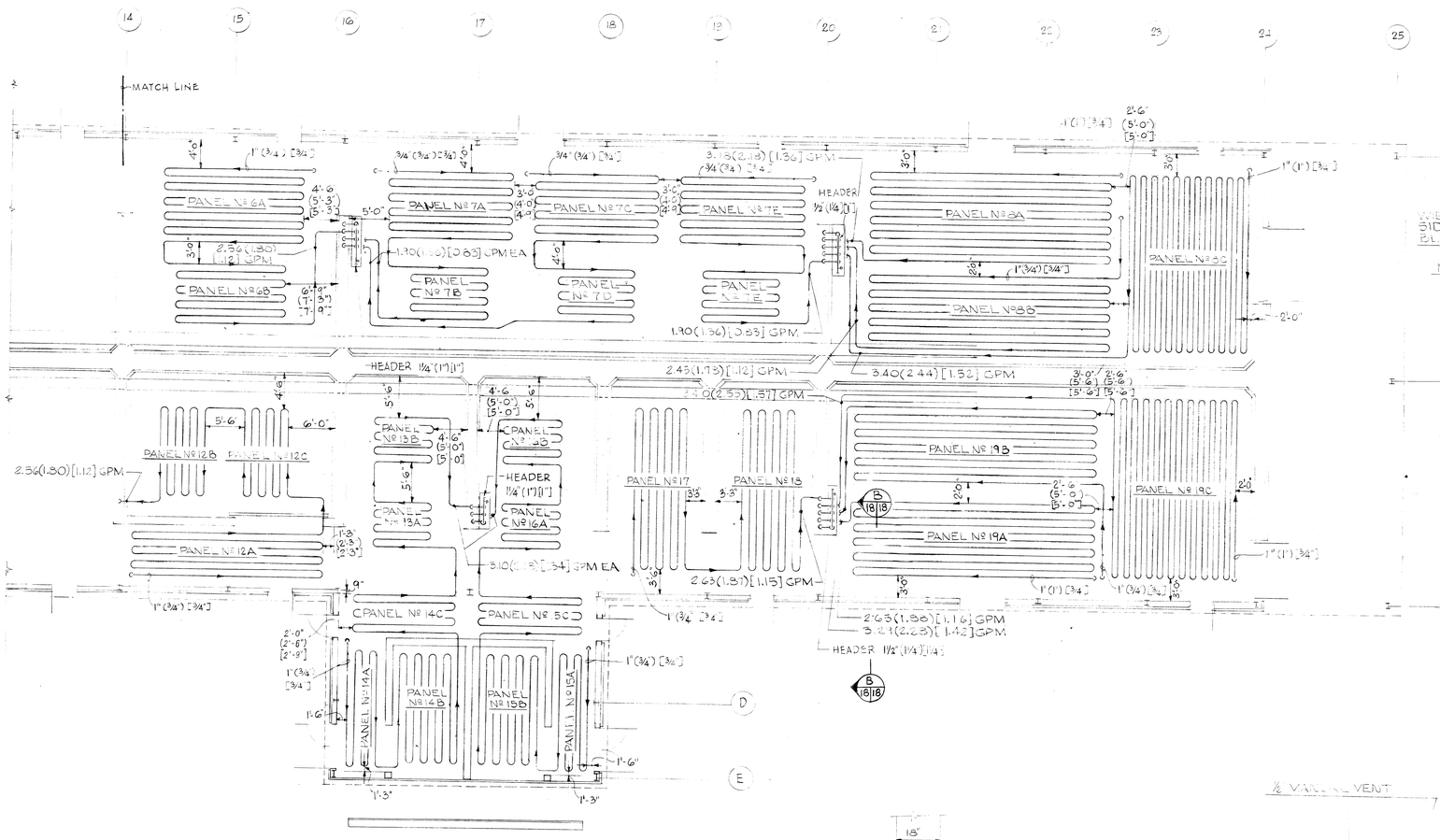
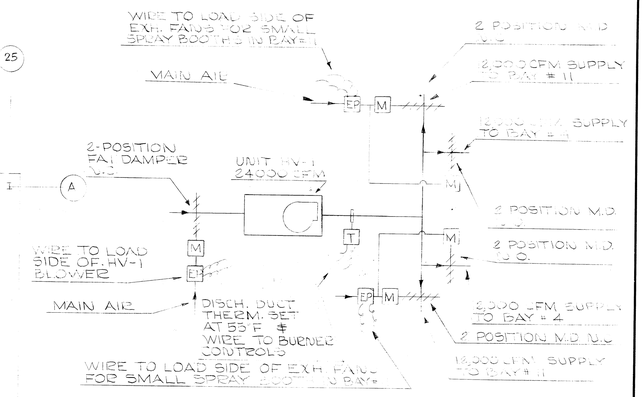
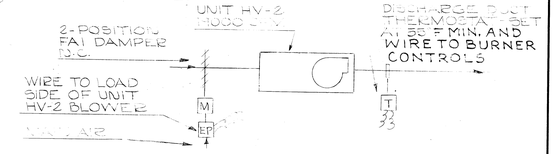




CONTROL DIAGRAM HV-1
PAINT SPRAY BOOTHS MAKE UP AIR

SEQUENCE OF OPERATION

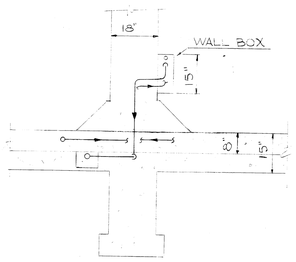
1- SPRAY BOOTHS EXHAUST FANS SHALL BE STARTED MANUALLY AND SHALL RUN CONTINUOUSLY. EXHAUST FANS FOR 2 SMALL SPRAY BOOTHS IN BAY Nº 1 AND 4 SHALL BE INTERLOCKED TO START AND STOP TOGETHER.
2- FAN FOR HV-1 SHALL BE ELECTRICALLY INTERLOCKED WITH SPRAY BOOTH EXHAUST FANS AND SHALL OPERATE CONTINUOUSLY WHEN ANY SPRAY BOOTH IS OPERATED.
3- WHEN A SPRAY BOOTH EXHAUST FAN IS STARTED, THE MOTORIZED DAMPERS IN THEIR RESPECTIVE SUPPLY DUCTS SHALL OPEN.
4- WHEN FAN IN UNIT HV-1 IS STARTED ITS FRESH AIR DAMPER SHALL OPEN AND THERMOSTAT LOCATED IN THE DISCHARGE DUCT SHALL OPERATE THE BURNER CONTROLS TO MAINTAIN ITS SETTING.



CONTROL DIAGRAM HV-2
GENERAL VENTILATION

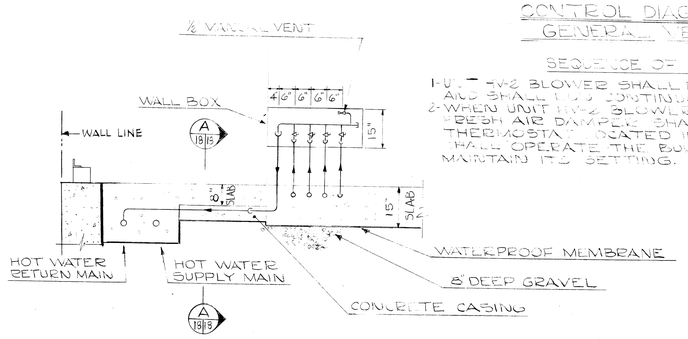
SEQUENCE OF OPERATION

1- UNIT HV-2 BLOWER SHALL BE STARTED MANUALLY AND SHALL RUN CONTINUOUSLY.
2- WHEN UNIT HV-2 BLOWER IS STARTED THE FRESH AIR DAMPER SHALL OPEN AND THE THERMOSTAT LOCATED IN THE DISCHARGE SHALL OPERATE THE BURNER CONTROLS TO MAINTAIN ITS SETTING.



SECTION — (A 18/18)
SCALE - 1/2" = 1'-0"

NOTE:
SECTION THRU OTHER WALL BOXES SIMILAR



SECTION — (B 18/18)
SCALE - 1/2" = 1'-0"

NOTE:
SECTION THRU OTHER WALL BOXES SIMILAR

PANEL SCHEDULE

-20°F OUTDOOR TEMP						0°F OUTDOOR TEMP						+20°F OUTDOOR TEMP					
PANEL Nº	Nº PIPES	PIPE LENGTH	PIPE SIZE IN.	PIPE ON CENTER SPACE IN	COIL LENGTH	PANEL Nº	Nº PIPES	PIPE LENGTH	PIPE SIZE IN.	PIPE ON CENTER SPACE IN	COIL LENGTH	PANEL Nº	Nº PIPES	PIPE LENGTH	PIPE SIZE IN	PIPE ON CENTER SPACE IN	COIL LENGTH
6A	11	19'-0	1	12	209'-0	6A	11	18'-6"	3/4	12	192'-6"	6A	11	18'-6"	3/4	12	192'-6"
6B	9	15'-0	1	12	135'-0	6B	9	14'-0	3/4	12	126'-0"	6B	9	13'-0"	3/4	12	117'-0"
7A	10	17'-0	3/4	12	170'-0	7A	10	16'-0	3/4	12	160'-0"	7A	10	15'-3"	3/4	12	152'-6"
7B	8	10'-6	3/4	12	84'-0	7B	8	9'-6	3/4	12	76'-0"	7B	8	9'-6"	3/4	12	76'-0"
7C	10	17'-0	3/4	12	170'-0	7C	10	16'-0	3/4	12	160'-0"	7C	10	15'-3"	3/4	12	152'-6"
7D	8	10'-6	3/4	12	84'-0	7D	8	9'-6	3/4	12	76'-0"	7D	8	9'-6"	3/4	12	76'-0"
7E	10	17'-0	3/4	12	170'-0	7E	10	16'-0	3/4	12	160'-0"	7E	10	15'-3"	3/4	12	152'-6"
7F	8	10'-6	3/4	12	84'-0	7F	8	9'-6	3/4	12	76'-0"	7F	8	9'-6"	3/4	12	76'-0"
8A	13	33'-0	1	12	429'-0	8A	13	31'-0"	1	12	403'-0"	8A	13	31'-0"	3/4	12	403'-0"
8B	11	32'-0"	1	12	352'-0"	8B	11	30'-0"	3/4	12	330'-0"	8B	11	30'-0"	3/4	12	330'-0"
8C	23	24'-0"	1	9	552'-0"	8C	17	26'-6"	1	12	450'-6"	8C	17	24'-0"	3/4	12	450'-0"
12A	7	26'-0"	1	12	182'-0"	12A	7	24'-0"	3/4	12	168'-0"	12A	7	24'-0"	3/4	12	168'-0"
12B	7	12'-0"	1	12	84'-0"	12B	7	10'-6"	3/4	12	73'-6"	12B	7	10'-6"	3/4	12	73'-6"
12C	7	12'-0"	1	12	84'-0"	12C	7	10'-6"	3/4	12	73'-6"	12C	7	10'-6"	3/4	12	73'-6"
13A	7	8'-0"	1	12	56'-0"	13A	7	7'-0"	3/4	12	49'-0"	13A	7	7'-0"	3/4	12	49'-0"
13B	7	8'-0"	1	12	56'-0"	13B	7	7'-0"	3/4	12	49'-0"	13B	7	7'-0"	3/4	12	49'-0"
14A	5	16'-0"	1	12	90'-0"	14A	5	15'-0"	3/4	12	75'-0"	14A	5	14'-6"	3/4	12	72'-6"
14B	9	15'-0"	1	12	135'-0"	14B	9	14'-0"	3/4	12	126'-0"	14B	9	13'-6"	3/4	12	121'-6"
14C	6	14'-0"	1	12	84'-0"	14C	6	13'-0"	3/4	12	78'-0"	14C	6	12'-6"	3/4	12	75'-0"
15A	5	16'-0"	1	12	80'-0"	15A	5	15'-0"	3/4	12	75'-0"	15A	5	14'-6"	3/4	12	72'-6"
15B	9	15'-0"	1	12	135'-0"	15B	9	14'-0"	3/4	12	126'-0"	15B	9	13'-6"	3/4	12	121'-6"
15C	6	14'-0"	1	12	84'-0"	15C	6	13'-0"	3/4	12	78'-0"	15C	6	12'-6"	3/4	12	75'-0"
16A	7	8'-0"	1	12	56'-0"	16C	7	7'-0"	3/4	12	49'-6"	16A	7	7'-0"	3/4	12	49'-0"
16B	7	8'-0"	1	12	56'-0"	16B	7	7'-0"	3/4	12	49'-6"	16B	7	7'-0"	3/4	12	49'-0"
17	8	22'-0"	1	12	176'-0"	17	8	20'-0"	3/4	12	160'-0"	17	8	20'-0"	3/4	12	160'-0"
18	8	22'-0"	1	12	176'-0"	18	8	20'-0"	3/4	12	160'-0"	18	8	20'-0"	3/4	12	160'-0"
19A	13	33'-0"		12	429'-0"	19A	13	31'-0"	1	12	403'-0"	19A	13	31'-0"	3/4	12	403'-0"
19B	11	33'-0"		12	363'-0"	19B	11	30'-0"	3/4	12	330'-0"	19B	11	30'-0"	3/4	12	330'-0"
19C	23	24'-6		9	563'-5"	19C	17	26'-6"	1	12	450'-6"	19C	17	26'-6"	3/4	12	450'-0"

GRAPHIC SCALES:

1/8" = 1'-0" 5 0 5

1/2" = 1'-0" 1 0 1 2 3

SYMBOL	DESCRIPTION	DATE	APPROVAL
	REVISIONS		

AMMANN & WHITNEY
CONSULTING ENGINEERS
111-8TH AVENUE, NEW YORK, N.Y.

DEPARTMENT OF THE ARMY
OFFICE OF THE CHIEF OF ENGINEERS
MILITARY CONSTRUCTION - ENGINEERING DIVISION
WASHINGTON, D.C.

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SUBMITTED BY: AMMANN & WHITNEY
APPROVED: CHIEF UTILITIES BRANCH
APPROVED FOR
DATE:

AMMUNITION MAINTENANCE FACILITY

AMMUNITION MAINTENANCE BUILDING

RADIANT PANEL HEATING HVAC

APPROVED: CHIEF ENGINEERING DIVISION, MIL. CONSTR. O.C.E.
DATE: 18 JULY 1966

SCALE AS NOTED | SPEC. Nº 16-06-324-66-CE

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SHEET 18 OF 45