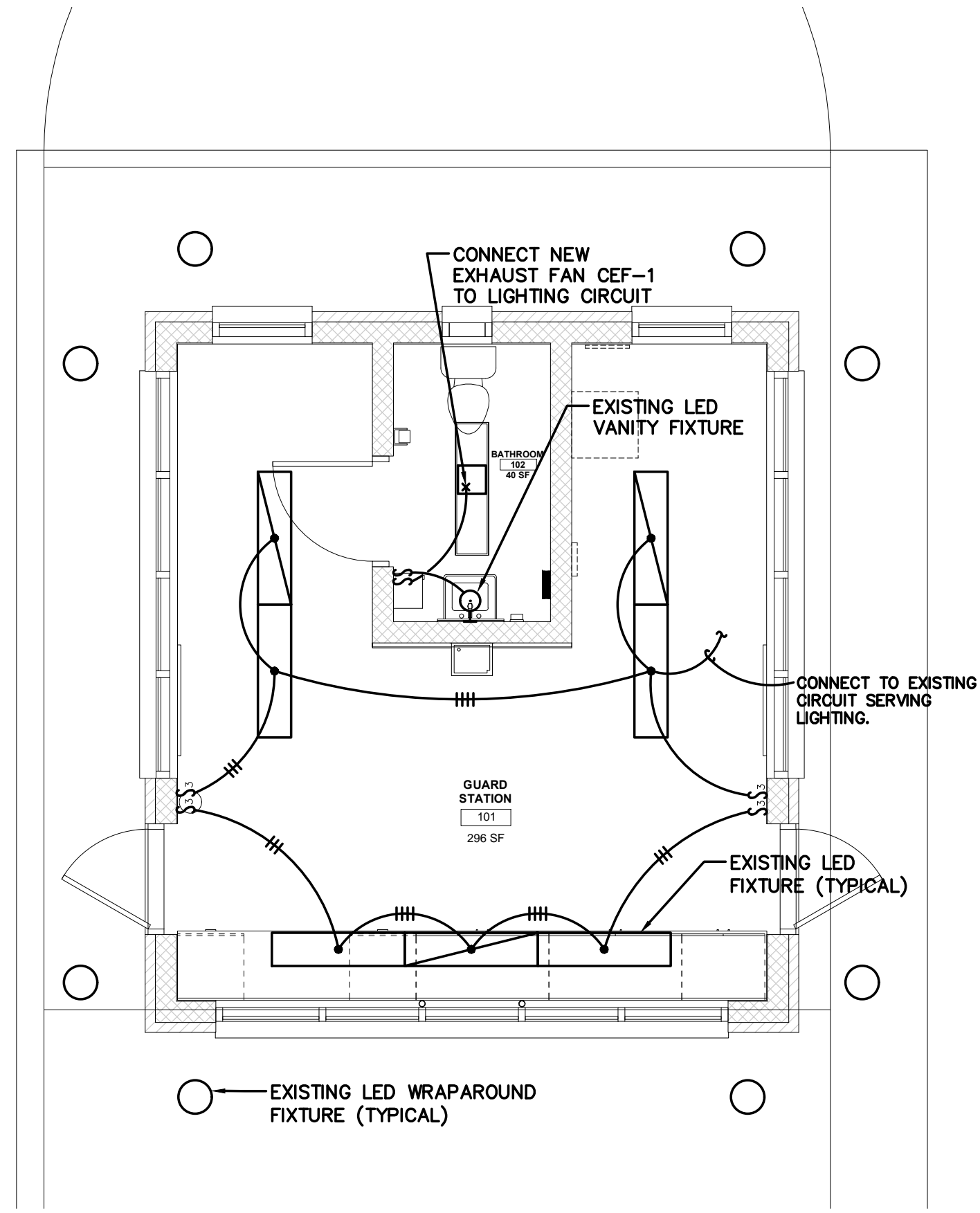
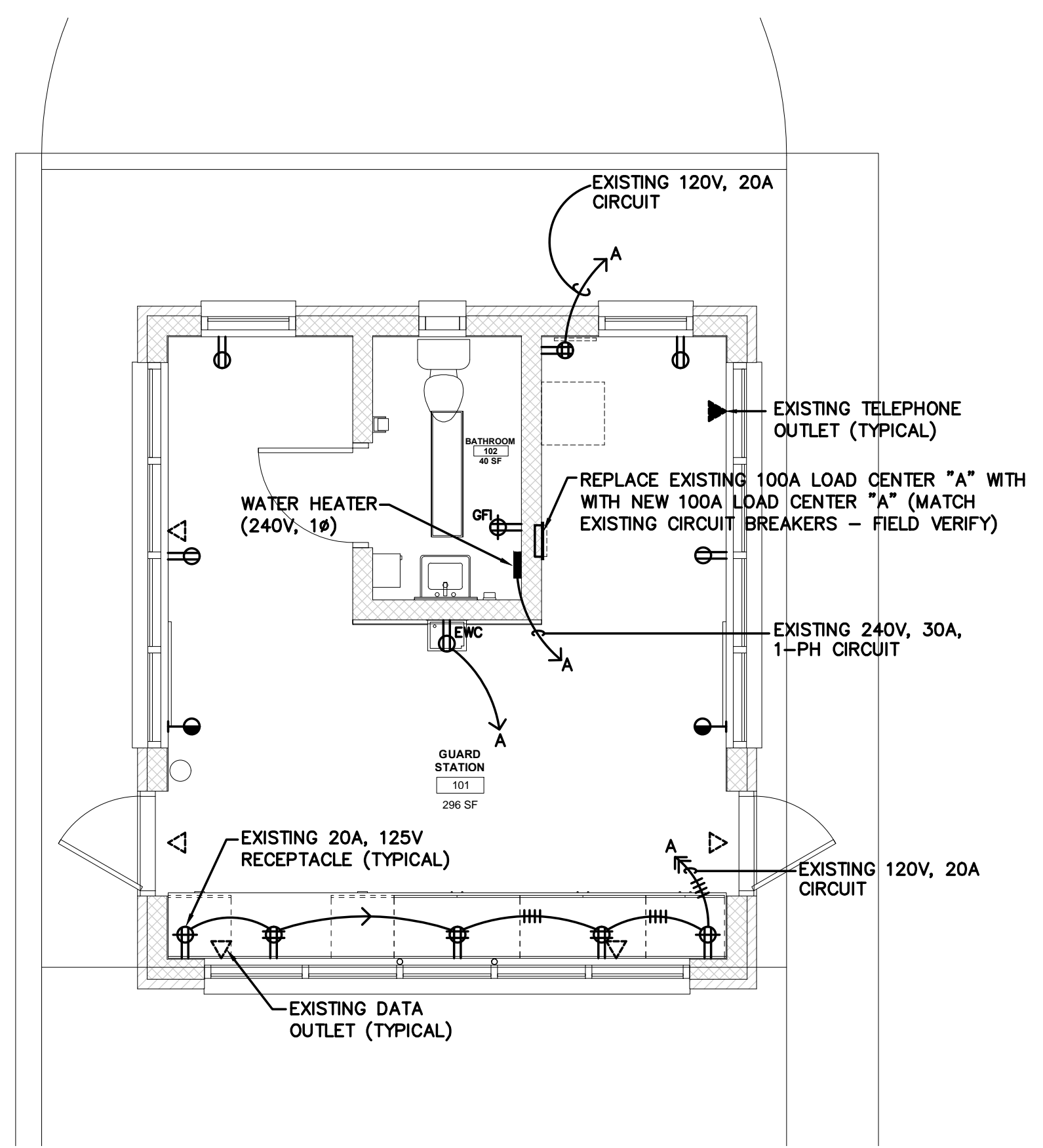


1 PARTIAL ELECTRICAL SITE PLAN
 E001 SCALE: N.T.S.



3 GUARD HOUSE - LIGHTING PLAN
 E001 SCALE: 1/4" = 1'-0"

LIGHTING FIXTURES, CIRCUITS AND SWITCHES ARE EXISTING TO REMAIN AND ARE SHOWN FOR REFERENCE ONLY



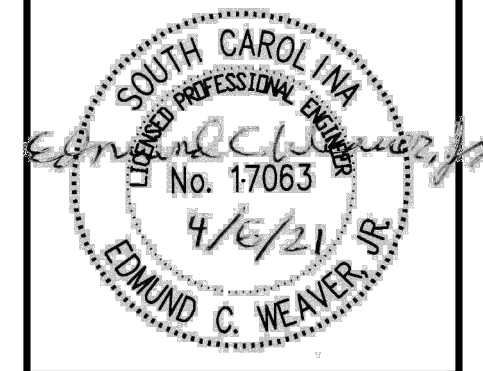
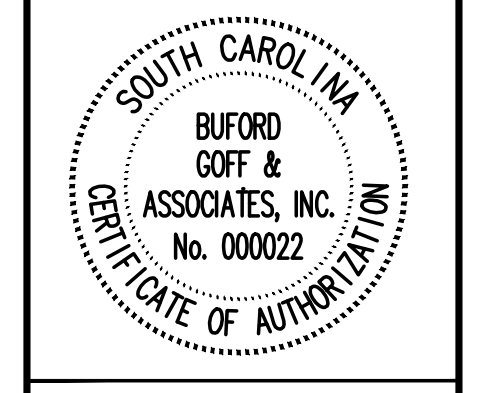
2 GUARD HOUSE - ELECTRICAL PLAN
 E001 SCALE: 1/4" = 1'-0"

EXCEPT FOR REPLACEMENT OF PANEL "A" AND RECONNECTION OF EXISTING BRANCH CIRCUITS TO NEW PANEL "A", ELECTRICAL DEVICES, TELE/ DATA OUTLETS AND CIRCUITS ARE EXISTING TO REMAIN AND ARE SHOWN FOR REFERENCE ONLY.

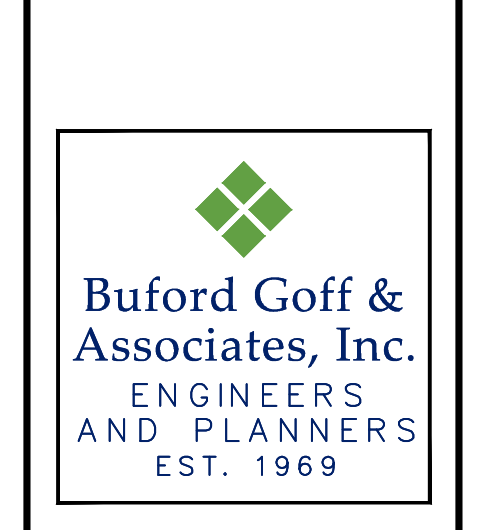
Project Engineer: ECW
 Drawn By: MTFH
 Revisions:

No.	Date
No.	Date
No.	Date
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No.	Date
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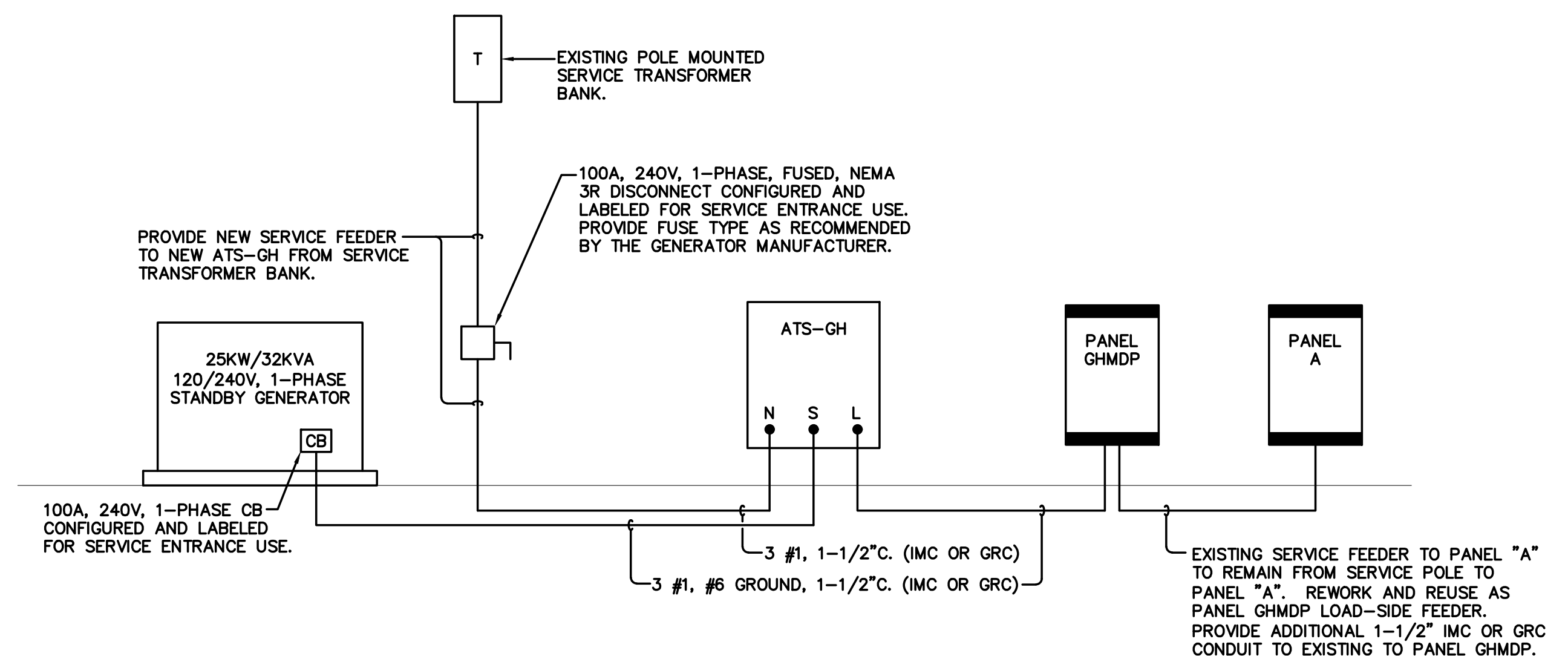
Project: SOUTH CAROLINA DEPARTMENT OF MENTAL HEALTH
 CFSH GUARD HOUSE STANDBY GENERATOR INSTALL
 STATE PROJECT NO. J12-N088-JM
 Sheet Title: ELECTRICAL PLANS



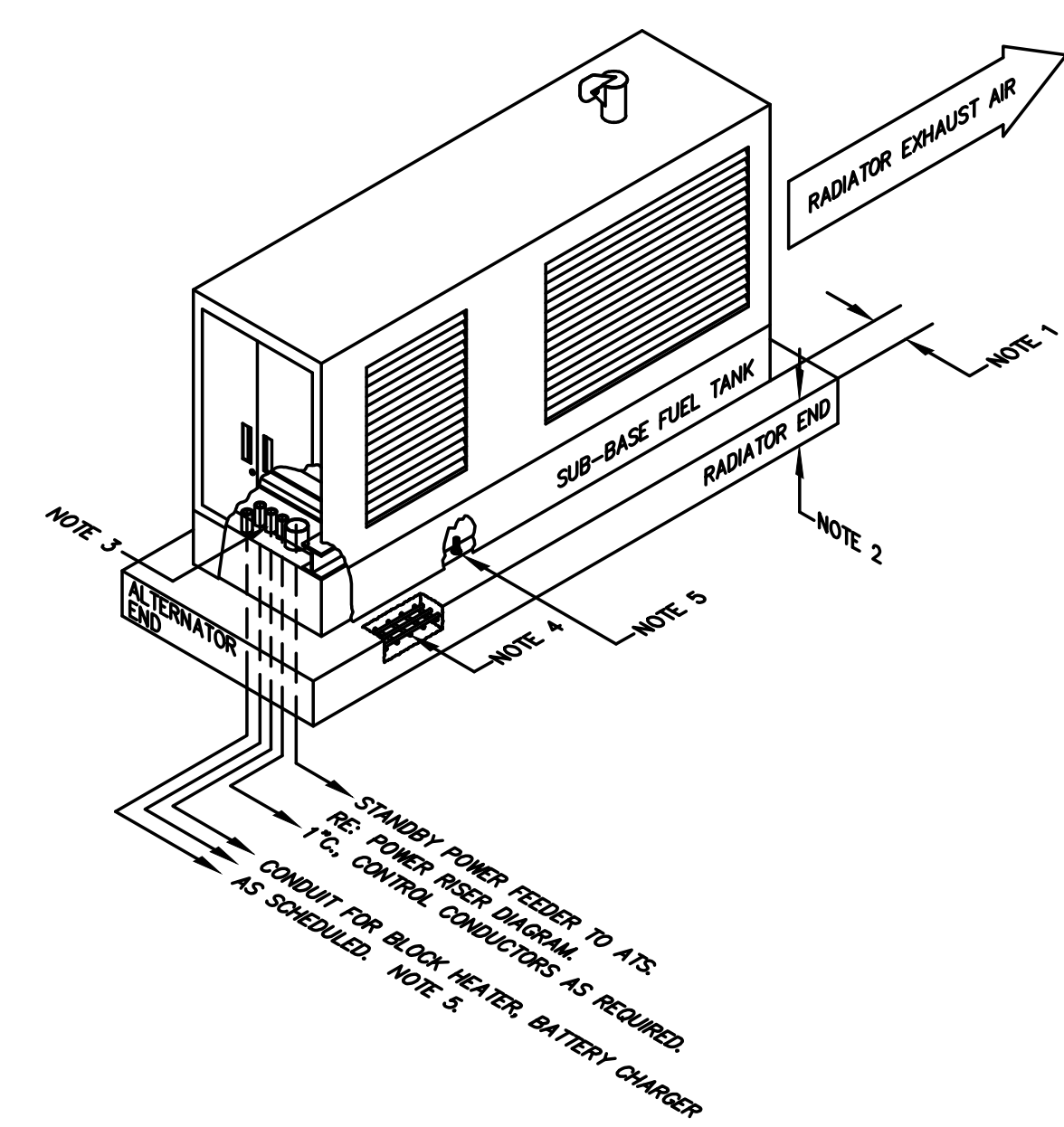
Sheet Number: E001
 Date: 04/06/2021
 Scale:
 BGA PROJECT NUMBER: 21010
 CONSTRUCTION DOCUMENTS

Panel: GHMDP (SERVICE ENTRANCE LABEL AND LISTING)													AIC (symm amperes): 35,000A			
Mains: 100A MCB													Mounting: Surface			
Voltage: 120/240V 1 Phase 3 Wire													Enclosure: NEMA 3R			
DESCRIPTION	CON	Ø	N	G	TRIP	POLES	#	Ø	#	POLES	TRIP	CON	Ø	N	G	DESCRIPTION
Service Receptacle	3/4"	12	12	12	20	1	1	A	2	2	90	1-1/2"	1	1	1	Panel "A"
Space					20	1	3	B	4	--	--					--
GEN. BLOCK HEATER	3/4"	10	--	10	30	2	5	A	6	1	20					Space
--	--	10			--	--	7	B	8							Space
GEN. BAT. CHARGER	3/4"	12	12	12	20	1P	9	A	10							Space
Space					20	1	11	B	12							Space

4 PANEL SCHEDULE
E002 SCALE: N.T.S



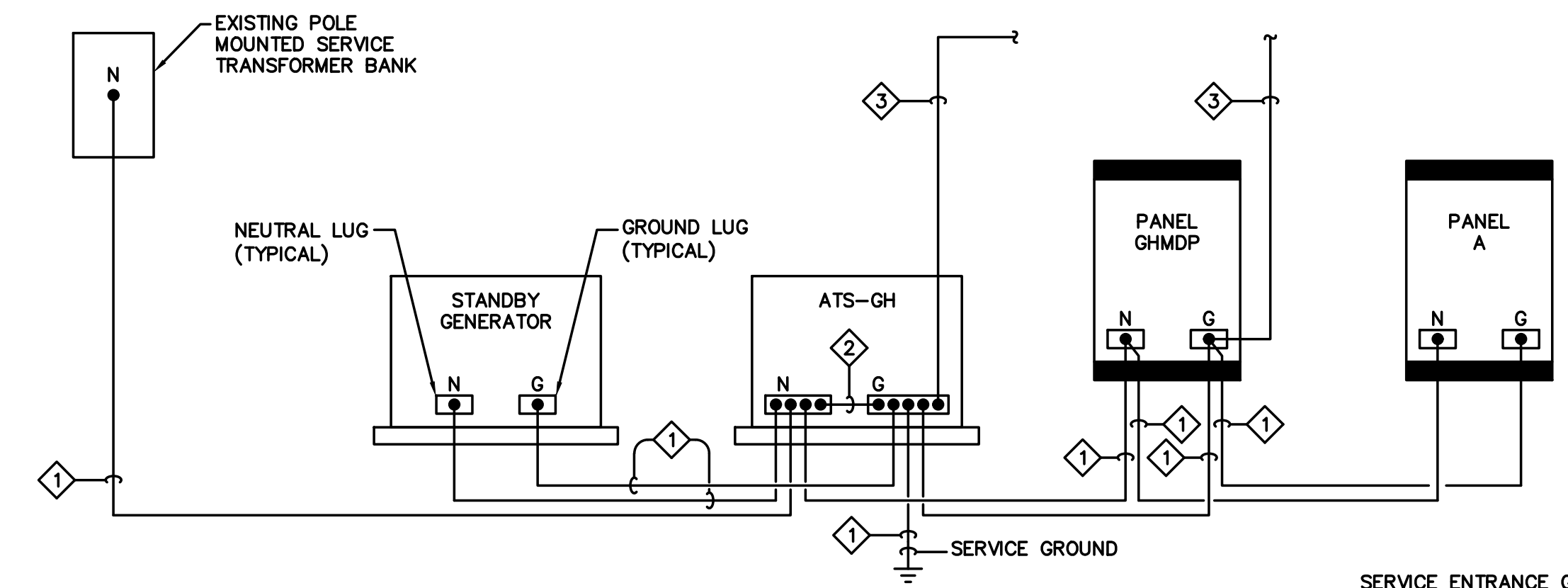
1 POWER RISER DIAGRAM
E002 SCALE: N.T.S



- DETAIL NOTES:
- MINIMUM 12" ON ALL SIDES.
 - FOUNDATION DEPTH SHALL BE CALCULATED BY:

$$FD = \frac{W}{D \times B \times L} \text{ (15" MINIMUM DEPTH)}$$
 WHERE:
 FD = FOUNDATION DEPTH IN m (ft)
 W = TOTAL WEIGHT OF GENERATOR SET PLUS FULL FUEL TANK IN kg (lb).
 D = DENSITY OF CONCRETE, (2403 FOR METRIC, 150 FOR ENGLISH)
 B = FOUNDATION WIDTH IN m (ft).
 L = FOUNDATION LENGTH IN m (ft).
 SUGGESTED CONCRETE MIXTURE BY VOLUME IS 1:2:3 OF CEMENT, SAND, AGGREGATE, WITH MAXIMUM 100MM (4 INCH) SLUMP AND 28-DAY COMPRESSIVE STRENGTH OF 20 MPa (3000PSI).
 - STUB UP CONDUIT FOR AUTOMATIC TRANSFER SWITCH CONTROLS, BLOCK HEATER, FEEDERS, ETC.
 - REINFORCE WITH NO. 8 GAUGE STEEL WIRE MESH OR EQUIVALENT, HORIZONTALLY PLACED ON 150MM (6 INCH) CENTERS. AN ALTERNATIVE METHOD PLACES NO. 6 REINFORCING BARS ON 300MM (12 INCH) CENTERS HORIZONTALLY. BARS SHOULD CLEAR FOUNDATION SURFACES 75 MM (3 INCH) MINIMUM.
 - PROVIDE CIRCUITS FOR GENERATOR ACCESSORIES. SEE PANELBOARD SCHEDULE.
 - THIS DRAWING IS FOR ESTABLISHING BASIS OF DESIGN FOR THE CONCRETE GENERATOR PAD ONLY. LOCATIONS OF ELECTRICAL STUBUPS AND GENERATOR/HOUSING DETAILS SHOWN ARE NOT TO SCALE AND SHALL BE BASED STRICTLY ON DETAILS FURNISHED BY THE GENERATOR MANUFACTURER.
 - SEE SPECIFICATION 26 3213 FOR MORE INFORMATION.

2 STANDBY GENERATOR PAD DETAIL
E002 SCALE: N.T.S

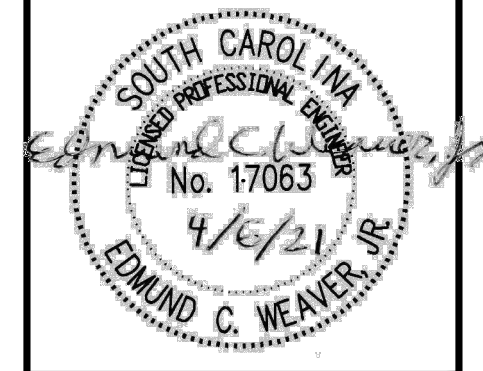


- SERVICE ENTRANCE GROUNDING DIAGRAM KEYNOTES:
- ① SEE POWER RISER, THIS SHEET, DETAIL NO. 1 FOR WIRE SIZE.
 - ② #6 AWG BONDING CONDUCTOR.

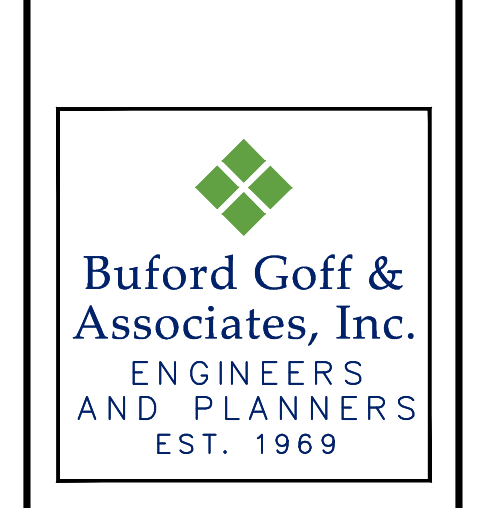
3 GROUNDING DIAGRAM
E002 SCALE: N.T.S

Project Engineer: ECW
 Drawn By: MTFH
 Revisions:
 No. _____ Date _____
 No. _____ Date _____
 No. _____ Date _____
 No. _____ Date _____
 No. _____ Date _____
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Project: SOUTH CAROLINA DEPARTMENT OF MENTAL HEALTH
 CFSSH GUARD HOUSE STANDBY GENERATOR INSTALL
 STATE PROJECT NO. J12-N088-JM
 Sheet Title: DETAILS



Sheet Number: E002
 Date: 04/06/2021
 Scale: NO SCALE
 BGA PROJECT NUMBER: 21010
 CONSTRUCTION DOCUMENTS