

SPECIFICATIONS:						SQUARE D NQ00 (EXISTING)			EXISTING			MAINS: 400 MAP			
AMPACITY						400 AMP			PANEL-L1A			LOCATION: ELECTRICAL ROOM			
VOLTAGE:						120/208V, 3PH, 4WIRE			AIC=22KAMP			MOUNTING: SURFACE			
AMPS	POLE	TOTAL VA	COND. SIZE	WIRE SIZE	GRD SIZE	DESCRIPTION	CIRC No.	CIRC No.	DESCRIPTION	GRD SIZE	WIRE SIZE	COND. SIZE	TOTAL VA	POLE	AMPS
20	1	600	EX	EX	EX	CUPOLA LIGHTING (EXISTING)	1	2	LANE I.D. LIGHTS (EXISTING)	EX	EX	EX	600	1	20
20	1	600	EX	EX	EX	DORMER LIGHTING (EXISTING)	3	4	LIGHTING CONTACTOR LC-2 (EXISTING)	EX	EX	EX	180	1	20
20	1	600	EX	EX	EX	DORMER LIGHTING (EXISTING)	5	6	LIGHTING EXTERIOR (EXISTING)	EX	EX	EX	1200	1	20
20	1	1,200	EX	EX	EX	MONUMENT SIGN (EXISTING)	7	8	SPARE (EXISTING)					1	20
20	1	540	EX	EX	EX	SERVICE RECEPT. (EXISTING)	9	10	LIGHTING CONTACTOR LC-2 (EXISTING)	EX	EX	EX	180	1	20
20	1	360	EX	EX	EX	TELEPHONE BOARD (EXISTING)	11	12	DRIVE THRU LIGHTING (EXISTING)	EX	EX	EX	128	1	20
40	3						13	14	DRIVE THRU LIGHTING (EXISTING)	EX	EX	EX	128	1	20
40	3					SPARE (EXISTING)	15	16	DRIVE THRU LIGHTING (EXISTING)	EX	EX	EX	128	1	20
40	3						17	18	DRIVE THRU LIGHTING (EXISTING)	EX	EX	EX	128	1	20
40	3						19	20	BUILDING SIGN VIA ASTRONOMICAL TIME C	12	12	1/2"	1,200	1	20
40	3					SPARE (EXISTING)	21	22	FRONT ENTRY LIGHTING EXTERIOR	EX	EX	EX	1200	1	20
40	3						23	24	LIGHTING CONTACTOR LC-2 (EXISTING)	EX	EX	EX	180	1	20
20	1					SPARE (EXISTING)	25	26	TELEPHONE BOARD	EX	EX	EX	360	1	20
20	1					SPARE (EXISTING)	27	28	ASTRONOMICAL TIME CLOCK	12	12	1/2"	180	1	20
40	3						29	30	SPARE (EXISTING)					1	20
40	3					SPARE (EXISTING)	31	32	SPARE (EXISTING)					1	20
40	3						33	34	SPARE (EXISTING)					1	20
						SPARE (EXISTING)	35	36	SPARE (EXISTING)					1	20
						SPARE (EXISTING)	37	38						3	40
						SPARE (EXISTING)	39	40	SURGE ARRESTOR (EXISTING)					3	40
						SPARE (EXISTING)	41	42						3	40
		77,000	(2) 2"	(2) 3/0	(2) 3										
			(2) 2"	(2) 3/0	(2) 3	FEED THROUGH PANEL-A (EXISTING)									
			(2) 2"	(2) 3/0	(2) 3										
SUBTOT. 80900 VA						TOTAL =			86,692 VA			SUBTOT. 5792 VA			
PANEL-L1A DEMAND LOAD CALCULATIONS															
TOTAL RECEPT. LOAD							38,120 VA								
RECEP. 1st 10,000 VA @ 100%							10,000 @100%			10,000 VA					
REST @ 50%							28,120 @50%			14,060 VA					
LIGHTING LOAD @ 125%							10,892 @125%			13,615 VA					
LARGEST MOTOR @ 125%							0 @125%			0 VA					
OTHER MOTORS @ 100%							0 @100%			0 VA					
AIR CONDITIONERS @ 100%							36,500 @100%			36,500 VA					
REST OF ALL OTHER LOADS @ 100%							1,180 @100%			1,180 VA					
							TOTAL LOAD =			75,355 VA					
CURRENT PER PHASE							= TOTAL LOAD (VA) / (208*1.732)								
							= 209 AMPS								
*NON SIMULTANEOUS LOAD VERIFY ALL EQUIPMENT LOAD AND BREAKER AND WIRE SIZES PRIOR TO INSTALLATIONS															

SPECIFICATIONS:						GE A SERIES II PANELBOARD (EXISTING)						EXISTING						MAINS: MLO					
AMPACITY						400 AMP						PANEL-A						LOCATION: ELECTRICAL ROOM					
VOLTAGE:						120/208V, 3PH, 4WIRE						AIC=22KAMP						MOUNTING: SURFACE					
AMPS	POLE	TOTAL VA	COND. SIZE	WIRE SIZE	GRD SIZE	DESCRIPTION	CIRC No.	CIRC No.	DESCRIPTION	GRD SIZE	WIRE SIZE	COND. SIZE	TOTAL VA	POLE	AMPS								
20	1					SPARE (EXISTING)	1	2	CU-1 (EXISTING)	EX	EX	EX	*	2	60								
20	1	256	1/2"	12	12	LIGHTS/SEM WAITING/EXAM RMS 1/2/3	3	4		EX	EX	EX	*	2	60								
20	1	732	1/2"	12	12	LIGHTS/SEM HALL/5NURSE STATION/CLEAN/TRIAG	5	6	CU-2 (EXISTING)	EX	EX	EX	*	2	60								
20	1	600	1/2"	12	12	LIGHTS/SEM OFFICE 12/3 / EXAM 4/5/6/7	7	8		EX	EX	EX	*	2	60								
20	1	560	1/2"	12	12	LIGHTS /EM MEC.RESTRM BREAK RM/TEL/DATA	9	10	CU-3 (EXISTING)	EX	EX	EX	*	2	60								
20	1	492	1/2"	12	12	LIGHTS/SEM HALL 1/EXAM 9/PROCESSING RM	11	12		EX	EX	EX	*	2	60								
30	1	360	1/2"	12	12	LIGHTS/SEM BUS 1/EXAM 3/PROCESSING TOILET RM	13	14	MINI SPLIT CU-4 (EXISTING)	EX	EX	EX	*	2	15								
20	1	1,000	1/2"	12	12	RECEPT. TV(S) WAITING ROOM	15	16		EX	EX	EX	*	2	15								
20	1	720	1/2"	12	12	RECEPT. WAITING AREA	17	18	SPARE (EXISTING)					1	20								
20	1	1500	1/2"	12	12	RECEPT. DRINKING FOUNTAIN	19	20	RE-CIRCULATING PUMP	12	12	1/2"	500	1	20								
20	1	720	1/2"	12	12	RECEPT. JANITOR, BREAK RM, HALLWAY#1	21	22	AHU-3 (EXISTING)	EX	EX	EX	10000	2	60								
20	1	500	EX	EX	EX	AC-1 (EXISTING)	23	24	AHU-2 (EXISTING)	EX	EX	EX		2	60								
20	1	500	EX	EX	EX	EF-1 (EXISTING)	25	26		EX	EX	EX	10000	2	60								
20	1	540	1/2"	12	12	RECEPT. HALLWAY 6/7	27	28	AHU-1 (EXISTING)	EX	EX	EX	10000	2	60								
20	1	180	1/2"	12	12	LIGHTING CONTROL HUB	29	30		EX	EX	EX		2	60								
20	1	540	1/2"	12	12	RECEPT. HALLWAY 3/4/5	31	32		EX	EX	EX		2	60								
20	1	360	1/2"	12	12	RECEPT. BATHROOM	33	34	MOTORIZED DAMPERS	12	12	1/2"	180	1	20								
20	1					LIGHTING CONTROLS	35	36		10	10	3/4"	4500	2	30								
20	1	360	1/2"	12	12	RECEPT. N.S.ALCOVE	37	38	WATER HEATER	10	10	3/4"	2	30									
										6	10	2-1/2"	31,900	3	150								
										6	10	2-1/2"		3	150								
										6	10	2-1/2"		3	150								
SUBTOT. 9920 VA						TOTAL =						77,000 VA						SUBTOT. 67080 VA					

PANEL-A DEMAND LOAD CALCULATIONS																	
TOTAL RECEPT. LOAD						36,320 VA											
RECEP. 1st 10,000 VA @ 100%						10,000 @100%						10,000 VA					
REST @ 50%						26,320 @50%						13,160 VA					
LIGHTING LOAD @ 125%						3,000 @125%						3,750 VA					
LARGEST MOTOR @ 125%						0 @125%						0 VA					
OTHER MOTORS @ 100%						0 @100%						0 VA					
AIR CONDITIONERS @ 100%						36,500 @100%						36,500 VA					
REST OF ALL OTHER LOADS @ 100%						1,180 @100%						1,180 VA					
EX. EXISTING						TOTAL LOAD =						64,590 VA					
EM. EMERGENCY						CURRENT PER PHASE = TOTAL LOAD (VA) / (208*1.732)											
						= 179 AMPS											

*NON SIMULTANEOUS LOAD
VERIFY ALL EQUIPMENT LOAD AND BREAKER AND WIRE SIZES PRIOR TO INSTALLATIONS

SPECIFICATIONS:			GE A SERIES II PANELBOARD (EXISTING)					EXISTING					MAINS: MLO																																																																															
AMPACITY			150 AMP					PANEL-B					LOCATION: ELECTRICAL ROOM																																																																															
VOLTAGE:			120/208V, 3PH, 4WIRE					AIC=22KAMP					MOUNTING: SURFACE																																																																															
AMPS	POLE	TOTAL VA	COND. SIZE	WIRE SIZE	GRD. SIZE	DESCRIPTION	CIRC No.	CIRC No.	DESCRIPTION	GRD. SIZE	WIRE SIZE	COND. SIZE	TOTAL VA	POLE	AMPS																																																																													
20	1	900	1/2"	12	12	RECEPT. EXAM ROOM#1	1	2	RECEPT. PROVIDER OFFICE#1	12	12	1/2"	900	1	20																																																																													
20	1	500	1/2"	12	12	RECEPT. EXAM ROOM#1	3	4	RECEPT. PROVIDER OFFICE#2	12	12	1/2"	900	1	20																																																																													
20	1	900	1/2"	12	12	RECEPT. EXAM ROOM#2	5	6	RECEPT. EXAM ROOM#4	12	12	1/2"	900	1	20																																																																													
20	1	500	1/2"	12	12	RECEPT. EXAM ROOM#2	7	8	RECEPT. EXAM ROOM#4	12	12	1/2"	500	1	20																																																																													
20	1	900	1/2"	12	12	RECEPT. EXAM ROOM#3	9	10	RECEPT. EXAM ROOM#5	12	12	1/2"	900	1	20																																																																													
20	1	540	EX	EX	EX	RECEPT. DATA ROOM (EXISTING)	11	12	RECEPT. EXAM ROOM#5	12	12	1/2"	500	1	20																																																																													
20	1	500	1/2"	12	12	RECEPT. EXAM ROOM#3	13	14	RECEPT. EXAM ROOM#5	12	12	1/2"	900	1	20																																																																													
20	1	720	1/2"	12	12	RECEPT. BUSINESS OFFICE	15	16	RECEPT. EXAM ROOM#5	12	12	1/2"	500	1	20																																																																													
20	1	720	1/2"	12	12	RECEPT. BUSINESS OFFICE	17	18	RECEPT. PROVIDER OFFICE#2	12	12	1/2"	900	1	20																																																																													
20	1	720	1/2"	12	12	QUAD BUSINESS OFFICE	19	20	RECEPT. EXAM ROOM#7	12	12	1/2"	900	1	20																																																																													
20	1	720	1/2"	12	12	QUAD BUSINESS OFFICE	21	22	RECEPT. EXAM ROOM#7	12	12	1/2"	500	1	20																																																																													
20	1	720	1/2"	12	12	QUAD NURSE STATION OFFICE	23	24	RECEPT. EXAM ROOM#9	12	12	1/2"	720	1	20																																																																													
20	1	720	1/2"	12	12	QUAD NURSE STATION OFFICE	25	26	RECEPT. EXAM ROOM#9	12	12	1/2"	500	1	20																																																																													
20	1	720	1/2"	12	12	QUAD NURSE STATION OFFICE	27	28	AUTOClave - PROCESSING RM	12	12	1/2"	1,500	1	20																																																																													
20	1	180	1/2"	12	12	RECEPT. NURSE STATION OFFICE	29	30	RECEPT. PROCESSING ROOM	12	12	1/2"	1,500	1	20																																																																													
20	1	720	1/2"	12	12	RECEPT. BREAK ROOM (EXISTING)	31	32	RECEPT. MECHELEC RM (EXISTING)	EX	EX	EX	360	1	20																																																																													
20	1	1500	1/2"	12	12	RECEPT. BREAK ROOM COUNTER	33	34	RECEPT. PROCESSING ROOM	12	12	1/2"	1,500	1	20																																																																													
20	1	1500	1/2"	12	12	RECEPT. REFRIGERATOR	35	36	QUAD IT ROOM (EXISTING)	EX	EX	EX	360	1	20																																																																													
20	1	720	EX	EX	EX	RECEPT. MTB (EXISTING)	37	38	RECEPT. IT ROOM (EXISTING)	EX	EX	EX	180	1	20																																																																													
20	1	540	EX	EX	EX	RECEPT. GENERAL EXTERIOR (EXISTING)	39	40	RECEPT. TRIAGE & LAB SPEC. COLL.	12	12	1/2"	360	1	20																																																																													
20	1	1500	1/2"	12	12	RECEPT. BREAK ROOM COUNTER	41	42	RECEPT. TRIAGE & LAB SPEC. COLL.	12	12	1/2"	180	1	20																																																																													
SUBTOT.		16440	VA		TOTAL			=	31900		VA		SUBTOT.		15460	VA																																																																												
<div>PANEL-B DEMAND LOAD CALCULATIONS</div>																																																																																												
<table><tr><td>TOTAL RECEPT. LOAD</td><td>30,220</td><td>VA</td><td></td><td></td><td></td><td></td></tr><tr><td>RECEP. 1st 10,000 VA @ 100%</td><td>10,000</td><td>@100%</td><td>10,000</td><td>VA</td><td></td><td></td></tr><tr><td>REST @ 50%</td><td>20,220</td><td>@50%</td><td>10,110</td><td>VA</td><td></td><td></td></tr><tr><td>LIGHTING LOAD @ 125%</td><td>0</td><td>@125%</td><td>0</td><td>VA</td><td></td><td></td></tr><tr><td>LARGEST MOTOR @125%</td><td>0</td><td>@125%</td><td>0</td><td>VA</td><td></td><td></td></tr><tr><td>OTHER MOTORS @ 100%</td><td>0</td><td>@100%</td><td>0</td><td>VA</td><td></td><td></td></tr><tr><td>AIR CONDITIONERS @ 100%</td><td>1,500</td><td>@100%</td><td>1,500</td><td>VA</td><td></td><td></td></tr><tr><td>REST OF ALL OTHER LOADS @ 100%</td><td>180</td><td>@100%</td><td>180</td><td>VA</td><td></td><td></td></tr><tr><td colspan="3">TOTAL LOAD =</td><td colspan="3">21,790</td><td>VA</td></tr><tr><td colspan="3">CURRENT PER PHASE</td><td colspan="3">= TOTAL LOAD (VA) / (208*1.732)</td><td></td></tr><tr><td colspan="3"></td><td colspan="3">= 60</td><td>AMPS</td></tr></table>																TOTAL RECEPT. LOAD	30,220	VA					RECEP. 1st 10,000 VA @ 100%	10,000	@100%	10,000	VA			REST @ 50%	20,220	@50%	10,110	VA			LIGHTING LOAD @ 125%	0	@125%	0	VA			LARGEST MOTOR @125%	0	@125%	0	VA			OTHER MOTORS @ 100%	0	@100%	0	VA			AIR CONDITIONERS @ 100%	1,500	@100%	1,500	VA			REST OF ALL OTHER LOADS @ 100%	180	@100%	180	VA			TOTAL LOAD =			21,790			VA	CURRENT PER PHASE			= TOTAL LOAD (VA) / (208*1.732)							= 60			AMPS
TOTAL RECEPT. LOAD	30,220	VA																																																																																										
RECEP. 1st 10,000 VA @ 100%	10,000	@100%	10,000	VA																																																																																								
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OTHER MOTORS @ 100%	0	@100%	0	VA																																																																																								
AIR CONDITIONERS @ 100%	1,500	@100%	1,500	VA																																																																																								
REST OF ALL OTHER LOADS @ 100%	180	@100%	180	VA																																																																																								
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