



**ELECTRICAL NOTES**

1. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, THE GOVERNING ELECTRICAL CODE AND ALL OTHER INSPECTION DEPARTMENTS HAVING JURISDICTION. OBTAIN CERTIFICATES OR APPROVAL WHERE REQUIRED.
2. ALL MATERIALS FURNISHED SHALL BE NEW AND SHALL BE U.L. LISTED.
3. THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALE DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION AND LOCATION OF ALL LIGHTING FIXTURES, RECEPTACLES AND TELEPHONE OUTLETS, ETC. SHALL BE DETERMINED BY ACTUAL CONDITIONS IN THE FIELD.
4. PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND WITH OTHER CONTRACTORS WHOSE WORK MAY AFFECT THIS INSTALLATION.
6. ELECTRICAL CONTRACTOR SHALL COORDINATE INCOMING ELECTRICAL SERVICE WITH UTILITY COMPANY AND INCLUDE IN HIS BID ALL CHARGES AND FEES INCURRED IN MODIFICATIONS.
7. WHERE MORE THAN ONE SWITCH OCCURS IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN A GANG TYPE BOX UNDER ONE COVER PLATE.
8. ELECTRICAL CONTRACTOR SHALL COORDINATE THE TELEPHONE INSTALLATION WITH THE TELEPHONE COMPANY AND THE GENERAL CONTRACTOR.
9. ELECTRICAL CONTRACTOR, BEFORE INSTALLING ANY OF THE WORK, SHALL SEE THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED COLUMNS, HANG CEILINGS, PLASTER, PARTITIONS, WALLS, ETC. AS SHOWN IN THE ARCHITECTURAL DRAWINGS AND DETAILS. IF ANY WORK IS INSTALLED AND IT LATER DEVELOPS THAT SUCH DETAILS OR DESIGN CANNOT BE FOLLOWED, THE CONTRACTOR AT HIS OWN EXPENSE SHALL MAKE SUCH CHANGES IN THE WORK AS DIRECTED BY THE ARCHITECT. AS WELL AS TO PERMIT THE INSTALLATION OF THE ARCHITECTURAL WORK AS SHOWN ON THE PLANS AND DETAILS. M-2 MC MAY BE USED FOR LIGHTING WIRES.
10. PERFORM TEST REQUIRED BY THE OWNER OR THE ENGINEER IN CONNECTION WITH THE OPERATION OF THE ELECTRICAL SYSTEM IN THE BUILDING.
11. ALL TESTS SHALL BE MADE IN ACCORDANCE WITH THE LATEST STANDARD OF THE IEEE AND THE NATIONAL ELECTRICAL CODE.
12. MINIMUM CONDUCTOR SIZE SHALL BE #12, 600V INSULATION. MINIMUM SIZE CONDUIT SHALL BE 3/4" EMT OR MC CABLE FOR INTERIOR USE AND 3/4" RIGID ALUMINUM OR SCH. 80 PVC FOR EXTERIOR USE. USE THE MC CABLE COPPER FOR LIGHTS AND RECEPTACLE CIRCUITS. EXTERIOR FITTINGS SHALL BE CAST BOXES AND COVERS. INTERIOR FITTINGS SHALL BE CAST WHERE EXPOSED ON WALLS. STAMPED BOXES MAY BE USED ABOVE CEILINGS IN AIR CONDITIONED SPACES.
13. CONTRACTOR SHALL INSTALL WIRING AND OTHER CIRCUIT COMPONENTS TO MATCH EQUIPMENT ACTUALLY INSTALLED.
14. INSTALL GROUND FAULT RECEPTACLES AT RECEPTACLE LOCATIONS WITHIN 5' OF SINKS OR LAVATORIES, AND AT EXTERIOR LOCATIONS. EXTERIOR RECEPTACLES SHALL ALSO BE WATERPROOF.
15. BONDING AND GROUNDING SHALL BE IN ACCORDANCE WITH NFPA 70:250-4.33, 250-4.34, 250-4.35, 250-4.36, 250-4.37, 250-4.38, 250-4.39, 250-4.40, 250-4.41, 250-4.42, 250-4.43, 250-4.44, 250-4.45, 250-4.46, 250-4.47, 250-4.48, 250-4.49, 250-4.50, 250-4.51, 250-4.52, 250-4.53, 250-4.54, 250-4.55, 250-4.56, 250-4.57, 250-4.58, 250-4.59, 250-4.60, 250-4.61, 250-4.62, 250-4.63, 250-4.64, 250-4.65, 250-4.66, 250-4.67, 250-4.68, 250-4.69, 250-4.70, 250-4.71, 250-4.72, 250-4.73, 250-4.74, 250-4.75, 250-4.76, 250-4.77, 250-4.78, 250-4.79, 250-4.80, 250-4.81, 250-4.82, 250-4.83, 250-4.84, 250-4.85, 250-4.86, 250-4.87, 250-4.88, 250-4.89, 250-4.90, 250-4.91, 250-4.92, 250-4.93, 250-4.94, 250-4.95, 250-4.96, 250-4.97, 250-4.98, 250-4.99, 250-5.00.
16. GROUND NEUTRAL IN ACCORDANCE WITH NFPA 70:250-2.36.
17. FUSES SHALL BE ITC CLASS K5, 250 VOLT, 200,000 AMP INTERRUPTING CAP.
18. PROVIDE SERVICES OF A FIRE/SMOKE DETECTION AND ALARM COMPANY TO DESIGN AND INSTALL ALARM SYSTEM TO MEET REQUIREMENTS OF THE STATE FIRE MARSHALL.
19. EXTERIOR LIGHTING SHALL BE SHADDED OR INWARDLY DIRECTED IN SUCH A MANNER SO THAT NO DIRECT LIGHTING OR GAZE IS CAST BEYOND THE PROPERTY LINE. THE INTENSITY OF SUCH LIGHTING SHALL NOT EXCEED ONE FOOT CANDLE AS MEASURED AT THE ADJUTING PROPERTY LINE.
20. ALL ELECTRICAL, MECHANICAL AND PLUMBING PENETRATING FIRE PARTITIONS SHALL BE FIRE CALKED. (PENETRATIONS THROUGH RAISED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E814.)

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

PANEL: PL-1  
LOCATION: NORTH EXTERIOR WALL  
FEEDER SOURCE: SERVICE PROVIDER

NO.	SYMBOL	LOAD DESCRIPTION	AMPS	POLE	LOAD (VA)	RECEPT.	LOCATION	NO.	SYMBOL	LOAD DESCRIPTION	AMPS	POLE	LOAD (VA)	RECEPT.	LOCATION	NO.
1	#4	RECEPT. 2 TON A/C COMPRESSOR #1	40	2	3333	2	60	RECEPT. 15 KW HEAT	15	#12	SWITCH	-	-	SWITCH	15	
2	#4	RECEPT. 2 TON A/C COMPRESSOR #2	40	2	3333	2	60	RECEPT. 15 KW HEAT	16	#12	SWITCH	-	-	SWITCH	16	
3	#4	RECEPT. 2 TON A/C COMPRESSOR #3	40	2	3333	2	60	RECEPT. 15 KW HEAT	17	#12	SWITCH	-	-	SWITCH	17	
4	#4	RECEPT. 2 TON A/C COMPRESSOR #4	40	2	3333	2	60	RECEPT. 15 KW HEAT	18	#12	SWITCH	-	-	SWITCH	18	
5	#4	RECEPT. 2 TON A/C COMPRESSOR #5	40	2	3333	2	60	RECEPT. 15 KW HEAT	19	#12	SWITCH	-	-	SWITCH	19	
6	#4	RECEPT. 2 TON A/C COMPRESSOR #6	40	2	3333	2	60	RECEPT. 15 KW HEAT	20	#12	SWITCH	-	-	SWITCH	20	
7	#4	RECEPT. 2 TON A/C COMPRESSOR #7	40	2	3333	2	60	RECEPT. 15 KW HEAT	21	#12	SWITCH	-	-	SWITCH	21	
8	#4	RECEPT. 2 TON A/C COMPRESSOR #8	40	2	3333	2	60	RECEPT. 15 KW HEAT	22	#12	SWITCH	-	-	SWITCH	22	
9	#4	RECEPT. 2 TON A/C COMPRESSOR #9	40	2	3333	2	60	RECEPT. 15 KW HEAT	23	#12	SWITCH	-	-	SWITCH	23	
10	#4	RECEPT. 2 TON A/C COMPRESSOR #10	40	2	3333	2	60	RECEPT. 15 KW HEAT	24	#12	SWITCH	-	-	SWITCH	24	
11	#4	RECEPT. 2 TON A/C COMPRESSOR #11	40	2	3333	2	60	RECEPT. 15 KW HEAT	25	#12	SWITCH	-	-	SWITCH	25	
12	#4	RECEPT. 2 TON A/C COMPRESSOR #12	40	2	3333	2	60	RECEPT. 15 KW HEAT	26	#12	SWITCH	-	-	SWITCH	26	
13	#4	RECEPT. 2 TON A/C COMPRESSOR #13	40	2	3333	2	60	RECEPT. 15 KW HEAT	27	#12	SWITCH	-	-	SWITCH	27	
14	#4	RECEPT. 2 TON A/C COMPRESSOR #14	40	2	3333	2	60	RECEPT. 15 KW HEAT	28	#12	SWITCH	-	-	SWITCH	28	
15	#4	RECEPT. 2 TON A/C COMPRESSOR #15	40	2	3333	2	60	RECEPT. 15 KW HEAT	29	#12	SWITCH	-	-	SWITCH	29	
16	#4	RECEPT. 2 TON A/C COMPRESSOR #16	40	2	3333	2	60	RECEPT. 15 KW HEAT	30	#12	SWITCH	-	-	SWITCH	30	
17	#4	RECEPT. 2 TON A/C COMPRESSOR #17	40	2	3333	2	60	RECEPT. 15 KW HEAT	31	#12	SWITCH	-	-	SWITCH	31	
18	#4	RECEPT. 2 TON A/C COMPRESSOR #18	40	2	3333	2	60	RECEPT. 15 KW HEAT	32	#12	SWITCH	-	-	SWITCH	32	
19	#4	RECEPT. 2 TON A/C COMPRESSOR #19	40	2	3333	2	60	RECEPT. 15 KW HEAT	33	#12	SWITCH	-	-	SWITCH	33	
20	#4	RECEPT. 2 TON A/C COMPRESSOR #20	40	2	3333	2	60	RECEPT. 15 KW HEAT	34	#12	SWITCH	-	-	SWITCH	34	
21	#4	RECEPT. 2 TON A/C COMPRESSOR #21	40	2	3333	2	60	RECEPT. 15 KW HEAT	35	#12	SWITCH	-	-	SWITCH	35	
22	#4	RECEPT. 2 TON A/C COMPRESSOR #22	40	2	3333	2	60	RECEPT. 15 KW HEAT	36	#12	SWITCH	-	-	SWITCH	36	
23	#4	RECEPT. 2 TON A/C COMPRESSOR #23	40	2	3333	2	60	RECEPT. 15 KW HEAT	37	#12	SWITCH	-	-	SWITCH	37	
24	#4	RECEPT. 2 TON A/C COMPRESSOR #24	40	2	3333	2	60	RECEPT. 15 KW HEAT	38	#12	SWITCH	-	-	SWITCH	38	
25	#4	RECEPT. 2 TON A/C COMPRESSOR #25	40	2	3333	2	60	RECEPT. 15 KW HEAT	39	#12	SWITCH	-	-	SWITCH	39	
26	#4	RECEPT. 2 TON A/C COMPRESSOR #26	40	2	3333	2	60	RECEPT. 15 KW HEAT	40	#12	SWITCH	-	-	SWITCH	40	
27	#4	RECEPT. 2 TON A/C COMPRESSOR #27	40	2	3333	2	60	RECEPT. 15 KW HEAT	41	#12	SWITCH	-	-	SWITCH	41	
28	#4	RECEPT. 2 TON A/C COMPRESSOR #28	40	2	3333	2	60	RECEPT. 15 KW HEAT	42	#12	SWITCH	-	-	SWITCH	42	
29	#4	RECEPT. 2 TON A/C COMPRESSOR #29	40	2	3333	2	60	RECEPT. 15 KW HEAT	43	#12	SWITCH	-	-	SWITCH	43	
30	#4	RECEPT. 2 TON A/C COMPRESSOR #30	40	2	3333	2	60	RECEPT. 15 KW HEAT	44	#12	SWITCH	-	-	SWITCH	44	
31	#4	RECEPT. 2 TON A/C COMPRESSOR #31	40	2	3333	2	60	RECEPT. 15 KW HEAT	45	#12	SWITCH	-	-	SWITCH	45	
32	#4	RECEPT. 2 TON A/C COMPRESSOR #32	40	2	3333	2	60	RECEPT. 15 KW HEAT	46	#12	SWITCH	-	-	SWITCH	46	
33	#4	RECEPT. 2 TON A/C COMPRESSOR #33	40	2	3333	2	60	RECEPT. 15 KW HEAT	47	#12	SWITCH	-	-	SWITCH	47	
34	#4	RECEPT. 2 TON A/C COMPRESSOR #34	40	2	3333	2	60	RECEPT. 15 KW HEAT	48	#12	SWITCH	-	-	SWITCH	48	
35	#4	RECEPT. 2 TON A/C COMPRESSOR #35	40	2	3333	2	60	RECEPT. 15 KW HEAT	49	#12	SWITCH	-	-	SWITCH	49	
36	#4	RECEPT. 2 TON A/C COMPRESSOR #36	40	2	3333	2	60	RECEPT. 15 KW HEAT	50	#12	SWITCH	-	-	SWITCH	50	
37	#4	RECEPT. 2 TON A/C COMPRESSOR #37	40	2	3333	2	60	RECEPT. 15 KW HEAT	51	#12	SWITCH	-	-	SWITCH	51	
38	#4	RECEPT. 2 TON A/C COMPRESSOR #38	40	2	3333	2	60	RECEPT. 15 KW HEAT	52	#12	SWITCH	-	-	SWITCH	52	
39	#4	RECEPT. 2 TON A/C COMPRESSOR #39	40	2	3333	2	60	RECEPT. 15 KW HEAT	53	#12	SWITCH	-	-	SWITCH	53	
40	#4	RECEPT. 2 TON A/C COMPRESSOR #40	40	2	3333	2	60	RECEPT. 15 KW HEAT	54	#12	SWITCH	-	-	SWITCH	54	
41	#4	RECEPT. 2 TON A/C COMPRESSOR #41	40	2	3333	2	60	RECEPT. 15 KW HEAT	55	#12	SWITCH	-	-	SWITCH	55	
42	#4	RECEPT. 2 TON A/C COMPRESSOR #42	40	2	3333	2	60	RECEPT. 15 KW HEAT	56	#12	SWITCH	-	-	SWITCH	56	
43	#4	RECEPT. 2 TON A/C COMPRESSOR #43	40	2	3333	2	60	RECEPT. 15 KW HEAT	57	#12	SWITCH	-	-	SWITCH	57	
44	#4	RECEPT. 2 TON A/C COMPRESSOR #44	40	2	3333	2	60	RECEPT. 15 KW HEAT	58	#12	SWITCH	-	-	SWITCH	58	
45	#4	RECEPT. 2 TON A/C COMPRESSOR #45	40	2	3333	2	60	RECEPT. 15 KW HEAT	59	#12	SWITCH	-	-	SWITCH	59	
46	#4	RECEPT. 2 TON A/C COMPRESSOR #46	40	2	3333	2	60	RECEPT. 15 KW HEAT	60	#12	SWITCH	-	-	SWITCH	60	
47	#4	RECEPT. 2 TON A/C COMPRESSOR #47	40	2	3333	2	60	RECEPT. 15 KW HEAT	61	#12	SWITCH	-	-	SWITCH	61	
48	#4	RECEPT. 2 TON A/C COMPRESSOR #48	40	2	3333	2	60	RECEPT. 15 KW HEAT	62	#12	SWITCH	-	-	SWITCH	62	
49	#4	RECEPT. 2 TON A/C COMPRESSOR #49	40	2	3333	2	60	RECEPT. 15 KW HEAT	63	#12	SWITCH	-	-	SWITCH	63	
50	#4	RECEPT. 2 TON A/C COMPRESSOR #50	40	2	3333	2	60	RECEPT. 15 KW HEAT	64	#12	SWITCH	-	-	SWITCH	64	
51	#4	RECEPT. 2 TON A/C COMPRESSOR #51	40	2	3333	2	60	RECEPT. 15 KW HEAT	65	#12	SWITCH	-	-	SWITCH	65	
52	#4	RECEPT. 2 TON A/C COMPRESSOR #52	40	2	3333	2	60	RECEPT. 15 KW HEAT	66	#12	SWITCH	-	-	SWITCH	66	
53	#4	RECEPT. 2 TON A/C COMPRESSOR #53	40	2	3333	2	60	RECEPT. 15 KW HEAT	67	#12	SWITCH	-	-	SWITCH	67	
54	#4	RECEPT. 2 TON A/C COMPRESSOR #54	40	2	3333	2	60	RECEPT. 15 KW HEAT	68	#12	SWITCH	-	-	SWITCH	68	
55	#4	RECEPT. 2 TON A/C COMPRESSOR #55	40	2	3333	2	60	RECEPT. 15 KW HEAT	69	#12	SWITCH	-	-	SWITCH	69	
56	#4	RECEPT. 2 TON A/C COMPRESSOR #56	40	2	3333	2	60	RECEPT. 15 KW HEAT	70	#12	SWITCH	-	-	SWITCH	70	
57	#4	RECEPT. 2 TON A/C COMPRESSOR #57	40	2	3333	2	60	RECEPT. 15 KW HEAT	71	#12	SWITCH	-	-	SWITCH	71	
58	#4	RECEPT. 2 TON A/C COMPRESSOR #58	40	2	3333	2	60	RECEPT. 15 KW HEAT	72	#12	SWITCH	-	-	SWITCH	72	
59	#4	RECEPT. 2 TON A/C COMPRESSOR #59	40	2	3333	2	60	RECEPT. 15 KW HEAT	73	#12	SWITCH	-	-	SWITCH	73	
60	#4	RECEPT. 2 TON A/C COMPRESSOR #60	40	2	3333	2	60	RECEPT. 15 KW HEAT	74	#12	SWITCH	-	-	SWITCH	74	
61	#4	RECEPT. 2 TON A/C COMPRESSOR #61	40	2	3333	2	60	RECEPT. 15 KW HEAT	75	#12	SWITCH	-	-	SWITCH	75	
62	#4	RECEPT. 2 TON A/C COMPRESSOR #62	40	2	3333	2	60	RECEPT. 15 KW HEAT	76	#12	SWITCH	-	-	SWITCH	76	
63	#4	RECEPT. 2 TON A/C COMPRESSOR #63	40	2	3333	2	60	RECEPT. 15 KW HEAT	77	#12	SWITCH	-	-	SWITCH	77	
64	#4	RECEPT. 2 TON A/C COMPRESSOR #64	40	2	3333	2	60	RECEPT. 15 KW HEAT	78	#12	SWITCH	-	-	SWITCH	78	
65	#4	RECEPT. 2 TON A/C COMPRESSOR #65	40	2	3333	2	60	RECEPT. 15 KW HEAT	79	#12	SWITCH	-	-	SWITCH	79	
66	#4	RECEPT. 2 TON A/C COMPRESSOR #66	40	2	3333	2	60	RECEPT. 15 KW HEAT	80	#12	SWITCH	-	-	SWITCH	80	
67	#4	RECEPT. 2 TON A/C COMPRESSOR #67	40	2	3333	2	60	RECEPT. 15 KW HEAT	81	#12	SWITCH					