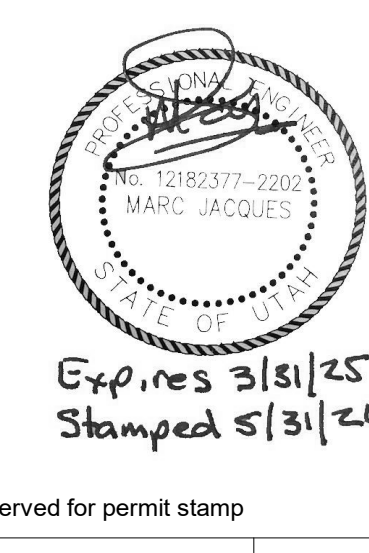




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principal architect _____
project manager _____
drawn by _____
checked by _____
job no. _____
date 05/31/2024
revisions:
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IFC Set 3 of 3
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TOWER C ELECTRICAL
POWER PLAN - UNIT R
E2.4.R

NUMBERED NOTES:

- ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL A DEDICATED 15A/1P 120VAC CIRCUIT FOR SMOKE ALARMS IN THE UNIT. CONNECT ALL SMOKE ALARMS IN RESPECTIVE UNIT TO THE DEDICATED CIRCUIT. REFER TO FIRE SUPPRESSION DRAWINGS FOR LOCATION AND QUANTITIES OF SMOKE ALARMS.
- 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 FROSE AND THE DESIGNATED DUXLEY 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.

SHEET NOTES:

- 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.
- 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.
- VERIFY EQUIPMENT SIZES AND POWER REQUIREMENTS FOR EQUIPMENT PROVIDED BY OTHERS.
- 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.
- REFER TO MECHANICAL AND PLUMBING PLANS FOR EXACT LOCATION OF HVAC/PLUMBING EQUIPMENT.
- PROVIDE CONDUIT, WIRE AND J-BOXES FOR CIRCUITING SHOWN. QUANTITY AND SIZES OF J-BOXES TO BE DETERMINED BY CONTRACTOR.
- 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.
- PROVIDE TAMPER PROOF RECEPTACLES IN RESIDENTIAL UNITS.

Unit R 425 sq.ft.			
Load Description	V.A. (or quantity)	VA	Total VA
1 General Lighting			
a. General lighting & receptacles	3	1,275	
b. Small appliances (2 x 25)	2	3,000	
c. Laundry circuit	1	1,500	
Total		5,775	5,775
2 Fixed Appliances		10,645	10,645
3 Cooking (Electric)	1	8,000	8,000
4 Clothes Dryer	1	5,000	5,000
5 HVAC			
a. FCU	2	1,600	
b. BATHROOM EF	2	150	
c. MUA (LARGE)	-	-	-
d. D	-	-	-
e. D	-	-	-
f. D	-	-	-
g. D	-	-	-
h. D	-	-	-
i. D	-	-	-
j. D	-	-	-
k. D	-	-	-
l. Watts per square foot	-	-	-
Total	1,700	1,700	31,120
Application of Demand Factor (NEC 220-62)			
1 First 10KVA at 100%	10,000		
2 Remaining Load at 40%	7,768		
3 Air Conditioning at 100%	1,350		
Total Load			19,468
Total amp at 208V, 3 phase			54

UNIT LOAD CALCULATION - UNIT R

SCALE: NTS

BRANCH PANEL: UNIT PLAN - R(4)

Location: LIVING R-41 Main Bus: 100 A MCB: 100 A Voltage: 120/208 Wye AIC Rating:					Wires: Enclosure: Bus Type: Mounting:					Neutral Bus: Ground Bus: Isolated Ground Bus: 200% Neutral: Feed Through Lugs:						
CKT	Circuit Description	Load Classification	on Trip	Poles	A	B	C	Poles	Tripp	Load Classification	on Trip	Poles	Tripp	Circuit Description	CKT	
1	DRYER	RCPTS	30 A	2	207 VA 540 VA					RCPTS	30 A	2	207 VA 540 VA	RCPTS BED R-42	2	
3			--	--		207 VA 900 VA				1	20 A				4	
5	WASHER	RCPTS	20 A	1		180 VA 180 VA				1	20 A			RCPTS LIVING R-41	6	
7	RCPTS LIVING	RCPTS	20 A	1	180 VA 1000					1	20 A			-- LIGHTING	8	
9	DISHWASHER	RCPTS	20 A	1		180 VA 1000				1	20 A			-- LIGHTING	10	
11	GARBAGE DISPOSAL	RCPTS	20 A	1		180 VA 1000				1	20 A			-- LIGHTING	12	
13	HOOD	MISC	20 A	1	0 VA 0 VA					1	20 A			-- Spare	14	
15	RANGE	RCPTS	50 A	2		4160 0 VA				1	20 A			-- Spare	16	
17			--	--			4160 0 VA			1	20 A			-- Spare	18	
19	RCPTS LIVING	RCPTS	20 A	1	0 VA 0 VA					1	20 A			-- Spare	20	
21	RCPTS LIVING	RCPTS	20 A	1		360 VA 0 VA				1	20 A			-- Spare	22	
23	REF	RCPTS	22 A	1			180 VA 0 VA			1	20 A			-- Spare	24	
25	MMV	RCPTS	20 A	1	180 VA 0 VA					1	20 A			-- Spare	26	
27	Spare		20 A	1		0 VA 0 VA				1	20 A			-- Spare	28	
29	JB FOR FA	MISC	20 A	1		0 VA 0 VA	0 VA 0 VA			1	20 A			-- Spare	30	
31	Spare	--	20 A	1	0 VA 0 VA			0 VA 0 VA		1	20 A			-- Spare	32	
33	Spare	--	20 A	1	0 VA 0 VA			0 VA 0 VA		1	20 A			-- Spare	34	
35	Spare	--	20 A	1	0 VA 0 VA			0 VA 0 VA		1	20 A			-- Spare	36	
37	Spare	--	20 A	1	0 VA 0 VA			0 VA 0 VA		1	20 A			-- Spare	38	
39	Spare	--	20 A	1	0 VA	0 VA				1	20 A			-- Spare	40	
41	Spare	--	20 A	1			0 VA 250 VA			2	25 A			FCU-R-1	42	
43	Spare	--	20 A	1		0 VA 0 VA	0 VA 0 VA			1	20 A			-- Spare	44	
45	Spare	--	20 A	1		0 VA 0 VA	0 VA 0 VA			1	20 A			-- Spare	46	
47	Spare	--	20 A	1		0 VA 0 VA	0 VA 0 VA			1	20 A			-- Spare	48	
49						0 VA		0 VA		1	20 A			-- Spare	50	
51							0 VA	1	20 A					-- Spare	52	
53						0 VA		0 VA		1	20 A			-- Spare	54	
55						0 VA		0 VA		1	20 A			-- Spare	56	
57	Spare	--	20 A	1	0 VA 0 VA		0 VA 1	0 VA		1	20 A			-- Spare	58	
59	Spare	--	20 A	1	0 VA		610 VA			1	20 A			-- Spare	60	
Total Load:					2537 VA 8807 VA					6130 VA					Total CKT: 43 A	
Total Amps:					21 A 61 A 56 A										Total Est. Demand: 47 A	
UNIT PLAN - R(4) LOAD SUMMARY																
Load Classification					Connected Load			*Demand Factor			Estimated Demand			Panel Totals		
RCPTS					11975 VA						10867 VA					
Spare					3000 VA						3000 VA			Total CKT: Load: 15473 VA		
MTR					500 VA						625 VA			Total Est. Demand: 14612 VA		
MISC					0 VA						0 VA			Total CKT: 43 A		
														Total Est. Demand: 47 A		
Notes: *See Demand Factor Table																

BRANCH PANEL: UNIT PLAN - R

Location: BATH R-14 Main Bus: 100 A MCB: 100 A Voltage: 120/208 Wye AIC Rating:					Wires: Enclosure: Bus Type: Mounting:					Neutral Bus: Ground Bus: Isolated Ground Bus: 200% Neutral: Feed Through Lugs:				
CKT	Circuit Description	Load Classification	Trip	Poles	A	B	C	Poles	Trip	Load Classification	Circuit Description	CKT		
1	DRYER	RCPTS	30 A	2	2080 540 VA				1	20 A	RCPTS	RCPTS BED R-12	2	
3		RCPTS	20 A	1		2080 900 VA	180 VA 180 VA	1	20 A	RCPTS	RCPTS LIVING R-11	4		
5	WASHER	RCPTS	20 A	1	180 VA 1000			1	20 A	RCPTS	RCPTS BATH	6		
7	RCPTS LIVING	RCPTS	20 A	1		180 VA 1000		1	20 A	--	-- LIGHTING	8		
9	DISHWASHER	RCPTS	20 A	1			180 VA 1000	1	20 A	--	-- LIGHTING	10		
11	GARBAGE DISPOSAL	RCPTS	20 A	1					1	20 A	-- LIGHTING	12		
13	HOOD	MISC	20 A	1	0 VA 0 VA				1	20 A	-- Spare	14		
15	RANGE	RCPTS	50 A	2		4160 0 VA			1	20 A	-- Spare	16		
17		RCPTS	20 A	1	180 VA 0 VA		4160 0 VA	1	20 A	-- Spare	--	18		
19	RCPTS LIVING	RCPTS	20 A	1			180 VA 0 VA	1	20 A	-- Spare	--	20		
21	RCPTS LIVING	RCPTS	20 A	1		360 VA 0 VA			1	20 A	-- Spare	22		
23	REF	RCPTS	20 A	1			180 VA 0 VA	1	20 A	-- Spare	--	24		
25	MMV	RCPTS	20 A	1	180 VA 0 VA				1	20 A	-- Spare	26		
27	Spare	RCPTS	20 A	1		0 VA 0 VA			1	20 A	-- Spare	28		
29	JB FOR FA	MISC	20 A	1			0 VA 0 VA	1	20 A	-- Spare	--	30		
31	Spare	--	20 A	1	0 VA 0 VA	0 VA 0 VA			1	20 A	-- Spare	32		
33	Spare	--	20 A	1		0 VA 0 VA			1	20 A	-- Spare	34		
35	Spare	--	20 A	1			0 VA 0 VA	1	20 A	-- Spare	--	36		
37	Spare	--	20 A	1	0 VA 0 VA				1	20 A	-- Spare	38		
39	Spare	--	20 A	1		0 VA 0 VA			1	20 A	-- Spare	40		
41	Spare	--	20 A	1			0 VA 250 VA	2	20 A	-- MTRRS	FCU-R-1	42		
43	Spare	--	20 A	1			0 VA 0 VA	1	20 A	-- Spare	--	44		
45	Spare	--	20 A	1		0 VA 0 VA			1	20 A	-- Spare	46		
47	Spare	--	20 A	1			0 VA 0 VA	1	20 A	-- Spare	--	48		
49	Spare	--	20 A	1	0 VA 0 VA	0 VA 0 VA			1	20 A	-- Spare	50		
51	Spare	--	20 A	1			0 VA 0 VA	1	20 A	-- Spare	--	52		
53	Spare	--	20 A	1			0 VA 0 VA	1	20 A	-- Spare	--	54		
55	Spare	--	20 A	1	0 VA 0 VA	0 VA 0 VA			1	20 A	-- Spare	56		
57	Spare	--	20 A	1			0 VA 0 VA	1	20 A	-- Spare	--	58		
59	Spare	--	20 A	1			0 VA 1	1	20 A	-- Spare	--	60		
Total Load:					4410 VA	8690 VA	6100 VA							
Total Amps:					37 A	75 A	53 A							
UNIT PLAN - R LOAD SUMMARY														
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals										
RCPTS	15750 VA		12860 VA	Total Conn. Load:	19200 VA									
MTRRS	3000 VA		3000 VA	Total Est. Demand:	16485 VA									
MISC	500 VA		625 VA	Total Conn. Load:	53 A									
	0 VA		0 VA	Total Est. Demand:	46 A									

Notes:
*See Demand Factor Table