

MDP EXISTING TO REMAIN 480Y/277V, 3PH, 4W, 600A MLO, 65 KAIC, SURFACE MTD.

KN	C#	DESCRIPTION	B/P	A	B	C	B/P	DESCRIPTION	C#	KN	
E	1	SPACE ONLY	--	0	23,100	0	150/3	PANEL 'A'	2	E	
E	3	PANEL 'C'	300/3	63,720	0	59,824	0	DEDICATED SPACE	4	E	
E	5	XFMR (PANEL 'B1')	100/3	36,386	200	36,696	200	SURGE PROTECTOR	6	E	
E	7	SPACE ONLY	--	0	0	0	0	SPACE ONLY	8	E	
E	11	SPACE ONLY	--	0	0	0	0	SPACE ONLY	10	E	
CONNECTED LOAD				123,406	120,471	123,532	DEMAND LOAD				
				367.4 kVA, 442.1 A					354.5 kVA, 426.5 A		

A EXISTING TO REMAIN 480Y/277V, 3PH, 4W, 250A 225A MLO, 65 KAIC, SURFACE MTD.

KN	C#	DESCRIPTION	B/P	A	B	C	B/P	DESCRIPTION	C#	KN	
EC	1	LTG: EMPLOYEE	20	2,700	2,700		20	LTG: EMPLOYEE	2	EC	
EC	3	LTG: CUSTOMER	20		2,700	2,700	20	LTG: CUSTOMER	4	EC	
EC	5	LTG: EMPLOYEE	20			2,700	2,700	LTG: EMPLOYEE	6	EC	
EC	9	LTG: CUSTOMER	20	2,700	2,700		20	LTG: CUSTOMER	8	EC	
EC	9	LTG: EMPLOYEE	20		2,700	2,700	20	LTG: EMPLOYEE	10	EC	
EC	11	LTG: CUSTOMER	20			2,700	2,700	LTG: CUSTOMER	12	EC	
EC	13	LTG: EMPLOYEE	20	2,700	2,700		20	LTG: EMPLOYEE	14	EC	
EC	15	LTG: CUSTOMER	20		2,700	2,700	20	LTG: CUSTOMER	16	EC	
EC	17	LTG: CANOPY	20			1,000	0	SPARE	18	E	
EC	19	LTG: SECURITY WALL PAK	20	1,200	0			SPARE	20	E	
EC	21	LTG: SECURITY WALL PAK	20		1,200	2,700		LTG: EMPLOYEE	22	E	
E	23	LTG: NIGHT / EMERGENCY	20			600	2,400	LTG: CUSTOMER	24	E	
E	25	LTG: NIGHT / EMERGENCY	20	600	0			SPARE	26	E	
E	27	LTG: NIGHT / EMERGENCY	20		600	0		SPARE	28	E	
E	29	LTG: EMPLOYEE	20			2,700	0	SPARE	30	E	
EC	31	LTG: CUSTOMER	20	2,700	0			SPARE	32	E	
E	33	LTG: COWORK OFFICE	20		651	0		SPARE	34	E	
E	35	LTG: COWORK OFFICE	20			496	2,400	LTG: PARKING LOT	36	E	
E	37	SPARE	20	0	2,400			LTG: PARKING LOT	38	E	
E	39	SPARE	20		0	2,400		LTG: PARKING LOT	40	E	
E	41	SPARE	20			0	2,400	LTG: PARKING LOT	42	E	
CONNECTED LOAD				23,100	23,751	22,776	DEMAND LOAD				
				67.6 kVA, 83.8 A					93.7 kVA, 112.8 A		

C EXISTING TO REMAIN 480Y/277V, 3PH, 4W, 400A 400A MLO, 65 KAIC, SURFACE MTD.

KN	C#	DESCRIPTION	B/P	A	B	C	B/P	DESCRIPTION	C#	KN	
EH	1	RTU - 1	60/3	8,000	0		20/3	SPARE	2	E	
EH	5	RTU - 2	60/3	8,000	0		15/3	SPARE	10	E	
EH	15	RTU - 3	60/3	8,000	4,000		60/3	RTU - 5	16	EH	
EH	21	RTU - 4	60/3	8,000	0		20	SPARE	20	E	
E	27	SPARE	20/3	0	0		20/3	PHASE LOSS MONITOR	28	E	
E	31	T-2 XFMR 45 KVA (PANEL 'D1')	80/3	10,220	3,880		25/3	BALER	32	E	
E	33	T-3 XFMR 45 KVA (PANEL 'D2')	80/3	13,620	0		--	SPACE ONLY	38	E	
DN	39	SPARE	70/3	9,816	0		--	SPACE ONLY	40	E	
DN	41	SPARE	70/3			12,860	0	SPACE ONLY	42	E	
CONNECTED LOAD				63,720	59,824	63,600	DEMAND LOAD				
				187.1 kVA, 225.2 A					179.7 kVA, 216.2 A		

B EXISTING TO REMAIN 208Y/120V, 3PH, 4W, 225A 225A MCB, 65 KAIC, SURFACE MTD.

KN	C#	DESCRIPTION	B/P	A	B	C	B/P	DESCRIPTION	C#	KN
B1	1	RECPT: TELEPHONE	20	360	500		20	RECPT: APPLIANCE	2	E
E	3	RECPT: TELEPHONE	20		360	500	20	RECPT: APPLIANCE	4	E
EL	5	U.P.S.	20			360	1,000	REFRIGERATOR	6	E
EC	7	LTG: IN-RACK	20	900	900		20	VENDING MACHINES	8	E
E	9	BATTERY CHARGER	50/2		3,890	2,906	60/3	COMPACTOR	10	E
EC	13	TV'S	20	720	2,906		20	RECPT: OFFICE	14	E
E	15	PLUGMOLD	20		1,000	720	20	RECPT: COMPUTER	16	E
E	17	PLUGMOLD	20	1,000	720		20	RECPT: RTU CONVENIENCE	20	E
EL	21	FACP	20		300	900	20	ELECTRIC WATER COOLER	22	E
EL	23	SPRINKLER POWER	20			300	820	RECPT / LTG: DOCK	24	E
E	25	PLUGMOLD	20	1,000	100		20	SHUNT TRIP	26	EL
E	27	PLUGMOLD	20		1,000	100	20	SHUNT TRIP	28	EL
E	29	PLUGMOLD	20			1,000	0	SPARE	30	E
E	31	PLUGMOLD	20	1,000	8,000		60/3	RTU - 7	32	EH
E	33	PLUGMOLD	20		1,000	8,000	60/3	RTU - 7	34	EH
E	35	PLUGMOLD	20			1,000	8,000	RTU - 7	36	EH
E	37	PLUGMOLD	20	1,000	2,000		30/3	RTU - 8	38	EH
E	39	PLUGMOLD	20		1,000	2,000	30/3	RTU - 8	40	EH
E	41	PLUGMOLD	20			1,000	2,000	RTU - 8	42	EH

B2

KN	C#	DESCRIPTION	B/P	A	B	C	B/P	DESCRIPTION	C#	KN
E	43	RECPT:	20	900	300		20	EMS	44	E
E	45	PLUGMOLD	20		1,000	800	20	EXHAUST FANS	46	E
E	47	WATER HEATER	20			1,500	360	RECPT: RECEIVING DESK	48	E
E	49	PLUGMOLD	20	1,000	400		20	LTG:	50	E
E	51	PLUGMOLD	20		1,000	300	20	EMS	52	E
E	53	PLUGMOLD	20			1,000	200	EXHAUST FAN - ELEC RM	54	E
E	55	PLUGMOLD	20	1,000	720		20	RECPT: GENERAL	56	E
E	57	PLUGMOLD	20		1,000	720	20	PLUGMOLD	58	E
E	59	PLUGMOLD	20			1,000	500	RECPT: COMPUTER	60	E
E	61	PLUGMOLD	20	1,000	360		20	RECPT:	62	E
E	63	PLUGMOLD	20		1,000	1,000	20	PLUGMOLD	64	E
E	65	PLUGMOLD	20			1,000	1,000	PLUGMOLD	66	E
E	67	LTG: IN-RACK	20	900	1,000		20	PLUGMOLD	68	E
E	69	LTG: IN-RACK	20		900	1,000	20	PLUGMOLD	70	E
E	71	LTG: IN-RACK	20			900	1,000	PLUGMOLD	72	E
E	73	LTG: IN-RACK	20	900	1,000		30	PLUGMOLD	74	E
E	75	LTG: IN-RACK	20		900	1,000	30	PLUGMOLD	76	E
E	77	LTG: IN-RACK	20			900	1,000	PLUGMOLD	78	E
E	79		20		0	1,000	30	PLUGMOLD	80	E
E	81	PANEL 'B3'	100/3		0	0	30	SPARE	82	E
E	83		100/3		0	0	30	SPARE	84	E

B3

KN	C#	DESCRIPTION	B/P	A	B	C	B/P	DESCRIPTION	C#	KN
1		SPACE ONLY	--	0	0		--	SPACE ONLY	2	
3		SPACE ONLY	--		0	0	--	SPACE ONLY	4	
5		SPACE ONLY	--			0	--	SPACE ONLY	6	
7		PLUGMOLD	20	0	0		20	PLUGMOLD	8	
9		PLUGMOLD	20		0	0	20	PLUGMOLD	10	
11		PLUGMOLD	20			0	0	PLUGMOLD	12	
13A		TEST STORE POWER	20	1,200	1,200		20	TEST STORE POWER	14A	
13B		TEST STORE POWER	20	1,200	1,200		20	TEST STORE POWER	14B	
15A		TEST STORE POWER	20		1,200	0	20	PLUGMOLD	16	
15B		TEST STORE POWER	20		1,200		20	PLUGMOLD	17	
17A		TEST STORE POWER	20			1,200	0	PLUGMOLD	18	
17B		TEST STORE POWER	20			1,200		PLUGMOLD	19	
19		SPACE ONLY	--	0	0		--	SPACE ONLY	20	
CONNECTED LOAD				110.0 kVA, 305.6 A	36.386	36.696	36.936	DEMAND LOAD		
				110.0 kVA, 305.6 A				94.1 kVA, 261.6 A		

LOAD SUMMARY

DESCRIPTION	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND LOAD
HVAC	160.7		
LARGEST MOTOR	6.6	x 0.25 =	8.3
REMAINING	154.0	x 1.00 =	154.0
LIGHTING	79.6	x 1.25 =	99.3
RECEPTACLES	20.0		
1st 10 kVA	20.0	00 =	10.0
REMAINING	66.4	50 =	33.3
MISCELLANEOUS	19.5	70 =	49.5
TRACK LIGHTING	0.0		0.0
LOAD (kVA)	360.0		354.5
AMP (A)	440.7		426.5

D EXISTING TO REMAIN 208Y/120V, 3PH, 4W, 150A 150A MCB, 10 KAIC, SURFACE MTD.

KN	C#	DESCRIPTION	B/P	A	B	C	B/P	DESCRIPTION	C#	KN
E	1	PnP BOX - CASHWRAPS/ SODA COOLER	20/3	360	720		20	RECPT: OFFICE	2	E
E	3	SPARE	20		360	0	20	SPARE	4	E
E	7	SPARE	20	0	720		20	PnP BOX - FRONT CNTR/ CPD REGISTERS	6	R
E	9	SPARE	20		0	720	20	PnP BOX - S.S. PRINTERS/ SELF SERVE DESK	10	R
E	11	AUTO DOOR OPENER	20			600	1,440	SPARE	12	E
EE	13	AUTO DOOR OPENER	20	600	1,440		20	SPARE	14	R
E	15	SPARE	30		0	360	20	SPARE	16	E
E	17	SPARE	30		0	0	20	LTG: FACADE SCUNCES	18	RC
E	19	SPARE	30	0	32		20	SPARE	20	RC
EC	23	LTG: EXTERIOR SIGNAGE	20			1,200	360	PnP BOX - PLOTTER/WORK COUNTERS	24	R
EC	25	LTG: EXTERIOR SIGNAGE	20	600	720		20	PnP BOX - PLOTTER/WORK COUNTERS	26	R
EC	27	LTG: EXTERIOR SIGNAGE	20		600	720	20	PnP BOX - PRINTER/WORK WORK TABLE	28	R
EC	29	LTG: EXTERIOR SIGNAGE	20			600	720	PnP BOX - PRINTER/WORK WORK TABLE	30	R
E	31	RECPT: RTU CONVENIENCE	20	900	1,440		20	SPARE	32	R
E	33	RTU - 6	60/2		4,680	1,440	60/2	PnP BOX - PLOTTER/CUTTER	34	R
R	37	PnP BOX - CPD LAMINATOR	20/2	1,248	1,440		20	SPARE	36	R
E	39									