


PANEL AL2																							
CKT	LOAD TYPE	LOAD KVA	DESCRIPTION	C	PH	N	G	CB	PHASE			CB	PH	N	G	C	DESCRIPTION	LOAD KVA	LOAD TYPE	CKT			
									A	B	C												
1	R	0.900	RECEPT - 502	3/4"	10	10	10	20	1.440				20	10	10	10	3/4"	RECEPT - C501	0.540	R	2		
3	R	0.720	RECEPT - 502	3/4"	10	10	10	20		1.620			20	10	10	10	3/4"	RECEPT - 522	0.900	R	4		
5	R	0.720	RECEPT - 504	3/4"	10	10	10	20			1.620		20	10	10	10	3/4"	RECEPT - 522	0.900	R	6		
7	R	0.900	RECEPT - 504	3/4"	10	10	10	20	1.800				20	10	10	10	3/4"	RECEPT - 520	0.900	R	8		
9	R	0.900	RECEPT - 506	3/4"	10	10	10	20		1.800			20	10	10	10	3/4"	RECEPT - 521	0.900	R	10		
11	R	0.720	RECEPT - 506	3/4"	10	10	10	20			1.620		20	10	10	10	3/4"	RECEPT - 521	0.900	R	12		
13	R	0.720	RECEPT - 508	3/4"	10	10	10	20	1.620				20	10	10	10	3/4"	RECEPT - 521	0.900	R	14		
15	R	0.900	RECEPT - 508	3/4"	12	12	12	20		1.800			20	10	10	10	3/4"	RECEPT - 519	0.900	R	16		
17	R	0.540	RECEPT - C500	3/4"	10	10	10	20			1.440		20	10	10	10	3/4"	RECEPT - 519	0.900	R	18		
19	R	0.900	RECEPT - 501	3/4"	10	10	10	20	1.800				20	10	10	10	3/4"	RECEPT - 517	0.900	R	20		
21	R	0.720	RECEPT - 501	3/4"	10	10	10	20		1.620			20	10	10	10	3/4"	RECEPT - 517	0.900	R	22		
23	R	0.720	RECEPT - 503	3/4"	10	10	10	20			1.440		20	10	10	10	3/4"	RECEPT - 515	0.720	R	24		
25	R	0.900	RECEPT - 503	3/4"	10	10	10	20	1.620				20	10	10	10	3/4"	RECEPT - 515	0.720	R	26		
27	R	0.900	RECEPT - 505	3/4"	10	10	10	20		1.800			20	12	12	12	3/4"	RECEPT - 513	0.900	R	28		
29	R	0.720	RECEPT - 505	3/4"	10	10	10	20			1.620		20	12	12	12	3/4"	RECEPT - 513	0.900	R	30		
31	R	0.900	RECEPT - 507	3/4"	12	12	12	20	1.440				20	10	10	10	3/4"	RECEPT - C501	0.540	R	32		
33	R	0.720	RECEPT - 507	3/4"	12	12	12	20		1.680			20	12	12	12	3/4"	EWG - C501 (NOTE 2)	0.960	O	34		
35	O	0.600	NAC PANEL - 509B (NOTE 1)	3/4"	12	12	12	20		1.140			20	10	10	10	3/4"	RECEPT - EXTERIOR	0.540	R	36		
37	O	0.800	AMPLIFIER/CABINET - 509B (NOTE 1)	3/4"	12	12	12	20	1.400				20	12	12	12	3/4"	RECEPT - 509B	0.600	R	38		
39	O	1.000	NETWORK RACK - 509B	3/4"	12	12	12	20		1.600			20	12	12	12	3/4"	RECEPT - 509B	0.600	R	40		
41	O	1.000	NETWORK RACK - 509B / 1	3/4"	12	12	12	20			2.000		20	12	12	12	3/4"	BDA EQUIPMENT - 509B	1.000	O	42		
43	L	0.840	LTS - ELEVATOR OVERHEAD (NOTE 3)	3/4"	10	10	10	20			0.840							SPARE			44		
45	O	0.000	BATTERY LOWERS	3/4"	12	12	12	20			0.900							SPARE			46		
47	O	0.400	SPRINKLER BELL	3/4"	12	12	12	20			0.400							SPARE			48		
49	O		SPARE						0.000									SPARE			50		
51	O		SPARE						0.000									SPARE			52		
53	O		SPARE							0.000								SPARE			54		
55	R		SPARE						0.000									SPACE			56		
57	R		SPARE							0.000								SPACE			58		
59	R		SPARE								0.000							SPACE			60		
LOAD TOTAL:									11.96	12.82	11.28												
LOAD TYPE									CONNECTED	DEMAND													
(R) RECEPTACLES									28.56	68%		19.28											
(M) MOTOR									0.00	100%		0.00											
(H) HVAC									0.00	100%		0.00											
(L) LIGHTING									0.84	125%		1.05											
(O) OTHER									6.66	100%		6.66											
(K) KITCHEN EQUIP									0.00	100%		0.00											
TOTAL									36.06	75%		26.99											
FED FROM: PANEL AL1																							
MOUNT: SURFACE																							
NEMA: 1																							
PROVIDE DOOR WITH LOCK AND HINGED TRIM. PROVIDE COPPER BUSS BARS AND BOLT ON BREAKERS.																							
NOTES:																							
1. PROVIDE RE BREAKER LOOK FOR FIRE ALARM CIRCUITS.																							
2. PROVIDE GROUND BREAKER FOR WATER COOLER.																							
3. CIRCUIT FEEDS EMERGENCY LIGHTS. 																							
ELECTRICAL E02																							
PHASE A 8.952 KVA 74.6 AMP																							
PHASE B 9.595 KVA 80.0 AMP																							
PHASE C 8.443 KVA 70.4 AMP																							

NOTES:

1. PROVIDE RED BREAKER LOOK FOR FIRE ALARM CIRCUITS.

2. PROVIDE RED BREAKER LOOK FOR FIRE ALARM CIRCUITS.

3. CIRCUIT FEEDS EMERGENCY LIGHTS.

4. CIRCUIT FEEDS EMERGENCY LIGHTS.

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NOTES:

1. PROVIDE GFEP CIRCUIT BREAKER.

2.

3.

4.

PANEL AL4																									
CKT	LOAD TYPE	LOAD KVA	DESCRIPTION	C	PH	N	G	CB	PHASE			CB	PH	N	G	C	DESCRIPTION	LOAD KVA	LOAD TYPE	CKT					
									A	B	C														
1	R	0.600	RECEPT - 516, 518	3/4"	10	10	10	20	0.850				15	12	12	12	3/4"	HWUH-1	0.250	H	2				
3	R	0.600	RECEPT - 510A, 512	3/4"	10	10	10	20	0.850				15	12	12	12	3/4"	HWUH-2	0.250	H	4				
5	R	0.600	RECEPT - 510A, 53.1	3/4"	10	10	10	20		1.200			20	12	12	12	3/4"	CHEMICAL FEED - M01	0.600	H	6				
7	R	0.720	RECEPT - 514	3/4"	10	10	10	20	1.320				20	12	12	12	3/4"	CHEMICAL FEED - M02	0.600	H	8				
9	R	0.720	RECEPT - 510, 514	3/4"	10	10	10	20		1.320			20	12	12	12	3/4"	DDC PANEL - M01, 500A	0.600	H	10				
11	R	0.720	RECEPT - 510	3/4"	10	10	10	20			1.440		20	12	12	12	3/4"	RECEPT - M01, 500A	0.720	R	12				
13	O	0.960	EWG - C500A (NOTE 1)	3/4"	10	10	10	20	1.680				20	12	12	12	3/4"	RECEPT - M02	0.720	R	14				
15	R	0.360	RECEPT - 509	3/4"	12	12	12	20		0.809			15	12	12	12	3/4"	BOILER-B-1	0.449	H	16				
17	O	1.200	COPPER - 509	3/4"	12	12	12	20			1.649		15	12	12	12	3/4"	BOILER-B-2	0.449	H	18				
19	R	0.360	RECEPT - 509	3/4"	12	12	12	20	0.930				20					SPARE		O	20				
21	R	0.300	RECEPT - 509	3/4"	12	12	12	20		0.300			20					SPARE		O	22				
23	O	1.200	REFRIGERATOR - 509	3/4"	12	12	12	20		1.400			15	12	12	12	3/4"	WATER HEATER WH-1	0.200	O	24				
25	O	1.500	MICROWAVE - 509	3/4"	12	12	12	20	1.700				15	12	12	12	3/4"	RECIRCULATION PUMP	0.200	O	26				
27	R	0.300	RECEPT - 509	3/4"	12	12	12	20		0.660			20	12	12	12	3/4"	RECEPT - E02	0.360	R	28				
29	R	0.300	RECEPT - 509	3/4"	12	12	12	20			0.900		20	12	12	12	3/4"	DDC PANEL - M02	0.600	H	30				
31	R	0.720	RECEPT - C500, C500A, C500B, EXTERIOR	3/4"	10	10	10	20	2.040										1.320	M	32				
33	R	0.720	RECEPT - EXTERIOR	3/4"	10	10	10	20		2.040			20	12	N/A	12	3/4"	PHWP-1 [3HP]	1.320	M	34				
35	O		SPARE					20			1.320								1.320	M	36				
37	O		SPARE					20	1.320										1.320	M	38				
39	O		SPARE					20		1.320			20	12	N/A	12	3/4"	PHWP-2 [3HP]	1.320	M	40				
41	O		SPARE					20			1.320								1.320	M	42				
43	O		SPARE					20	0.000										O	44					
45	O		SPARE					20		0.000									SPARE	O	46				
47	O		SPARE					20			0.000								SPARE	O	48				
49	O		SPARE					20	0.000										SPARE	O	50				
51	O		SPARE					20		0.000									SPARE	O	52				
53	O		SPARE					20			0.000								SPARE	O	54				
55	O		SPARE					20	0.000										SPARE	O	56				
57	O		SPACE					20		0.000									SPACE	O	58				
59	O		SPACE					20			0.000								SPACE	O	60				
LOAD TOTAL:									9.27	7.30	9.23														
LOAD TYPE									CONNECTED			DEMAND													
(R) RECEPTACLES									8.82			100% 8.82													
(M) MOTOR									7.92			100% 7.92													
(H) HVAC									3.80			100% 3.80													
(L) LIGHTING									0.00			125% 0.00													
(O) OTHER									5.26			100% 5.26													
(K) KITCHEN EQUIP									0.00			100% 0.00													
TOTAL									25.80			100% 25.80													
FED FROM: PANEL AL1																									
POINT: SURFACE																									
NEMA: 1																									
PROVIDE DOOR WITH LOCK AND HINGED TRIM. PROVIDE COPPER BUSH BARS AND BOLT ON BREAKERS.																									
NOTES:																									
1. PROVIDE GFC CIRCUIT BREAKER FOR WATER COOLER.																									
2.																									
3.																									
4.																									
PHASE A																		9.270	KVA	77.3	AMP				
PHASE B																		7.299	KVA	60.8	AMP				
PHASE C																		9.229	KVA	76.9	AMP				