



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

DRAWINGS ARE INTENDED TO SHOW GENERAL ARRANGEMENT, DESIGN, AND EXIST OF WORK AND ARE DIAGRAMATIC. DRAWINGS ARE NOT INTENDED TO SHOW EXACT LOCATION OF WORK THEREON. CONTRACTOR SHALL BE RESPONSIBLE FOR SHOWING ALL WORK ON PLANS USING STANDARD INDUSTRY SYMBOLS BEFORE ORDERING MATERIALS OR DOING WORK. VERY MEASUREMENTS PERTAINING THEREIN TO ASSUME RESPONSIBILITY FOR THE ACCURACY OF THE SUBMITTAL. CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD SHALL BE SUBMITTED TO THE CONSTRUCTION MANAGER FOR CONSIDERATION FOR APPROVAL.

B. WORK PERFORMED INCLUDES LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO INSTALL A COMPLETE ELECTRICAL SYSTEM AS INDICATED ON THESE DRAWINGS AND AS SPECIFIED PER THE ELECTRICAL CONSTRUCTION SCHEDULE FOR CONDUIT, WIRING, CORP, DISCONNECT REQUIREMENTS.

D. VERY EQUIPMENT SIZES AND POWER REQUIREMENTS FOR EQUIPMENT PROVIDED BY OTHERS.

E. ELECTRICAL CONDUITS IN FINISHED SPACES SHALL BE CONCEALED. COORDINATE WITH OTHER TRADES AND USE OF PIPES AND CELLULOSE GELING LOCATIONS OF ELECTRICAL UNITS AND IN FINISHED SPACES WILL BE APPROVED BY THE PROJECT TEAM TO AVOID TOUGH.

F. REFERENCE MECHANICAL AND PLUMBING PLANS FOR EXACT LOCATION OF HVAC/PLUMBING EQUIPMENT.

G. PROVIDE CONDUIT, WIRE, AND JOCKS FOR CIRCUITING SHOWS QUANTITY AND SIZES OF EQUIPMENT DETERMINED BY CONTRACTOR.

H. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY ELECTRICAL CIRCUITS AFFECTED BY CONSTRUCTION. SUCH CIRCUITS WILL BE REPAIRED IMMEDIATELY THEREAFTER. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY ELECTRICAL CIRCUITS AFFECTED BY CONSTRUCTION. SUCH CIRCUITS WILL BE REPAIRED IMMEDIATELY THEREAFTER. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY ELECTRICAL CIRCUITS AFFECTED BY CONSTRUCTION. SUCH CIRCUITS WILL BE REPAIRED IMMEDIATELY THEREAFTER. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY ELECTRICAL CIRCUITS AFFECTED BY CONSTRUCTION. SUCH CIRCUITS WILL BE REPAIRED IMMEDIATELY THEREAFTER.

I. PROVIDE TAMPER PROOF RECEPTACLES IN RESIDENTIAL UNITS.

J. AT ALL TIMES, ALL ELECTRICAL WORK SHALL BE PROTECTED FROM MECHANICAL, PNEUMATIC, AND RASPED PIPES, SECURE, SLOPE, AND SLOPE CONDUIT PER CODE.

1 ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL A DEDICATED 15AMP 120VAC CIRCUIT FOR SMOKE ALARMS IN DWELLING
2 UNIT. CONNECT ALL SMOKE ALARMS IN RESPECTIVE UNIT TO THE DEDICATED CIRCUIT. REFER TO FIRE SUPPRESSION DRAWINGS
3 FOR SMOKE ALARM LOCATIONS.
4 ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL TWO (2) 20POT DOUBLE POLE DOUBLE THROW TRANSFER RELAY WITH 120
5 VOLT, 20 AMP COIL, 25AMP/120 VOLT CIRCUIT RATINGS AND TWO (2) 1/2" ENCLOSURE IN THE UNIT FOR THE WINE FRIDGE AND THE
6 WINE COOLER. REFER TO SCHEDULE FOR THE WINE FRIDGE AND WINE COOLER. THE EXISTING CIRCUIT SHALL BE DISCONNECTED
7 FROM THE PANELS. SPECIFICATIONS FOR THE CIRCUITING REQUIREMENT OFF OF THE ELECTRICAL PANEL, DEDICATED FOR
8 THE WINE COOLER AND WINE FRIDGE.
9 RECEPTACLE MOUNTED ON SIDE OF ISLAND NOT MORE THAN 12" BELOW COUNTERTOP SURFACE.
10 RECEPTACLE NOTED TO BE TO BOCCI - 22-SYSTEM FISH MOUNTED OUTLETS. SUPPLY AND INSTALL DEAD FRONT SELF-GEST
11 20 AMP 120VAC GROUND FAULT PROTECTION (GFCI) SWITCHES FOR ALL RECEPTACLES. EXACT LOCATION OF
12 THE DEAD FRONT SELF-GEST GFCI SWITCH IS TO BE CONFIRMED WITH INTERIOR DESIGNER PRIOR TO INSTALLATION.
13 SUPPLY AND INSTALL WALL MOUNTED 3 BOX INSTALLATION OF IN-DRAWERS RECEPTABLES. IN-DRAWERS RECEPTABLES ARE TO
14 BE INSTALLED IN THE KITCHEN AND BREAKFAST ROOMS.
15 EXHAUST FANS NOTED ARE TO BE CONTROLLED BY THE LIGHT SWITCH LOCATED IN THE ROOM.
16

Unit E		3,234	sq.ft.		
Load Description	General Lighting (or quantity)	Va/Wq.ft. (or quantity)	VA	Total VA	
1	General Lighting:				
a	General lighting & receptacles	3	9,762		
b	Small appliances (2 est.)	3	4,500		
c	Laundry circuit	1	1,500		
	Total		15,762	15,762	
2	Fixed Appliances:		32,045	32,045	
3	Cooking (Electric)	1	8,000	8,000	
4	Clothes Dryer:	1	5,000	5,000	
5	HVAC:				
a	FCU	6	5,160		
b	BATHROOM EF	10	580		
c	-	-	-		
d	-	-	-		
e	-	-	-		
f	-	-	-		
g	MUA (Large)	1	16,000		
h	MUA (Small)	-	-		
i	-	-	-		
j	-	-	-		
k	-	-	-		
l	Watts per square foot	-	-		
	Total		21,600	21,600	
Total Load				82,347	
Application of Demand Factor (Nec 220-42)					
1	First 100kVA at 100%			10,000	
2	Remaining load at 40%			20,299	
3	Air Conditioning at 100%			21,600	
Total Load				51,899	
Total amp at 208V, 3 phase					

BRANCH PANEL: UNIT PANEL - E

Location: LAUNDRY E.09
Main Bus: 400 A
MCB: 250 A
Voltage: 120/208 Wye
AIC Rating:

Fed From:
Wires:
Enclosure:
Bus Type:
Mounting:

Neutral Bus:
Ground Bus:
Isolated Ground Bus:
200% Neutral:
Feed Through Lugs:

CKT	Circuit Description	Load Classification				Load Classification				CKT	
		On	Tripp	Poles	A	On	Tripp	Poles	A		
1	DRYER	RCPTS	30 A	2	2080	1000	1	20 A	RCPTS	RCPTS BED 1 E 05	2
2	WASHER	RCPTS	30 A	2	2080	1800	1	20 A	RCPTS	RCPTS BED 1 E 06	2
3	WASHER DRYER E 07	RCPTS	30 A	2	1200	700	1	20 A	RCPTS	RCPTS BATH 1 E 05	8
4	DISHWASH	RCPTS	30 A	1	180	1200	1	20 A	RCPTS	BED 2 E 16	10
5	WASHER DISPOSAL	RCPTS	30 A	1	180	1200	1	20 A	RCPTS	BED 2 E 15	12
13	HOOD	Other	30 A	1	500	VA 180	1	20 A	RCPTS	RCPTS POWDER E 03	14
15	RANGE	RCPTS	50 A	2	4160	1000	1	20 A	RCPTS	RCPTS BED 4 E 10	16
19	RCPTS LIVING E 02	RCPTS	30 A	1	360	VA 4160	1	20 A	RCPTS	HOT R	20
20	RCPTS LIVING E 02	RCPTS	30 A	1	360	VA 4160	1	20 A	Power	STEAM	22
23	RCPTS LIVING E 02	RCPTS	30 A	1	360	VA 180	1	20 A	RCPTS	RCPTS	24
24	HEAT TRAC	RCPTS	30 A	1	500	VA 180	1	20 A	RCPTS	RCPTS	28
27	COFFEE	RCPTS	30 A	1	500	VA 180	1	20 A	RCPTS	RCPTS	28
29	WIRE	RCPTS	30 A	1	180	VA 180	1	20 A	RCPTS	RCPTS	30
31	MICROWAVE	RCPTS	30 A	1	180	VA 180	1	20 A	RCPTS	RCPTS	32
33	SPARE	Power	30 A	1	0	VA 0	1	20 A	--	SPARE	34
37	JIB FOR FA	MISC	30 A	1	500	VA 180	1	20 A	RCPTS	RCPTS	38
38	SPARE	RCPTS	30 A	1	500	VA 2000	1	20 A	RCPTS	RCPTS	40
39	RCPTS LAUNDRY E 09	RCPTS	30 A	1	360	VA 3000	1	20 A	HVAC	CF-A	42
43	SPARE	RCPTS	30 A	1	500	VA 180	1	20 A	HVAC	HEAT	44
44	FLUE FAN	HVAC	30 A	1	500	VA 250	1	20 A	HVAC	HEAT	46
47	RCPTS LIVING E 02	RCPTS	30 A	1	180	VA 250	1	20 A	HVAC	HEAT	48
48	WIRE	RCPTS	60 A	3	5000	500	VA	2	RCPTS	FCU-E-3	50
51	--	--	--	--	5000	500	VA	--	--	--	52
55	FLUE FAN	HVAC	30 A	1	500	VA 0	1	20 A	--	SPARE	54
56	WIRE	RCPTS	30 A	1	180	VA 500	1	20 A	HVAC	FCU-E-3	56
59	SPARE	--	--	--	0	VA 0	1	20 A	--	--	60
61	SPARE	--	--	--	0	VA 0	1	20 A	--	SPARE	62
62	SPARE	RCPTS	30 A	1	500	VA 500	1	20 A	RCPTS	RCPTS	64
66	SHADES	RCPTS	30 A	1	2000	250	VA	2	HVAC	FCU-E-5	66
67	SHADES	RCPTS	30 A	1	2000	1500	1	20 A	--	--	68
68	SHADES	RCPTS	30 A	1	2000	1500	1	20 A	--	LIGHTING	70
69	SHADES	RCPTS	30 A	1	2000	1500	1	20 A	--	LIGHTING	72
73	SPARE	--	--	--	0	VA 1500	1	20 A	--	SPARE	74
77	FIREPRT	HVAC	30 A	1	500	VA 0	1	20 A	--	SPARE	78
78	RCPTS	RCPTS	30 A	1	180	VA 500	1	20 A	HVAC	HEAT	80
82	SPARE	RCPTS	30 A	1	180	VA 0	1	20 A	RCPTS	RCPTS	82
83	SPARE	--	--	--	0	VA 0	1	20 A	--	SPARE	84
Total Load:		21370 VA		27870 VA		23662 VA					

UNIT PANEL - E LOAD SUMMARY

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Other	1000 VA		1000 VA	
RCPTs	34700 VA		22350 VA	Total Conn. Load: 74880 VA
Score	4500 VA		4500 VA	Total Est. Demand: 62300 VA
MTRS	15000 VA		15000 VA	Total Conn.: 208 A
MISC	500 VA		500 VA	Total Est. Demand: 174 A
Power	8680 VA		8680 VA	
HVAC	10500 VA		10500 VA	

Notes:
*See Demand Factor Table

Expires 3/31/25
Stamped 5/31/24

Reserved for permit stamp

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date 5/21

revisions:

2	5/31/2024	IFC 3
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No.	Date	Dr.

IFC Set 3 of 3

TOWER A/B ELECTRICAL
POWER PLAN - UNIT E

E2.4.E