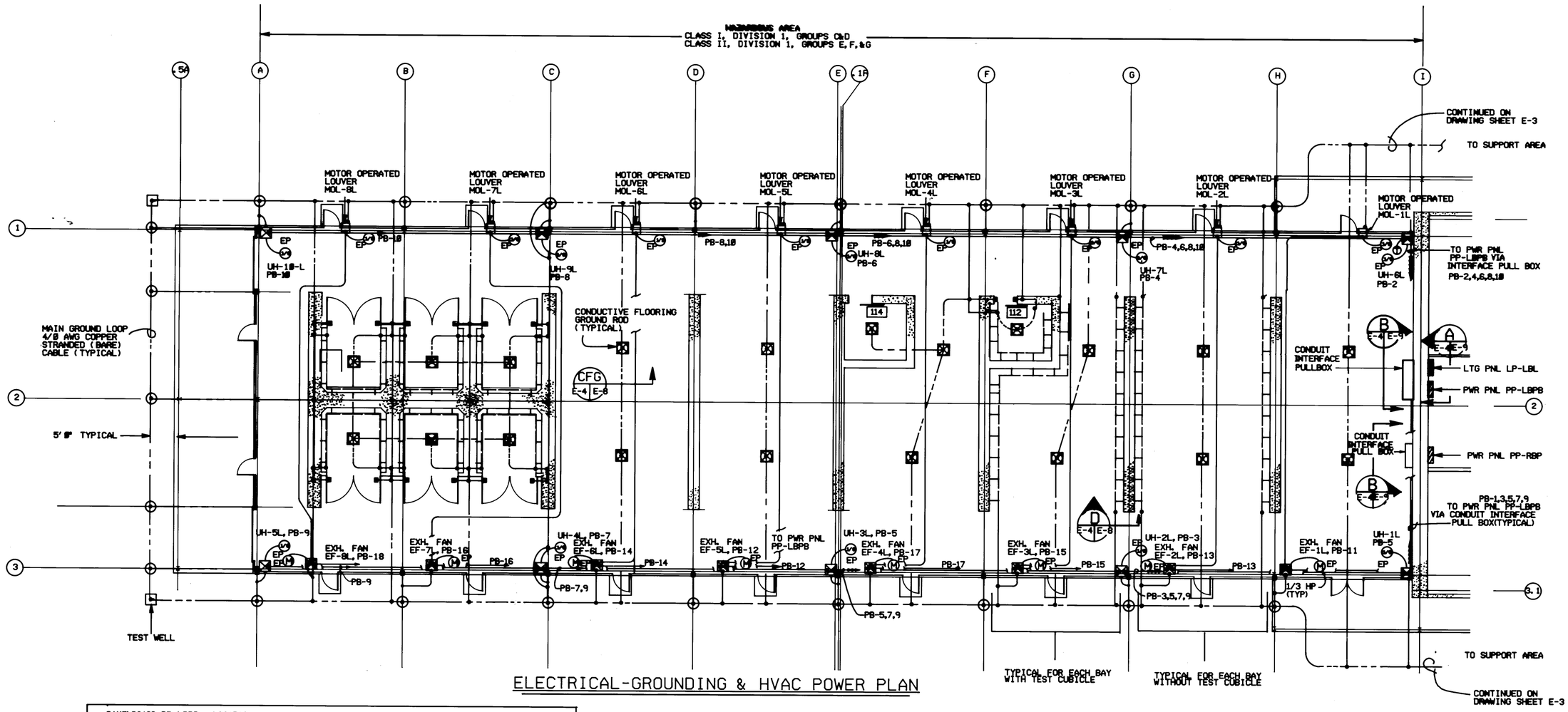


ELECTRICAL-GROUNDING & HVAC POWER PLAN

PANELBOARD PP-LBPB LOCATION POWER — SURFACE MOUNTED — BOTTOM FEED

CIRCUIT BREAKER TYPE 120/208 VOLTS 3 PHASE 4 WIRE 10000 SYM A.I.C. MIN. 100 AMP MAIN LUGS ONLY

CKT. NO.	TRIP AMPS	NO. POLES	WIRE SIZE	LOAD SERVED	LOAD V-A	PHASE LOAD, V-A ø A	ø B	ø C	LOAD V-A	LOAD SERVED	WIRE SIZE	NO. POLES	TRIP AMPS	CKT. NO.
1	20	1	*12	UNIT HEATER-1L	600	1200			600	UNIT HEATER-6L	*12	1	20	2
3	20	1	*12	UNIT HEATER-2L	600		1200		600	UNIT HEATER-7L	*12	1	20	4
5	20	1	*12	UNIT HEATER-3L	600			1200	600	UNIT HEATER-8L	*12	1	20	6
7	20	1	*12	UNIT HEATER-4L	600	1200			600	UNIT HEATER-9L	*12	1	20	8
9	20	1	*12	UNIT HEATER-5L	600		1200		600	UNIT HEATER-10L	*12	1	20	10
11	20	1	*12	MOL AND EXHAUST FAN-1L	1260			2520	1260	MOL AND EXHAUST FAN-5L	*12	1	20	12
13	20	1	*12	MOL AND EXHAUST FAN-2L	1260	2520			1260	MOL AND EXHAUST FAN-6L	*12	1	20	14
15	20	1	*12	MOL AND EXHAUST FAN-3L	1260		2520		1260	MOL AND EXHAUST FAN-7L	*12	1	20	16
17	20	1	*12	MOL AND EXHAUST FAN-4L	1260			2520	1260	MOL AND EXHAUST FAN-8L	*12	1	20	18
19	20	1	*12	SPARE	1000	2000			1000	SPARE	*12	1	20	20
21	20	1	*12	SPARE	1000		2000		1000	SPARE	*12	1	20	22
23	20	1	*12	SPARE	1000			2000	1000	SPARE	*12	1	20	24
					TOTAL	6920	6920	8240						

SUPPLIED FROM CKT 34 PNL LP-LBL

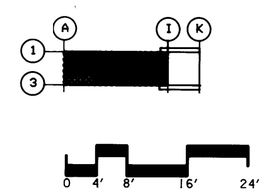
TOTAL CONNECTED LOAD 22.080 KVA
60% DEMAND EST., DEMAND LOAD 13.248KVA

NOTES:

1. ALL CONDUIT SYSTEMS WITHIN THE HAZARDOUS AREAS SHALL BE SEALED AS REQUIRED BY N.E.C.

LIGHTNING PROTECTION:

LIGHTNING PROTECTION SHALL BE IN ACCORDANCE WITH THE LIGHTNING PROTECTION CODE (1983), NFPA 78, CHAPTER 6 AND BE IMPLEMENTED BY THE SITE ADAPTION DESIGNER. PROTECTIVE, OVERHEAD GROUND CONDUCTORS SHALL BE CONFIGURED PURSUANT TO FIGURES 6-3.3.1. AND 6-3.3.2. OF THE CODE. WITH THE ASSOCIATED CONDUCTOR SUPPORTING MASTS POSITIONED OUTSIDE THE STANDARD DESIGN BUILDING LIMIT. MAST LOCATIONS SHALL NOT BE LESS THAN 10 FEET FROM BUILDING WALL OR BUILDING EXTENSIONS (CANOPY OR OVERHANGING STRUCTURES) TO PRECLUDE LIGHTNING DAMAGE FROM 'SIDE FLASHES' TO BUILDING CONDUCTORS. THE OVERHEAD SHIELD CONDUCTORS SHALL BE BROUGHT DOWN THE MAST(S) AND DIRECTLY CONNECTED TO THE GROUNDING COUNTERPOISE SYSTEM IN NO LESS THAN TWO (2) LOCATIONS EACH MAST. FURTHER, THE SITE ADAPTION DESIGNER SHALL REFER TO AND INCLUDE THE LIGHTNING PROTECTION APPLICABLE PORTIONS OF DAMCOM-R-385-100 OVERHEAD GROUND WIRE SHIELDS SHALL BE AT LEAST 15' ABOVE THE TOP OF THE EXHAUST STACKS FROM THE TEST CUBICLES.



Symbol	Description	Date	Approved
	Revisions		

US ARMY ENGINEER DIVISION HUNTSVILLE
CORPS OF ENGINEERS
HUNTSVILLE, ALABAMA

Site adapt A/E :

US Army Corps of Engineers

STANDARD DESIGN
AMMUNITION SURVEILLANCE FACILITY
GROUNDING AND POWER PLAN L. H.

Dwn. by : CG/TT
Ckd. by :
Reviewed by : AJK
Date :
Approved by :
Drawing code : STD 216-12-01
Sheet reference number : E - 4
Design file no. :
Rev.
Sheet of