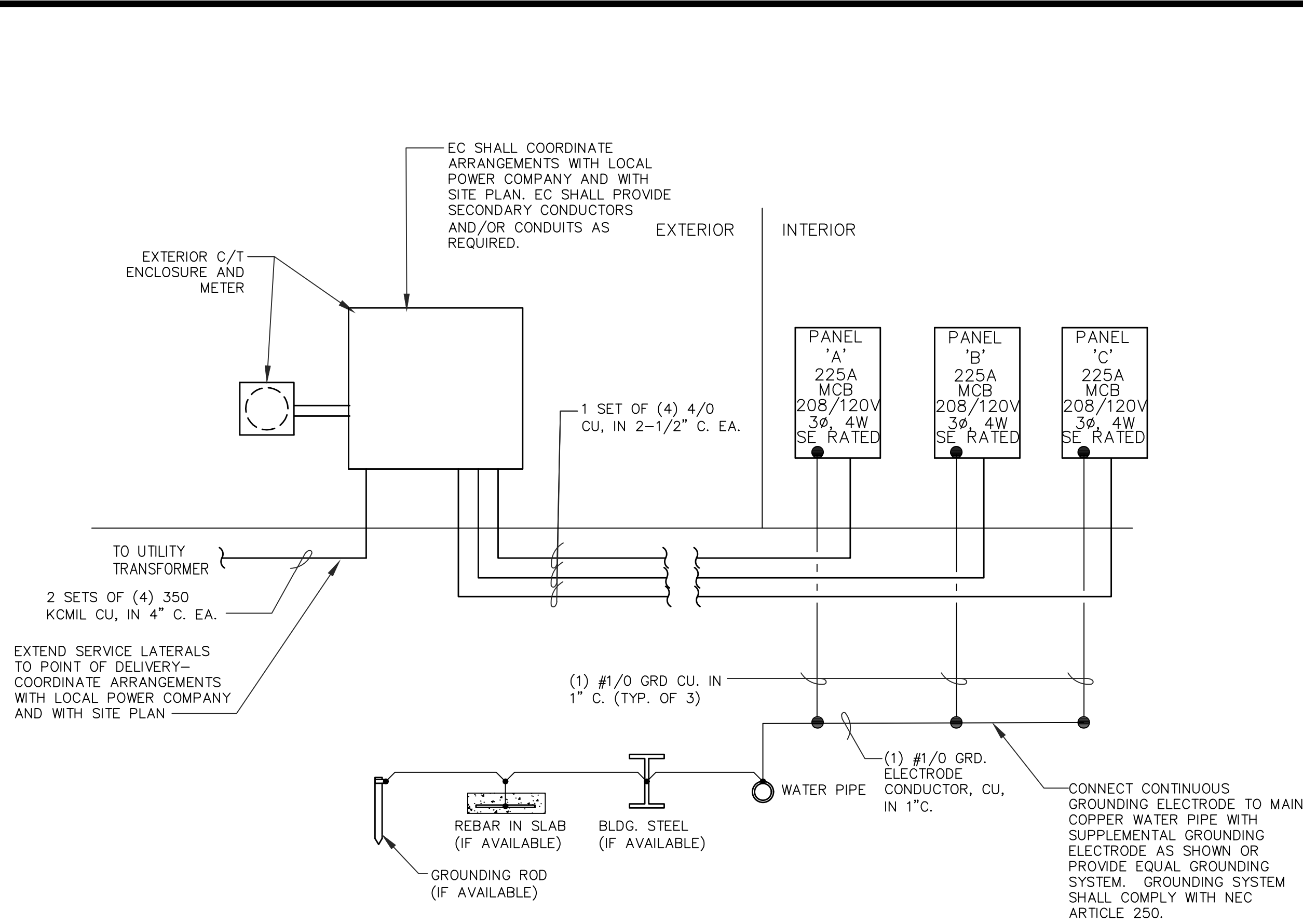


Drawing File: C:\Users\chudson\appdata\local\temp\AcPublish_957\E601r14.dwg
Plotted by: chudson
Plotted Date: Dec 23, 2022 - 9:47am



1 ELECTRICAL RISER DIAGRAM

SCALE: NTS

E601

CKT. #	DESCRIPTION	NOTE	BREAKER POLE	AMP.	LOAD (KVA)	A	B	C	LOAD (KVA)	BREAKER POLE	NOTE	DESCRIPTION	CKT. #
1	LIGHTS KITCHEN/STORAGE	2	1	20	0.80	1.2			0.40	20	1	2	2
3	LIGHTS SERVING/RR/ EF-3	2	1	20	0.47		1.7		1.20	20	1	2,3	4
5	LIGHTS PENDANTS	2	1	20	0.05			1.3	1.20	20	1	2,3	6
7	LIGHTS DINING	2	1	20	0.61	1.8			1.20	20	1	2,3	8
9	SITE LIGHTING	2	1	20	0.98		1.5		0.50	20	1	6	10
11	SITE LIGHTING	2	1	20	0.78			2.0	1.20	20	1	2,3	12
13	TIME CLOCK CONTROLS	1	1	20	0.10	0.6			0.50	20	1	4,6	14
15	1-DR FREEZER #2	1	1	20	0.38		1.2		0.78	20	1	1	16
17	REFR. PREPBOX (TOP PREP)#3	1	1	20	0.84			1.6	0.78	20	1	1	18
19	REFR. PREPBOX (BOTTOM PREP)#3	1	1	20	0.84	1.1			0.25	20	1	1	20
21	REFR. PREPBOX (TOP COOK)#3	1	1	20	0.84		1.8		1.00	20	1	1	22
23	REFR. PREPBOX (BOTTOM COOK)#3	1	1	20	0.84			2.4	1.56	20	2	1	24
25	REFR. PREPBOX (BOTTOM) #13	1	1	20	0.78	2.3			1.56				26
27	CHEFBASE #6	1,7	1	20	0.72		1.2		0.50	20	1	6	28
29	CHEFBASE #6	1,7	1	20	0.72			1.2	0.50	20	1	1	30
31	WARMING STATION(TOP) #8	1	2	20	1.49	1.7			0.25	20	1	1	32
33	2#12, #12 G. 1n (1) 3/4" C. EA	1	1	20	1.49		3.1		1.60	20	1	1,7	34
35	WARMING STATION(BOTTOM) #8	1	2	20	1.49			3.3	1.80	20	1	1,7	36
37	2#12, #12 G. 1n (1) 3/4" C. EA	1	2	20	1.49	4.6			3.14	40	3	6,7	38
39	REFRIGERATED WORKTOP(TOP) #9	1	1	20	0.36		3.5		3.14				40
41	REFRIGERATED WORKTOP(BOTTOM)#9	1	1	20	0.36			3.5	3.14				42
43	FROZEN CUSTARD MACHINE #24T	1	2	30	2.49	8.8			6.29	70	3	6,7	44
45	2#10, #10 G. 1n (1) 3/4" C. EA				2.49		8.8		6.29				46
47	FROZEN CUSTARD MACHINE #24T	1	2	30	2.28			8.6	6.29				48
49	2#10, #10 G. 1n (1) 3/4" C. EA				2.28	3.5			1.20	20	1	1,7	50
51	SPACE						1.2		1.20	20	1	1,7	52
53	SPACE		1					0.2	0.18	20	1	1	54
					25.7 23.9 24.0 TOTAL KVA PER PHASE								
					214 199 200AMPS PER PHASE								
VOLTAGE 208Y/120V													
PHASE 3													
LOCATION SEE PLAN													
WIRE 4													
MOUNTING RECESSED													
MAINS 225 MCB													
FEEDER SEE RISER													
RATING 225 (AMPS)													
MIN AIC SEE FAULT CALC													
NOTES:													
1) PROVIDE GFCI BREAKER.													
2) CONTROLLED VIA CONTACTOR.													
3) PROVIDE LOCKABLE BREAKER PER NEC 600.6													
4) PROVIDE GFCI BREAKER.													
5) PROVIDE HACR TYPE BREAKER													
6) PROVIDE LOCKABLE BREAKER PER NEC 422.31													
7) WIRED VIA SHUNT TRIP CONTACTOR FOR SHUNT TRIP CONTROL.													

CKT. #	DESCRIPTION	NOTE	BREAKER POLE	AMP.	LOAD (KVA)	A	B	C	LOAD (KVA)	BREAKER POLE	NOTE	DESCRIPTION	CKT. #	
1	MONI./PRINT./BUMP.#14A/14B/14C	1,4	1	20	1.44	1.6			0.17	20	1	1	DIPPING CABINETS #22	2
3	MONI./PRINT./BUMP.#14A/14B/14C	1,4	1	20	0.72		0.8		0.12	20	1	1	PEPSI MACHINE (DT) #26	4
5	DATA RACK	1,4	1	20	0.36			0.5	0.12	20	1	1	PEPSI MACHINE (SERVING) #26	6
7	DATA RACK	1,4	1	20	0.36	2.0			1.68	20	1	1	COFFEE/TEA BREWER #33	8
9	OFFICE IG RECEPTACLES	1,4	1	20	0.36		0.7		0.36	20	1	1	JUICE DISPENSER #28	10
11	KITCHEN GENERAL PURPOSE REC	1	1	20	0.18			2.0	1.80	20	1	1	COFFEE BREWER #33B	12
13	OUTSIDE GFI RECEPTACLES (LEFT)	1	1	20	0.36	0.6			0.24	20	1	1	REFRIGERATOR #17	14
15	BAR USB RECEPTACLES	1	1	20	0.72		1.8		1.08	20	1	1	3 DOOR COOLER #48	16
17	OUTSIDE GFI RECEPTACLES (RIGHT)	1	1	20	0.54			1.4	0.84	20	1	1	SERVI ROBOT #99	18
19	OUTSIDE GFI RECEPTACLE (BACK)	1	1	20	0.18	0.9			0.72	20	1	1,4	POS FRONT COUNTER #35	20
21	RESTROOM RECEPTACLES	1	1	20	0.36		1.1		0.72	20	1	1,4	POS DT #35	22
23	RESTROOM SENSORS POWER	3	1	20	0.10			0.1			1		SPACE	24
25	MONITOR #14A	1,4	1	20	0.18	0.2					1		SPACE	26
27	TV IN DINING	1	1	20	0.36		0.5		0.17	20	1	1	DIPPING CABINETS (DT) #22	28
29	COOKER/WARMER (TOP) #12	1	1	20	1.80			2.5	0.72	20	1	1,4	MONI./BUMP.#14A/14B	30
31	IRRIGATION CONTROLLER	1	1	20	0.18	0.5			0.36	20	1		ABOVE CEILING RECEPTACLE	32
33	MODULAR B1B RACK #42	1	1	20	0.18		2.0		1.80	20	1	1	COOKER/WARMER (BOTTOM) #12	34
35	STEAMER (TOP) #11	1	2	20	1.65			2.2	0.54	20	1	1	CEILING RECEPTACLES	36
37	2#12, #12 G. 1n (1) 3/4" C. EA	1	2	20	1.65	4.8			3.14	40	3	3,5	ELECTRIC GRIDDE #65	38
39	STEAMER (BOTTOM) #11	1	2	20	1.65		4.8		3.14				3#8, #10 G. 1n (1) 3/4" C. EA	40
41	2#12, #12 G. 1n (1) 3/4" C. EA				1.65		4.8	3.14						42
43	SPACE		1			0.0					1		SPACE	44
45	SPACE		1			0.0					1		SPACE	46
47	SPACE		1			0.0		0.0			1		SPACE	48
49	SPACE		1			0.0					1		SPACE	50
51	SPACE		1			0.0					1		SPACE	52
53	SPACE		1					0.0			1		SPACE	54
					10.7	11.7	13.4	TOTAL KVA PER PHASE						
					89	98	112	AMPS PER PHASE						
VOLTAGE 208Y/120V PHASE 3 WIRE 4 MAINS 225 MCB RATING 225 (AMPS) WITH I.G. BAR YES														
MODEL SQUARE D NQ LOCATION SEE PLAN MOUNTING RECESSED FEEDER SEE RISER MIN AIC SEE FAULT CALC														
NOTES: 1) PROVIDE GFCI BREAKER. 2) VERIFY WITH EQUIPMENT NAMEPLATE DATA. 3) PROVIDE LOCKABLE BREAKER PER NEC 422.31 4) PROVIDE (2) #12, #12G., #12 ISO. G., 1N 3/4" C. 5) WIRED VIA SHUNT TRIP CONTACTOR FOR SHUNT TRIP CONTROL.														
PANEL "B"														
ITEMS														
RECEPTACLES 6.6 code 6.6														
KITCHEN 26.1 65% 17.0														
HVAC 0.0 100% 0.0														
LIGHTS (INT.) 0.0 100% 0.0														
LIGHTS (EXT.) 0.0 125% 0.0														
MISC. 3.2 100% 3.2														
TOTAL KVA 35.9 26.7														
TOTAL AMPS 100 74														

CKT. #	DESCRIPTION	NOTE	BREAKER POLE	AMP.	LOAD (KVA)	A	B	C	LOAD (KVA)	BREAKER POLE	NOTE	DESCRIPTION	CKT. #
1	RTU-1 FLA: 37.1 MCA: 41	3	3	50	4.45	8.9			4.45	50	3	RTU-2 FLA: 37.1 MCA: 41	2
3	3#6, #10 G. 1n (1) 1" C. EA				4.45		8.9		4.45			3#6, #10 G. 1n (1) 1" C. EA	4
5					4.45			8.9	4.45				6
7	SPARE		1	20		0.7			0.72	20	1	ROOF REC	8
9	SPARE		1	20			0.6		0.61	20	1	AIR CURTAIN #91	10
11	ICE MACHINE #46	1,3	1	20	1.41			1.4	0.01	20	1	WATER FILTER SYSTEM #55	12
13	ICE MACHINE #46	1,3	1	20	1.41	2.4			1.03	15	3	MAU-1 FLA: 9	14
15	SPACE		1				1.0		1.03			3#12, #12 G. 1n (1) 3/4" C. EA	16
17	SPACE		1					1.0	1.03				18
19	HOOD CONTROL PANEL #16/HOOD LTS	4	1	15	0.50	1.9			1.39	25	1	EF-1 FLA: 11.6	20
21	SPACE		1	20			1.4		1.39	25	1	EF-2 FLA: 11.6	22
23	GAS WATER HEATER #92	1	1	20	0.18			0.2			1	SPACE	24
25	WALK-INS LIGHTS/DOOR HEATER	2	1	20	0.50	5.0			4.48	50	3	RTU-3 FLA: 37.3 MCA: 41	26
27	MAU-1 CU-1 FLA: 11.9	3,4	3	20	1.43		5.9		4.48			3#6, #10 G. 1n (1) 1" C. EA	28
29	3#12, #12 G. 1n (1) 3/4" C. EA				1.43			5.9	4.48				30
31					1.43	2.0			0.60	20	3	3	32
33	SPACE	3	1				0.6		0.60			WALK IN FREEZER CONDENSER #47F	34
35	FREEZER EVAPORATOR #47F	3	2	20	0.30			0.9	0.60	20	3	3	36
37	2#12, #12 G. 1n (1) 3/4" C. EA				0.30	0.9			0.60			WALK IN COOLER CONDENSER #47C	38
39	COOLER EVAPORATOR #47C	3	2	20	0.30		0.9		0.60			3#12, #12 G. 1n (1) 3/4" C. EA	40
41	2#12, #12 G. 1n (1) 3/4" C. EA				0.30			0.9	0.60				42
43	DH-1 FLA: 8.3	2,3	1	15	1.00	1.0					1	SPACE	44
45	SPACE		1				0.0				1	SPACE	46
47	SPACE		1					0.0			1	SPACE	48
49	SPACE		1			0.0					1	SPACE	50
51	SPACE		1				0.0				1	SPACE	52
53	SPACE		1					0.0			1	SPACE	54
						22.9	19.3	19.2	TOTAL KVA PER PHASE				
						190	161	160	AMPS PER PHASE				
VOLTAGE 208Y/120V													
PHASE 3													
WIRE 4													
RAINS 225 MCB													
RATING 225 (AMPS)													
WITH I.G. BAR NO													
MODEL SQUARE D NO													
LOCATION SEE PLAN													
MOUNTING RECESSED													
FEEDER SEE Riser													
MIN AIC SEE FAULT CALC													
ITEMS													
CON. % DEM.													
RECEPTACLES 0.7 code 0.7													
KITCHEN 2.8 65% 1.8													
HVAC 51.3 100% 51.3													
LIGHTS (INT.) 0.0 125% 0.0													
LIGHTS (EXT.) 0.0 125% 0.0													
MISC. 6.6 100% 6.6													
TOTAL KVA 61.4 60.5													
TOTAL AMPS 171 168													
NOTES:													
1) PROVIDE GFCI BREAKER.													
2) PROVIDE LOCKABLE BREAKER PER NEC 422.31													
3) PROVIDE HACE TYPE BREAKER													
4) COORDINATE WITH HOOD MANUFACTURER AND HOOD SHEETS FOR EXACT REQUIREMENTS.													