

PANEL 'P2A'																								
MAIN SIZE & TYPE: 225A M.L.O.		VOLTS /PHASE / WIRE: 208Y/120V, 3Ø, 4W				FED FROM: DIST. PANEL 'P1'				MANUFACTURER: SQUARE D				LOCATION: UTILITY AREA				MOUNTING: SURFACE				MIN. A.I.C. 65K/10K SERIES RATED		
CKT. NO.	AREA SERVED	COND	PH.	NEUT	GND	BKR	PHASE LOAD (KVA) A B C			BKR	GND	NEUT	PH.	COND	AREA SERVED	CKT. NO.								
C 1	LIGHTS - SALES AREA, HALLWAY ***	1/2"	#12	#12	#12	20/1	0.88 0.36			20/1	#8	#8	#8	1"	LIGHTS - SITE (L1)	2								
C 3	LIGHTS - SALES AREA ***	1/2"	#12	#12	#12	20/1	0.67 0.36			20/1	#8	#8	#8	1"	LIGHTS - SITE (L1)	4								
C 5	LIGHTS - SALES & CASHIER AREA ***	1/2"	#12	#12	#12	20/1	0.53 0.00			20/1	#8	#8	#8	1"	SPARE (L1)	6								
C 7	LIGHTS - TRACK	1/2"	#12	#12	#12	20/1	0.94 1.30			20/1	#8	#8	#8	1"	LIGHTS - CANOPY (L2)	8								
C 9	LIGHTS - TRACK	1/2"	#12	#12	#12	20/1	0.84 1.30			20/1	#8	#8	#8	1"	LIGHTS - CANOPY (L2)	10								
C 11	LIGHTS - RESTROOM, EF-1, EF-2	1/2"	#12	#12	#12	20/1	0.08 1.30			20/1	#8	#8	#8	1"	LIGHTS - CANOPY (L2)	12								
C 13	LIGHTS - WALK-IN COOLER	1/2"	#12	#12	#12	20/1	0.69 0.50			20/1	#8	#8	#8	1"	WATER/AIR FILL STATION	14								
C 15	LIGHTS - EXTERIOR *** (L4)	1/2"	#12	#12	#12	20/1	1.22 1.20			20/1	#8	#8	#8	1"	CANOPY SIGNAGE (L3)	16								
C 17	BUILDING SIGNAGE (L4)	1/2"	#12	#12	#12	20/1	1.20 1.20			20/1	#8	#8	#8	1"	CANOPY SIGNAGE (L3)	18								
C 19	BUILDING SIGNAGE (L4)	1/2"	#12	#12	#12	20/1	1.20 1.20			20/1	#8	#8	#8	1"	CANOPY SIGNAGE (L3)	20								
C 21	SPARE					20/1	0.00 1.20			20/1	#8	#8	#8	1"	MONUMENT SIGN (L6)	22								
C 23	ADDRESS SIGNAGE (L5)	1/2"	#12	#12	#12	20/1	1.20 1.20			20/1	#8	#8	#8	1"	MONUMENT SIGN (L6)	24								
C 25	FUTURE LOAD (L5)	1/2"	#12	#12	#12	20/1	0.00 1.20			20/1	#8	#8	#8	1"	MONUMENT SIGN (L6)	26								
C 27	EF-3	1/2"	#12	#12	#12	20/1	0.35 1.20			20/1	#8	#8	#8	1"	MONUMENT SIGN (L6)	28								
C 29	FUTURE LOAD					20/1	0.00 0.24			20/1	#8	#8	#8	1"	EMERGENCY CUT-OFF SWITCH (EPO)	30								
C 31	LIGHTS - STORAGE, OFFICE ***	1/2"	#12	#12	#12	20/1	0.48 1.80						#12			32								
C 33	FUTURE LOAD					20/1	0.00 1.80			20/3	#12		#12	3/4"	OPEN AIR CASE CONDENSING UNIT *	34								
C 35	FUTURE LOAD					20/1	0.00 1.80						#12			36								
C 37	FUTURE LOAD					20/1	0.00 3.33						#8			38								
C 39	FUTURE LOAD					20/1	0.00 3.33			40/3	#10		#8	3/4"	WATER HEATER **	40								
C 41	LIGHTING CONTACTOR (1L)	1/2"	#12	#12	#12	20/1	0.30 3.33						#8			42								
NON-CONTINUOUS LOAD							5.61	5.48	5.67															
CONTINUOUS LOAD (INDICATED BY 'C')							8.27	7.99	6.71															
25% CONTINUOUS LOAD							2.07	2.00	1.68															
TOTAL LOAD (KVA)							15.96	15.47	14.05	45.47 KVA				126.2 AMPS										

*** LARGEST MOTOR
** PROVIDE AND INSTALL A LOCK-OFF KIT ON THE CIRCUIT BREAKER
*** PROVIDE AND INSTALL A LOCK-OFF KIT ON THE CIRCUIT BREAKER AND MARK AS "EMERGENCY LIGHTING"

PANELBOARD										LOCATION: - DIST. DP											
P2C		BUS RATING = 225A					MAIN RATING UPSTREAM =					225A					BUS MATERIAL = COPPER				
		VOLTAGE = 208/120V					MAIN TYPE =					M.L.O.					YES				
		SYSTEM = 1F, 3W					AIC RATING=					10 K					NEUTRAL BUS (COPPER) = 100%				
		MOUNTING = RECESSED					FULLY VISIBLE =					SERIES					IF GROUND BUS (COPPER) = NO				
STATUS = NEW		TRIM = DOOR-IN-DOOR					BRANCH BREAKER TYPE =					BOLT-ON					SKIRT TYPE = NONE				
MANUFACTURER = POWER INTEGRITY		FEED THRU LUGS = NO					FEED TYPE =					75°C CU					SECTION # = 1				
PHASE SERIES =							TERMINATIONS =														
CT	LOAD	LOAD	BRK	LOAD		BRK	LOAD	PHASE	PHASE	PHASE	LOAD	BRK	LOAD	LOAD	LOAD	CT					
NO.	CODE	DESCRIPTION	SIZE	(KVA)		SIZE	(KVA)	A	B	C	(KVA)	SIZE	DESCRIPTION	CODE	NO.						
1	4			0.05	0.10		0.05				0.05	20/3	SUMERSIBLE PUMP #3	4	2						
3	4	SUMERSIBLE PUMP #1	20/3	1.08			1.08		2.16		1.08	20/3		4	4						
5	4			1.08						2.16	1.08			4	6						
7	4			0.05	0.05		0.05				0.00	R	SPACE		8						
9	4	SUMERSIBLE PUMP #2	20/3	1.08			1.08		1.08		0.00	R	SPACE		10						
11	4			1.08						1.08	0.00	FILL	SPACE		12						
3 PHASE TO 1 PHASE MIXED BUSS																					
13	2	PICO E-STOP CONTROL POWER	15/1	0.18	0.90						0.72	20/1 SN	DISPENSER #1 (D1)	2	14						
15	0	SWITCHED NEUTRAL DISPENSER #8 (D8)	SWN						0.00	0.00	0.00	20/1 SN	SWITCHED NEUTRAL		0	16					
17	2	DISPENSER #8 (D8)	20/1 SN	0.00	1.44						0.72	20/1 SN	DISPENSER #2 (D2)	2	18						
19	0	SWITCHED NEUTRAL DISPENSER #10 (D8)	SWN	0.00	0.00				0.00	0.00	0.00	20/1 SN	SWITCHED NEUTRAL		0	20					
21	2	FUTURE DISPENSER #9 (D9)	20/1 SN	0.72	1.44						0.72	20/1 SN	DISPENSER #3 (D3)	2	22						
23	0	SWITCHED NEUTRAL DISPENSER #8 (D8)	SWN	0.00	0.00				0.00	0.00	0.00	20/1 SN	SWITCHED NEUTRAL		0	24					
25	2	FUTURE DISPENSER #10 (D10)	20/1 SN	0.72	1.44						0.72	20/1 SN	DISPENSER #4 (D4)	2	26						
27	0	SWITCHED NEUTRAL DISPENSER #8 (D8)	SWN	0.00	0.00				0.00	0.00	0.00	20/1 SN	SWITCHED NEUTRAL		0	28					
29	2	FUTURE DISPENSER #11 (D11)	20/1 SN	0.00	0.72						0.72	20/1 SN	DISPENSER #5 (D5)	2	30						
31	0	SWITCHED NEUTRAL DISPENSER #8 (D8)	SWN	0.00	0.00				0.00	0.00	0.00	20/1 SN	SWITCHED NEUTRAL		0	32					
33	2	FUTURE DISPENSER #12 (D12)	20/1 SN	0.00	0.00				0.72	0.72	0.72	20/1 SN	DISPENSER #6 (D6)	2	34						
35	0	SPACE	FILLER	0.00	0.00				0.00	0.00	0.00	20/1 SN	SWITCHED NEUTRAL		0	36					
37	2	VEEDER ROOT #11	20/1	0.36	1.08					0.72	0.72	20/1 SN	DISPENSER #7 (D7)		0	38					
39	2	INTERCOM CONTROLLER (E2)	20/1	0.18	0.18					0.18	0.00	20/1 SN	SWITCHED NEUTRAL		0	40					
41	2	DISTRIBUTION BOX (E3)	20/1	0.36	0.72					0.36	0.00	20/1	SPACE ELECTRONIC (E40)	2	42						
DEMAND LOADS MAY VARY FROM CONNECTED LOADS BECAUSE OF DEMAND FACTORS				Connected KVA Demand KVA		8.61		3.24	3.42	Phase Total Connected Amps		CIRCUIT NUMBERING BY ROLE POSITION									
						15.27			42	CIRCUIT BREAKERS FEEDING A/E EQUIPMENT											
						15.27		42	SHALL BE "HACK" RATED ALL BREAKERS BE FULLY RATED												
Load Codes		Load Summaries		Connected KVA		Factor		Demand KVA		Phase Amos											
0		Lighting - Non-Continuous	0.00	1.00	0.00					Phase (A)		71.75									
1		Lighting - Continuous	0.00	1.25	0.00					Phase (B)		27.00									
2		Receptacles	8.64	1.00	8.64					Phase (C)		28.50									
3		Special Loads	0.00	1.00	0.00																
4		Motors	6.63	1.00	6.63																
5		Kitchen (Commercial)	0.00	0.65	0.00																
6		Heating	0.00	1.00	0.00																
7		Cooling	0.00	1.00	0.00																
9		Computer Outlets	0.00	1.00	0.00																
10		Exterior Lighting	0.00	1.25	0.00																
11		Miscellaneous - Continuous	0.00	1.25	0																
12		Modular Furniture Outlets	0.00	1.00	0.00																
		Subtotals	15.27		15.27																
		Highest Motor		0	0.25																
			Total KVA	15.27		15.27															
										0		0.25		0.00		Space Capacity (Amps)		183			
																Space Capacity Load (%)		81 %			

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PANEL 'P2D'																								
MAIN SIZE & TYPE: 225A M.L.O.		VOLTS /PHASE / WIRE: 208Y/120V, 3Ø, 4W				FED FROM: DIST. PANEL 'P1'				MANUFACTURER: SQUARE D				LOCATION: UTILITY AREA				MOUNTING: SURFACE				MIN. A.I.C. 65K/10K SERIES RATED		
CKT. NO.	AREA SERVED	COND	PH.	NEUT	GND	BKR	PHASE LOAD (KVA) A B C			BKR	GND	NEUT	PH.	COND	AREA SERVED	CKT. NO.								
1	RECEPT - BACK ROOM	1/2"	#12	#12	#12	20/1	0.36 1.80			20/1	#12	#12	#12	1/2"	HAND DRYER **	2								
3	WIREMOLD	1/2"	#12	#12	#12	20/1	0.72 1.80			20/1	#12	#12	#12	1/2"	HAND DRYER **	4								
5	RECEPT - T.M.B.	1/2"	#12	#12	#12	20/1	0.36 1.44			20/1	#12	#12	#12	1/2"	REACH-IN COOLER	6								
7	AUT. DOOR	1/2"	#12	#12	#12	20/1	0.70 1.44			20/1	#12	#12	#12	1/2"	REACH-IN COOLER	8								
9	RECEPT - IRRIGATION	1/2"	#12	#12	#12	20/1	0.18 1.44			20/1	#12	#12	#12	1/2"	REACH-IN COOLER	10								
11	(2) 3 DOOR WALK-IN EVAP FAN COIL	1/2"	#12	#12	#12	15/1	0.91 1.60			15/1	#12	#12	#12	1/2"	(2) 5 DOOR WALK-IN EVAP FAN COIL	12								
13	RECEPT - STORAGE, EXTERIOR	1/2"	#12	#12	#12	20/1	0.54 1.60						#8			14								
15	RECEPT - HALLWAY, RR, EXTERIOR	1/2"	#12	#12	#12	20/1	0.90 1.60			35/3	#10		#8	3/4"	ICE MACHINE REMOTE CONDENSER	16								
17	RECEPT - FREEZER	1/2"	#12	#12	#12	20/1	0.90 1.60						#8			18								
19	(2) 10 DOOR WALK-IN EVAP FAN COIL	1/2"	#12	#12	#12	15/1	0.91 1.60						#8			20								
21	LED SIGN	1/2"	#12	#12	#12	20/1	0.48 1.60			35/3	#10		#8	3/4"	ICE MACHINE REMOTE CONDENSER	22								
23	RECEPT - OPEN AIR CASE	1/2"	#12	#12	#12	20/1	0.26 1.60						#8			24								
25	RECEPT - FREEZER	1/2"	#12	#12	#12	20/1	0.90 1.44						#12			26								
27	RECEPT - FROZEN BEVERAGE	3/4"	#10		#10	30/2	2.18 1.44			15/3	#12		#12	3/4"	3 DOOR WALK-IN CONDENSING UNIT (BEER CAVE CONDENSING UNIT)	28								
29	RECEPT - FROZEN BEVERAGE	3/4"	#10		#10	30/2	2.18 1.44						#12			30								
31	RECEPT - FROZEN BEVERAGE	3/4"	#10		#10	30/2	2.18 1.44			15/3	#12		#12	3/4"	5 DOOR WALK-IN CONDENSING UNIT	32								
33	ICE MAKER **	1/2"	#12	#12	#12	15/1	0.72 1.44						#12			34								
35	RECEPT - OPEN AIR CASE	1/2"	#12	#12	#12	20/1	0.26 2.77						#8			36								
37	RECEPT - OPEN AIR CASE	1/2"	#12	#12	#12	20/1	0.72 2.77			35/3	#10		#8	3/4"	10 DOOR WALK-IN CONDENSING UNIT *	38								
39	ICE MAKER **	1/2"	#12	#12	#12	15/1	0.72 2.77						#8			40								
41	RECEPT - OPEN AIR CASE	1/2"	#12	#12	#12	20/1	0.26 2.77						#8			42								
NON-CONTINUOUS LOAD							17.90	19.45	16.75															
LARGEST MOTOR LOAD							2.77	2.77	2.77															
25% LARGEST MOTOR LOAD							0.69	0.69	0.69															
TOTAL LOAD (KVA)							18.59	20.14	17.44	56.18 KVA				155.9 AMPS										

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