Branch Panel: AP1

Location: UTILITIES 111
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 8931
Mains Type:
Mains Rating: 400.0
MCB Rating: 1.0

Notes:
PROVIDE FEED THROUGH LUGS

Wire Size	CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	Wire Size
1-#12, 1-#12, 1-#12	1	REC - OFFICE #2 110	20.0	1	720... 1080...			1	20.0	REC - GEN OFFICE 109	2	1-#12, 1-#12, 1-#12
1-#12, 1-#12, 1-#12	3	REC - PUB ENTRY 101	20.0	1		360... 900...		1	20.0	REC - Space N233	4	1-#12, 1-#12, 1-#12
1-#12, 1-#12, 1-#12	5	REC - Space N233	20.0	1			720... 180...	1	20.0	REC - TOILET ROOM 105	6	1-#12, 1-#12, 1-#12
1-#12, 1-#12, 1-#12	7	REC - TOILET ROOM 106	20.0	1	180... 540...			1	20.0	REC - CORRID	8	1-#12, 1-#12, 1-#12
1-#12, 1-#12, 1-#12	9	REC - BREAKROOM 108	20.0	1		500... 300...		1	20.0	REC - BREAKROOM 108	10	1-#12, 1-#12, 1-#12
1-#12, 1-#12, 1-#12	11	REC - BREAKROOM 108	20.0	1			300... 200...	1	20.0	REC - BREAKROOM 108	12	1-#12, 1-#12, 1-#12
1-#12, 1-#12, 1-#12	13	REC - BREAKROOM 108	20.0	1	250... 500...			1	20.0	REC - FRIDGE	14	1-#12, 1-#12, 1-#12
1-#12, 1-#12, 1-#12	15	REC - BREAKROOM 108	20.0	1		540... 360...		1	20.0	REC - UTILITIES PANEL	16	1-#12, 1-#12, 1-#12
1-#12, 1-#12, 1-#12	17	REC - FILE ARCHIVE 112	20.0	1			360... 540...	1	20.0	REC - OFFICE CONF	18	1-#12, 1-#12, 1-#12
1-#12, 1-#12, 1-#12	19	REC - OFFICE CONF	20.0	1	1080... 1080...			1	20.0	REC - TRAINING ROOM...	20	1-#12, 1-#12, 1-#12
1-#12, 1-#12, 1-#12	21	REC - CORRIDOR 104	20.0	1		540... 900...		1	20.0	REC - TRAINING ROOM...	22	1-#12, 1-#12, 1-#12
1-#12, 1-#12, 1-#12	23	REC - TRAINING ROOM...	20.0	1			720... 540...	1	20.0	REC - TRAINING ROOM...	24	1-#12, 1-#12, 1-#12
1-#12, 1-#12, 1-#12	25	REC - MENS' SHOWER 116	20.0	1	360... 180...			1	20.0	REC - WOMENS'...	26	1-#12, 1-#12, 1-#12
1-#10, 1-#10, 1-#10	27	REC - SIGN SHOP 119	20.0	1		1080... 720...		1	20.0	REC - SIGN SHOP 119	28	1-#12, 1-#12, 1-#12
1-#12, 1-#12, 1-#12	29	REC - SHOP STORAGE 120	20.0	1			360... 900...	1	20.0	REC - MEZZANINE	30	1-#10, 1-#10, 1-#10
3-#1, 1-#1, 1-#8	31 33 35	CU-1	100.0	3	7557... 3744... 7557... 3744...		7557... 3744...	2	50.0	CU-2 CU-3	32 34 36	2-#6, 1-#6, 1-#10
2-#12, 1-#12, 1-#12	37 39	AHU-1F	15.0	2	300... 3744...	300... 41 VA		2	15.0	AHU-1A	38 40	2-#12, 1-#12, 1-#12
2-#12, 1-#12, 1-#12	41 43	AHU-1C	15.0	2	41 VA 41 VA		41 VA 41 VA	2	15.0	AHU-1D	42 44	2-#12, 1-#12, 1-#12
2-#12, 1-#12, 1-#12	45 47	AHU-1E	15.0	2		41 VA 41 VA	41 VA 41 VA	2	15.0	AHU-1B	46 48	2-#12, 1-#12, 1-#12
1-#10, 1-#10, 1-#10	49	DIESEL FUEL PUMP	20.0	1	1000... 41 VA						50	
1-#10, 1-#10, 1-#10	51	GAS FUEL PUMP	20.0	1		1000... 840...		1	20.0	REC - TRAINING ROOM...	52	1-#12, 1-#12, 1-#12
1-#12, 1-#12, 1-#12	53	GUH-1	15.0	1			219... 840...	1	20.0	REC - TRAINING ROOM...	54	1-#12, 1-#12, 1-#12
1-#12, 1-#12, 1-#12	55	REC - CLOSET 115	20.0	1	180... 6211...						56	
2-#12, 1-#12, 1-#12	57 59	AHU-1G	20.0	2		300... 6410...	300... 4638...	3	400.0	AP2 (VIA FEED THROUGH LUGS)	58 60	3-#750, 1-#750, 1-#3
			Total Load:		28827 VA	26471 VA	22279 VA					
			Total Amps:		245.6	226.0	185.7					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	2370 VA	100.00%	2370 VA		
Power	49837 VA	100.00%	49837 VA	**Total Conn. Load:**	77577 VA
Receptacle	25370 VA	69.71%	17685 VA	**Total Est. Demand:**	69892 VA
				Total Conn.:	215.3
				Total Est. Demand:	194.0

Branch Panel: AP2

Location: UTILITIES 111
Supply From: AP1
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 8722
Mains Type:
Mains Rating: 400.0
MCB Rating: 1.0

Notes:

Wire Size	CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	Wire Size
1-#12, 1-#12, 1-#12	1	EF/LO-2	15.0	1	72 VA 920...			1	20.0	LTG - CORRIDOR/OFFICE	2	1-#12, 1-#12, 1-#12
1-#12, 1-#12, 1-#12	3	EF/LO-4	15.0	1		564... 210...		1	20.0	LTG - EXTER+EM	4	1-#12, 1-#12, 1-#12
1-#12, 1-#12, 1-#12	5	LTG- TRAIN/SHOP	20.0	1			430... 69 VA	1	15.0	EF/LO-1	6	1-#12, 1-#12, 1-#12
2-#12, 1-#12, 1-#12	7 9	AHU-1G	15.0	2	294... 69 VA	294... 84 VA		1	15.0	EF/LO-2 EF/LO-3	8 10	1-#12, 1-#12, 1-#12 1-#12, 1-#12, 1-#12
1-#12, 1-#12, 1-#12	11	EF/LO-4	15.0	1			492... 864...	1	15.0	EF/LO-5	12	1-#12, 1-#12, 1-#12
2-#12, 1-#12, 1-#12	13 15	ERV-1	15.0	2	520... 1008...	520... 1000...		1	20.0	EBB-2 PRINTER	14 16	1-#12, 1-#12, 1-#12 1-#12, 1-#12, 1-#12
1-#8, 1-#8, 1-#8	17	AUH-3	20.0	1			1668... 575...	1	20.0	RCP	18	1-#12, 1-#12, 1-#12
1-#12, 1-#12, 1-#12	19	GWH	20.0	1	600... 1000...			1	20.0	SEPTIC PUMP	20	1-#12, 1-#12, 1-#12
1-#12, 1-#12, 1-#12	21	Lighting	20.0	1		810... 360...		1	20.0	TELCO BOARD	22	1-#12, 1-#12, 1-#12
1-#12, 1-#12, 1-#12	23	REC-EXTERIOR	20.0	1			180... 360...	1	20.0	TELCO BOARD	24	1-#12, 1-#12, 1-#12
1-#12, 1-#12, 1-#12	25	REC-CONDENSE	20.0	1	720... 1008...			1	20.0	EBB-1	26	1-#12, 1-#12, 1-#12
1-#12, 1-#12, 1-#12	27	REC-CONDENSE	20.0	1		900... 1668...		1	20.0	AHU-2	28	1-#12, 1-#12, 1-#12
--	29	Spare	20.0	1			0 VA 0 VA	1	20.0	Spare	30	--
--	31	Spare	20.0	1	0 VA 0 VA			1	20.0	Spare	32	--
--	33	Spare	20.0	1		0 VA 0 VA		1	20.0	Spare	34	--
--	35	Spare	20.0	1			0 VA 0 VA	1	20.0	Spare	36	--
--	37	Spare	20.0	1	0 VA 0 VA			1	20.0	Spare	38	--
--	39	Spare	20.0	1		0 VA 0 VA		1	20.0	Spare	40	--
--	41	Spare	20.0	1			0 VA 0 VA	1	20.0	Spare	42	--
--	43	Spare	20.0	1	0 VA 0 VA			1	20.0	Spare	44	--
--	45	Spare	20.0	1		0 VA 0 VA		1	20.0	Spare	46	--
--	47	Spare	20.0	1			0 VA 0 VA	1	20.0	Spare	48	--
--	49	Spare	20.0	1	0 VA 0 VA			1	20.0	Spare	50	--
--	51	Spare	20.0	1		0 VA 0 VA		1	20.0	Spare	52	--
--	53	Spare	20.0	1			0 VA 0 VA	1	20.0	Spare	54	--
--	55	Spare	20.0	1	0 VA 0 VA			1	20.0	Spare	56	--
--	57	Spare	20.0	1		0 VA 0 VA		1	20.0	Spare	58	--
--	59	Spare	20.0	1			0 VA 0 VA	1	20.0	Spare	60	--
			Total Load:		6211 VA	6410 VA	4638 VA					
			Total Amps:		53.8	55.4	38.7					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	2370 VA	100.00%	2370 VA		
Power	10369 VA	100.00%	10369 VA	**Total Conn. Load:**	17259 VA
Receptacle	4520 VA	100.00%	4520 VA	**Total Est. Demand:**	17259 VA
				Total Conn.:	47.9
				Total Est. Demand:	47.9

BD engineering
NJ CERTIFICATE OF AUTHORIZATION - 24GA28116100
BD Engineering, LLC
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BRIAN D. TANNENHAUS

NJ PROFESSIONAL ENGINEER
NO. GE 45801
DATE: 03/12/2026

No.	Description	Date
	PLANS FOR PERMITTING	03/12/26
1	SHOPDWG REV	4/2/2026

revisions

PUBLIC WORKS BUILDING
LOWER TOWNSHIP
771 SEASHORE ROAD
CAPE MAY COUNTY, NJ

project title

ELECTRICAL PANEL SCHEDULES
drawing name

scale

date 11/20/24
drawn by AW
project no. 240093

E4-2
drawing no.