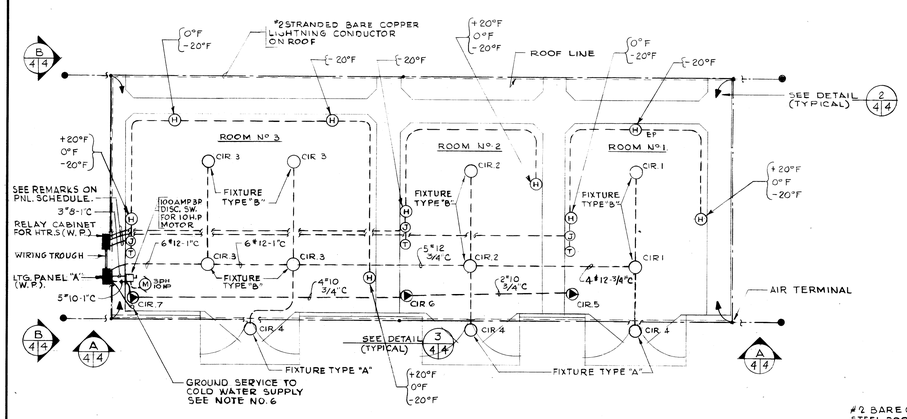
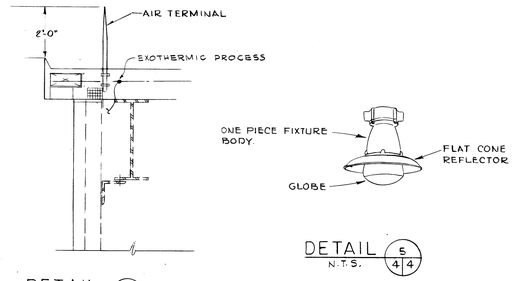
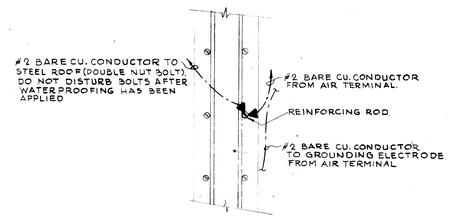


PLAN
SCALE: 1/4" = 1'-0"



DETAIL 2/4/4
N.T.S.

DETAIL 5/4/4
N.T.S.



DETAIL 1/4/4
NO SCALE

PANELBOARD SCHEDULE (3PH-4W-120/208 VOLT SERVICE)

PANEL DESIGNATION	MAINS: MAIN CIRCUIT BREAKER	MAINS: FEEDER SIZE	MAINS: CONDUIT SIZE	BRANCHES: CIRCUIT NUMBER	BRANCHES: NUMBER OF CIRCUITS	BRANCHES: NUMBER OF POLES	BRANCHES: FRAME SIZE IN AMPS	BRANCHES: TRIP SETTING IN AMPS	REMARKS
LIGHTING PANEL "A" FOR -20°F ZONE 1	100A, 3φ, 4W.	4#2	2"	1-4	4	1	50	20	INDOOR & OUTDOOR LIGHTS
				5-7	3	1	50	30	RECEPTACLES #10 WIRE
				8	1	1	50	20	THERMOSTAT
				9-10	2	1	50	20	SPARE
				11	1	2	50	20	ROOM NO.1-1 HEATER UNIT — 2#12 & 2#14 (THERMOSTAT)
				12	1	2	50	20	ROOM NO.2-1 HEATER UNIT — 2#12 & 2#14 (THERMOSTAT)
				13	1	2	50	30	ROOM NO.3-2 HEATER UNIT — 2#10 & 2#14 (THERMOSTAT)
				14	1	3	100	70	10 HP MOTOR 3#8-1"C
LIGHTING PANEL "A" FOR +20°F ZONE 2	225A, 3φ, 4W.	4#1/0	2"	1-4	SAME AS LTG. PANEL "A" FOR +20°F ZONE				
				5-7	"	"	"	"	" " " "
				8-9	"	"	"	"	" " " "
				10	"	"	"	"	" " " "
				11	1	2	50	30	ROOM NO.1-2 HEATER UNITS — 2#10 & 2#14 (THERMOSTAT)
				12	1	2	50	20	ROOM NO.2-1 HEATER UNITS — 2#12 & 2#14 (THERMOSTAT)
				13	1	2	50	50	ROOM NO.3-3 HEATER UNITS — 2#6 & 2#14 (THERMOSTAT)
				14	1	3	100	70	10 HP MOTOR 3#8-1"C
LIGHTING PANEL "A" FOR -20°F ZONE 3	225A, 3φ, 4W	4#4/0	2½"	1-4	SAME AS LTG. PANEL "A" FOR +20°F ZONE				
				5-7	"	"	"	"	" " " "
				8-9	"	"	"	"	" " " "
				10	"	"	"	"	" " " "
				11	1	2	50	50	ROOM NO.1-3 HEATER UNITS - 3/4"C - 2#8 & 2#14 (THERMOSTAT)
				12	1	2	50	50	ROOM NO.2-2 HEATER UNITS - 3/4"C - 2#10 & 2#14 (THERMOSTAT)
				13	1	2	50	50	ROOM NO 3-4 HEATER UNITS - 1"C - 2#6 & 2#14 (THERMOSTAT)
				14	1	3	100	70	10 HP MOTOR - 3#8-1"C

ELECTRIC HEATER SCHEDULE

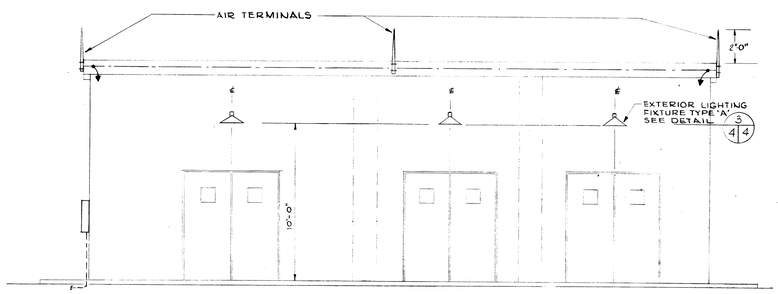
LOCATION	+20°F ZONE 1	0°F ZONE 2	-20°F ZONE 3	PHASE	VOLTAGE
ROOM NO.1	1-2 KW	2-2 KW	3-2 KW	1	208V
ROOM NO.2	1-2 KW	1-2 KW	2-2 KW	1	208V
ROOM NO.3	2-2 KW	3-2 KW	4-2 KW	1	208V

NOTES

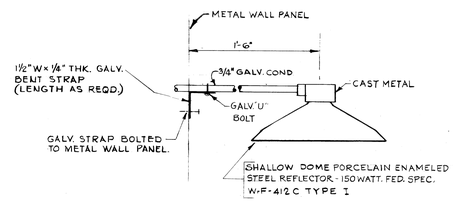
1. ALL CONDUITS SHALL BE ½" & WITH 2#12 UNLESS OTHERWISE INDICATED.
2. ALL WIRES SHALL BE #12 AWG UNLESS OTHERWISE INDICATED.
3. ALL EQUIPMENT, FIXTURES & WIRING IN BLDG SHALL COMPLY WITH CLASS 2, GROUP F & G DIVISION 1 HAZARDOUS LOCATIONS.
4. ALL EXTERIOR EQUIPMENT SHALL BE WEATHERPROOF.
5. PROVIDE SEALING FITTINGS AT ALL POINTS WHERE CONDUITS ENTER & LEAVE STRUCTURE.
6. GROUND ELECTRIC SERVICE TO "STREET" SIDE OF MAIN WATER SHUT-OFF VALVE USE NO. 6 BARE CU CONDUCTORS IN ¾" CONDUIT
7. INTERIOR FIXTURE SHALL BE PROVIDED WITH FIXTURE OUTLET BOXES FOR ¾" AND 1" CONDUIT.
8. ELECTRICAL EQUIPMENT SHALL BE PROVIDED UNDER "SECTIONAL - VACUUM COLLECTION SYSTEM".

LEGEND

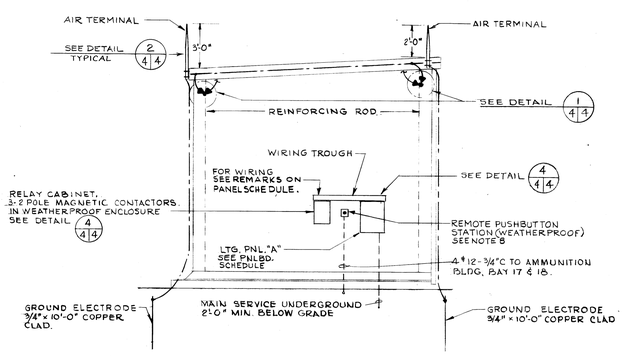
- TYPE "A" LIGHTING FIXTURE WALL MTD. WITH 150 WATT LAMP. SEE DETAIL.
- TYPE "B" LIGHTING FIXTURE CEILING MTD. WITH 150 WATT LAMP SEE DETAIL 5/4/4
- 30 AMP. 2P, 3 WIRES, 120V. EXP. PROOF RECEPTACLE 4'-0" ABOVE FINISHED FLOOR.
- (H) 2 KW ELECTRIC UNIT HTR. (28" HIGH × 22" WIDE × 4" DEEP.) SEE NOTE #3.
- (T) THERMOSTAT. SEE NOTE #3
- (J) JUNCTION BOX. SEE NOTE #3
- BRANCH CIRCUIT EXPOSED.
- BRANCH CIRCUIT CONCEALED
- #2 BARE COPPER CONDUCTOR
- CONNECTION OF #2 BARE CU. CONDUCTOR TO REINFORCING. CONNECTION SHALL BE BY EXOTHERMIC PROCESS, OR EQUAL.
- COPPER CLAD STEEL GROUND ELECTRODE. 3/4 × 10'-0"
- AIR TERMINAL



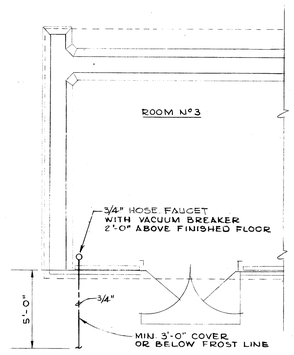
ELEVATION A/4/4
SCALE: 1/4" = 1'-0"



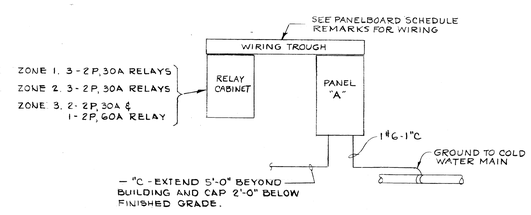
EXTERIOR LIGHTING FIXTURE DETAIL 3/4/4
NO SCALE



ELEVATION B/4/4
SCALE: 1/4" = 1'-0"



COLD WATER SUPPLY TO STRUCTURE
SCALE: 1/4" = 1'-0"



SERVICE DETAIL 4/4/4
NO SCALE

GRAPHIC SCALE:
1/4" = 1'-0"

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.

DRAWN BY: G.H.
TRACED BY: G.H.
CHECKED BY: F.B.
SUBMITTED BY: AMMANN & WHITNEY

VACUUM COLLECTOR BUILDING

PLAN, ELEVATIONS & DETAILS
PLUMBING & ELECTRICAL

APPROVED: CHIEF UTILITIES BRANCH
APPROVED: CHIEF ENGINEERING DIVISION, MIL. CONSTR. O.C.E.
DATE: 18 JULY 1966
APPROVED FOR
DATE:
SCALE 1/4" = 1'-0"
SPEC. NO.
DRAWING NUMBER 60-14-05
SHEET 4 OF 7

THIS DRAWING SUPERSEDES 60-14-03