

MTD. CIRCUIT BREAKER TYPE										PANEL M1										120/240 VOLTS 1 PHASE 3 WIRE 600 AMP MAIN BREAKER									
SQ. 'D'		DESIGNATION		CIRCUIT		CIRCUIT BREAKER		KVA		CIRCUIT BREAKER		CIRCUIT		DESIGNATION		CKT NO.													
CKT No.				WIRE	GND	COND	POLE	TRIP		TRIP	POLE	COND	GND	WIRE															
1	PROVISIONS								—	400	2	SEE RISER			PANEL A	2													
3	PROVISIONS															4													
5	PROVISIONS	12	12	1/2	1	20	1.6		16.3	200	2	SEE RISER			PANEL M2	6													
7						1	20									8													
TOTAL KVA									—									22,000 AMP-RMS, SYMMETRICAL SHORT CIRCUIT CURRENT RATING											

PANEL M2										120/240 VOLTS 1 PHASE 3 WIRE 200 AMP MAIN LUGS ONLY									
MTD. CIRCUIT BREAKER TYPE SQ. D' TYPE NOOD																			
CKT No.	DESIGNATION	CIRCUIT			CIRCUIT BREAKER	KVA	CIRCUIT BREAKER			CIRCUIT BREAKER	CIRCUIT			DESIGNATION	CKT No.				
		WIRE	QND	COND			POLE	TRIP	TRIP		POLE	COND	QND			WIRE			
1	RECP.T. CONF	12	12	3/4	1	20	0.8	0.8	20	1	3/4	12	12	RECP.T. OFFICE 103	2				
3	RECP.T. CONF	12			1	20	0.6	0.8	20	1	—	—	12	RECP.T. OFFICE 104	4				
5	COMM. CLOSET RECP.T	12	12	1/2	1	20	0.4	0.8	20	1	—	—	12	RECP.T. OFFICE 105	6				
7	RECP.T. BATH	12		3/4	1	20	0.6	0.8	20	1	3/4	12	12	RECP.T. OFFICE 106	8				
9	RECP.T. MULTI	12			1	20	0.6	0.8	20	1	—	—	12	RECP.T. OFFICE 107	10				
11	RECP.T. MULTI	12	12		1	20	0.8	0.6	20	1	—	—	12	RECP.T. OFFICE SUPPLY	12				
13	RECP.T. RECEPTION	12	12	1/2	1	20	0.6	0.6	20	1	1/2	12	12	RECP.T. OPEN OFFICE	14				
15	RECP.T. RECEPTION				1	20	0.4	0.6	20	1	—	—	12	RECP.T. OPEN OFFICE	16				
17	SPARE				1	20	—	0.4	20	1	3/4	12	12	RECP.T. OPEN OFFICE	18				
19	SPARE				1	20	—	0.6	20	1	—	—	12	RECP.T. OPEN OFFICE	20				
21	SPARE				1	20	—	0.6	20	1	—	—	12	RECP.T. OPEN OFFICE	22				
23	SPARE				1	20	—	2.2	20	2	3/4	12	12	CU—108	24				
25	LIGHTS. OPEN/HALL	12	12	1/2	1	20	1.4						12		26				
27	LIGHTS. OFFICE	12	12	1/2	1	20	1.0	1.2	20	1	1/2	12	12	AHU—108	28				
29	LIGHTS. MULTI/BATH	12	12	1/2	1	20	1.0	6.2	45	2	1	10	8	CU—115A	30				
31	LIGHTS. EXT. (NOTE 1)	12	12	1/2	1	20	0.5						8		32				
33	GAS VALVE	12	12	1/2	1	20	0.1	1.7	20	1	1/2	12	12	AHU—115A	34				
35	RECP.T. PRINT	12	12	1/2	1	20	0.5	8.2	60	2	1	10	6	CU—115B	36				
37	RECP.T. PRINT	12	12	1/2	1	20	0.5						6		38				
39	PROVISIONS							1.7	20	1	1/2	12	12	AHU—115B	40				
TOTAL KVA							38.4	22,000 AMP-RMS, SYMMETRICAL SHORT CIRCUIT CURRENT RATING											

NOTES: 1. CONNECT THRU LC1.

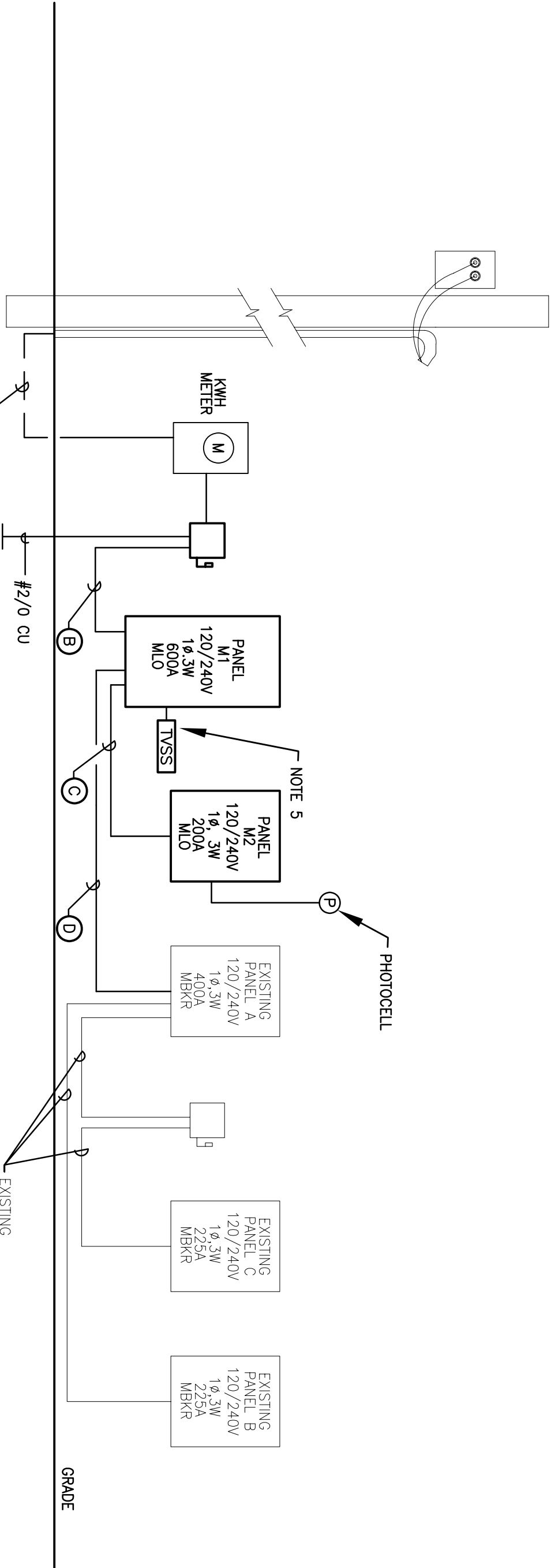
GENERAL NOTES:

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE THE LATEST VERSION OF THE NATIONAL ELECTRIC CODE (NEC) FLORIDA BUILDER'S CODE AND LOCAL CODES APPLICABLE TO THIS TYPE OF INSTALLATION.
- ALL WIRING SHALL BE THHN/THWN OR XHHW COPPER, UNLESS OTHERWISE SPECIFIED.
- NEUTRAL WIRES SHALL BE SIZED IDENTICALLY WITH PHASE CONDUCTORS, UNLESS OTHERWISE SPECIFIED.
- ALL LIGHTING AND RECEPTACLE CIRCUITS SHALL BE RUN WITH A #12 GREEN GROUND WIRE, MINIMUM.
- EQUIPMENT AND LIGHTING SHALL NOT EXCEED THE POWER REQUIREMENTS SPECIFIED IN THE LIGHTING SCHEDULE.
- ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED.
- EXTERIOR EQUIPMENT SHALL BE INSTALLED USING RIGID NEUA 3/8 RATED ENCLOSURES.
- REFER TO MECHANICAL PLAN FOR MODEL, TYPE OF MECHANICAL EQUIPMENT.
- ELECTRICAL CONTRACTOR SHALL VERIFY THAT THE CIRCUIT BREAKER, CONDUCTOR AND CONDUIT ARE LISTED FOR THE INTENDED APPLICATION AND FOR VOLTAGE DROP BASED ON ACTUAL CONDUCTOR RUNS PRIOR TO ENERGIZING CIRCUITS.
- ALL PHONE/DATA/TV RECEPTACLES TO BE STUBBED THROUGH THE CEILING AND ROUTED TO POINT OF DEMARCATION.
- UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC ABOVE GROUND HOMERUNS SHALL BE EMT.
- CONDUIT LATERAL TO EQUIPMENT SHALL UTILIZE TYPE MC CABLE.
- SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THE COMMENCEMENT OF WORK. SHOP DRAWINGS FOR LIGHT FIXTURES TO BE PROVIDED TO OWNER FOR APPROVAL PRIOR TO THE COMMENCEMENT OF WORK.

ELECTRICAL LEGEND				
	2 x 4 FLUORESCENT LUMINAIRE			
	EMERGENCY 2 x 4 FLUORESCENT LUMINAIRE			
	FLUORESCENT STRIP LUMINAIRE			
	EMERGENCY FLUORESCENT STRIP LUMINAIRE			
	WALL MOUNTED LUMINAIRE			
	RECESSED OR PENDANT MOUNTED LUMINAIRE			
	BUILDING MOUNTED WALL PACK			
	EMERGENCY BATTERY PACK WITH TWO INTEGRAL LIGHTS			
	EXIT LIGHT			
	EMERGENCY/EXIT COMBO LIGHT			
	INCANDESCENT LUMINAIRE			
	SINGLE POLE SINGLE THROW SWITCH (SPST)			
	THREE WAY SPST SWITCH			
	SLIDE TYPE DIMMER SWITCH			
	SWITCH WITH INTEGRAL MOTION SENSOR			
	LIGHTING MOTION SENSOR			
	DUPLEX RECEPTACLE WALL MOUNTED			
	QUADPLEX RECEPTACLE WALL MOUNTED			
	DUPLEX RECEPTACLE WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER			
	FLOOR MOUNT RECEPTACLE/DATA BOX			
	SPECIAL RECEPTACLE			
	TELEPHONE AND DATA WALL OUTLET			
	TV/CABLE WALL OUTLET			
	JUNCTION BOX (SIZE PER N.E.C.)			
	DISCONNECT SWITCH (FRAME SIZE/# POLES/ENCLOSURE)			
	PANELBOARD (SEE SCHEDULE FOR CONFIGURATION)			
	UNDERGROUND CONDUIT			
	CONDUIT			
	MOTOR - NUMBER DENOTES HORSEPOWER			
	SMOKE DETECTOR			
	DUCT SMOKE DETECTOR			
	HEAT DETECTOR			
	CARBON MONOXIDE SENSOR			
	ABOVE FINISHED FLOOR			
	ABOVE FINISHED GRADE			
	COPPER			
	GROUND FAULT CIRCUIT INTERRUPTER			
	WEATHERPROOF			

UNIT LOAD SUMMARIES:

WIRING	WAREHOUSE
LIGHTING @ 3.5W/SF x 4000SF	14,000 VA
RECEPTACLES 70 @ 180VA	11,430 VA
10KVA + 2860 @ 50%	
HVAC	
EF-113.114	113 VA
AHU-108	1176 VA
AHU-115A/B	3400 VA
CU-108 240V x 9A	2160 VA
CU-115A 240V x 26A	6240 VA
CU-115B 240V x 34A	8160 VA
EXIST LOAD 400A @ 240V	96,000 VA
TOTAL ESTIMATED DEMAND	142,679 VA
TOTAL ESTIMATED AMPS	594.5 AMPS
PANEL SIZE	600 AMPS



- POWER RISER NOTES:**
1. CONSULT OWNER PRIOR TO BID AND INCLUDE ANY LOCAL REQUIREMENTS IN PROPOSAL.
 2. PROVIDE WEIR ENCLOSURE AS REQUIRED BY OWNER.
 3. CONTACT ARCHITECT OR OWNER IF ANY IMPACT FEES APPLY.
 4. PROVIDE SERVICE GROUND/BOND PER NEC 250-52 (A) THRU (D) AND 250-104 (A) THRU (D).
 5. RELOCATE TVSS FROM PANEL A TO PANEL M1.

POWER RISER DIAGRAM

NOT TO SCALE

CONDUIT SCHEDULE

- (A) 2 STS
3-#350KCM CU
- (B) 2 STS
3-#350KCM CU
- (C) 2 STS
3-#350KCM CU
- (D) 2 STS
3-#350KCM CU

ELECTRICAL DRAWING INDEX	
SHEET NUMBER	DESCRIPTION
E1.0	ELECTRICAL LEGEND, PANEL SCHEDULES, NOTES AND RISER
E2.0	ELECTRICAL POWER AND LIGHTING PLAN
E3.0	ELECTRICAL DETAILS

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Project Number:

211033

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Scale:

1" = 1'-0"

Notes:

1. All work shall be in accordance with the latest version of the National Electrical Code (NEC) Florida Building Code and local codes applicable to this type of installation.

Revisions:

Rev.	Description	Date
1	Initial Design	08/05/2011
2	Revised Design	08/05/2011
3	Final Design	08/05/2011

Drawn By:

SAA

Checked By:

WH

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AUGUST 5, 2011

Sheet Title:

ELECTRICAL LEGEND
PANEL SCHEDULES, NOTES
AND RISER

drawing scale:

SCALE AS NOTED

Sheet number:

E-1.0