

NEW PANEL "H"													
Location: Shipping Area		A.I.C. RATING: 65,000A										208/120 Volt, 3ø, 4w	
Mounting: Surface												Main: CB 400A	
Circuit Description	KVA	CB	NO	NOTE	A	B	C	NOTE	NO	CB	KVA	Circuit Description	KVA
RTU-1	2.5		1		X				2		2.5	RTU-3	2.5
	2.6	40/3	3			X			4	40/3	2.6		
	2.5		5				X		6		2.5		
	3.7		7		X				8		3.7		
RTU-2	3.7	45/3	9			X			10	45/3	3.7	RTU-4	3.7
	3.7		11				X		12		3.7		
(Z2)LIGHTING	0.8	20/1	13	L	X				14	30/2	2.2	RTU-5	2.2
(Z3)LIGHTING	0.7	20/1	15	L		X			16		0.0	SPARE	0.0
(Z4)LIGHTING	1.0	20/1	17	L			X		18	20/1	0.0	SPARE	0.0
(Z4)LIGHTING	0.8	20/1	19	L	X				20	20/1	0.0	SPARE	0.0
(Z5)RR/OFFICE/BREAK RM LIGHTING	0.4	20/1	21	L		X			22	20/1	0.0	SPARE	0.0
EXIT SIGNS	0.1	20/1	23	L			X	L	24	20/1	0.4	(Z1)DAYLIGHT ZONE LIGHTING	0.4
BAIT FREEZER	0.5	20/1	25		X				26	20/1	0.6	SALES WALL RECEPTACLE	0.6
SPARE	0.0	20/1	27			X			28	20/1	0.6	SALES WALL RECEPTACLE	0.6
ELECTRONICS RECEPTACLES	0.4	20/1	29				X		30	20/1	0.2	SALES WALL RECEPTACLE	0.2
SPARE	0.0	20/1	31		X				32	20/1	0.0	SPARE	0.0
SPARE	0.0	20/1	33			X			34	20/1	0.0	SPARE	0.0
SPARE	0.0	20/1	35				X		36	20/1	0.0	SPARE	0.0
TOILET RECEPTACLE	0.0	20/1	37		X				38	20/1	0.4	SALES AREA RECEPTACLES	0.4
SPARE	0.4	20/1	39			X			40	20/1	0.4	SALES AREA RECEPTACLES	0.4
SPARE	0.0	20/1	41				X		42	20/1	0.2	FITTING ROOM MILLWORK	0.2
ELEC. WATER HEATER EWH-1	2.5	30/1	43		X				44	20/1	0.2	FITTING ROOM RECEPTACLE	0.2
EXHAUST FANS EF-1 & EF-2	0.2	20/1	45			X			46	20/1	0.1	EXTERIOR LIGHTING	0.1
EWC-1	0.5	20/1	47				X		48	20/1	0.0	SPARE	0.0
	0.0		49		X				50		5.3		
SURGE SUPPRESSION	0.0	30/3	51			X			52	100/3	4.2	PANEL "L"	4.2
	0.0		53				X		54		3.4		
CONNECTED KVA:	66.1				A	B	C				DESIGN DEMAND KVA:	70.1	
CONNECTED HIGH PHASE AMPS:	95.2				25.7	21.8	18.6				DESIGN DEMAND AMPS:	194.7	

PANEL "H" LOAD SUMMARY			
	CONNECTED KVA	DESIGN FACTOR	DESIGN DEMAND KVA
LIGHTING	5.9	1.25	7.4
RECEPTACLES	13.1	1.0	13.1
SIGN	2.4	1.25	3
WATER HEATER	2.5	1.0	2.5
HVAC LARGEST	7.6	1.25	9.5
HVAC REMAINING	34.4	1.0	34.4
NON-COINCIDENTAL	0.0	0.0	0.0
MISCELLANEOUS	0.2	1.0	0.2
TOTAL KVA:	66.1		70.1
TOTAL AMPS:	183.6		194.7

NEW PANEL "L"													
Location: Shipping Area		A.I.C. RATING: 10,000A										208/120 Volt, 3ø, 4w	
Mounting: Surface												Main: MLO 100A	
Circuit Description	KVA	CB	NO	NOTE	A	B	C	NOTE	NO	CB	KVA	Circuit Description	KVA
FIRE ALARM PANEL	0.1	20/1	1	L	X				2	20/1	1.0	RTU RECEPTACLES	1.0
ELECTRONICS IG	0.2	20/1	3			X			4	20/1	0.4	(CUS)SALES TRACK LIGHTING	0.4
SPARE	0.0	20/1	5				X		6	20/1	0.6	(CUS)SALES TRACK LIGHTING	0.6
SHOPPER TRACKER IG	0.2	20/1	7		X				8	20/1	0.5	(CUS)WALL TRACK LIGHTING	0.5
RECEIVING IG	0.2	20/1	9			X			10	20/1	0.1	(CUS)FITTING/POS LIGHTING	0.1
RECEIVING RECEPTACLE	0.2	20/1	11				X		12	20/1	0.2	CASHWRAP RECEPTACLE	0.2
SPARE	0.0	20/1	13		X			L	14	20/1	0.2	CASHWRAP IG	0.2
PRINTER RECEPTACLE	0.2	20/1	15			X			16	20/1	0.2	CASHWRAP RECEPTACLE	0.2
FRONT SIGNAGE	1.2	20/1	17				X	L	18	20/1	0.2	CASHWRAP IG	0.2
FRONT SIGNAGE	1.2	20/1	19		X				20	20/1	0.2	CASHWRAP RECEPTACLE	0.2
NETWORK IG	0.2	20/1	21	L		X		L	22	20/1	0.2	CASHWRAP IG	0.2
NETWORK IG	0.2	20/1	23	L			X		24	20/1	0.0	SPARE	0.0
NETWORK UPS	1.5	30/2	25		X				26	20/1	0.0	SPARE	0.0
	1.5		27	L		X			28	20/1	0.2	OFFICE RECEPTACLE	0.2
EMS	0.1	20/1	29	L			X		30	20/1	0.2	OFFICE RECEPTACLE	0.2
TELEPHONE BOARD IG	0.4	20/1	31	L	X				32	20/1	0.0	SPARE	0.0
TELEPHONE BOARD IG	0.4	20/1	33	L		X			34	20/1	0.0	ELECTRONIC	0.0
LINE WINDER	0.5	20/1	35				X		36	20/1	0.0	SPARE	0.0
SPARE	0.0	20/1	37		X				38	20/1	0.0	SPARE	0.0
SPARE	0.0	20/1	39			X			40	20/1	0.0	SPARE	0.0
SPARE	0.0	20/1	41				X		42	20/1	0.0	SPARE	0.0
SPACE			43		X				44	20/1	0.0	SPACE	0.0
SPACE			45		X				46	20/1	0.0	SPACE	0.0
SPACE			47			X			48	20/1	0.0	SPACE	0.0
SPACE			49		X				50	20/1	0.0	SPACE	0.0
SURGE SUPPRESSION	0.0	30/3	51			X			52	100/3	4.2	SPACE	4.2
	0.0		53				X		54		3.4	SPACE	3.4
CONNECTED KVA:					A	B	C				DESIGN DEMAND KVA:	13.9	
CONNECTED HIGH PHASE AMPS:					5.3	2					DESIGN DEMAND AMPS:	38.6	

PANEL "L" LOAD SUMMARY			
	CONNECTED KVA	DESIGN FACTOR	DESIGN DEMAND KVA
LIGHTING	1.6	1.25	2.0
RECEPTACLES	8.7	1.0	8.7
SIGN	2.4	1.25	3
WATER HEATER	0.0	1.0	0.0
HVAC LARGEST	0.0	1.25	0.0
HVAC REMAINING	0.0	1.0	0.0
NON-COINCIDENTAL	0.0	0.0	0.0
MISCELLANEOUS	0.2	1.0	0.2
TOTAL KVA:	12.9		13.9
TOTAL AMPS:	35.8		38.6

PANEL SCHEDULE GENERAL NOTES

A. PROVIDE HACR RATED BREAKERS FOR ALL MOTOR LOADS.

B. PROVIDE LOCKING TYPE BREAKER (LOCK-ON) FOR ALL LIFE SAFETY AND NIGHT LIGHTING BRANCH CIRCUITS, EVEN IF NOT SPECIFICALLY CALLED OUT CASE-BY-CASE.

C. UNLESS INDICATED OTHERWISE ON PLANS OR SCHEDULES, PROVIDE NEW BRANCH OVERCURRENT PROTECTIVE DEVICE (OPD) TO MATCH EXISTING IN CASES WHERE NEW CIRCUITS OR FEEDERS ARE SHOWN CONNECTED TO EXISTING POWER DISTRIBUTION EQUIPMENT. PROVIDE OPD MANUFACTURED BY THE SAME MANUFACTURER AS THE EXISTING EQUIPMENT IN WHICH IT WILL BE INSTALLED. PROVIDE A.I.C. RATINGS THAT MEET OR EXCEED THE RATINGS OF THE EXISTING EQUIPMENT AND OPD's.

PANEL SCHEDULE LEGEND

(EX) = EXISTING CIRCUIT TO REMAIN.

(#) = NEW CIRCUIT TO EXISTING CIRCUIT BREAKER.

(G) = PROVIDE GROUND-FAULT CIRCUIT INTERRUPTER (GFCI) CIRCUIT BREAKER.

(GE) = PROVIDE GROUND-FAULT EQUIPMENT PROTECTION (GFEP) CIRCUIT BREAKER.

(ST) = PROVIDE SHUNT TRIP CIRCUIT BREAKER.

(A) = PROVIDE ARC-FAULT CIRCUIT INTERRUPTER (AFCI) CIRCUIT BREAKER.

(L) = PROVIDE LOCK-ON DEVICE.

(LT) = PROVIDE LOCK-OUT/TAG-OUT DEVICE.

(->) = CONNECT BRANCH CIRCUIT, WHICH WAS DISCONNECTED FROM ANOTHER SOURCE AS PART OF SELECTIVE DEMOLITION, TO POLE SPACE(S) AND BREAKER INDICATED. DETERMINE EXACT POLE ASSIGNMENT(S) BASED ON EXISTING COLOR-CODING OF THE BRANCH CIRCUIT CONDUCTOR INSULATION.

LIGHTING CONTROL LEGEND

(Z1) = CIRCUIT TO BE ROUTED THROUGH ZONE 1(DAYLIGHT)CONTACTOR OF SIEMENS EMS SYSTEM.

(Z2) = CIRCUIT TO BE ROUTED THROUGH ZONE 2(SOFTGOODS) CONTACTOR OF SIEMENS EMS SYSTEM.

(Z3) = CIRCUIT TO BE ROUTED THROUGH ZONE 3(FISHING) CONTACTOR OF SIEMENS EMS SYSTEM.

(Z4) = CIRCUIT TO BE ROUTED THROUGH ZONE 4(CORE) CONTACTOR OF SIEMENS EMS SYSTEM.

(Z5) = CIRCUIT TO BE ROUTED THROUGH ZONE 5(BOH) CONTACTOR OF SIEMENS EMS SYSTEM.

(EXT) = CIRCUIT TO BE ROUTED THROUGH EXTERIOR LTG. CONTACTOR OF SIEMENS EMS SYSTEM.

Order Plans @

ROBERT F. VANNEY ARCHITECT

300 WEST STREET, STE. 201
SANT PAUL, MINNESOTA 55101
TEL: 612.222.4242 FAX: 612.222.3838

HALLBERG ENGINEERING
Mechanical/Electrical Consulting Engineers
1750 Commerce Court
White Bear Lake, MN 55110
(651) 748-1100 • Fax (651) 748-9370

West Marine
500 Westridge Drive
Watsonville, California 95076
p: 831.728.2700 f: 831.761.4220

STORE #TBD
1389 S DIXIE HWY.
LANTANA, FL 33462

project number R17-2777.000

- WM 75% 05/01/2017
- LL Final
- Permit 05/17/2017
- Bidding

ELECTRICAL PANELBOARD SCHEDULES

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