

Type	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LAMPS	VOLTS	FIXTURE WATTS	REMARKS
EL-1	LSI	EAR-R-U-WH-LD11-SD2	EMERGENCY LIGHTING UNIT, 2 LAMP, MAINTENANCE FREE LEAD-CALCIUM BATTERY, COLOR BY ARCHITECT.	LED	120 V	5 VA	
EX-1	LSI	LPRX-R-U-WH-LD11-SD2	COMBO EMERGENCY DIE-CAST ALUMINUM LED EXIT SIGN, WITH 2 LED LAMPS, SINGLE FACE GREEN LETTERS, WHITE BACKGROUND BRUSHED ALUMINUM FINISHED, NICKEL-CDMIUM BATTERY, CEILING/BACK MOUNTING.	LED	120 V	2 VA	
LA-1	LSI	SFP24-LED-50-UE-DIM-35	2x4 LED EDGE LIT FLAT PANEL LED TROFFER	LED	120 V	29 VA	
OC-32	LSI	XWM-3-LED-4L-40-UE-BLK-BB	WALL PACK LED WITH INTEGRAL 90-MINUTE EMERGENCY BATTERY BACKUP	LED	120 V	30 VA	
TL-1	STREET WRAP GEN 2	B-SR2-S00-09663	BUILDING WRAP LIGHT		4.5W/FT LED		

### LIGHTING FIXTURE SCHEDULE NOTES

- INSTALL LIGHT FIXTURES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODE REQUIREMENTS.
- VERIFY EXACT MOUNTING HEIGHT AND FINISH OF LIGHTING FIXTURES WITH ARCHITECT PRIOR TO PLACING ORDER OR COMMENCING ROUGH-IN.
- WIRING CONNECTIONS TO EXTERIOR WALL MOUNTED FIXTURES SHALL BE WEATHER TIGHT. USE WEATHERPROOF JUNCTION BOXES, FITTINGS, COVERPLATES, ETC. AS REQUIRED TO PREVENT ENTRY OF WATER INTO WIRING BOXES. (EXTERIOR ONLY)
- ALL POLES SHALL INCLUDE AN INTERNALLY MOUNTED, FACTORY INSTALLED PENDULUM VIBRATION DAMPENER, WITH FLUSH STAINLESS STEEL SOCKET HEAD FASTENERS FINISHED TO MATCH POLE. (EXTERIOR ONLY)
- PROVIDE UN-SWITCH 'HOT' TO ALL EXIT SIGNS, EMERGENCY LIGHTS, AND INTEGRAL EMERGENCY BATTERY BACK-UP DRIVERS.

### EQUIPMENT FEEDER SCHEDULE

MARK	EQUIPMENT TYPE	#	VOLTAGE PHASE	PANEL	CIRCUIT	MOCP	DISCONNECT				REMARKS
							FEEDER	PROVIDER	SIZE-POLES	FUSES	
AC	1	120V - 1P	P1	27	20 A	(2)#12 & (1)#12 G, 1/2"	INTEGRAL				
AC	2	120V - 1P	P1	18	20 A	(2)#12 & (1)#12 G, 1/2"	INTEGRAL				
AHU	1	208V - 1P	P1	30.32	30 A	(2)#12 & (1)#12 G, 1/2"	CONTRACTOR	30A - 2P	NF		INDOOR UNIT POWERED FROM OUTDOOR UNIT
CU	1	208V - 1P	P1	29.31	30 A	(2)#10 & (1)#10 G, 1/2"	CONTRACTOR	30A - 2P	NF		
CU	2	208V - 1P	P1	23.25	15 A	(2)#12 & (1)#12 G, 1/2"	CONTRACTOR	30A - 2P	NF		
EF	1	120V - 1P	P1	6	20 A	(2)#12 & (1)#12 G, 1/2"	INTEGRAL				FAN TO BE CONTROLLED WITH LIGHTING CONTROLS
HP	1	208V - 1P	P1	30.32	30 A	(2)#10 & (1)#10 G, 1/2"	CONTRACTOR	30A - 2P	NF		
RP	1	120V - 1P	P1	53	15 A	(2)#12 & (1)#12 G, 1/2"	CONTRACTOR	20A - 1P	NF		ROUTE EQUIPMENT THRU TIMECLOCK
UH	1	120V - 1P	P1	47	20 A	(2)#12 & (1)#12 G, 1/2"	CONTRACTOR	20A - 1P	NF		
WH	1	208V - 3P	P1	44,46,48	60 A	(3)#6 & (1)#10 G, 1"	CONTRACTOR	60A - 3P	NF		

### ELECTRICAL FEEDER GENERAL NOTES

- DISCONNECT SWITCHES FOR 120V OR 277V EQUIPMENT UNDER 30 AMPS SHALL BE MOTOR RATED TOGGLE SWITCHES.
- CONTRACTOR IS RESPONSIBLE FOR ALL FINAL CONNECTIONS TO EQUIPMENT.
- COORDINATE EXACT ROUGH-IN LOCATIONS PRIOR TO START OF CONSTRUCTION.
- ALL MULTI-VOLT DISCONNECT SWITCHES PROVIDED BY THIS CONTRACTOR SHALL COME WITH A NEUTRAL AND GROUND LUG KIT.

LOAD DESCRIPTION												AIC RATING:		
BKR SIZE	BKR POLE	NOTE	CKT NO.	A	B	C	CKT NO.	NOTE	BKR POLE	BKR SIZE	LOAD DESCRIPTION			
20A	1	C1	1	90	200		2	C2	1	20 A	MENU BOARD			
20A	1	C1	3		1200	204	4	G	1	20 A	101 - NACHO CHEESE...			
20A	1	C1	5				6	C2	1	20 A	LIGHTING			
20A	1	G	7	300	400		8	C1	1	20 A	EXIT SIGN			
20A	1	G	9		300	540	10		1	20 A	HEAD SETS			
20A	1	C1	11				12		1	20 A	RCPT - GENERAL			
20A	1	G	13	636	1200		14	C1	1	20 A	BUILDING SIGN			
20A	1	G	15		900	1200	16	C1	1	20 A	BUILDING SIGN			
20A	1	G	17				18		1	20 A	AC-2			
20A	1	G	19	180	360		20		1	20 A	IT RACK			
20A	1	G	21		1356	1800	22	G	1	20 A	13 - HOT CHOCOLATE...			
15A	2	LOC	23				24		1	20 A	RCPT - IRRIGATION			
--	--	--	25	1113	1456		26	G	2	20 A	10.2 - ICE MACHINE			
20A	1	G	27		1884	1456	28	--	--	--	--			
30A	2	LOC	29				30		2	30 A	HP-1 & AHU-1			
--	--	--	31	2100	2288		32	--	--	--	--			
20A	1	C1	33		180	360	34	C2	1	20 A	OPEN / CLOSE SIGNS			
20A	1	C1	35				36	G	1	20 A	RCPT - POS			
20A	1	C1	37	540	636		38	G	1	20 A	4.1 - BEVERAGE DISPENSER			
20A	1	C1	39		540	636	40	G	1	20 A	4.1 - BEVERAGE DISPENSER			
20A	1	G	41				42	G	1	20 A	14 - BLENDER			
20A	1	G	43	1560	6000		44		3	60 A	WH-1 (WATER HEATER)			
20A	1	G	45		1560	6000	46	--	--	--	--			
20A	1	G	47				48	--	--	--	--			
20A	1	G	49	0	200		50		1	20 A	TIMECLOCK / CONTACTOR			
20A	1	G	51		180	--	52		1	--	SPACE			
15A	1	C2	53				54		1	--	SPACE			
--	--	--	55	--	--		56		1	--	SPACE			
--	--	--	57				58		1	--	SPACE			
--	--	--	59				60		1	--	SPACE			

PHASE A:		CONNECTED	DEMAND
19259 W		60132 W	55900 W
20296 W		167 A	155 A
20577 W			

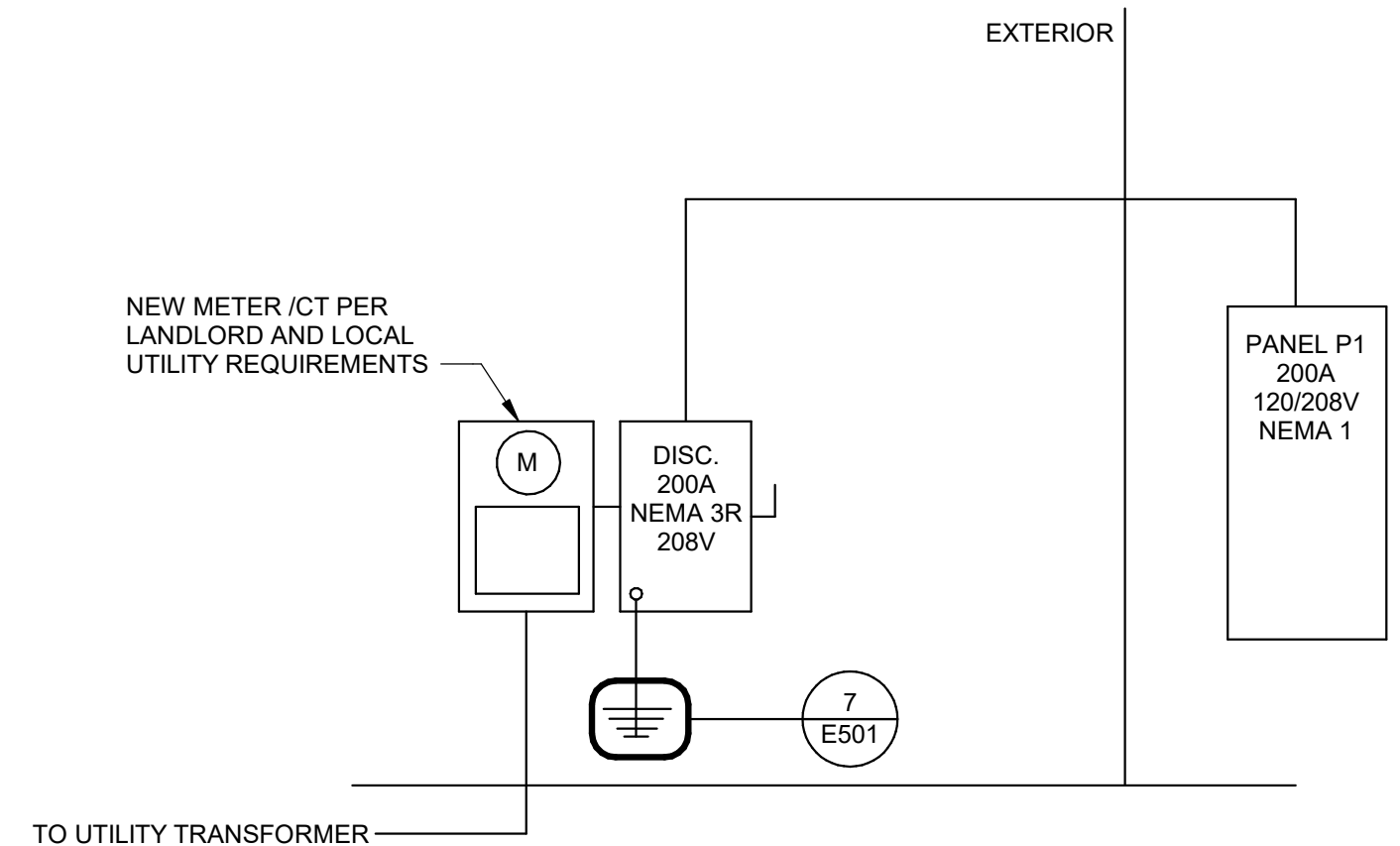
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
HVAC	16292 VA	100.00%	16292 VA	
Lighting	4046 VA	125.00%	5058 VA	TOTAL CONN. LOAD: 60132 VA
Lighting - Exterior	90 VA	125.00%	113 VA	TOTAL EST. DEMAND: 55900 VA
Motor	60 VA	100.00%	60 VA	TOTAL CONN. CURRENT: 167 A
Receptacle	5400 VA	100.00%	5400 VA	TOTAL DEMAND CURRENT: 155 A
Water Heater	18000 VA	100.00%	18000 VA	
Miscellaneous	1200 VA	100.00%	1200 VA	
KITCHEN EQUIPMENT	15044 VA	65.00%	9779 VA	

- PANEL SCHEDULE NOTES:**  
 G = PROVIDE WITH GROUND FAULT CIRCUIT INTERRUPTER  
 C= ROUTE CIRCUIT TO LIGHTING CONTACTOR INDICATED REFER TO LIGHTING CONTROL DIAGRAM ON DETAILS SHEET.  
 LOC - HAND LOCK-OFF FOR 'OFF' POSITION

SYMB	EQUIPMENT DESCRIPTION	VOLTAGE	CIRCUIT NAME		LOAD	MOCP	CONNECTION	FEEDER	NOTES
			PANEL	CIRCUIT					
1	UNDERCOUNTER REFRIGERATOR	120V - 1P	P1	13	636 VA	20 A	NEMA 5-20R	(2)#12 & (1)#12 G, 1/2"	
4.1	BEVERAGE DISPENSER	120V - 1P	P1	40	636 VA	20 A	NEMA 5-20R	(2)#12 & (1)#12 G, 1/2"	
4.1	BEVERAGE DISPENSER	120V - 1P	P1	41	636 VA	20 A	NEMA 5-20R	(2)#12 & (1)#12 G, 1/2"	
4.1	BEVERAGE DISPENSER	120V - 1P	P1	38	636 VA	20 A	NEMA 5-20R	(2)#12 & (1)#12 G, 1/2"	
5	3-DOOR UNDERCOUNTER REFRIGERATOR	120V - 1P	P1	7	300 VA	20 A	NEMA 5-20R	(2)#12 & (1)#12 G, 1/2"	
5.2	GREASE INTERCEPTOR	120V - 1P	P1	9	300 VA	20 A	NEMA 5-20R	(2)#12 & (1)#12 G, 1/2"	
8	3-DOOR REACH-IN FREEZER	120V - 1P	P1	17	948 VA	20 A	NEMA 5-20R	(2)#12 & (1)#12 G, 1/2"	
10.1	ICE MACHINE	120V - 1P	P1	21	1356 VA	20 A	NEMA 5-20R	(2)#12 & (1)#12 G, 1/2"	
10.2	ICE MACHINE	208V - 1P	P1	26,28	2912 VA	20 A	NEMA 6-20R	(2)#12 & (1)#12 G, 1/2"	
13	HOT CHOCOLATE DISPENSER	120V - 1P	P1	22	1800 VA	20 A	NEMA 5-20R	(2)#12 & (1)#12 G, 1/2"	
14	BLENDER	120V - 1P	P1	45	1560 VA	20 A	NEMA 5-20R	(2)#12 & (1)#12 G, 1/2"	
14	BLENDER	120V - 1P	P1	42	1560 VA	20 A	NEMA 5-20R	(2)#12 & (1)#12 G, 1/2"	
100	MICROWAVE	120V - 1P	P1	43	1560 VA	20 A	NEMA 5-20R	(2)#12 & (1)#12 G, 1/2"	
101	NACHO CHEESE WARMER	120V - 1P	P1	4	204 VA	20 A	NEMA 5-20R	(2)#12 & (1)#12 G, 1/2"	

### KITCHEN EQUIPMENT GENERAL NOTES

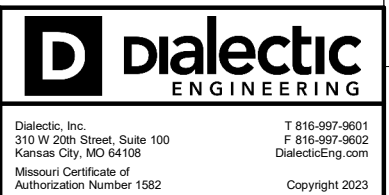
- MAKE FINAL CONNECTIONS TO KITCHEN EQUIPMENT.
- HARDWIRED CONNECTIONS SHALL BE MADE WITH SEAL TIGHT FLEXIBLE METAL CONDUIT WITH INSULATED GROUND WIRE INSTALLED WITH PHASE AND NEUTRAL CONDUCTORS. GROUND WIRE SHALL BE BONDED AT BOTH ENDS.
- VERIFY ALL EQUIPMENT REQUIREMENTS (INCLUDING THOSE SCHEDULED AND OWNER PROVIDED) PRIOR TO ROUGH-IN.
- THE FOLLOWING KITCHEN RECEPTACLES SHALL HAVE GFI PROTECTION BY MEANS OF BREAKERS OR SEPARATE UL 943C DEVICES: ALL 125V THROUGH 250V RECEPTACLES SUPPLIED BY SINGLE PHASE BRANCH CIRCUITS RATED 150V OR LESS TO GROUND-50A OR LESS, AND ALL RECEPTACLES SUPPLIED BY THREE-PHASE BRANCH CIRCUITS RATED 150V TO GROUND-100A OR LESS.



### ELECTRICAL RISER DIAGRAM

1/2" = 1'-0"

EQUIPMENT MARK	FEEDER			NOTES
	RATING	PHASE	WIRE-CONDUIT SIZE	
P1	200 A	120/208V - 3P	(4)#3/0 & (1)#6 G, 2-1/2"	



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**PROFESSIONAL CERTIFICATION**  
 I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MISSOURI.  
 NAME: KATLYN COLLIER  
 ELECTRICAL ENGINEER  
 DISCIPLINE: \_\_\_\_\_ LICENSE NUMBER: 2021046167

No.	Description	Date
1	City Comments	09/13/23

SHEET NAME: **ELECTRICAL SCHEDULES AND DIAGRAMS**

PROJECT NUMBER: **2383.02**

DATE: **07/26/2023**

DRAWN BY: **JGM**

CHECKED BY: **JW**

SCALE: **1/2" = 1'-0"**

**E601**



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