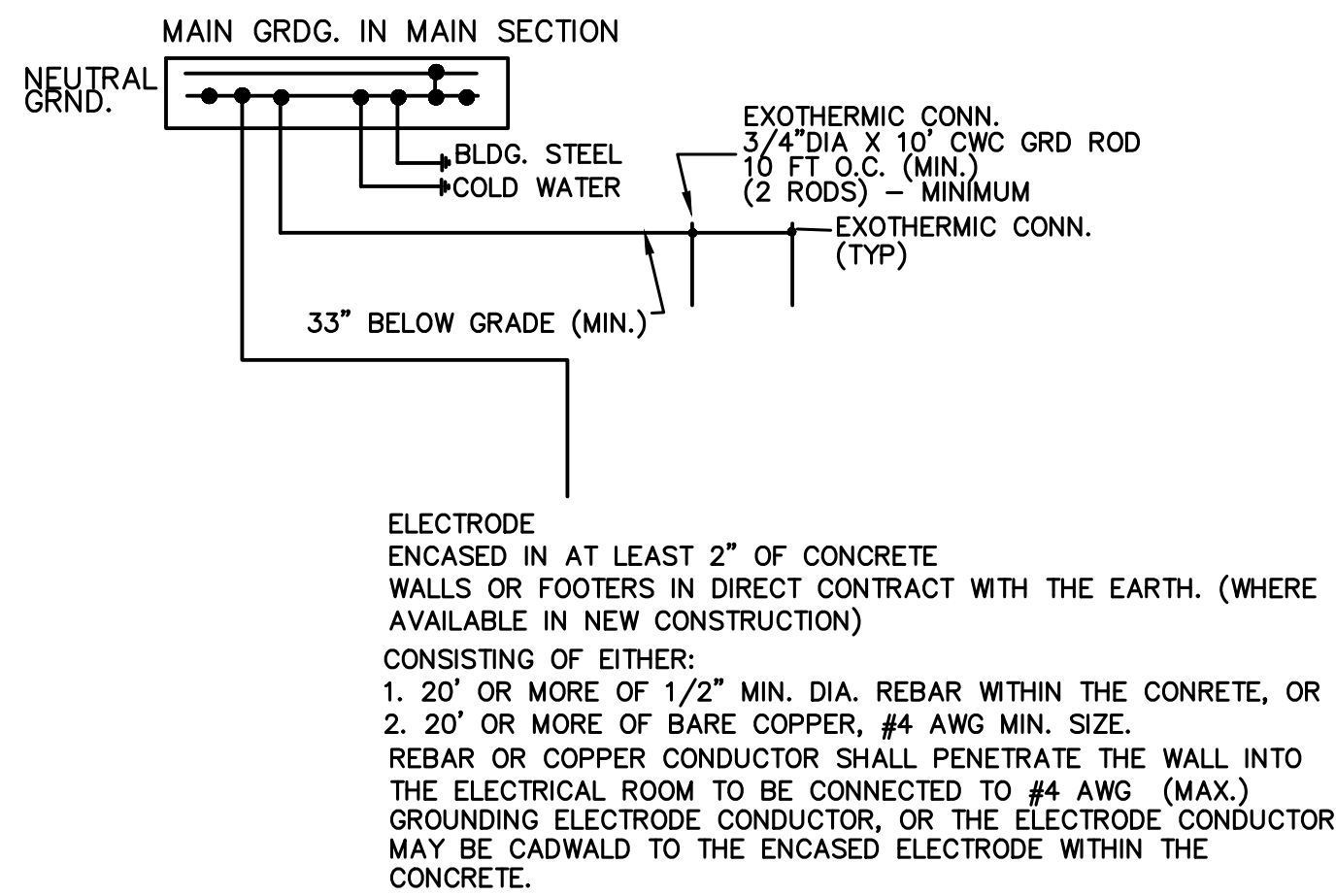


MAIN POWER DIAGRAM



MAIN GROUND DIAGRAM

GROUNDING CONDUCTORS TO BE IN PVC, SCH. 80 OF REQ'D. SIZE. SIZE CONDUCTORS PER N.E.C.
MAIN GRDG. CABLE TO BE #1/0 COPPER
LOCATE AT THE MAIN ELECTRICAL SERVICE ENTRANCE

NOTE	CIRCUIT	PANEL: M						CIRCUIT	NOTE
		DESCRIPTION	CKT. BRK. AMPS-POLES	KVA A	KVA B	KVA A	KVA B		
	1	RECEPTACLES	20A-1	540		540		2	
	3	RECEPTACLES	20A-1		360	360		4	
	5	AIR COMPRESSOR	70A-2	5520		360		6	
	7	---	---		5520	360		8	
	9	HP-1	40A-2	3720		500		10	
	11	---	---		3720		500	12	
	13	ILF-1	20A-2	1920		600		14	
	15	---	---		1920	600		16	
	17	ILF-2	20A-2	720		1440		18	
	19	---	---		720	1440		20	
	21	PANEL A	100A-2	7695		828		22	
	23	---	---		7695		828	24	
	25					1440		26	
	27					1440		28	
	29				3000		100A-2	30	
	31					3000	---	32	
	33					10055	100A-2	34	
	35					10055	---	36	
	37							38	
	39							40	
	41							42	
		LOAD A: KVA	38,878						
		LOAD B: KVA	38,518						
		TOTAL: KVA	77,396	77,396 / 240V = 322.48 AMPS					

ALL CIRCUIT SIZES ARE 2 #12 & 1 #12G-3/4"C, UNLESS INDICATED OTHERWISE.

NOTE	CIRCUIT	PANEL: C						CIRCUIT	NOTE
		DESCRIPTION	CKT. BRK. AMPS-POLES	KVA A	KVA B	KVA A	KVA B		
	1	HUH-3	20A-1	500		500		2	
	3	HUH-1	20A-1		500		500	4	
	5	SPARE	20A-1			500		6	
	7	SPARE	20A-1				500	8	
	9	SPARE	20A-1			500		10	
	11	SPARE	20A-1				500	12	
	13	PT-1	20A-1	500		500		14	
	15	CONTROLS-PLC	20A-1		500			16	
	17	MOTOR DAMPERS	20A-1	500				18	
	19	SPARE	20A-1					20	
	21	SPARE	20A-1					22	
	23	SPARE	20A-1					24	
	25							26	
	27							28	
	29							30	
	31							32	
	33							34	
	35							36	
	37							38	
	39							40	
	41							42	
		LOAD A: KVA	3,500						
		LOAD B: KVA	2,500						
		TOTAL: KVA	6,000	6,000 / 240V = 25 AMPS					

ALL CIRCUIT SIZES ARE 2 #12 & 1 #12G-3/4"C, UNLESS INDICATED OTHERWISE.

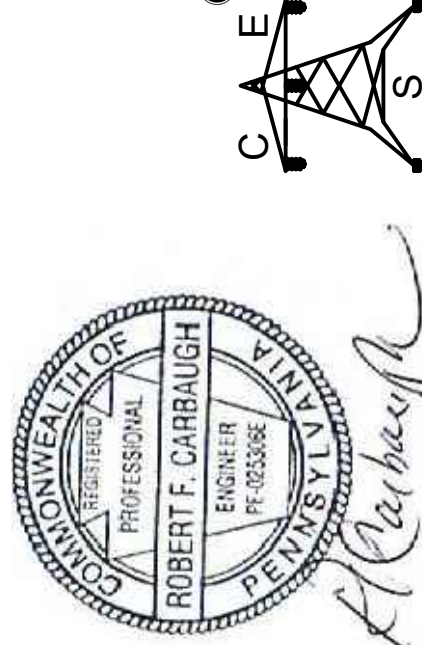
NOTE	CIRCUIT	PANEL: A						CIRCUIT	NOTE
		DESCRIPTION	CKT. BRK. AMPS-POLES	KVA A	KVA B	KVA A	KVA B		
	1	LIGHTING	20A-1	840		980		2	
	3	RECEPTACLES	20A-1		900		500	4	
	5	RECEPTACLES	20A-1	500		900		6	
	7	RECEPTACLES-EWC	20A-1		500			8	
	9	RECEPTACLES	20A-1	720		3000		10	
	11	WH-1	20A-1		1500		3000	12	
	13	HUH-2	20A-1	500		1000		14	
	15	SPARE	20A-1				1000	16	
	17	SPARE	20A-1					18	
	19	SPARE	20A-1					20	
	21	SPARE	20A-1					22	
	23	SPARE	20A-1					24	
	25							26	
	27							28	
	29							30	
	31							32	
	33							34	
	35							36	
	37							38	
	39							40	
	41							42	
		LOAD A: KVA	8,440						
		LOAD B: KVA	6,950						
		TOTAL: KVA	15,390	15,390 / 240V = 64.1 AMPS					

ALL CIRCUIT SIZES ARE 2 #12 & 1 #12G-3/4"C, UNLESS INDICATED OTHERWISE.

NOTE	CIRCUIT	PANEL: B						CIRCUIT	NOTE
		DESCRIPTION	CKT. BRK. AMPS-POLES	KVA A	KVA B	KVA A	KVA B		
	1	LIGHTING	20A-1	780		720		2	
	3	LIGHTING	20A-1		1040		690	4	
	5	OUTDOOR LIGHTING	20A-1	490		780		6	
	7	SPARE	20A-1					8	
	9	RECEPTACLES	20A-1	720		540		10	
	11	RECEPTACLES	20A-1		720		540	12	
	13	RECEPTACLES	20A-1	720		500		14	
	15	CABLE REEL	20A-1		500		500	16	
	17	CABLE REEL	20A-1	500			500	18	
	19	CABLE REEL	20A-1		500		500	20	
	21	DOOR OPERATOR	20A-2	500		500		22	
	23	---			500		500	24	
	25	DOOR OPERATOR	20A-2	500		500		26	
	27	---			500		500	28	
	29	CEF-3	20A-1	150		360		30	
	31	HUH-2	20A-1		500		360	32	
	33	CONTROLS & PLC	20A-1	500		500		34	
	35	MOTOR DAMPER	20A-1				500	36	
	37	DOOR OPERATOR	20A-2	500		500		38	
	39	---			500		500	40	
	41	SPARE					20A-1	42	
		LOAD A: KVA	10,760						
		LOAD B: KVA	9,350						
		TOTAL: KVA	20,110	20,110 / 240V = 83.7 AMPS					

ALL CIRCUIT SIZES ARE 2 #12 & 1 #12G-3/4"C, UNLESS INDICATED OTHERWISE.

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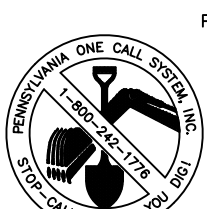
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EQUIPMENT BUILDING
CONSTRUCTION DRAWING
FOR
PROPOSED FIRST FLOOR PLAN
CUMBERLAND COUNTY, PA
SOUTH HAMPTON TWP.

Drawn By: HH
Designed By: HH
Checked By: RC
File: 2022-SH-009
Date: 08/18/2023
Scale: 3/16"=1'-0"

E-4

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1-800-242-1776
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REFER TO PENNSYLVANIA ONE CALL SYSTEM, INC.
UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE