PANEL SCHEDULE

PANEL: PP1
LOCATION: KITCHEN
FEEDER SOURCE: WASHINGTON ST TAMMANY

VOLTAGE: 208/120V, 400A BS, 4W W/NB PANEL.
ENCLOSURE: FLUSH MOUNTED W/ EQUIPMENT GND BAR SQ D TYPE QO LOAD CENTER

CKT NO	THHN WIRE SIZE	LOAD DESCRIPTION: LOCATION	BREAKER: AMP	BREAKER: POLE	LOAD (kva)	AO BO CO	LOAD (kva)	BREAKER: POLE	BREAKER: AMP	LOAD DESCRIPTION: LOCATION	THHN WIRE SIZE	CKT NO
1	#12	RECEPTACLES, OFFICES	20	1	1.4		1.6	1	20	LIGHTS, STUDIO	#12	2
3	#12	RECEPTACLES, WAREHOUSE	20	1	1.4		1.0	1	20	LIGHTS, EXTERIOR	#12	4
5	#12	RECEPTACLES, WAREHOUSE	20	1	1.4		1.0	1	20	LIGHTS, KITCHEN AND PANTRY	#12	6
7	#12	RECEPTACLES, KITCHEN	20	1	1.9		0.9	1	20	LIGHTS, COUNTER AND BATHROOMS	#12	8
9	#12	RECEPTACLES, STUDIO	20	1	1.9		1.0	1	20	LIGHTS, OFFICES AND RESTROOMS	#12	10
11	#12	RECEPTACLES, STUDIO AND PORCH	20	1	1.9		1.0	1	20	LIGHTS, OFFICES AND RESTROOMS	#12	12
13	#12	RECEPTACLES, COUNTER	20	1	1.1		1.6	1	20	LIGHTS, WAREHOUSE AND STORAGE	#12	14
15	#12	WATER WELL	20	1	1.2		1.0	1	20	WASHER	#12	16
17	#12	SEWER TREATMENT PLANT	20	1	1.2		0	1	20	SPARE	#12	18
19	#12	FREEZER	20	1	1.2		2.5	2	30	WATER HEATER	#10	20
21	#12	REFRIGERATOR	20	1	1.2		2.5					22
23	#12	ICE MAKER	20	1	1.2		3.1	2	30	DRYER	#10	24
25	#12	DISH WASHER	20	1	1.2		3.1					26
27	#6	MBS SPLITS MS-1 AND MS-2 **	35	2	3.4		5.2	2	50	RANGE	#6	28
29					3.4		5.2					30
31	#10	AHU-1 **	25	2	2.2		0.9	2	15	GU-1 **	#12	32
33					2.2		0.9					34
35	#6	AHU-2 **	40	2	8.3		2.4	2	25	GU-2 **	#10	36
37					8.3		2.4					38
39	#6	AHU-3 **	40	2	3.6		3.6	2	50	GU-3 **	#6	40
41					3.6		3.6					42
43	#12	DRINKING FOUNTAIN	20	1	0.6		0.6	1	20	WATER FOUNTAIN	#12	44
45	—	SPACE	*	1	-		0	1	20	SPARE	#12	46
47	—	SPACE	*	1	-		0	1	20	SPARE	#12	48
49	—	SPACE	*	1	-		0	1	20	SPARE	#12	50
51	—	SPACE	*	1	-		0	1	20	SPARE	#12	52
53	—	SPACE	*	1	-		0	1	20	SPARE	#12	54
55	M2M	SPARE	*	3	-		0	1	20	SPARE	#12	56
57					-		-	3	*	3PM/RB	M2M	58
59					-		-					60
61	—	SPACE	*	1	-		-	1	*	3PM/RB	M2M	62
63	—	SPACE	*	1	-		-	1	*	3PM/RB	M2M	64

SOLID NEUTRAL
NEUTRAL WIRE (N)

TOTAL CONNECTED LOAD (kva) = 47.1

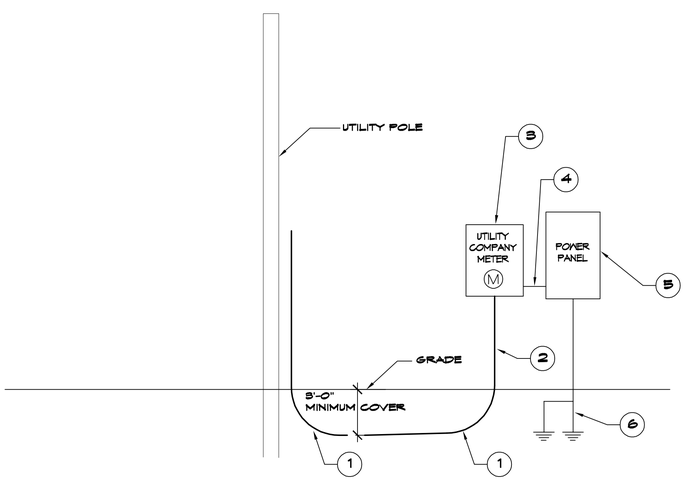
AO = 30.9 kva | BO = 24.5 kva | CO = 36.7 kva

GROUND BUS
GROUND WIRE (G)

ELECTRICAL LOAD SUMMARY

POWER COMPANY:	Washington St. Tammany				
PROJECT NAME:	DREW MANUAL				
PROJECT ADDRESS:	59216 AMBER STREET				
CITY TOWN:	SLIDELL, LOUISIANA 70416				
INTENDED USER:	ART GALLERY				
REQUIRED SERVICE:	208/120 VOLTS	3 PHASE	4 WIRE		
SERV ENTR SIZE:	400 AMPS				
HVAC TONNAGE:	13 TONS				
LARGEST MOTOR:	HP	NOTE: MOTORS ABOVE 20 HP MAY REQUIRE REDUCED VOLTAGE STARTING AND ARE NEVER RECOMMENDED FOR USE WITH 240/120V, 1 PH, 3 W SERVICE			
TOTAL BUILDING SQUARE FOOTAGE:	6000 S.F.				
INDIVIDUAL UNIT SQUARE FOOTAGE:	0 S.F.				
INDIVIDUAL UNIT DESIGNATION:	(MULT OCCUPANCY)				

LOAD SOURCE	1Φ KVA	3Φ KVA	OR	1Φ KW	3Φ KW
BUILDING LIGHTING		8.1			
ELECTRIC WATER HEATING		5.0			
HEAT PUMPS		3.2			
SUPPLEMENTAL HEAT SYSTEMS					
AIR COND CONDENSING UNITS		13.8			
ELEC HEATING (PRIMARY) AHU'S		28.2			
COOKING		10.4			
REFRIGERATION		2.4			
RECEPTACLES (STANDARD)		9.2			
RECEPTACLES (COMPUTER)					
TOTAL MOTORS (EXCLUDE HVAC)					
EXTERIOR LIGHTING					
MISCELLANEOUS - CEILING FANS					
OTHER		20.0			
TOTAL CONNECTED LOAD	0.0	100.3		0.0	0.0



ONE LINE NOTES:

1. 36" LONG SWEEP ELBOW
2. PROVIDE TWO (2) 4" SCHEDULE 40 PVC CONDUIT BELOW GRADE AND SCH 80 PVC CONDUIT ABOVE GRADE WITH SUITABLE FISH WIRE.
3. 120/208V 3Φ 400amp METER PAN.
4. 4-500 MCM THHN, 1-#2 GND, 2 1/2" C
5. 120/208V 3Φ 400A PANELBOARD WITH MAIN BREAKER.
6. 2-3/4" x 10' CU CLAD GND ROD, #1/0 CU GND WIRE. PROTECT IN PVC PIPE. CONNECT TO METAL BLDG, COLD WATER SUPPLY & GAS LINE. CAD WELD ALL CONNECTIONS.

20 RISER DIAGRAM
SCALE: NONE

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Chief Engineer: Brian Mistich, PE
554 Old Spanish Trail
Slidell, LA 70458

REVISIONS

#	DESCRIPTION	DATE

STATE OF LOUISIANA
BRIAN A. MISTICH
License No. 30187
PROFESSIONAL ENGINEER

NEW BUILDING
DREW MANUAL
40081 CORAL STREET
SLIDELL, LA 70461

DATE: 12-14-2021
JOB No:
DRAWN BY: CAD
CHECKED BY: BAM

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SHEET TITLE:
POWER PANEL AND ONE LINE DIAGRAM

DRAWING NUMBER:
E102

SHEET No: 12 of 12

FILE NAME: J:\+ Office_Brandon\Drew Manual\Drawings\Current Drawings\E102 - Panel Schedule and One Line.dwg PLOT DATE & TIME: Wednesday, December 15, 2021 10:23:11 AM