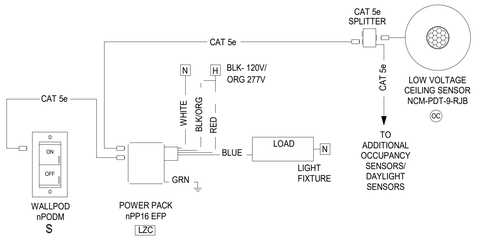
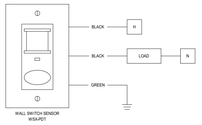


LIGHTING CONTROL SEQUENCE OF OPERATION NOTES:

1. QUANTITY OF DEVICES (OCCUPANCY SENSORS, SWITCHES, POWER PACKS) AS SHOWN ON FLOOR PLANS.
2. CONTROL DESCRIPTION:
   - LIGHTS AUTO ON/OFF VIA VACANCY SENSOR WITHIN THE SPACE (AUTO OFF WITHIN 20 MINUTES)
   - LIGHTS MANUAL OFF OVERRIDE AT LOCAL LOW VOLTAGE SWITCH.
3. THIS DETAIL APPLIES TO THE RESTROOMS AND ALCOVE.



THIS DETAIL APPLIES TO THE UTILITY ROOM.

BRANCH CIRCUIT PROTECTIVE DEVICE RATING, COPPER WIRE & CONDUIT SCHEDULE FOR (600 V MAX) SYSTEMS

UPDATED 01-01-2013
COPPER CONDUCTOR; THHN / THWN INSULATION, 600 V
USE FOR ALL METAL CONDUITS & PVC - 40 & PVC - 80

NOTE : THIS TABLE IS FOR FEEDERS AND BRANCH CIRCUITS. IT IS NOT TO BE USED FOR SERVICE ENTRANCE, MOTORS, OR TRANSFORMERS.

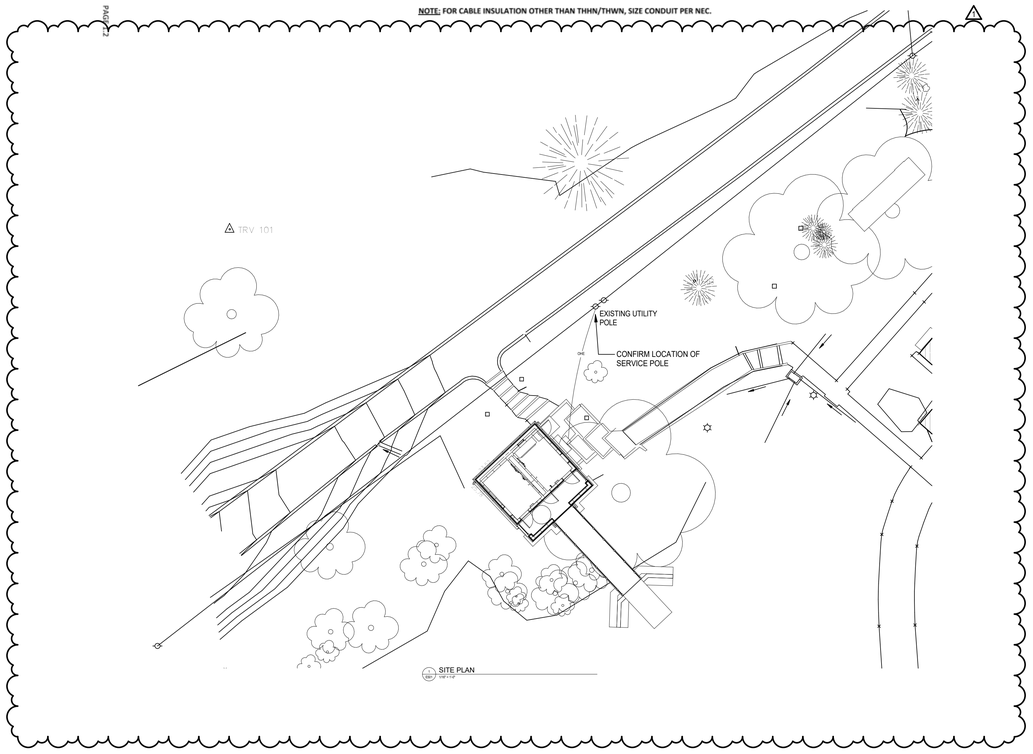
OCP RATING	TYPE 1 1Φ - 2W & EGC	TYPE 2 1Φ - 3W & EGC	TYPE 3 3Φ - 3W & EGC	TYPE 4 3Φ - 4W & EGC
15 A	2 #12 & 1 #12 EGC IN 3/4" C	3 #12 & 1 #12 EGC IN 3/4" C	3 #12 & 1 # 12 EGC IN 3/4" C	4 #12 & 1 #12 EGC IN 3/4" C
20 A	2 #12 & 1 #12 EGC IN 3/4" C	3 #12 & 1 #12 EGC IN 3/4" C	3 #12 & 1 # 12 EGC IN 3/4" C	4 #12 & 1 #12 EGC IN 3/4" C
30 A	2 #10 & 1 #10 EGC IN 3/4" C	3 #10 & 1 #10 EGC IN 3/4" C	3 # 10 & 1 # 10 EGC IN 3/4" C	4 #10 & 1 #10 EGC IN 3/4" C
35 A	2 #8 & 1 #10 EGC IN 3/4" C	3 #8 & 1 #10 EGC IN 3/4" C	3 #8 & 1 #10 EGC IN 3/4" C	4 #8 & 1 #10 EGC IN 1" C
40 A	2 #8 & 1 #10 EGC IN 3/4" C	3 #8 & 1 #10 EGC IN 3/4" C	3 #8 & 1 #10 EGC IN 3/4" C	4 #8 & 1 #10 EGC IN 1" C
45 A	2 #6 & 1 #10 EGC IN 3/4" C	3 #6 & 1 #10 EGC IN 1" C	3 #6 & 1 #10 EGC IN 1" C	4 #6 & 1 #10 EGC IN 1" C
50 A	2 #6 & 1 #10 EGC IN 3/4" C	3 #6 & 1 #10 EGC IN 1" C	3 #6 & 1 #10 EGC IN 1" C	4 #6 & 1 #10 EGC IN 1" C
60 A	2 #4 & 1 #10 EGC IN 1" C	3 #4 & 1 #10 EGC IN 1 1/4" C	3 #4 & 1 #10 EGC IN 1 1/4" C	4 #4 & 1 #10 EGC IN 1 1/4" C
70 A	2 #4 & 1 #8 EGC IN 1" C	3 #4 & 1 #8 EGC IN 1 1/4" C	3 #4 & 1 #8 EGC IN 1 1/4" C	4 #4 & 1 #8 EGC IN 1 1/4" C
80 A	2 #3 & 1 #8 EGC IN 1" C	3 #3 & 1 #8 EGC IN 1-1/4" C	3 #3 & 1 #8 EGC IN 1-1/4"C	4 #3 & 1 #8 EGC IN 1 1/4" C
90 A	2 #2 & 1 #8 EGC IN 1 1/4" C	3 #2 & 1 #8 EGC IN 1 1/4" C	3 #2 & 1 #8 EGC IN 1 1/4" C	4 #2 & 1 #8 EGC IN 1 1/2" C
100 A	2 #1 & 1 #8 EGC IN 1 1/4" C	3 #1 & 1 #8 EGC IN 1 1/2" C	3 #1 & 1 #8 EGC IN 1 1/2" C	4 #1 & 1 #8 EGC IN 2" C
110 A	2 #1 & 1 #6 EGC IN 1 1/4" C	3 #1 & 1 #6 EGC IN 1 1/2" C	3 #1 & 1 #6 EGC IN 1 1/2" C	4 #1 & 1 #6 EGC IN 2" C
125 A	2 #1 & 1 #6 EGC IN 1 1/4" C	3 #1 & 1 #6 EGC IN 1 1/2" C	3 #1 & 1 #6 EGC IN 1 1/2" C	4 #1 & 1 #6 EGC IN 2" C
150 A	2 #1/0 & 1 #6 EGC IN 1 1/2" C	3 #1/0 & 1 #6 EGC IN 2" C	3 #1/0 & 1 #6 EGC IN 2" C	4 #1/0 & 1 #6 EGC IN 2" C
175 A	2 #2/0 & 1 #6 EGC IN 1 1/2" C	3 #2/0 & 1 #6 EGC IN 2" C	3 #2/0 & 1 #6 EGC IN 2" C	4 #2/0 & 1 #6 EGC IN 2" C
200 A	2 #3/0 & 1 #6 EGC IN 2" C	3 #3/0 & 1 #6 EGC IN 2" C	3 #3/0 & 1 #6 EGC IN 2" C	4 #3/0 & #6 EGC IN 2 1/2" C
225 A	2 #4/0 & 1 #4 EGC IN 2" C	3 #4/0 & 1 #4 EGC IN 2 1/2" C	3 #4/0 & 1 #4 EGC IN 2 1/2" C	4 #4/0 & 1 #4 EGC IN 2 1/2" C
250 A	2 #250 KCMIL & 1 #4 EGC IN 2" C	3 #250 KCMIL & 1 #4 EGC IN 2 1/2" C	3 #250 KCMIL & 1 #4 EGC IN 2 1/2" C	4 #250 KCMIL & 1 #4 EGC IN 3" C
300 A	2 #350 KCMIL & 1 #4 EGC IN 2 1/2" C	3 #350 KCMIL & 1 #4 EGC IN 3" C	3 #350 KCMIL & 1 #4 EGC IN 3" C	4 #350 KCMIL & 1 #4 EGC IN 3" C
350 A	2 #500 KCMIL & 1 #3 EGC IN 3" C	3 #500 KCMIL & 1 #3 EGC IN 3 1/2 " C	3 #500 KCMIL & 1 #3 EGC IN 3 1/2" C	4 #500 KCMIL & 1 #3 EGC IN 3 1/2" C
400 A	2 #500 KCMIL & 1 #3 EGC IN 3" C	3 #500 MCKIL & 1 #3 EGC IN 3 1/2" C	3 #500 KCMIL & 1 #3 EGC IN 3 1/2" C	4 #500 KCMIL & 1 #3 EGC IN 3 1/2" C
450 A	2 SETS OF (2 #4 /0 & 1 #2 EGC) IN (2) 2" C	2 SETS OF (3 #4/0 & 1 #2 EGC) IN (2) 2 1/2" C	2 SETS OF (3 #4/0 & 1 #2 EGC) IN (2) 2 1/2" C	2 SETS OF (4 #4/0 & 1 #2 EGC) IN (2) 2 1/2" C

CIRCUIT SYMBOL

4	-TYPE, CONDUCTOR SIZE / CONDUIT
225	-OCP RATING

COPPER CONDUCTORS

NOTE: FOR CABLE INSULATION OTHER THAN THHN/THWN, SIZE CONDUIT PER NEC.



PANEL SCHEDULE
PANEL A

NOTES

LOCATION: UTILITY / JAN. 100
SUPPLY FROM:
ENCLOSURE: TYPE 1
POLE SPACES: 30

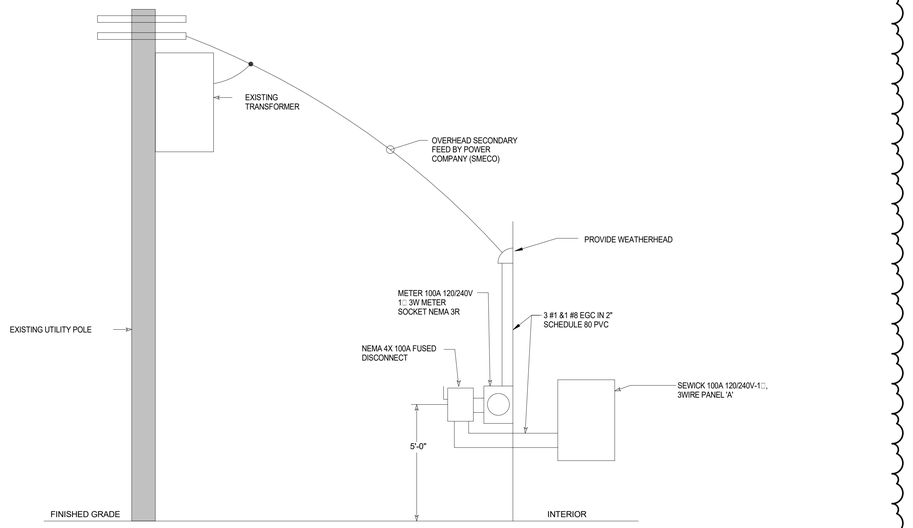
VOLTAGE: 120/240 SINGLE
PHASES: 1
WIRES: 3
AIC RATING: 22K
MAIN TYPE: MCB
BUS RATING: 100 A
MCB RATING: 100 A

CKT	CIRCUIT DESCRIPTION	RATING	# OF POLES	A		B		# OF POLES	RATING	CIRCUIT DESCRIPTION	CKT
1	Lighting	20 A	1	144 VA	182 VA			1	20 A	Lighting	2
3	Receptacle	20 A	1			720 VA	180 VA	1	20 A	Receptacle	4
5	Receptacle	20 A	1	360 VA	2500 VA			1	30 A	DWH-1	6
7	Lighting	20 A	1			30 VA	2050 VA	2	25 A	HP-1	8
9	EF-1	20 A	1	92 VA	2050 VA			--	--	--	10
11	EF-1	20 A	1			62 VA	1800 VA	1	15 A	EWH-1	12
13	Receptacle	20 A	1	180 VA	180 VA			1	20 A	Receptacle	14
15	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	16
17	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	18
19	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	20
21	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	22
23	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	28
29	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	30
	TOTAL CONNECTED APPARENTLY LOAD:			5670 VA		4830 VA					
	TOTAL CONNECTED AMPS:			47 A		40 A					

NOTES
PROVIDE PANEL WITH BUILT IN SPD.

LIGHTING FIXTURE SCHEDULE - 1 SPEC

TYPE	DESCRIPTION	MANUFACTURER	MODEL NUMBER	LUMENS TYPE	COLOR LAMPS	WATTS	VOLTAGE (MANUAL)	MOUNTING	COMMENTS
EBU	EBU	LITHONIA LIGHTING	ELM4L	NA	NA	1.2W	MVOLT	SURFACE	-
EX2	EXIT SIGN - WALL MOUNTED	LITHONIA LIGHTING	LHQM LED R HO SD	NA	NA	0.6W	MVOLT	SURFACE	-
RL	RECESSED LINEAR	FINELITE	HP 4 R D 4 H 835 F 96LG 120 FC-10% VF FE SW FACCHO	3700	3500K	36W	120V	RECESSED	-
RL2	RECESSED LINEAR	FINELITE	HP 4 R D 2 H 835 F 96LG 120 FC-10% VF FE SW FACCHO	1863	3500K	18W	120V	RECESSED	-
WD	WALL SCONCE	LITHONIA LIGHTING	WDGE1 LED P1 35K 80CRI VW MVOLT SRM	1200	3500K	10W	MVOLT	SURFACE	-
WS	WALL SCONCE	LITHONIA LIGHTING	WDGE2 LED P2 35K 80CRI VF MVOLT SRM	2000	3500K	16W	MVOLT	SURFACE	-



NOTES:

PROVIDE APPROPRIATE FASTENERS AND CLAPS AT EVERY LOCATION WHERE CONDUITS, ENCLOSURES, JUNCTION BOXES, ETC. MEET A RUN OF UNISTRUT. ALSO PROVIDE FASTENERS AND CLAPS WHERE TWO RUN OF UNISTRUT CROSS EACH OTHER.

RISER DIAGRAM

PROJECT INFORMATION

PROJECT TITLE

HISTORIC ST. MARY'S CITY STATE HOUSE ACCESSIBLE RESTROOM

PROJECT ADDRESS

OLD STATE HOUSE ROAD
SAINT MARYS CITY HISTORIC PARK
SAINT MARYS CITY, MD 20686

PROJECT OWNER

MARYLAND DEPARTMENT OF GENERAL SERVICES

Maryland
DEPARTMENT OF GENERAL SERVICES

PROJECT TEAM

ARCHITECT

NOELKER AND HULL
ASSOCIATES, INC.
ARCHITECTS

30 WEST KING STREET
CHAMBERSBURG, PA | 17201-1540
P: 717.263.8444 | F: 717.263.6031
NOELKERHULL.COM
PA | MD | VA

STRUCTURAL ENGINEER

AEC-P.A. - ADVANCED CONSULTING ENGINEERS, P.A.
5235 WESTVIEW DRIVE
SUITE 100 | FREDERICK, MD | 21703
P: (301) 258-8884

M/E/P ENGINEER

CJL ENGINEERING
5285 WESTVIEW DRIVE
SUITE 203 | FREDERICK, MD | 21703
P: (301) 695-9424

CIVIL ENGINEER

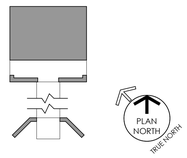
A. MORTON THOMAS AND ASSOCIATES, INC.
CONSULTING ENGINEERS
800 KING FARM BOULEVARD, 4TH FLOOR | ROCKVILLE, MD | 20850
P: (301) 881-2545 | F: (301) 881-0814

STATE OF MARYLAND — CHRISTOPHER P. JOYCE — 45511 — PROFESSIONAL ENGINEER

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No: 45511
Expiration Date: 05/03/2024

SHEET INFORMATION

KEY PLAN



REVISIONS

REV. #:	DESCRIPTION:	DATE:
1	Revision 1	12-19-2023

PROJECT STATUS

100% CONSTRUCTION DOCUMENTS

JOB NUMBER:	**20-0997 & DGS SM-855-210-001**
ISSUE DATE:	**20 JANUARY 2023**
SCALE:	

SHEET TITLE:

SCHEDULES & DETAILS

SHEET NUMBER:

E501

SHEET 3 OF 4