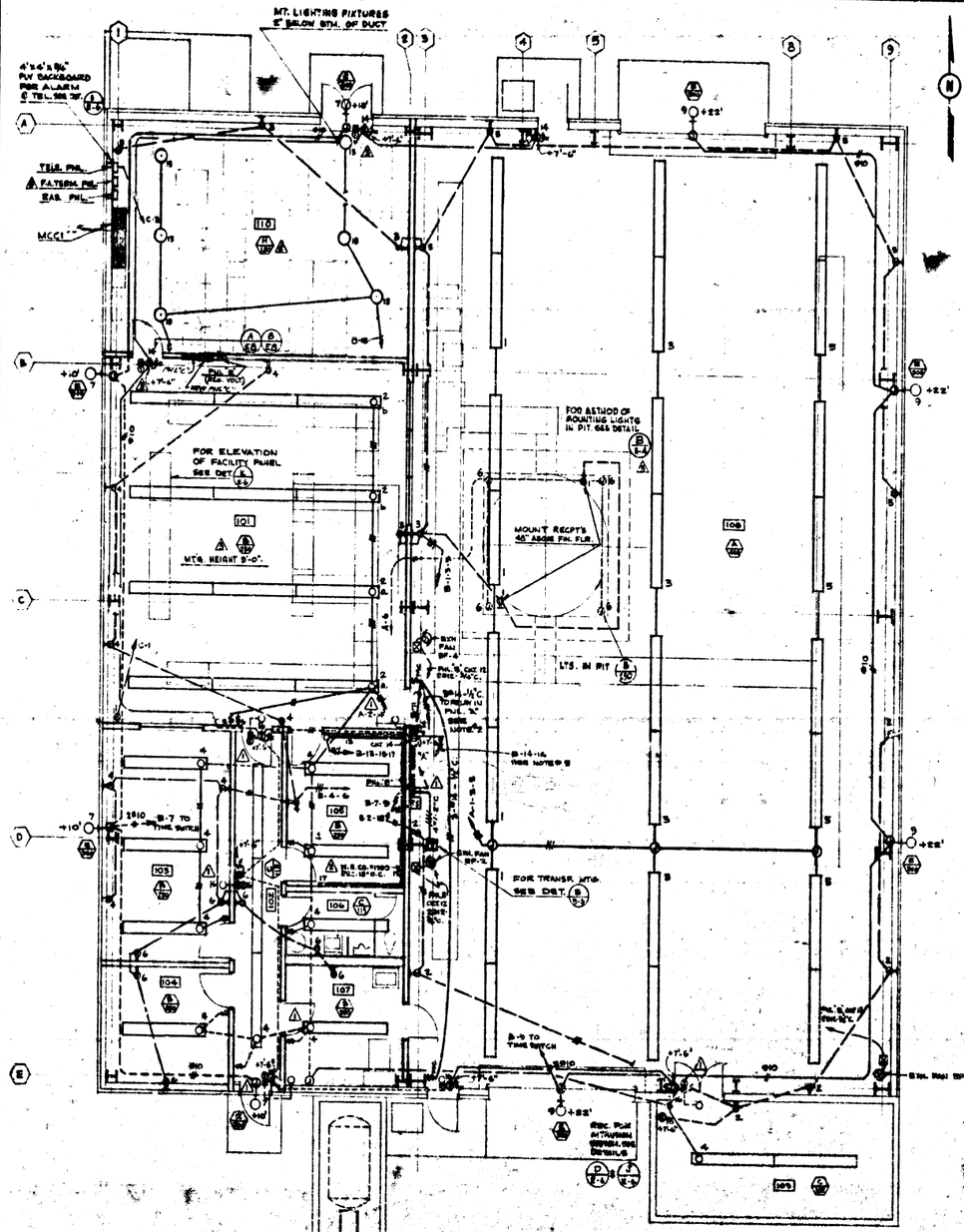

PANEL "A"

TYPE: NHB-4,12 CKT. VOLTAGE: 277/480V. 3 Φ, 4-WIRE — LUGS ONLY

LOCATION	NO. OF POLES	SIZE	OUTLETS LTS	OUTLETS REC.	OUTLETS MISC.	WATTS A	WATTS B	WATTS C	CKT NO.	PHASE A	PHASE B	PHASE C	CKT NO.	WATTS A	WATTS B	WATTS C	OUTLETS LTS	OUTLETS REC.	OUTLETS MISC.	SIZE	NO. OF POLES	LOCATION
108	1	20	5			3520			1				2	3000						20	1	101
106			6				3050		3				4		4000		12					Rooms 102 thru 107, 109 & 110
105			5					3350	5				6			3000	17					PIT LIGHTING
SPACE									7				8	3000								SPARE
									9				10		3000							
									11				12			3000						SPACE
									13				14									
									15				16									
									17				18									
TOTAL WATTS LEFT SIDE OF PANEL						3520	3050	3350						3000	7000	3000	TOTAL WATTS RIGHT SIDE OF PANEL					

TOTAL KW LOADING @ 23.92 — AMPS/PHASE: 33.9 — FEEDER SIZE: 4#4

@ MECH. HELD RELAY, 4P. ST. 25A. 480V. WITH 120V. COILS. ASCO 916640

PANEL "B"

TYPE: NLAB — VOLTAGE: 120/208V. 3 Φ, 4-WIRE — LUGS ONLY

LOCATION	NO. OF POLES	SIZE	OUTLETS LTS	OUTLETS REC.	OUTLETS MISC.	WATTS A	WATTS B	WATTS C	CKT NO.	PHASE A	PHASE B	PHASE C	CKT NO.	WATTS A	WATTS B	WATTS C	OUTLETS LTS	OUTLETS REC.	OUTLETS MISC.	SIZE	NO. OF POLES	LOCATION
108	1	20		5		960			1				2	2200				5		20	1	103 109
101 106 110				5			1080		3				4		1600		8					101 105 108
105				5				1800	5				6			1400		7				Rooms 102, 103, 104, 106 & 107
EXTERIOR		4				200			7				8	2520								110
EXTERIOR		4					1200		9				10		520			1				Air Conditioning Controls
108								600	11				12			2280						EXH. FANS REF. 1, 3 & 4
110		6				900			13				14	2160				6				EMERG. LTS.
							1200		15				16		1520			7				EMERG. LTS.
SPACE								1800	17				18			400		1				109
									19				20									SPACE
									21				22									
									23				24									
TOTAL WATTS LEFT SIDE OF PANEL						2560	2280	2400						4360	3520	4080	TOTAL WATTS RIGHT SIDE OF PANEL					

TOTAL KW LOADING 18.89 — AMPS/PHASE: 47 — FEEDER SIZE: 4#1

@ TIME SWITCH, 3P. ST. 30A. 120V. TORK @ 1963Z

PANEL "C"

TYPE: NLAB — VOLTAGE: 120/208V. 3 Φ, 4-WIRE — LUGS ONLY

LOCATION	NO. OF POLES	SIZE	OUTLETS LTS	OUTLETS REC.	OUTLETS MISC.	WATTS A	WATTS B	WATTS C	CKT NO.	PHASE A	PHASE B	PHASE C	CKT NO.	WATTS A	WATTS B	WATTS C	OUTLETS LTS	OUTLETS REC.	OUTLETS MISC.	SIZE	NO. OF POLES	LOCATION
101	1	20		8		200			1				2	800						20	1	SPARE
EXTERIOR MISC. LTS.							400		3				4		1000							
FACILITY DIST. PNL.								800	5				6			1000						
1175 V.S.I.P. Pump Pl. TIMER, SYSTEMS OFFICE & ANNUNCIATOR PANEL				1		180			7				8	2080								
5 SPARE							1000		9				10		1000							
								900	11				12			2080						
TOTAL WATTS LEFT SIDE OF PANEL						380	1400	2200						2880	2000	3080	TOTAL WATTS RIGHT SIDE OF PANEL					

TOTAL KW LOADING 12.4 — AMPS/PHASE: 35 — FEEDER SIZE: 4#8

PANEL "R"

TYPE: NLAB — VOLTAGE: 120V. 1 Φ, 2-WIRE — LUGS ONLY

LOCATION	NO. OF POLES	SIZE	OUTLETS LTS	OUTLETS REC.	OUTLETS MISC.	WATTS L1	WATTS L2	CKT NO.	PHASE L1	PHASE L2	CKT NO.	WATTS L1	WATTS L2	OUTLETS LTS	OUTLETS REC.	OUTLETS MISC.	SIZE	NO. OF POLES	LOCATION
	1	20						1			2						20		
								3			4								
								5			6								
TOTAL WATTS LEFT SIDE OF PANEL																		TOTAL WATTS RIGHT SIDE OF PANEL	

TOTAL KW LOADING ____ — AMPS/PHASE: ____ — FEEDER SIZE: 2#4

NOTES:

1. FOR MOUNTING DETAIL OF LIGHTING FIXTURE IN ASSEMBLY AREA SEE DET. (D/E-5)
2. FOR WIRING DIAGRAM OF ASSEMBLY AREA LTG. CONTROL SEE DET. (1/E-5)
3. FOR FIXTURE SCHEDULE SEE DWG. E-2
4. FOR SYMBOL LIST SEE DWG. E-1
5. LOCK IN CKT. BKRS. ENSURES EMERGENCY LIGHTING.

HALF SIZE PRINT

NORMAN ENGINEERING CO. CONSULTING ENGINEERS LOS ANGELES, CALIFORNIA

U.S. ATOMIC ENERGY COMMISSION CHICAGO OPERATIONS OFFICE ARGONNE NATIONAL LABORATORY LEMONT, ILLINOIS

REVISIONS	BY	APPROVED
6. DEVRIES		
J. VERHOEVEN		

BUILDING 819 HIGH EFFICIENT SYSTEMS PROTOTYPE HOUSING TEST FACILITY

LIGHTING & RECEPTACLE PLAN

DRAWN	DATE	CHECKED	DATE
26-27	4-8-61	NEG	

E-3

ANL-OPP-CE