1
HC-A43	13	2	1170	17	11	1
HC-A44	3	1	280	8	8	1
HC-11	96	6	7200	54	16	
HC-12	96	6	7200	54	16	
HC-13	96	6	7200	54	16	
HC-14	96	6	7200	54	16	
HC-29	25	4	910	14	14	
HC-31	120	6	7200	62	16	
HC-41	72	6	4128	44	16	

NOTES ALL HEATERS SHALL BE DERATED
1 CLEAR INTERNAL DIMENSIONS DUCT LINED WITH 1 1/2" THICK LINER

NORTEC D200 240V, 1 ϕ 164 KW
4.2 LBS OF STEAM / HOUR PROVIDE WITH MOUNTED HUMIDISTAT

(FHL-1) BROAN 655 120V
75 CFM EXHAUST 15 KW HEATER, 100 W MAX LIGHT BULB PROVIDE WITH
LINE VOLTAGE WALL T'STAT AND 2 WALL SW'S

METAL - AIRE

<u>MARK</u>	<u>DESCRIPTION</u>	<u>MODEL</u>
CD-1	1 - WAY THROW PERF CLG DIFFUSER 2' x 2' PANEL	7000 - 6 D7 IW
CD-1A	2 - WAY THROW LOUVER FACE CLG DIFFUSER 2' x 2' PANEL	5000 - 6 S2 D5
CD	4 - WAY THROW PERF CLG DIFFUSER 2' x 2' PANEL	7000 - 6 D7 4W
CDA	4 - WAY THROW LOUVER FACE CLG DIFFUSER 2' x 2' PANEL	5000 - 6 S4 D5
CG	PERF CEILING GRILLE 2' x 2' PANEL	7000R - 6
CG-1	CEILING GRILLE	RH
CR	PERF CEILING REGISTER 2 x 2' PANEL	7000R - 6 D7
CR-1	CEILING REGISTER	RHD
CR-2	CEILING REGISTER	LTD OBDE
TG	TOP GRILLE	RH
TG-1	TOP GRILLE	H4154
TG-2	TOP GRILLE	V
TR	TOP REGISTER	VHD
TR-1	TOP REGISTER	H4154 OBD
LD	LINEAR DIFFUSER	FD150 - 48 x 3'-4" D

AIR CONDITIONING UNITS TRANE 480V / 3 ϕ

MARK	TOTAL AIR CFM	OA CFM	ESP	HP	NOM COOL CAP	ELEC HEAT KW	MODEL
AC-1	2000	300	11	1	5	23	WCD060C4 W / BAYHTRB423A
AC-2	4000	755	08	2	10	36	WCD120B4 W / AYDHTRD436A
AC-3	6000	760	15	5	15	54	WCD180B4 W / AYDHTRE454A
AC-4	2500	450	10	1	6.25	--	TCDO75C4
AC-5	3000	490	07	15	7.5	14.9	TWA090A4 / TWE090A W / BAYHTP115A

PROVIDE AC-1-4 WITH PREFAB ROOF CURBS PROVIDE AC-3 WITH CONTROLS
COMPATABLE WITH CHANGEOVER / BYPASS VAV SYSTEM

TRANE VADA

<u>MARK</u>	<u>CFM</u>	<u>DIAMETER</u>
D-1	1725	16
D-2	1490	14
D-3	1495	14
D-4	1735	16
D-5	BYPASS	12
D-6	BYPASS	12

MARKEL W / UNIT MTD T5100 T'STAT 480V 3Ø

<u>MARK</u>	<u>KW</u>	<u>MODEL</u>
UH-31	15	P3P5115CAIN
UH-32	10	P3P5110CAIN
UH-33	5	P3P5105CAIN
UH-41	20	P3P5120CAIN
UH-42	10	P3P5110CAIN
UH-43	10	P3P5110CAIN
UH-44	5	P3P5105CAIN

McQUAY LYF W / FILTER MIXING BOXES

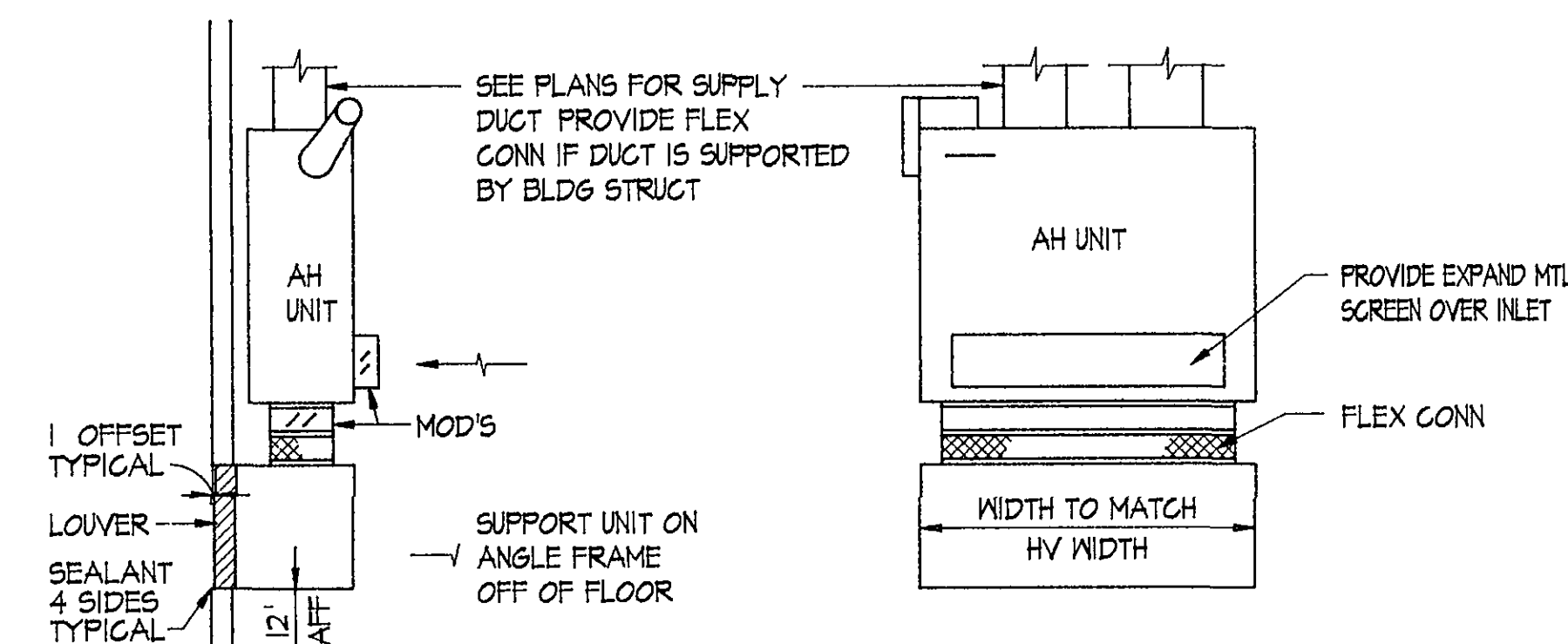
<u>MARK</u>	<u>TOTAL</u> <u>AIR CFM</u>	<u>OA</u> <u>CFM</u>	<u>ESP</u>	<u>HP</u>	<u>MODEL</u>	<u>CONFIG</u>
AH-11	7200	2400	10	50	209	VERT
AH-12	7200	2400	10	50	209	VERT
AH-13	7200	2400	10	50	209	VERT
AH-14	7200	2400	10	50	209	VERT
AH-31	7200	2480	10	50	209	HORIZ
AH-41	4128	1375	10	50	206	VERT

GREENHECK EXCEPT AS NOTED

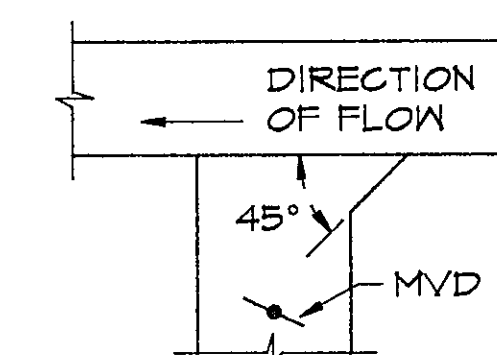
<u>MARK</u>	<u>CFM</u>	<u>SP</u>	<u>HP</u>	<u>MODEL NO</u>	<u>NOTES</u>
F-11	15000	1/8	1	SFF-42	1
F-12	15000	1/8	1	SFF-42	1
F-13	15000	1/8	1	SFF-42	1
F-14	15000	1/8	1	SFF-42	1
F-15	15000	1/8	1	SFF-42	1
F-16	15000	1/8	1	SFF-42	1
F-17	1850	3/8	1/3	GB-140-3	1
F-18	1850	3/8	1/3	GB-140-3	1
F-19	3817	3/8	3/4	GB-200-7	1
F-20	3817	3/8	3/4	GB-200-7	1
F-21	720	3/8	1/4	GB-90-4	1
F-22	2660	0 05	1/4	RPE-24L	1 3
F-23	2660	0 05	1/4	RPE-24L	1 3
F-24	2660	0 05	1/4	RPE-24L	1 3
F-25	2660	0 05	1/4	RPE-24L	1 3
F-26	375	1/2	1/4	GB-80-4	1
F-27	1190	1/2	1/4	GB-120 -4	1
F-28	2190/910	3/8	3/4	BSQ-130-7	1 2, 4
F-29	910	3/4	1/2	BSQ-90-5	1
F-31	9300	1/8	1/2	SFF-36	1
F-32	9300	1/8	1/2	SFF-36	1
F-33	3100	3/8	3/4	G-180-B	1
F-34	3100	3/8	3/4	G-180-B	1
F-35	4380	1/8	1/4	RPE-30L	1, 2
F-36	960	3/8	1/6	SDE-16-32-B	1 2
F-41	17245	3/8	2	RPE-60H	1 2
F-42	5160	1/8	1/3	SFF-30	1
F-43	5160	1/8	1/3	SFF-30	1
F-44	1720	3/8	1/4	G-150-B	1
F-45	1720	3/8	1/4	G-150-B	1
F-46	700	1/5	1/20	SDE-12-24-D	1 2
F-47	860	1/4	1/8	GN-45-D	1

NOTES

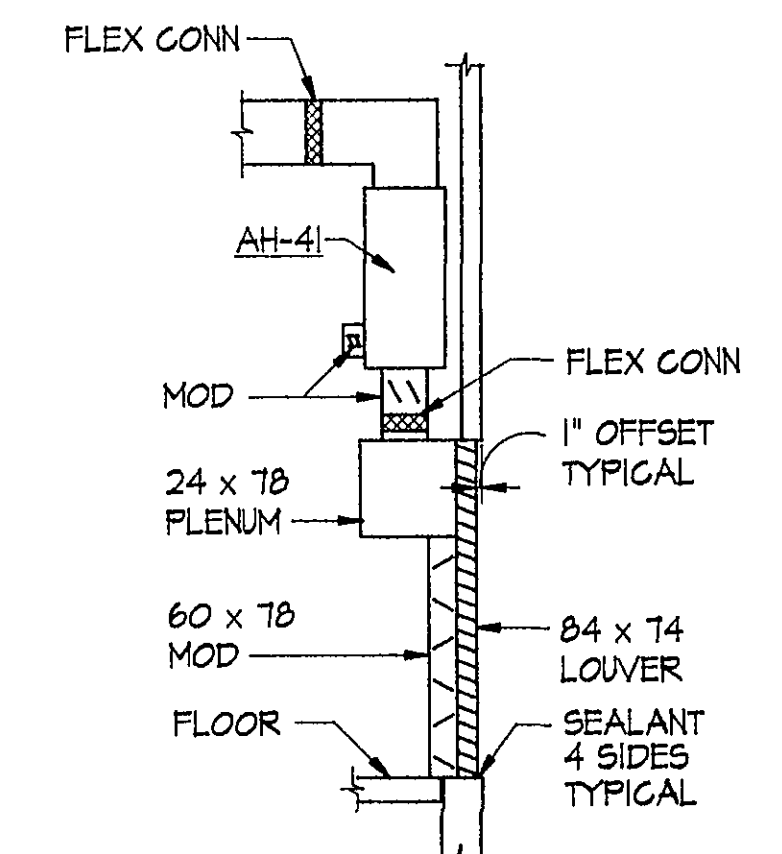
- 1 PROVIDE WITH MOD
- 2 PROVIDE WITH WALL MOUNTED T'SAT
- 3 PROVIDE WITH T'STAT H'STAT & FIRESTAT MOUNT IN ATTIC NEAR FAN INLET ENERGIZE MOD IN RV-11 AND RV-12 WITH FAN
- 4 TWO SPEED MOTOR



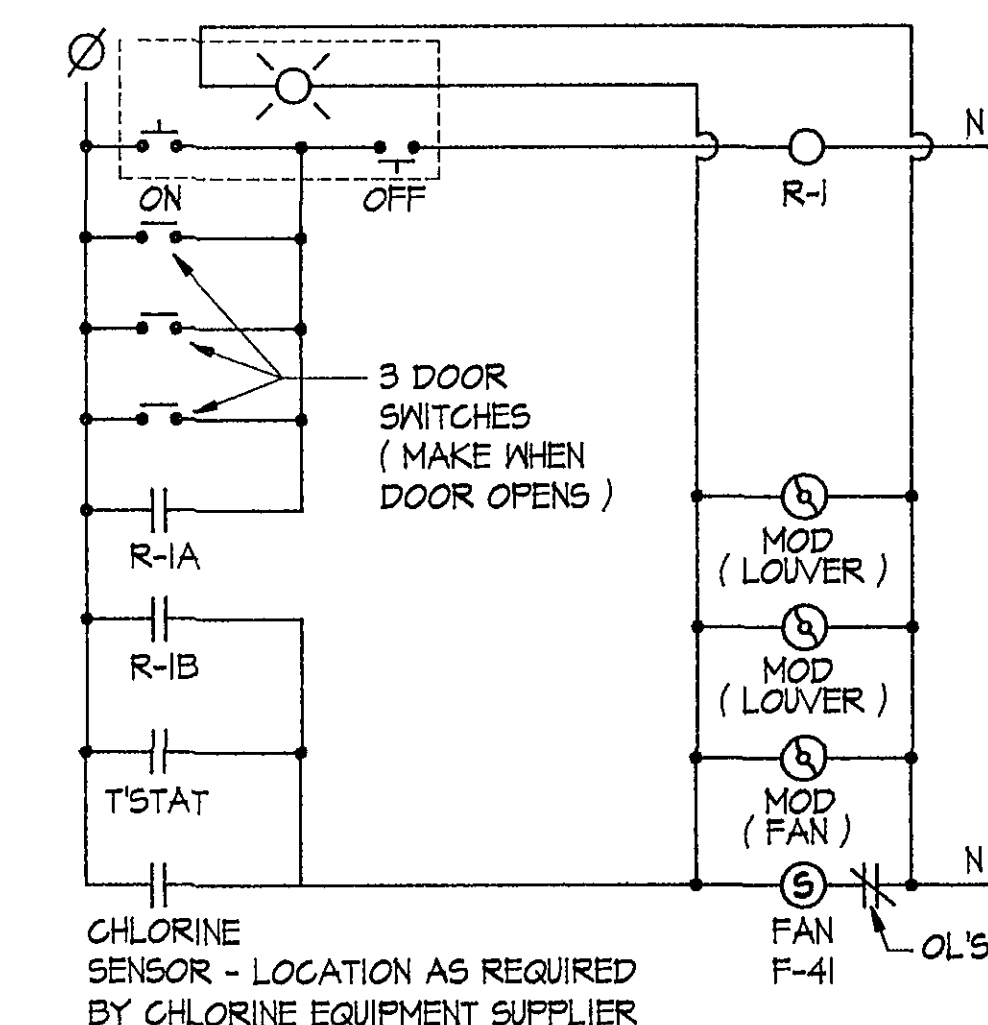
TYPICAL ELEVATIONS OF VERTICAL
AH UNITS IN TREATMENT BUILDING
NO SCALE



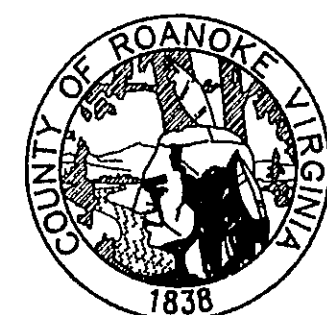
TYPICAL SUPPLY
DUCT TAKE-OFF
NO SCALE



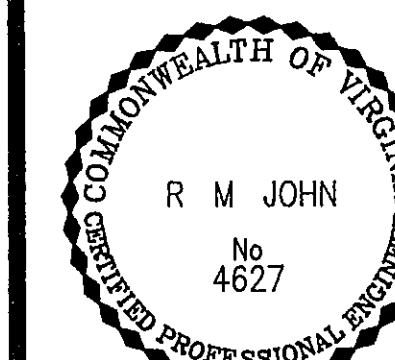
SECTION MB 1
SCALE 1/4" = 1'-0"



FAN F-41 CONTROL
NO SCALE



ROANOKE COUNTY WATER TREATMENT FACILITY



PROJECT ARCHITECT RLJ JR	COMMISSION NUMBER 1913
TECHNICIANS RWT	DATE 22 SEPT 1994

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