

SHEET NOTES:

- A. DRAWINGS ARE INTENDED TO SHOW GENERAL ARRANGEMENT, DESIGN, AND EXTENT OF WORK AND ARE DIAGRAMMATIC. DRAWINGS ARE NOT INTENDED TO SHOW EXACT LOCATIONS EXCEPT WHERE DIMENSIONS ARE SHOWN. ELECTRICAL WORK IS SHOWN ON PLANS USING STANDARD INDUSTRY SYMBOLS. BEFORE ORDERING MATERIALS OR DOING WORK, VERIFY MEASUREMENTS PERTAINING THERETO AND ASSUME RESPONSIBILITY THEREFOR. ANY SUBSTANTIAL DIFFERENCES BETWEEN DRAWINGS AND CONDITIONS IN THE FIELD SHALL BE SUBMITTED TO THE CONSTRUCTION MANAGER FOR CONSIDERATION BEFORE PROCEEDING WITH WORK.
- B. WORK PERFORMED INCLUDES LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO INSTALL A COMPLETE ELECTRICAL SYSTEM AS INDICATED ON THESE DRAWINGS AND AS SPECIFIED. REFER TO ELECTRICAL CONNECTION SCHEDULE FOR CONDUIT, WIRING, COPD, DISCONNECT REQUIREMENTS.
- C. VERIFY EQUIPMENT SIZES AND POWER REQUIREMENTS FOR EQUIPMENT PROVIDED BY OTHERS.
- D. ELECTRICAL CONDUITS IN FINISHED SPACES SHALL BE CONCEALED. COORDINATE WITH OTHER TRADES AND USE CHASES AND CEILING SPACES. LOCATIONS OF ELECTRICAL JUNCTION BOXES IN FINISHED SPACES SHALL BE APPROVED BY ARCHITECT PRIOR TO ROUGH-IN.
- E. REFER TO MECHANICAL AND PLUMBING PLANS FOR EXACT LOCATION OF HVAC/PLUMBING EQUIPMENT.
- F. PROVIDE CONDUIT, WIRE AND J-BOXES FOR CIRCUITING SHOWN. QUANTITY AND SIZES OF J-BOXES TO BE DETERMINED BY CONTRACTOR.
- G. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY ELECTRICAL CIRCUITS AFFECTED BY CONSTRUCTION. SUCH CIRCUITS WILL BE REPAIRED IMMEDIATELY. THERE WILL BE NO DISRUPTION OF SERVICE OUTSIDE OF CONSTRUCTION ZONE AREA.
- H. PROVIDE TAMPER PROOF RECEPTACLES IN RESIDENTIAL UNITS.
- I. AT PORCHES, ROUTE FLOOR MOUNTED CONDUIT BETWEEN STRUCTURAL DECK AND RAISED PAVERS. SECURE, SUPPORT, AND SLOPE CONDUIT PER CODE.

NUMBERED NOTES:

- 1 RECEPTACLE MOUNTED ON SIDE OF ISLAND NOT MORE THAN 12" BELOW COUNTER TOP SURFACE.
- 2 ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL A DEDICATED 15A/1P 120VAC CIRCUIT FOR SMOKE ALARMS IN DWELLING UNIT. CONNECT ALL SMOKE ALARMS IN RESPECTIVE UNIT TO THE DEDICATED CIRCUIT. REFER TO FIRE SUPPRESSION DRAWINGS FOR LOCATION AND QUANTITIES OF SMOKE ALARMS.
- 3 ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL TWO (2) DPDT (DOUBLE POLE DOUBLE THROW) TRANSFER RELAY WITH 120 VOLT, 60HZ, COIL, 20AMP/120 VOLT CONTACT RATINGS AND NEMA 1 ENCLOSURE IN THE UNIT FOR THE WINE FRIDGE AND THE DESIGNATED DUPLEX RECEPTACLE. SUCH THAT FAILURE OF UTILITY POWER WILL TRANSFER THE LOAD TO THE EMERGENCY CIRCUIT. REFER TO THE PANEL, SCHEDULES FOR THE CIRCUITING REQUIREMENT OFF OF THE ELECTRICAL PANEL DEDICATED FOR OPTIONAL STAND-BY LOAD.
- 4 RECEPTACLE NOTED IS TO BE BOCCI - 22-SYSTEM FLUSH MOUNTED OUTLETS. SUPPLY AND INSTALL DEAD FRONT SELF-TEST GFCI SWITCH TO PROVIDE GROUND FAULT PROTECTION TO THE BOCCI - 22-SYSTEM FLUSH MOUNTED OUTLETS. EXACT LOCATION OF THE DEAD FRONT SELF-TEST GFCI SWITCH IS TO BE CONFIRMED WITH INTERIOR DESIGNER PRIOR TO INSTALLATION.
- 5 SUPPLY AND INSTALL WALL MOUNTED J-BOX INSTALLATION OF IN-DRAWERS RECEPTACLES. IN-DRAWERS RECEPTACLES ARE TO BE SUPPLIED AND INSTALLED BY OTHERS.
- 6 EXHAUST FANS NOTED ARE TO BE CONTROLLED BY THE LIGHT SWITCH LOCATED IN THE ROOM.

Unit A		2,650 sq.ft.	
Load Description	VA/eq. (or quantity)	VA	Total VA
1 General Lighting:			
a. General lighting & receptacles	3	7,350	
b. Small appliances (2 each)	3	4,500	
c. Laundry circuit	1	1,500	
Total		13,350	13,350
2 Fixed Appliances:			
		32,345	32,345
3 Cooking (Electric)	1	8,000	8,000
4 Clothes Dryer	1	5,000	5,000
5 HVAC:			
a. FCU	4	3,400	
b. BATHROOM EF	7	360	
c. 0	-	-	
d. 0	-	-	
e. 0	-	-	
f. 0	-	-	
g. MUA (Large)	1	16,000	
h. MUA (Small)	-	-	
i. 0	-	-	
j. 0	-	-	
k. 0	-	-	
l. Watts per square foot	-	-	
Total		19,750	19,750
Total Load:			79,445
Application of Demand Factor: (NEC 220-82)			
1 First 10KVA at 100%		10,000	
2 Remaining Load at 40%		19,718	
3 Air Conditioning at 100%		19,750	
Total Load:			49,468
Total amp at 208V, 3 phase			137

UNIT LOAD CALCULATION - UNIT A

SCALE: NTS

BRANCH PANEL: UNIT PANEL - A

Location: LAUNDRY A.12
Main Bus: 400 A
MCCB: 250 A
Voltage: 120/208 Vwye
A/C Rating:

Fed From:

Wires:

Enclosure:

Bus Type:

Mountings:

Neutral Bus:

Ground Bus:

Isolated Ground Bus:

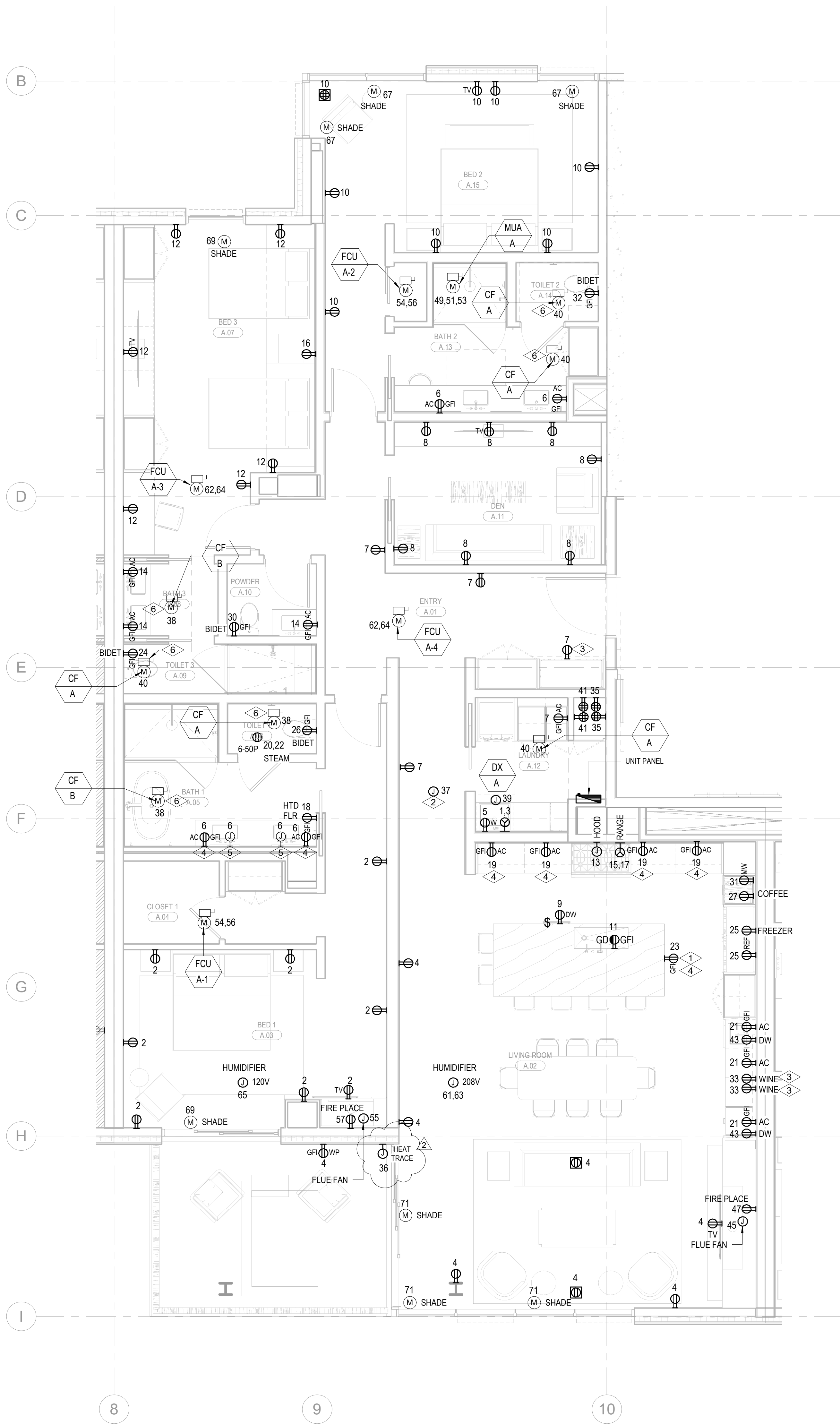
200% Neutral:

Feed Through Lugs:

CKT	Circuit Description	Load Classification				Load Classification				CKT				
		Tripp	Poles	A	B	C	Poles	Tripp						
1	DRYER	RCPTS	30 A	2	2080	1440		1	20 A	RCPTS	RCPTS BED 1 A.03	2		
2	RCPT LAUNDRY A.12	RCPTS	20 A	1		2080	1440		1	20 A	RCPTS	RCPTS BED 1 A.05, BATH 2	4	
3	RCPTS ENTRY A.07	RCPTS	20 A	1	900 VA	1260	180 VA	1080	1	20 A	RCPTS	RCPTS DEN A.11	8	
4	RCPTS LIVING ROOM A.02	RCPTS	20 A	1		180 VA	1460		1	20 A	RCPTS	RCPTS BED 2 A.15	10	
5	RCPTS LIVING ROOM A.02	RCPTS	20 A	1		180 VA	1460	180 VA	1	20 A	RCPTS	RCPTS BED 3 A.07	12	
6	HOOD	RCPTS	50 A	2	500 VA	540 VA			1	20 A	RCPTS	RCPTS BATH 3 POWDER	14	
7	RANGE	RCPTS	50 A	2		4160	180 VA		1	20 A	RCPTS	RCPTS HTD FLR	16	
8	RCPTS LIVING ROOM A.02	RCPTS	20 A	1	1720 VA	4160		4160	180 VA	2	50 A	Power	STEAM	20
9	RCPTS LIVING ROOM A.02	RCPTS	20 A	1		540 VA	4160		1	20 A	RCPTS	HTD FLR	24	
10	RCPTS LIVING ROOM A.02	RCPTS	20 A	1		180 VA	180 VA	180 VA	1	20 A	RCPTS	BIDET	28	
11	FREEZER, REF	RCPTS	20 A	1	360 VA	180 VA			1	20 A	RCPTS	SHOWER	32	
12	COFFEE	RCPTS	20 A	1	180 VA	0 VA	180 VA		1	20 A	RCPTS	BIDET - POWDER ROOM	36	
13	SPARE	RCPTS	20 A	1	180 VA	180 VA			1	20 A	RCPTS	SPARE	40	
14	MW	RCPTS	20 A	1		360 VA	0 VA		1	20 A	RCPTS	SPARE	44	
15	RCPTS	RCPTS	20 A	1		360 VA	1500 VA	500 VA	1	20 A	RCPTS	SPARE	48	
16	RCPT LAUNDRY A.12	RCPTS	20 A	1		360 VA	1500 VA	500 VA	1	20 A	MTR	GE-A	52	
17	JB FOR FKA	MISC	20 A	1	500 VA	1500 VA			1	20 A	MTR	TOT 3 A.09	56	
18	HEAT	HEAT	20 A	1		500 VA	2000 VA		1	20 A	RCPTS	SPARE	60	
19	RCPT LAUNDRY A.12	RCPTS	20 A	1		360 VA	0 VA		1	20 A	RCPTS	SPARE	64	
20	WET BAR DISH WASHER A/C	RCPTS	20 A	1	360 VA	0 VA	500 VA	0 VA	1	20 A	RCPTS	SPARE	68	
21	FLUE FAN	HEAT	20 A	1		500 VA	0 VA		1	20 A	RCPTS	SPARE	72	
22	RCPTS LIVING ROOM A.02	RCPTS	20 A	1	180 VA	0 VA	180 VA	0 VA	1	20 A	RCPTS	SPARE	76	
23	MUA	MTR	60 A	3	5000 VA	0 VA			1	20 A	RCPTS	SPARE	80	
24	SPARE	RCPTS	20 A	1		5000 VA	0 VA		1	20 A	MTR	SPARE	84	
25	FLUE FAN	HEAT	20 A	1	500 VA	500 VA		5000 VA	500 VA	1	20 A	RCPTS	SPARE	88
26	FIRE PLACE	RCPTS	20 A	1		180 VA	0 VA	0 VA	1	20 A	RCPTS	SPARE	92	
27	SPARE	RCPTS	20 A	1		0 VA	0 VA	0 VA	1	20 A	RCPTS	SPARE	96	
28	HUMIDIFIER	HEAT	20 A	2	250 VA	500 VA		0 VA	2	20 A	MTR	FOU-A4	100	
29	HEAT	HEAT	20 A	1		250 VA	500 VA		1	20 A	RCPTS	SPARE	104	
30	SHADE	RCPTS	20 A	1	1500 VA	1500 VA		500 VA	1500 VA	1	20 A	RCPTS	LIGHTING	108
31	SHADE	RCPTS	20 A	1	1500 VA	1500 VA		1000 VA	1500 VA	1	20 A	RCPTS	LIGHTING	112
32	SHADE	RCPTS	20 A	1	1500 VA	1500 VA		1500 VA	1500 VA	1	20 A	RCPTS	SPARE	116
33	SPARE	RCPTS	20 A	1	0 VA	0 VA	0 VA	0 VA	1	20 A	RCPTS	SPARE	120	
34	SPARE	RCPTS	20 A	1	0 VA	0 VA	0 VA	0 VA	1	20 A	RCPTS	SPARE	124	
35	SPARE	RCPTS	20 A	1	0 VA	0 VA	0 VA	0 VA	1	20 A	RCPTS	SPARE	128	
36	SPARE	RCPTS	20 A	1	0 VA	0 VA	0 VA	0 VA	1	20 A	RCPTS	SPARE	132	
37	SPARE	RCPTS	20 A	1	0 VA	0 VA	0 VA	0 VA	1	20 A	RCPTS	SPARE	136	
38	SPARE	RCPTS	20 A	1	0 VA	0 VA	0 VA	0 VA	1	20 A	RCPTS	SPARE	140	
39	SPARE	RCPTS	20 A	1	0 VA	0 VA	0 VA	0 VA	1	20 A	RCPTS	SPARE	144	
Total Load: 24610 VA 26170 VA 17800 VA														
Total Amps: 214 A 227 A 148 A														

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Other	1000 VA		1000 VA	
RCPTS	31280 VA		20630 VA	Total Conn. Load: 166580 VA
Spare	4500 VA		4500 VA	Total Est. Demand: 57950 VA
MTR	20500 VA		20500 VA	Total Conn.: 190 A
HEAT	2500 VA		2500 VA	Total Est. Demand: 161 A
MISC	500 VA		500 VA	
Power	8320 VA		8320 VA	

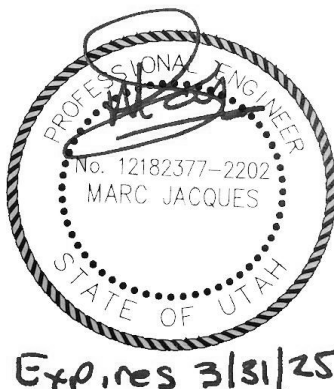
Notes:
*See Demand Factor Table



TOWER A/B - ELECTRICAL PLAN - UNIT A

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

0' 1' 2' 3' 4' 5' 6' 7' 8' 9' 10' 11' 12'



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no. date by

IFC Set 3 of 3
5/31/2024

TOWER A/B ELECTRICAL
POWER PLAN - UNIT A

E2.4.A