EXISTING PANELBOARD MDP

SERVICE: 480/277V, 3–PH, 4W
BUSES: 1200A COPPER

TYPE: CIRCUIT BREAKER
S.C. RATING: .
MANUFACTURER: .

NOTES:
1. PROVIDE WITH EQUIPMENT GROUND BUS AND TYPE WRITTEN DIRECTORY.
2. PANELBOARD SHALL BE UL SERVICE ENTRANCE RATED.
3. PROVIDE A 100% RATED MAIN BREAKER.
4. EXIISTING CIRCUIT BREAKER WITH EXISTING LOAD.
5. EXISTING CIIRCUIT BREAKER WITH NEW LOAD.
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CONNECTED LOAD (KVA)	
LIGHTING	119.8
HEATING	0.0
A/C & HEAT PUMPS	134.9
AIR HANDLING	0.0
RECEPTACLES	80.1
WATER HEATING	0.0
ELEVATORS	0.0
FOOD PROCESSING	45.8
PROCESS	381.9
MISCELLANEOUS	0.0
TOTAL (KVA)	762.5
CONNECTED LOAD: 917 AMPERES	

UNIT	LOAD SERVED	PROTECTION POLE	PROTECTION FRAME	PROTECTION TRIP	WIRE & CONDUIT	REMARKS	LOAD (KVA) PER PHASE A	B	C
	MAIN BREAKER	3	1200	1200	(4 SETS) 4–350 KCMIL., IN 3"C.	(4)	254.2	254.2	254.2
1	HVAC–3 (Backroom)	3	100	25	3#10, 1#10G., IN 3/4"C.	(4)	4.7	4.7	4.7
2	HVAC–5 (Vestibule)	3	100	25	3#10, 1#10G., IN 3/4"C.	(4)	4.7	4.7	4.7
3	HVAC–4 (Produce Area)	3	100	40	3#8, 1#10G., IN 3/4"C.	(4)	7.7	7.7	7.7
4	HVAC–1 (Checkout)	3	100	70	3#4, 1#8G., IN 1"C.	(4)	13.0	13.0	13.0
5	HVAC–2 (Frozen Food)	3	100	70	3#4, 1#8G., IN 1"C.	(4)	13.0	13.0	13.0
6	PANEL "B" via TRANSFORMER	3	100	70	3#4, 1#8G., IN 1"C.	(5)	0.0	0.0	0.0
7	PANEL "EM" via TRANS. SWITCH	3	100	90	4#8, 1#10G., IN 3/4"C.	(4)	15.3	15.3	15.3
8	SPARE	3	100	100	.		0.0	0.0	0.0
9	SPACE ONLY	3	100	.	100A PROVISIONS		0.0	0.0	0.0
10	PANEL "DB" via TRANSFORMER	3	225	125	3#1, 1#6G., IN 1 1/2"C.	(4)	25.7	25.7	25.7
11	SPARE	3	225	225	.		0.0	0.0	0.0
12	PANEL "LPA"	3	225	225	4#4/0, 1#1G., IN 2 1/2"C.	(5)	0.0	0.0	0.0
13	SPARE	3	225	225	.	.	0.0	0.0	0.0
14	SPACE ONLY	3	225	.	225A PROVISIONS	.	0.0	0.0	0.0
15	PANEL "SDP" via TRANSFORMER	3	600	500	3–250 KCMIL, 1#2G., IN 2 1/2"C.	(4)	83.9	83.9	83.9
16	REFRIGERATION PENTHOUSE	3	600	600	3–350 KCMIL, 1#1G., IN 3"C.	(4)	86.3	86.3	86.3

EXISTING PANEL LPA

SUPPLY: 480/277V, 3–PH, 4W
MAINS: 225A MLO
INTERRUPT RATING: 22K AIC
MOUNTING: RECESSED

TYPE: BRANCH CIRCUIT
BUS MATERIAL: .
MANUFACTURER: .

	DESCRIPTION	TRIP	POLE	WIRE	CCT	PHASE A		PHASE B		PHASE C		CCT	WIRE	POLE	TRIP	DESCRIPTION	
(1)	LTG: GONDOLAS	20	1	10	1	3.4	1.8					2	12	1	20	LTG: EXT. WALLPACKS	(1)
(1)	LTG: GONDOLAS	20	1	10	3			3.0	3.1			4	10	1	20	LTG: ENTRY/EXIT	(1)
(1)	LTG: GONDOLAS	20	1	10	5					3.0	1.3	6	12	1	20	LTG: WALLWASH	(1)
(1)	LTG: GONDOLAS	20	1	10	7	3.0	1.1					8	12	1	20	LTG: WALLWASH	(1)
(1)	LTG: PREP AREAS	20	1	10	9			1.4	2.3			10	12	1	20	LTG: STOCK RECEIVING	(1)
(1)	LTG: PREP AREAS	20	1	12	11					2.1	0.2	12	12	1	20	LTG: STOCK RECEIVING	(1)
(1)	EM BATTERY PACKS	20	1	12	13	0.5	2.9					14	10	1	20	LTG: FRONT OF STORE	(2)
(1)	LTG: SALES AREA	20	1	12	15			3.4	3.8			16	12	1	20	LTG: SALES AREA	(1)
(1)	LTG: SALES AREA	20	1	12	17					3.4	3.8	18	12	1	20	LTG: SALES AREA	(1)
(1)	LTG: SALES AREA	20	1	12	19	3.4	3.0					20	12	1	20	LTG: SALES AREA	(1)
(1)	LTG: SALES AREA	30	1	12	21			3.4	3.4			22	12	1	20	LTG: SALES AREA	(1)
(1)	LTG: SALES AREA	30	1	12	23					3.4	3.4	24	12	1	20	LTG: SALES AREA	(1)
(1)	LTG: SALES AREA	20	1	12	25	3.4	3.4					26	12	1	20	LTG: SALES AREA	(1)
(1)	LTG: CHECKOUT	20	1	12	27			2.5	3.8			28	12	1	20	LTG: SALES AREA	(1)
(1)	SPARE	20	1	.	29					0.0	3.8	30	12	1	20	LTG: SALES AREA	(1)
(1)	SPARE	20	1	.	31	0.0	2.5					32	12	1	30	LTG: CHECKOUTS	(1)
(1)	SPARE	20	1	.	33			0.0	0.0			34	0	1	20	0	(1)
(1)	SPARE	20	1	.	35					0.0	0.0	36	0	1	20	0	(1)
(1)	SPARE	20	1	.	37	0.0	0.0					38	0	1	20	0	(1)
(1)	SPARE	20	1	.	39			0.0	0.0			40	0	1	20	0	(1)
(1)	SPARE	20	1	.	41					0.0	0.0	42	0	1	20	0	(1)

	PHASE A	PHASE B	PHASE C
TOTAL KVA PER PHASE	28.3	29.9	24.2
DIVERSIFIED KVA PER PHASE	35.3	37.4	30.3
DIVERSIFIED TOTAL KVA	103.0 KVA		
MAXIMUM AMPS HEAVIEST PHASE	134.9 AMPS		

REQUIREMENTS:
1. EXIISTING CIRCUIT BREAKER WITH EXISTING LOAD.
2. EXISTING CIIRCUIT BREAKER WITH NEW LOAD.
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EXISTING PANEL "B" (LEFT SECTION)

SUPPLY: 208/120V, 3–PH, 4W
MAINS: 200A MLO
INTERRUPT RATING: 22K AIC
MOUNTING: RECESSED

TYPE: BRANCH CIRCUIT
BUS MATERIAL: .
MANUFACTURER: .

	DESCRIPTION	TRIP	POLE	WIRE	CCT	PHASE A		PHASE B		PHASE C		CCT	WIRE	POLE	TRIP	DESCRIPTION	
(1)	CHECKOUT 1,2	20	1	10	1	0.6	0.7					2	12	1	20	REC: STORE MGR	(1)
(1)	CHECKOUT 3,4	20	1	10	3			0.6	1.0			4	12	1	20	BAG ICE MACH	(1)
(1)	CHECKOUT 5,6	20	1	10	5					0.6	0.5	6	12	1	20	REC: RESTROOMS	(1)
(1)	CHECKOUT 7,8	20	1	10	7	0.6	1.0					8	12	1	20	EWC	(1)
(1)	CHECKOUT 9,10	20	1	10	9			0.6	0.5			10	12	1	20	REC: EXTERIOR	(1)
(1)	U–SCAN STATION	20	1	12	11					0.3	0.5	12	12	1	20	REC: EXTERIOR	(1)
(1)	PLUGSTRIP ACCOUNT	20	1	12	13	0.5	0.7					14	12	1	20	REC: CUST SERV	(1)
(1)	PLUGSTRIP ACCOUNT	20	1	12	15			0.5	0.4			16	12	1	20	REC: DEPT. MGR	(1)
(1)	AUTO DOOR CONT	20	1	10	17					1.0	0.4	18	12	1	20	REC: DEPT. MGR	(1)
(1)	AUTO DOOR CONT	20	1	10	19	1.0	0.4					20	12	1	20	REC: DEPT. MGR	(1)
(1)	HANDI CART CHAGER	30	1	10	21			1.0	0.4			22	12	1	20	REC: DEPT. MGR	(1)
(1)	HANDI CART CHAGER	30	1	10	23					1.0	0.1	24	12	1	20	LTG: CUST SERV	(1)
(1)	SPARE	20	1	0	25	0.0	0.0					26	0	1	20	SPARE	(1)
(1)	SPARE	20	1	0	27			0.0	0.0			28	0	1	20	SPARE	(1)
(1)	SPARE	20	1	0	29					0.0	0.0	30	0	1	20	SPARE	(1)
(1)	EF–1 (RESTROOMS)	20	1	12	31	0.5	1.0					32	10	1	30	BEVERAGE CASE	(1)
(1)	REC: ROOFTOP	20	1	12	33			0.4	1.0			34	10	1	20	BEVERAGE CASE	(1)
(1)	REC: CHECKOUT DISP	20	1	12	35					0.4	0.4	36	12	1	20	REC: FRONT END	(1)
(1)	REC: CUST. SERVICE	20	1	12	37	0.4	0.4					38	12	1	20	REC: PHARMACY	(1)
(1)	REC: ACC OFFICE	20	1	12	39			0.7	0.4			40	12	1	20	REC: PHARMACY	(1)
(1)	RUG DOCTOR	20	1	12	41					0.6	0.4	42	12	1	20	REC: PHARMACY	(1)

EXISTING PANEL "B" (RIGHT SECTION)

	DESCRIPTION	TRIP	POLE	WIRE	CCT	PHASE A		PHASE B		PHASE C		CCT	WIRE	POLE	TRIP	DESCRIPTION	
(1)	DRINK MACHINE	20	1	12	43	1.0	0.7					44	12	1	20	BLOOD PRESSURE	(1)
(1)	COIN STAR MACH	20	1	12	45			1.0	0.9			46	12	1	20	COILING DOOR	(2)
(1)	HVAC CONTACTOR	20	1	12	47					0.2	0.0	48	.	1	20	SPARE	(1)
(1)	AIR COMPRESSOR	20	1	12	49	0.9	0.0					50	.	1	20	SPARE	(1)
(1)	SPARE	20	1	.	51			0.0	0.0			52	.	1	20	SPARE	(1)
(1)	SPARE	20	1	.	53					0.0	0.0	54	.	1	20	SPARE	(1)
(1)	SPARE	20	1	.	55	0.0	2.1					56	8	.	.	.	(1)
(1)	SPARE	20	1	.	57			0.0	2.1			58	8	3	35	ACCU–1 (MGR'S OFF)	(1)
(1)	SPARE	20	1	.	59					0.0	2.1	60	8	.	.	.	(1)
(1)	SPARE	20	1	.	61	0.0	0.0					62	.	1	.	SPACE ONLY	.
(1)	SPARE	20	1	.	63			0.0	0.0			64	.	1	.	SPACE ONLY	.
(1)	SPARE	20	1	.	65					0.0	0.0	66	.	1	.	SPACE ONLY	.
(1)	SPARE	20	1	.	67	0.0	0.0					68	.	1	.	SPACE ONLY	.
(1)	SPARE	20	1	.	69			0.0	0.0			70	.	1	.	SPACE ONLY	.
(1)	SPARE	20	1	.	71					0.0	0.0	72	.	1	.	SPACE ONLY	.
(1)	SPARE	20	1	.	73	0.0	0.0					74	.	1	.	SPACE ONLY	.
(1)	SPARE	20	1	.	75			0.0	0.0			76	.	1	.	SPACE ONLY	.
(1)	AH–1/CU–1 (PHARM)	30	2	10	77					1.2	0.0	78	.	1	.	SPACE ONLY	.
(1)	.	.	.	10	79	1.2	0.0					80	.	1	.	SPACE ONLY	.
(1)	AHU–1(MGRS OFFICE)	50	2	6	81			6.9	0.0			82	.	1	.	SPACE ONLY	.
(1)	.	.	.	6	83					3.8	0.0	84	.	1	.	SPACE ONLY	.

	PHASE A	PHASE B	PHASE C
TOTAL KVA PER PHASE	13.6	18.2	13.5
DIVERSIFIED KVA PER PHASE	12.2	18.2	13.5
DIVERSIFIED TOTAL KVA	43.9 KVA		
MAXIMUM AMPS HEAVIEST PHASE	151.1 AMPS		

REQUIREMENTS:
1. EXIISTING CIRCUIT BREAKER WITH EXISTING LOAD.
2. EXISTING CIIRCUIT BREAKER WITH NEW LOAD.
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No. _____ Date ___________
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DRAWING NAME
PANELBOARD SCHEDULES

ISSUE DATE: 11.19.14
SHEET NO.
E2.2