



SCHNEIDER REGIONAL MEDICAL CENTER
BATTERY ENERGY STORAGE SYSTEM
9048 SUGAR ESTATE
ST. THOMAS, USVI 00802

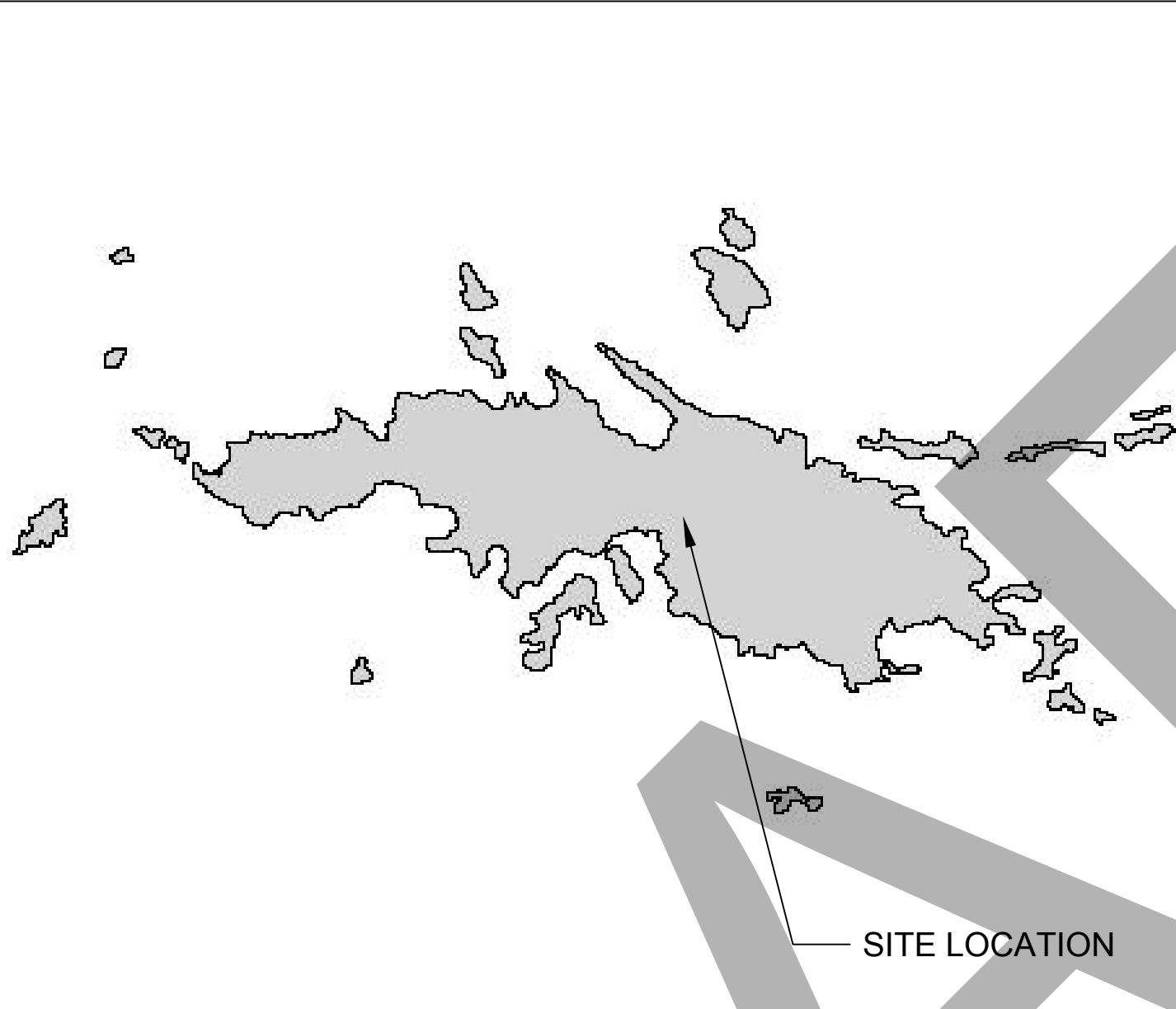


ENGINEER SEAL:

VICINITY MAP



LOCATION MAP



PROJECT SCOPE

PROJECTS INCLUDES THE INSTALLATION OF (2) BATTERY ENERGY STORAGE SYSTEMS AND ASSOCIATED EQUIPMENT TO PROVIDE A TOTAL OF 2 MW FOR A DURATION OF 4 HOURS OF BACKUP POWER TO THE SCHNEIDER REGIONAL MEDICAL CENTER.
ADDITIONAL EQUIPMENT INCLUDES BUT IS NOT LIMITED TO:
(1) STEP-UP PADMOUNTED TRANSFORMER
(1) STEP-DOWN STATION SERVICE TRANSFORMER
(1) 480V DISTRIBUTION SWITCHGEAR
(1) 15kV PADMOUNTED AUTOMATIC TRANSFER SWITCH
(1) 15kV PADMOUNTED SWITCHGEAR
(1) PADMOUNTED PRIMARY METERING CABINET

ENERGY STORAGE SYSTEM DESCRIPTION

MODEL	TBD
QUANTITY	2
POWER CAPACITY	979 kW EACH
MAXIMUM EXPORT TIME	4 HOURS AT RATED POWER CAPACITY
ENERGY CAPACITY	3916 kWh EACH

PROJECT PERSONNEL

AMBI BLYDEN, SYSTEM PLANNING VIRGIN ISLANDS WATER AND POWER AUTHORITY	OMARI GEORGE, SYSTEM PLANNING VIRGIN ISLANDS WATER AND POWER AUTHORITY
BRIAN WALDEN, VI ENERGIZE VIRGIN ISLANDS WATER AND POWER AUTHORITY	LeCHEEA SMITH, T&D AUTOMATION & OPERATIONS VIRGIN ISLANDS WATER AND POWER AUTHORITY
LEMUEL LAVINIER, CHIEF OPERATING OFFICER VIRGIN ISLANDS WATER AND POWER AUTHORITY	

AREA OF DEVELOPMENT

TYPE OF OCCUPANCY: COMMERCIAL	FEMA FLOOD ZONE: ZONE X (0.2% CHANCE OF FLOOD)
OWNER: GOVERNMENT OF THE VIRGIN ISLANDS	LATITUDE: 18.341335
SITE ADDRESS: #41 ESTATE THOMAS ST. THOMAS, VI. 00802	LONGITUDE: -64.916048
PROPERTY ID:	PROJECT AREA: 30ft x 70ft
OLG MAP NUMBER:	

DRAWING LIST

DRAWING NO.	SHEET NO.	DESCRIPTION
G001	1	COVER SHEET
G002	2	NOTES & ABBREVIATIONS
E101	3	SITE PLAN
E102	4	SINGLE LINE DIAGRAM
E103	5	EQUIPMENT LAYOUT / GROUNDING PLAN
E104	6	EQUIPMENT ELEVATION PLAN
E105	7	CONCRETE PAD DETAIL
E106	8	RELAY PANEL DIAGRAM
E107	9	COMMUNICATION DIAGRAM

DISCLAIMER

THIS PROJECT WAS FULLY AUTHORIZED BY THE MANAGEMENT AND STAFF OF THE VIRGIN ISLANDS WATER & POWER AUTHORITY TO IMPROVE THE RELIABILITY OF ELECTRICAL SERVICE TO THE SCHNEIDER REGIONAL MEDICAL CENTER.

THIS DESIGN AND ALL INFORMATION CONTAINED WITHIN IS THE PROPERTY OF THE VIRGIN ISLANDS WATER AND POWER AUTHORITY. NO PART OF THIS WORK MAY BE REPRODUCED OR COPIED IN ANY FORM WITHOUT THE WRITTEN PERMISSION OF THE VIRGIN ISLANDS WATER AND POWER AUTHORITY.

APPLICABLE CODES

TITLE 29 OF THE VIRGIN ISLANDS CODE
THE INTERNATIONAL BUILDING CODE
THE INTERNATIONAL ENERGY CONSERVATION CODE
THE NATIONAL ELECTRICAL SAFETY CODE (NESC)
NFPA 70: THE NATIONAL ELECTRICAL CODE (NEC)
NFPA 110: STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS CODE
NFPA 855: STANDARD FIR THE INSTALLATION OF STATIONARY ENERGY STORAGE SYSTEMS
IEEE 1547-2018: IEEE STANDARD FOR INTERCONNECTION AND INTEROPERABILITY OF DISTRIBUTED ENERGY RESOURCES

THIS IS A NON-EXHAUSTIVE LIST OF COMPLIANCE CODES.

PROJECT INFORMATION:
SCHNEIDER REGIONAL MEDICAL CENTER

2MW/4-HOUR BATTERY ENERGY STORAGE SYSTEM

VIWAPA PROJECT #
VI-EIC-2024-3

PROJECT LOCATION
SCHNEIDER REGIONAL MEDICAL CENTER
9048 SUGAR ESTATE
ST. THOMAS, VI. USA 00802
PHONE: (340) 776-8311

REVISIONS:

REV	DATE	DESCRIPTION
1	6/24/25	50% PROGRESS SET
2	3/17/26	ISSUED FOR REVIEW

TITLE:

COVER SHEET

DATE:	3/17/2026
DESIGNED BY:	OG, AB, LS, LL
DRAWN BY:	LS
CHECKED BY:	LL
SCALE:	AS INDICATED
DRAWING NO.:	SHEET NO.:
G001	1

GENERAL NOTES

- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. THE VIRGIN ISLANDS PLANNING AND NATURAL RESOURCES DEPARTMENT ENFORCES THE FOLLOWING CODES:
TITLE 29 OF THE VIRGIN ISLANDS CODE
THE INTERNATIONAL BUILDING CODE
THE INTERNATIONAL ENERGY CONSERVATION CODE
THE NATIONAL ELECTRICAL CODE
- THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ANY SPECIFICATION REQUIREMENTS THAT ARE IN EXCESS, BUT NOT IN CONFLICT WITH THE CODE REQUIREMENTS.
- ALL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. ALL MATERIALS SHALL BE OF THE BEST QUALITY FOR THE PURPOSE INTENDED.
- IT IS THE INTENT OF THESE SPECIFICATIONS AND DRAWINGS TO CALL FOR AN INSTALLATION THAT IS COMPLETE IN EVERY RESPECT. IT IS NOT THE INTENT TO GIVE EVERY DETAIL ON THE DRAWINGS AND IN THE SPECIFICATION. IF AN ITEM OF WORK IS SHOWN ON THE DRAWINGS, IT SHALL BE CONSIDERED SUFFICIENT FOR INCLUSION IN THE CONTRACT. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT USUALLY FURNISHED OR NEEDED TO MAKE A COMPLETE INSTALLATION, WHERE SPECIFICALLY MENTIONED OR NOT.
- TEST ALL WIRING FOR CONTINUITY AND GROUNDS BEFORE CONNECTING ANY DEVICE. PERFORM INSULATION RESISTANCE TESTS ON ALL WIRING TO ENSURE THAT ALL PORTIONS ARE FREE FROM SHORT CIRCUITS AND GROUNDS.
- THE ELECTRICAL CONTRACTOR SHALL ARRANGE AND DELIVER NECESSARY INSPECTION CERTIFICATIONS TO THE OWNER.
- GROUNDING SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
- ALL NEWLY INSTALLED ELECTRICAL EQUIPMENT AND ACCESSORIES SHALL BE NEW AND FREE OF DEFECTS. THEY SHALL BARE THE UL LABEL AND SHALL MEET THE NEMA AND ANSI STANDARDS.
- THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE OF THE WORK AND FAMILIARIZE THEMSELVES WITH ALL CONDITIONS RELATING TO THE WORK.
- UNLESS OTHERWISE NOTED, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE ENGINEER.
- THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING, AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT THE SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- THE CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS AND LEAVE THE PREMISES IN CLEAN CONDITION.
- UNTIL THE TIME OF INSTALLATION, THE ELECTRICAL ENGINEER RESERVES THE RIGHT TO MAKE MINOR CHANGES TO THE LOCATION OF CONDUIT AND EQUIPMENT WITHOUT ADDITIONAL COST TO THE CONTRACT.
- WHERE CONFLICTS OCCUR BETWEEN DRAWINGS AND SPECIFICATIONS, OR WITHIN EITHER DOCUMENT, THE CONTRACTOR SHALL ASK FOR AND OBTAIN A WRITTEN CLARIFICATION FROM THE ENGINEER PRIOR TO SUBMITTING HIS BID.
- LABOR AND MATERIALS NOT SHOWN OR SPECIFIED ON THE DRAWINGS BUT OBVIOUSLY NECESSARY FOR THE COMPLETION OF THE PROJECT AND PROPER FUNCTIONING OF THE SYSTEM, SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- DURING TESTING, ANY MATERIAL OR EQUIPMENT FAILING A TEST SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- APPLICABLE TEST INCLUDES BUT ARE NOT LIMITED TO:
 - MEASUREMENT OF LOAD ON EACH PHASE.
 - MEASUREMENT OF NO-LOAD AND FULL LOAD VOLTAGES (PHASE TO PHASE, PHASE TO NEUTRAL, AND PHASE TO GROUND FOR EACH PHASE OF EACH SERVICE) AT EACH NEWLY INSTALLED EQUIPMENT.
 - MEASUREMENT OF GROUND RESISTANCE.
 - MEASUREMENT OF INSULATION RESISTANCE.
 - ALL ADDITIONAL TEST REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
- ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.
- ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS UNLESS OTHERWISE SPECIFIED. ALL CONCRETING WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.
- ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS.
- THE CONTRACTOR SHALL ENSURE THAT ALL ITEMS TO BE FURNISHED FIT THE SPACE AVAILABLE. MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN CLEARANCE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS, AND PROVIDE SUCH SIZES AND SHAPES OF EQUIPMENT THAT FINAL INSTALLATION SATISFIES THE INTENT OF THE DRAWINGS AND SPECIFICATIONS.
- THE ELECTRICAL CONTRACTOR SHALL SUPPLY ALL SHOP DRAWINGS PRIOR TO PURCHASING ANY EQUIPMENT OR MATERIALS. A MANUFACTURER'S LIST SHALL BE SUBMITTED FOR REVIEW.

WIRING AND RACEWAY

- WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE 2023 NATIONAL ELECTRIC CODE.
- ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE AND INSPECTION MUST BE READILY ACCESSIBLE IN ACCORDANCE WITH 2023 NATIONAL ELECTRIC CODE.
- EACH END OF EVERY POWER AND GROUNDING CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION:
240/120V:
PHASE 1: BLACK
PHASE 2: RED
GROUNDED NEUTRAL: WHITE
GROUND: GREEN, GREEN WITH A YELLOW STRIPE, OR BARE WIRE

277/180V:
PHASE 1: BROWN
PHASE 2: ORANGE
PHASE 3: YELLOW
GROUNDED NEUTRAL: GRAY
GROUND: GREEN, GREEN WITH A YELLOW STRIPE, OR BARE WIRE
- ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS.
- ALL TIE WRAPS WHERE PERMITTED SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (12 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90C (WET AND DRY OPERATION), LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- RACEWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSIIIEEE, AND NEC.
- NONMETALLIC CONDUIT SUCH AS RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR SUBJECT TO PHYSICAL DAMAGE SHALL BE USED FOR EXPOSED INDOOR LOCATIONS AND UNDERGROUND IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
- GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) CAN BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- CABINETS, BOXES AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSIIIEEE, AND THE NATIONAL ELECTRICAL CODE.
- THE DRAWINGS SHOW THE GENERAL LAYOUT AND TYPICAL DETAILS. DRAWINGS ARE BASED ON SPECIFIED EQUIPMENT. RACEWAY LAYOUTS AND WIRING ARE SUBJECT TO APPROVED SHOP DRAWINGS.

- UNLESS OTHERWISE INDICATED, EXACT ROUTING OF RACEWAYS SHALL BE DETERMINED BY THE ELECTRICAL CONTRACTOR TO SUIT PROJECT REQUIREMENTS AND FIELD CONDITIONS.
- PROVIDE SEPARATE RACEWAYS, JUNCTION BOXES, PULL BOXES AND WIREWAYS FOR ALL EMERGENCY SYSTEM WIRING.

WIRING INSTALLATION

- DO NOT USE WIRE SMALLER THAN NO. 12 AWG FOR ANY POWER OR LIGHTING CIRCUIT. USE LARGER SIZES WHERE INDICATED AS REQUIRED BY THE 2023 NATIONAL ELECTRIC CODE AS FOLLOWS:
30 AMPERE CIRCUIT: NO. 10 AWG
40 AMPERE CIRCUIT: NO. 8 AWG
50 AMPERE CIRCUIT: NO. 6 AWG
60 AMPERE CIRCUIT: NO. 4 AWG
- DO NOT USE WIRE SMALLER THAN NO. 14 AWG FOR CONTROL CIRCUITS UNLESS OTHERWISE RECOMMENDED BY THE EQUIPMENT OR SYSTEM MANUFACTURER ON WIRING SHOP DRAWINGS.
- WHERE GREATER THAN THREE (3) CURRENT-CARRYING CONDUCTORS ARE INSTALLED IN ANY ONE CONDUIT OR CABLE, CONDUCTORS MUST BE DERATED AND SIZES INCREASED, IF NEEDED, TO ACCOMMODATE CONDUCTOR DERATING AS REQUIRED BY ARTICLE 310 OF THE NATIONAL ELECTRICAL CODE.
- CONDUCTORS SHALL BE COMPLETELY INSTALLED AND CONNECTED. PROVIDE ALL TERMINALS, LUGS, AND CONNECTORS TO SUIT THE APPLICATION, AND IN COMPLIANCE WITH EQUIPMENT THE MANUFACTURER'S RECOMMENDATIONS.
- UNDER NO CIRCUMSTANCES SHALL ANY SWITCH OR CIRCUIT BREAKERS BREAK A NEUTRAL CONDUCTOR.
- THE CIRCUIT NUMBERS INDICATED ON THE DRAWINGS ARE INTENDED AS A GUIDE FOR THE PROPER CONNECTION OF CIRCUITS AT PANELBOARDS. HOWEVER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE PANELBOARD LOADS ARE BALANCED AS EVENLY AS POSSIBLE.
- PROVIDE SEPARATE NEUTRALS FOR EACH CIRCUIT. WHERE MULTIPLE CIRCUITS ARE INSTALLED IN THE SAME RACEWAY OR ENCLOSURE, IDENTIFY NEUTRALS WITH CORRESPONDING BRANCH CIRCUIT PHASE CONDUCTOR NUMBERS.

CONDUCTORS 600V

- CONDUCTORS SHALL BE COPPER HAVING A CONDUCTIVITY OF AT LEAST 98 PERCENT. NUMBER 14 AND 12 CONDUCTORS MAY BE SOLID OR STRANDED. NUMBER 10 AND LARGER CONDUCTORS AND ALL CONTROL CONDUCTORS SHALL BE STRANDED. BUILDING FEEDER CONDUCTORS, BRANCH CIRCUIT CONDUCTORS, CONTROL CONDUCTORS AND EXTERIOR CONDUCTORS SHALL BE NATIONAL ELECTRICAL CODE 600-VOLT TYPE HAVING THWN/THHN INSULATION, UNLESS NOTED ELSEWHERE.

ELECTRICAL EQUIPMENT ENCLOSURE RATING

- EQUIPMENT SHALL BE NEMA 2 RATED WHEN INDOOR AND NEMA 4 WHEN OUTDOOR. OUTDOOR DEVICES SHALL BE SUITABLY RATED FOR THEIR ENVIRONMENT.

AS-BUILT

- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A REDLINE SET OF PROJECT DRAWINGS.
- PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS REFLECTING AS INSTALLED CONDITIONS. THE DRAWINGS SHALL INCLUDE DETAILS AS NECESSARY TO CLEARLY REFLECT THE INSTALLED CONDITION. DRAWINGS SHALL BE BOUND IN A COMPLETE AND CONSECUTIVE SET. THEY SHALL BE SUBMITTED IN BOTH HARD COPY AND ELECTRONIC (AUTO-CAD VERSION AS REQUIRED BY THE OWNER) VERSION. NUMBER OF COPIES OF EACH AS REQUESTED BY THE OWNER.
- AS-BUILT DRAWINGS SHALL INCLUDE APPROVE SUBSTITUTIONS, CONTRACT MODIFICATIONS, AND ACTUAL EQUIPMENT AND MATERIALS INSTALLED.
- THE DRAWINGS SUBMITTED SHALL ALSO INCLUDE A COMPLETE MAINTENANCE MANUAL OF ALL EQUIPMENT INSTALLED UNDER THIS PROJECT.

EQUIPMENT ACCEPTANCE FROM MANUFACTURER / VENDOR

- ALL NEWLY PURCHASED EQUIPMENT SHALL BE INSPECTED UPON RECEIPT TO DETERMINE IF ANY DAMAGE IS EVIDENT. A CLAIM SHOULD BE FILED IF DAMAGE IS EVIDENT. PHOTOGRAPHS OF ANY DAMAGE SHOULD BE SUBMITTED TO THE OWNER.

MANUFACTURER INSTALLATION RECOMMENDATIONS

- ALL NEWLY PURCHASED EQUIPMENT AND INSTALLED WIRING SHALL MEET OR EXCEED THE RECOMMENDATION AND SPECIFICATIONS OF THE MANUFACTURER.
- WHERE THERE IS A CONFLICT BETWEEN THE ELECTRICAL ENGINEER'S DESIGN AN THE MANUFACTURER'S RECOMMENDATION, THE MANUFACTURER'S RECOMMENDATION SHALL BE DEFAULTED TO.

ELECTRICAL ABBREVIATIONS

A:	AMPERES
AMP:	AMPERES
AC:	ALTERNATING CURRENT
AHJ:	AUTHORITY HAVING JURISDICTION
AMP(S):	AMPERAGE
AWG:	AMERICAN WIRE GAUGE
ATS:	AUTOMATIC TRANSFER SWITCH
COMM	COMMUNICATION
CU:	COPPER
CT:	CURRENT TRANSFORMER
E:	EXISTING
EPR:	ETHYLENE PROPYLENE RUBBER
EW:	EACH WAY
FDR:	FEEDER
GENSET:	GENERATOR SET
GRD:	GROUND
HVAC:	HEATING, VENTILATION, AND AIR CONDITIONING
HZ:	HERTZ
IMC:	INTERMEDIATE METAL CONDUIT
KCMIL:	THOUSANDS OF CIRCULAR MILS
KV:	KILOVOLT
KVA:	KILOVOLT-AMPERE
KW:	KILOWATTS
KWH:	KILOWATT-HOUR
LS:	LONG-TIME TRIP, SHORT-TIME TRIP
LVCB:	LOW VOLTAGE CIRCUIT BREAKER
MAX:	MAXIMUM
MCM:	THOUSANDS OF CIRCULAR MILS
MIN:	MINIMUM
NEC:	NATIONAL ELECTRIC CODE
N:	NEW
NTS:	NOT TO SCALE
O.C:	ON CENTER
OCPD:	OVERCURRENT PROTECTIVE DEVICE
PF:	POWER FACTOR
PBL:	PANELBOARD
PSI:	POUND PER SQUARE INCH
PVC:	POLYVINYL CHLORIDE
REBAR:	REINFORCING BAR
SLD:	SINGLE LINE DIAGRAM
T&B:	TOP AND BOTTOM
THHN:	THERMOPLASTIC HIGH HEAT RESISTANT NYLON-COATED
THWN:	THERMOPLASTIC HEAT AND WATER-RESISTANT NYLON-COATED
TYP	TYPICAL
TX:	TRANSFORMER
UPS:	UNINTERRUPTIBLE POWER SUPPLY
UG:	UNDERGROUND
UL:	UNDERWRITERS LABORATORIES
V:	VOLTAGE
VAC:	VOLTS OF ALTERNATING CURRENT
VIWAPA:	VIRGIN ISLANDS WATER AND POWER AUTHORITY
W:	WATTS
W:	WITH
XFMR:	TRANSFORMER
Ø:	PHASE
2P:	TWO-POLE
3P:	THREE-POLE
3W:	THREE-WIRE
4W:	FOUR-WIRE

COMPANY:



ENGINEER SEAL:

PROJECT INFORMATION:

SCHNEIDER REGIONAL MEDICAL CENTER

2MW/4-HOUR BATTERY ENERGY STORAGE SYSTEM

VIWAPA PROJECT # VI-EIC-2024-3

PROJECT LOCATION

SCHNEIDER REGIONAL MEDICAL CENTER
9048 SUGAR ESTATE
ST. THOMAS, VI. USA 00802
PHONE: (340) 776-8311

REVISIONS:

REV	DATE	DESCRIPTION
1	6/24/25	50% PROGRESS SET
2	3/17/26	ISSUED FOR REVIEW

TITLE:

NOTES

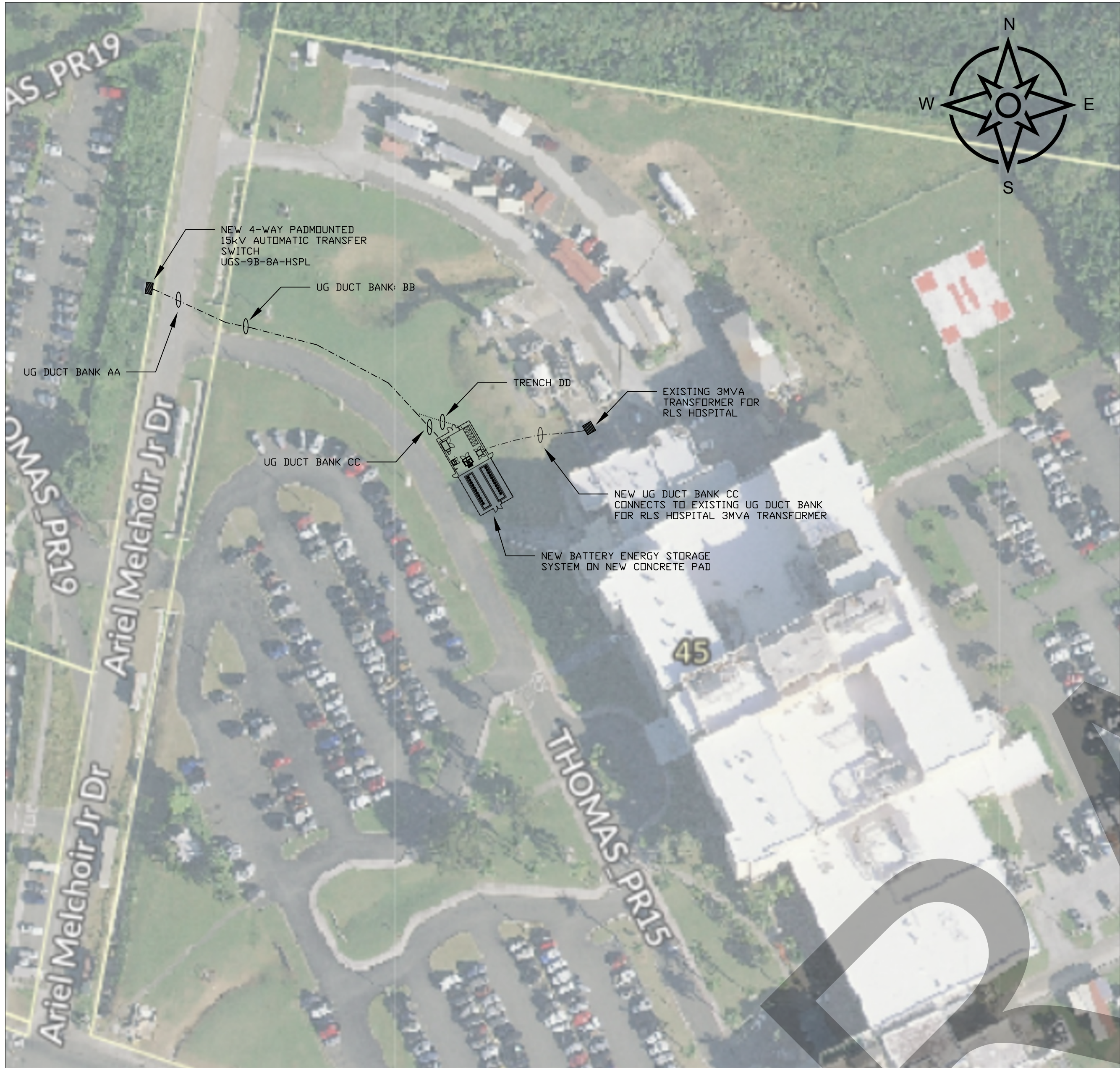
DATE: 3/17/2026
DESIGNED BY: OG, AB, LS, LL
DRAWN BY: LS
CHECKED BY: LL
SCALE: AS INDICATED

DRAWING NO.:

G002

SHEET NO.:

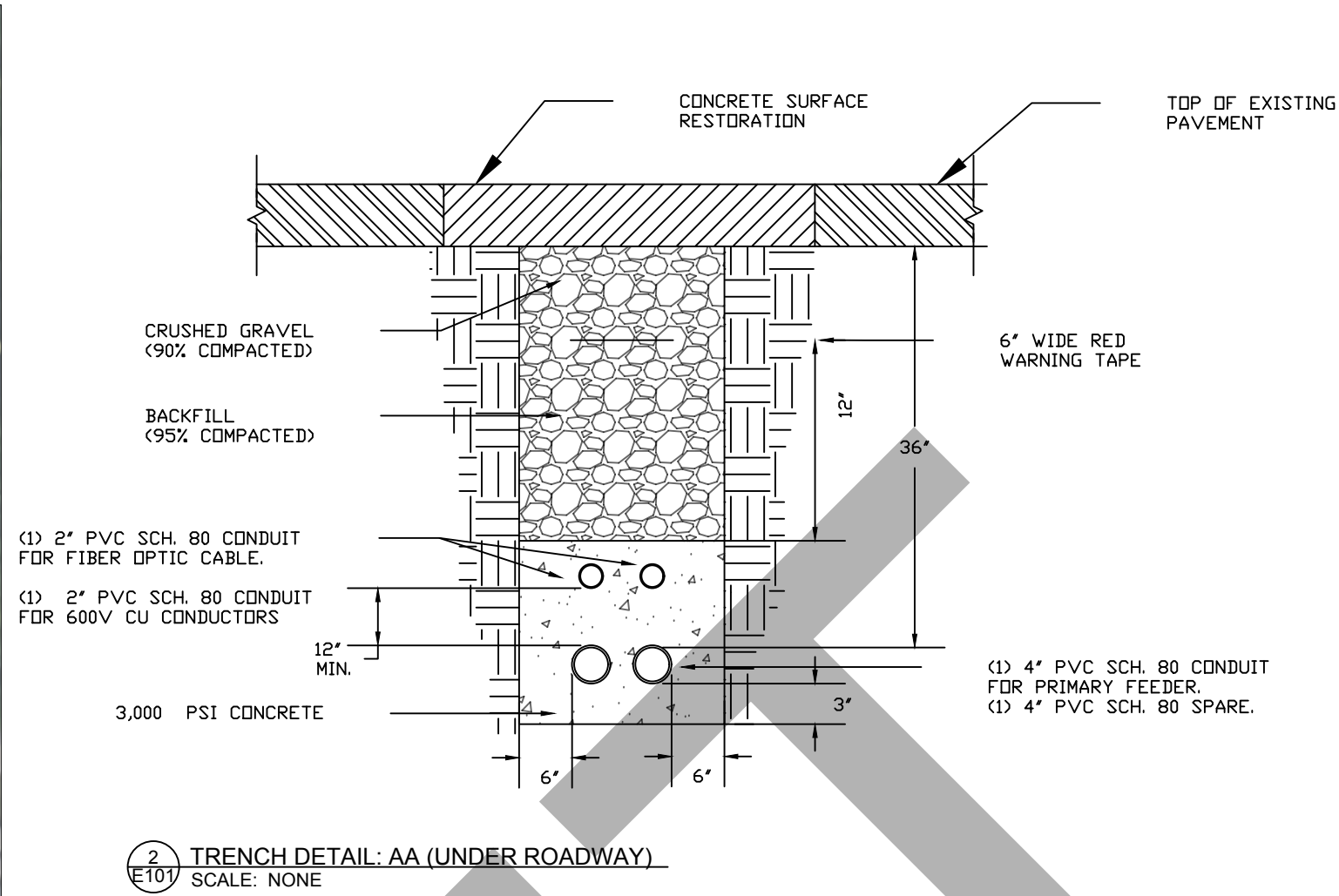
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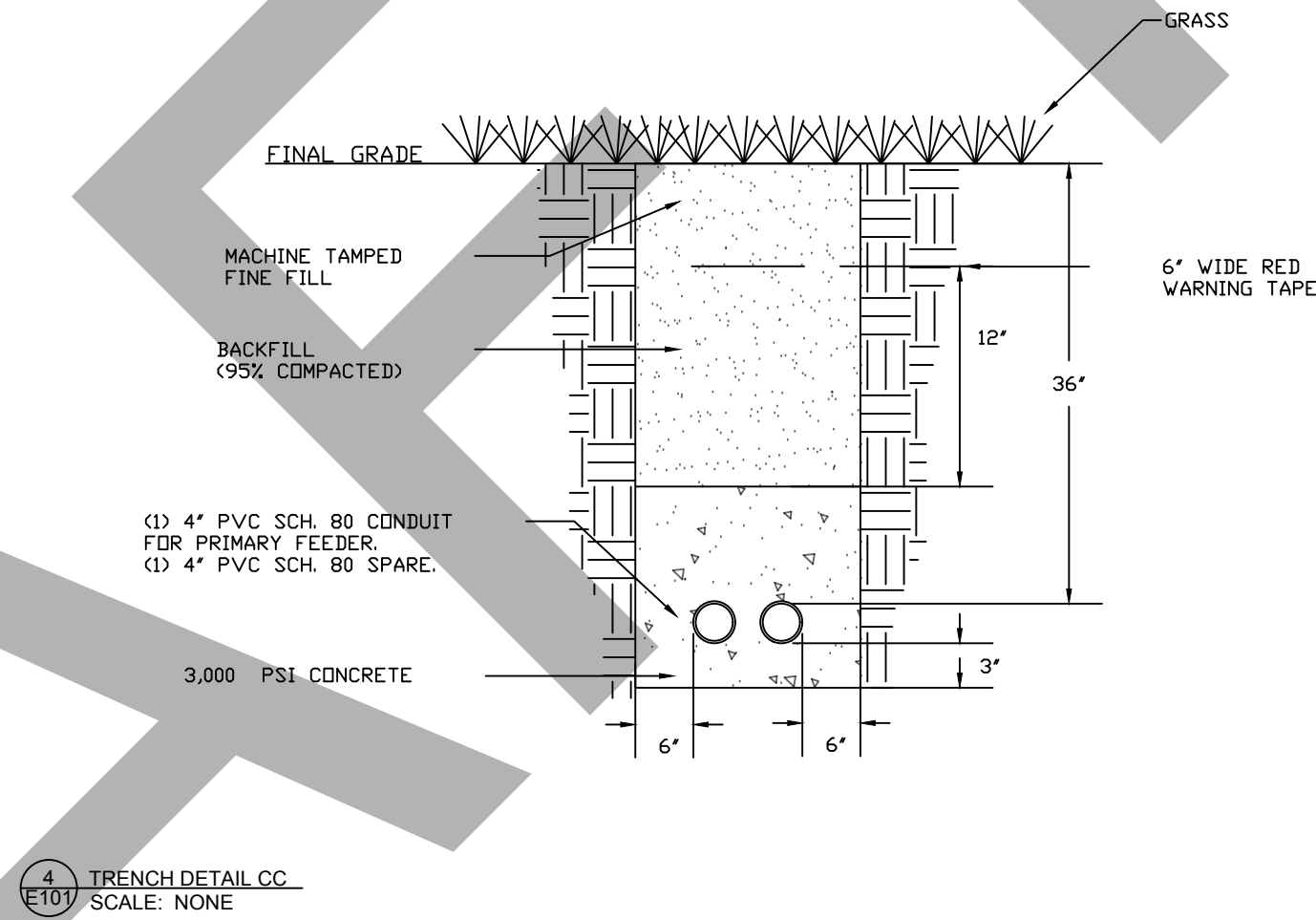
1 SITE PLAN
E101 SCALE: NONE

DUCT BANK NOTES:

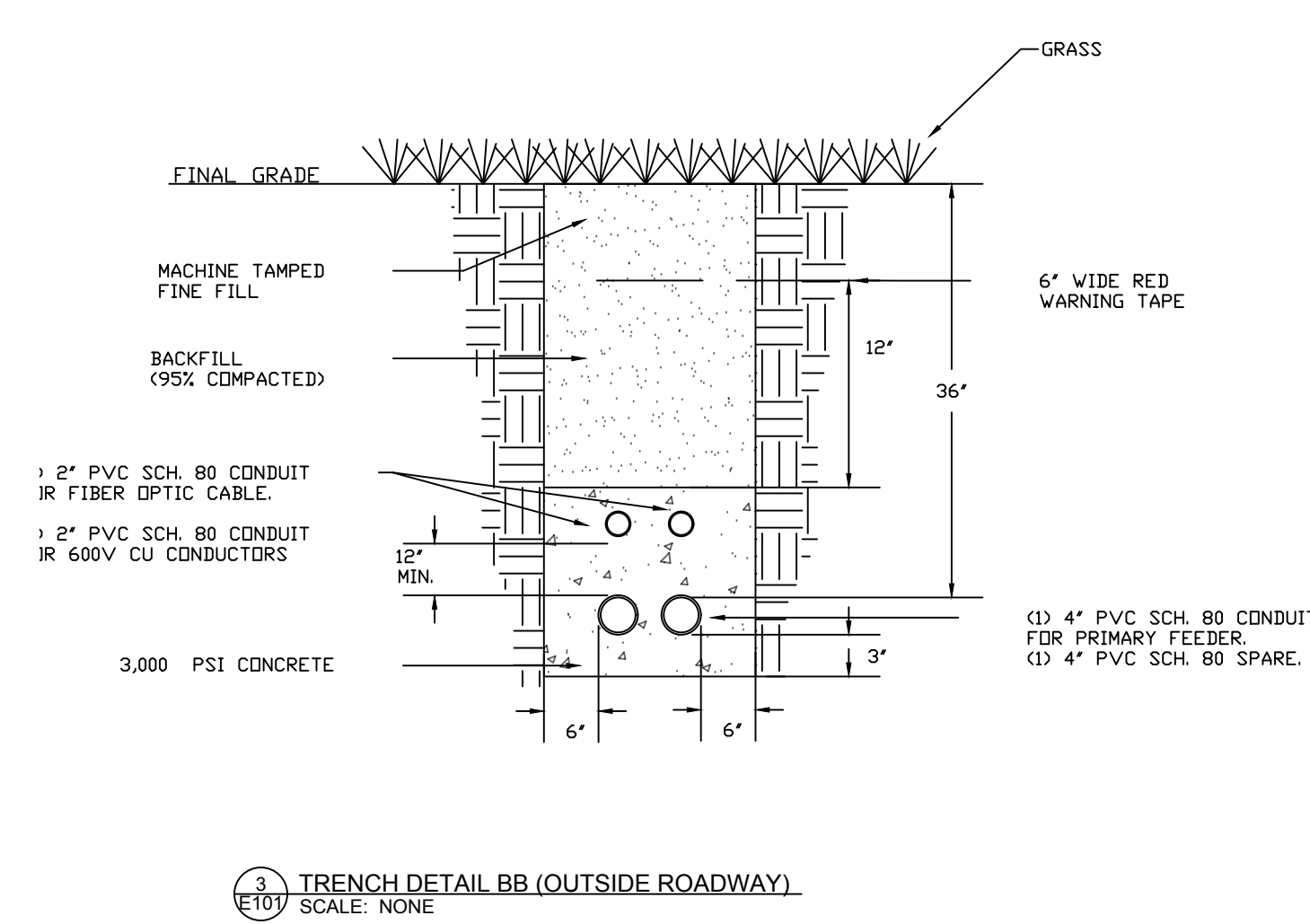
1. THE ELECTRICAL CONTRACTOR SHALL CONNECT THE NEW 'CC' DUCT BANK FROM THE PADMOUNTED PRIMARY METERING CABINET TO THE EXISTING DUCT BANK FROM UGS-9B-BA-HSPL SWITCHGEAR TO THE RLS HOSPITAL 3 MVA TRANSFORMER. THE OLD CABLES SHALL BE REMOVED AND NEW CABLES SHALL BE RAN AND TERMINATED.
2. THE LOCATION OF THE RLS HOSPITAL DUCT BANK ON THE SITE PLAN IS APPROXIMATE. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING THE DUCT BANK.



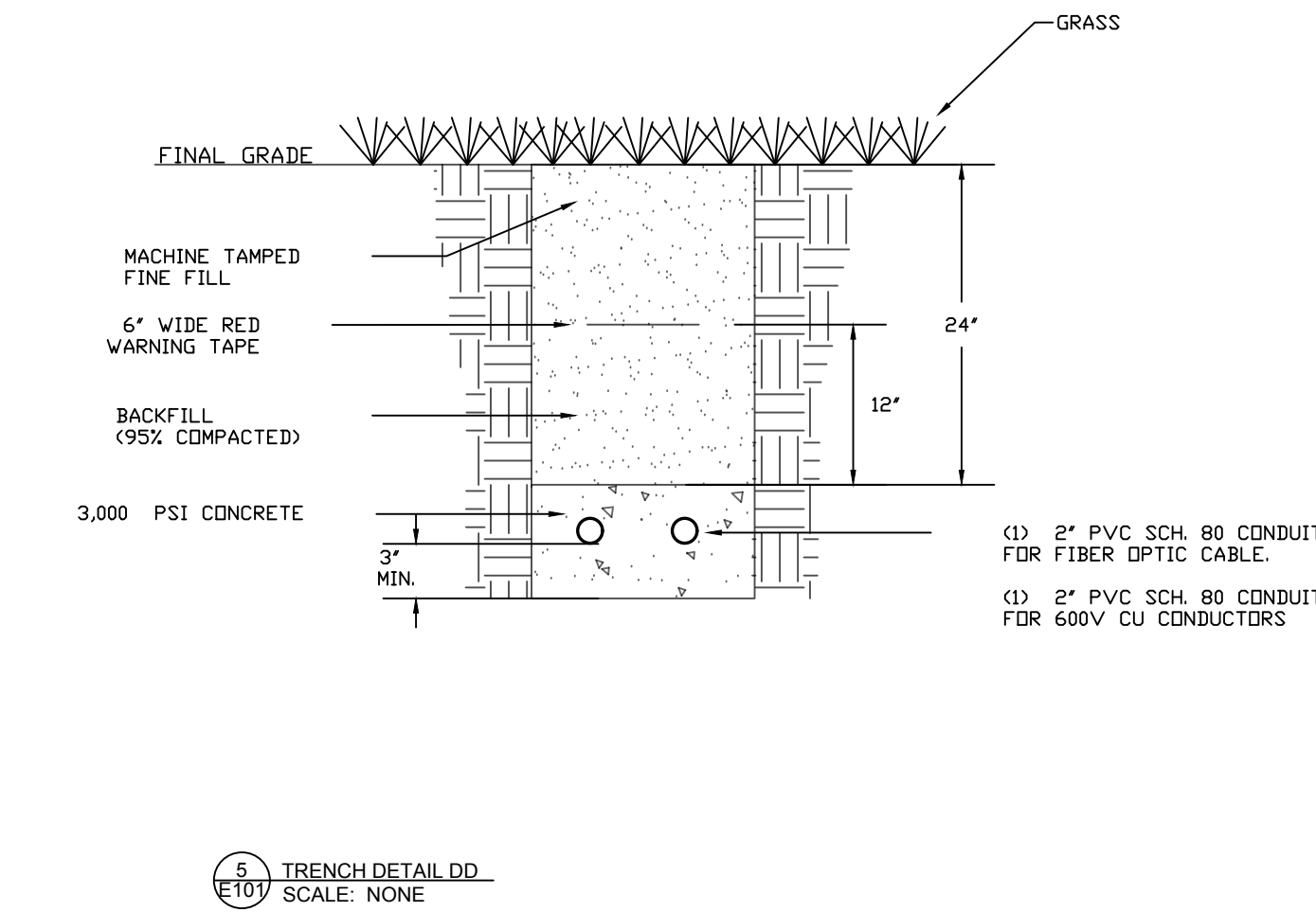
2 TRENCH DETAIL AA (UNDER ROADWAY)
E101 SCALE: NONE



4 TRENCH DETAIL CC
E101 SCALE: NONE



3 TRENCH DETAIL BB (OUTSIDE ROADWAY)
E101 SCALE: NONE



5 TRENCH DETAIL DD
E101 SCALE: NONE

COMPANY:



ENGINEER SEAL:

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SITE PLAN

DATE: 3/17/2026

DESIGNED BY: OG, AB, LS, LL

DRAWN BY: LS

CHECKED BY: LL

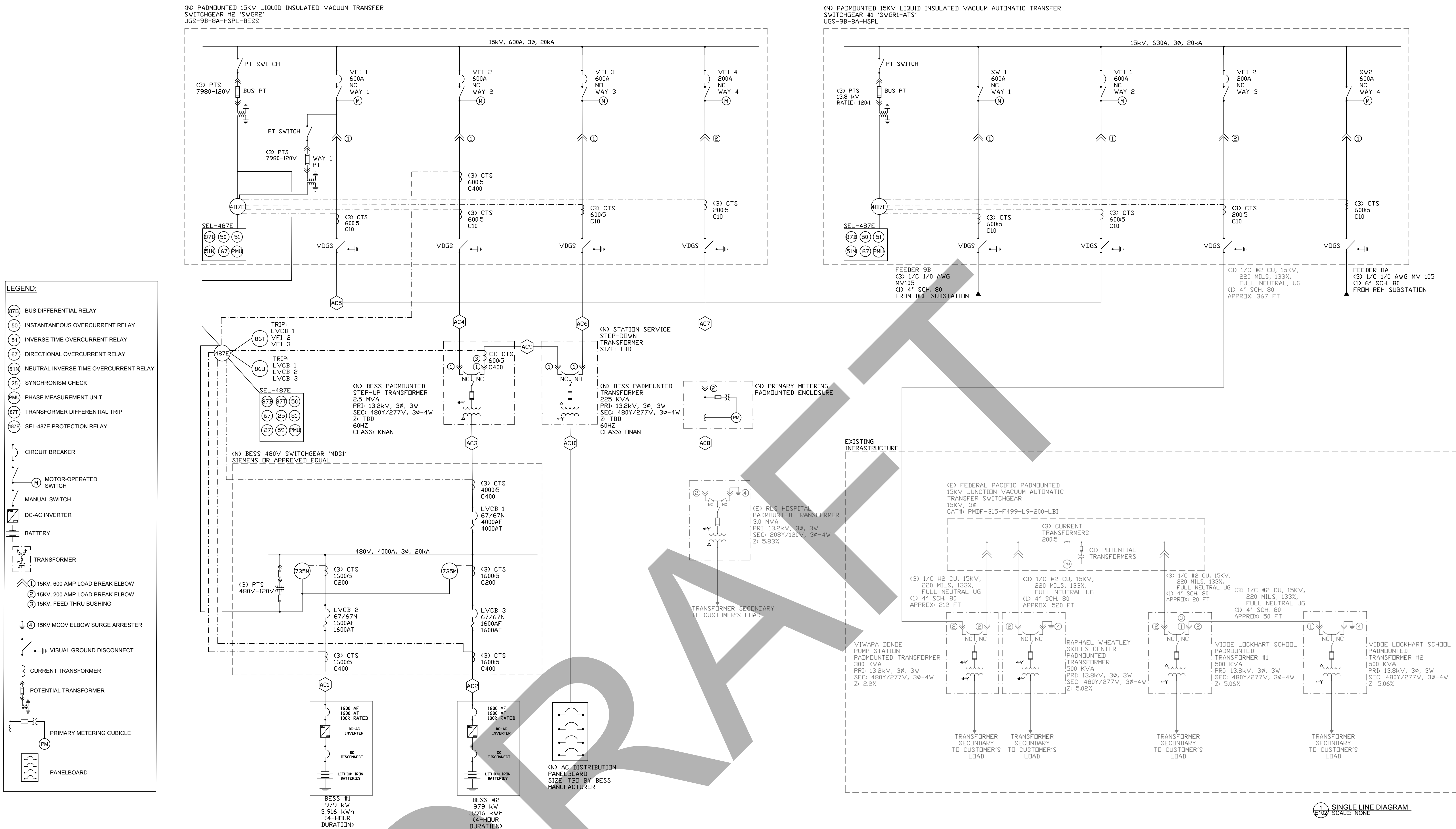
SCALE: AS INDICATED

DRAWING NO.:

E101

SHEET NO.:

3



COMPANY:

ENGINEER SEAL:

PROJECT INFORMATION:

SCHNEIDER REGIONAL MEDICAL CENTER

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TITLE:

SINGLE LINE DIAGRAM

DATE: 3/17/2026

DESIGNED BY: OG, AB, LS, LL

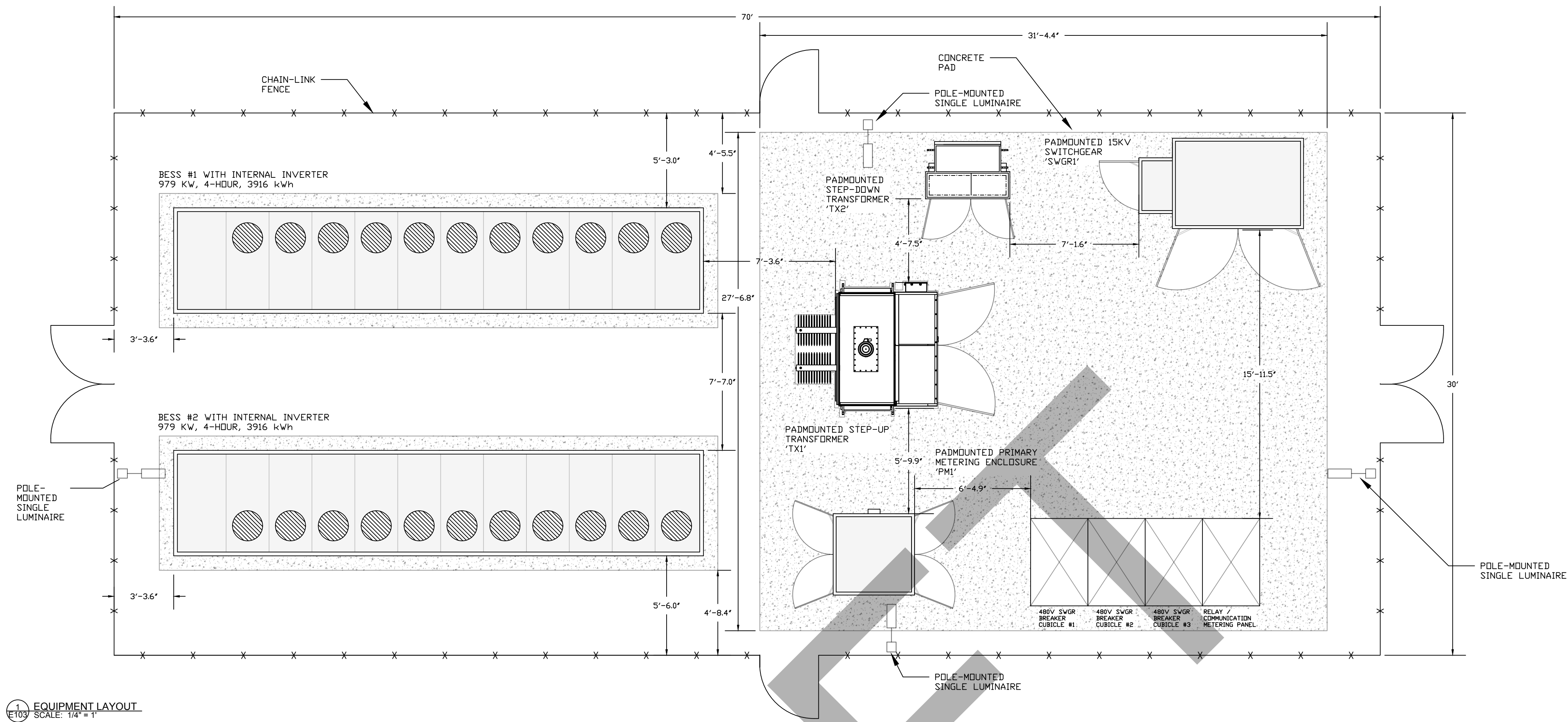
DRAWN BY: LS

CHECKED BY: LL

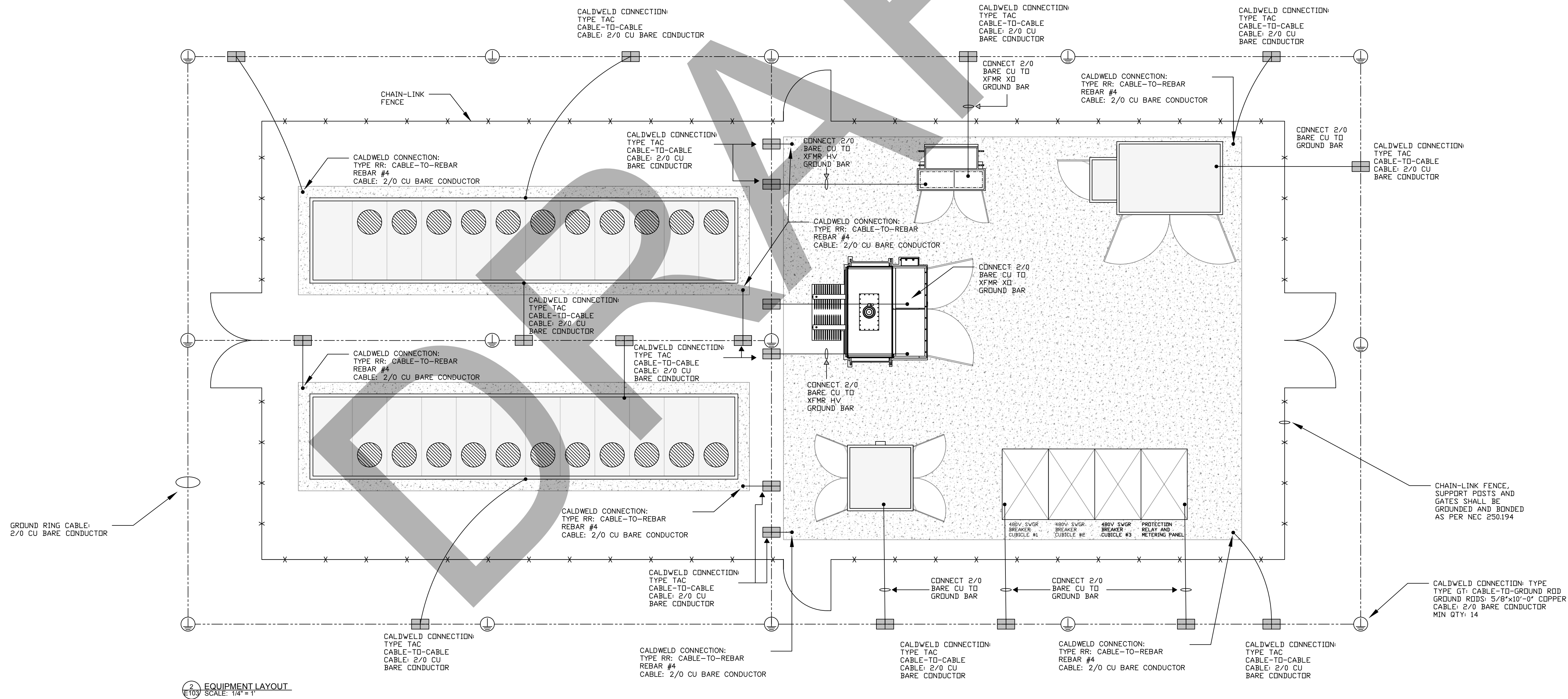
SCALE: AS INDICATED

DRAWING NO.: E102

SHEET NO.: 4



1 EQUIPMENT LAYOUT
E103 SCALE: 1/4" = 1'



2 EQUIPMENT LAYOUT
E103 SCALE: 1/4" = 1'



ENGINEER SEAL:

PROJECT INFORMATION:
SCHNEIDER REGIONAL MEDICAL CENTER

2MW/4-HOUR BATTERY ENERGY STORAGE SYSTEM

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TITLE:

EQUIPMENT LAYOUT GROUND PLAN

DATE: 3/17/2026

DESIGNED BY: OG, AB, LS, LL

DRAWN BY: LS

CHECKED BY: LL

SCALE: AS INDICATED

DRAWING NO.:

E103

SHEET NO.:

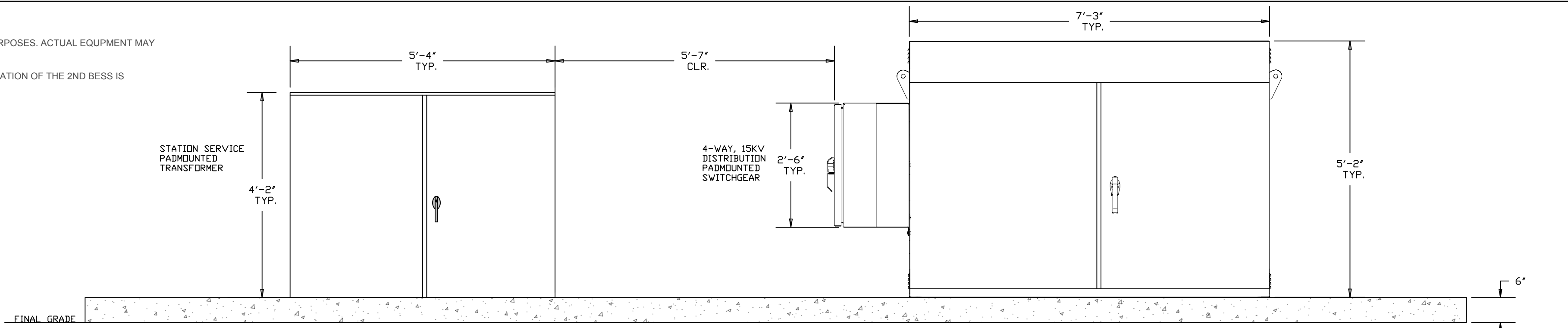
5

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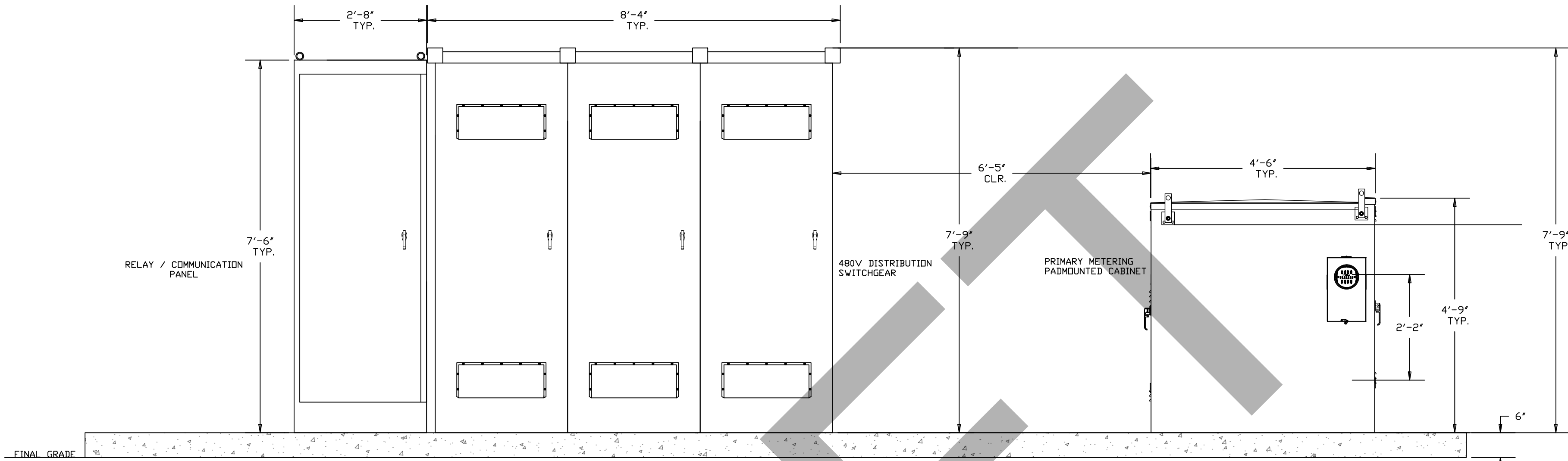
1. EQUIPMENT GRAPHICS ARE FOR VISUALIZATION PURPOSES. ACTUAL EQUIPMENT MAY DIFFER SLIGHTLY FROM WHAT IS REPRESENTED.

2. BESS ELEVATION SHOWS A SINGLE BESS. THE ELEVATION OF THE 2ND BESS IS IDENTICAL.

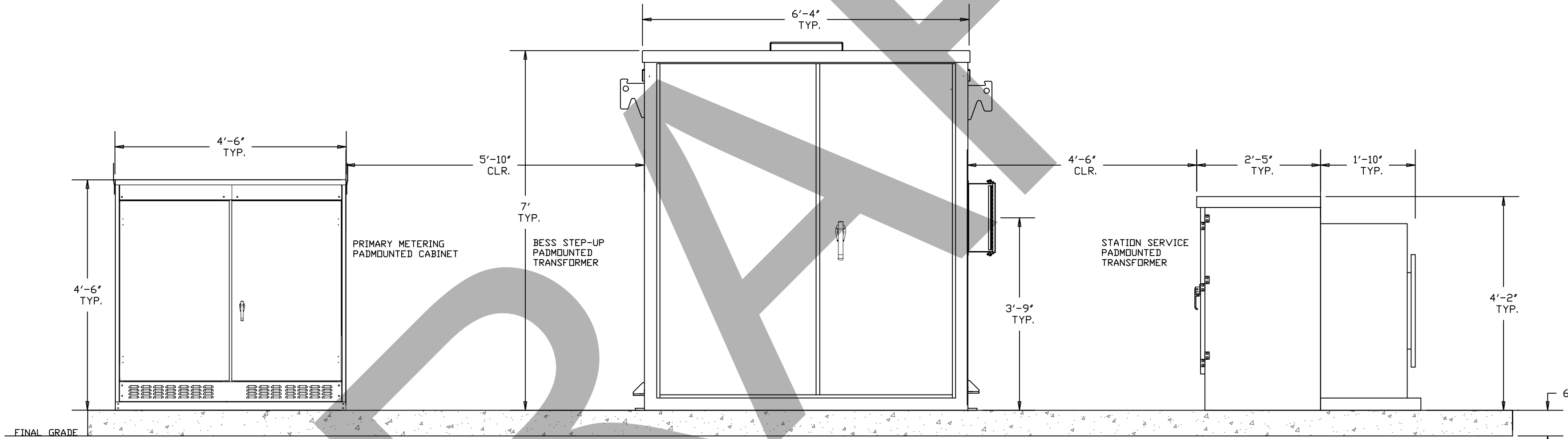
1 BESS EQUIPMENT PAD: SOUTH ELEVATION
E104 SCALE: 1:20



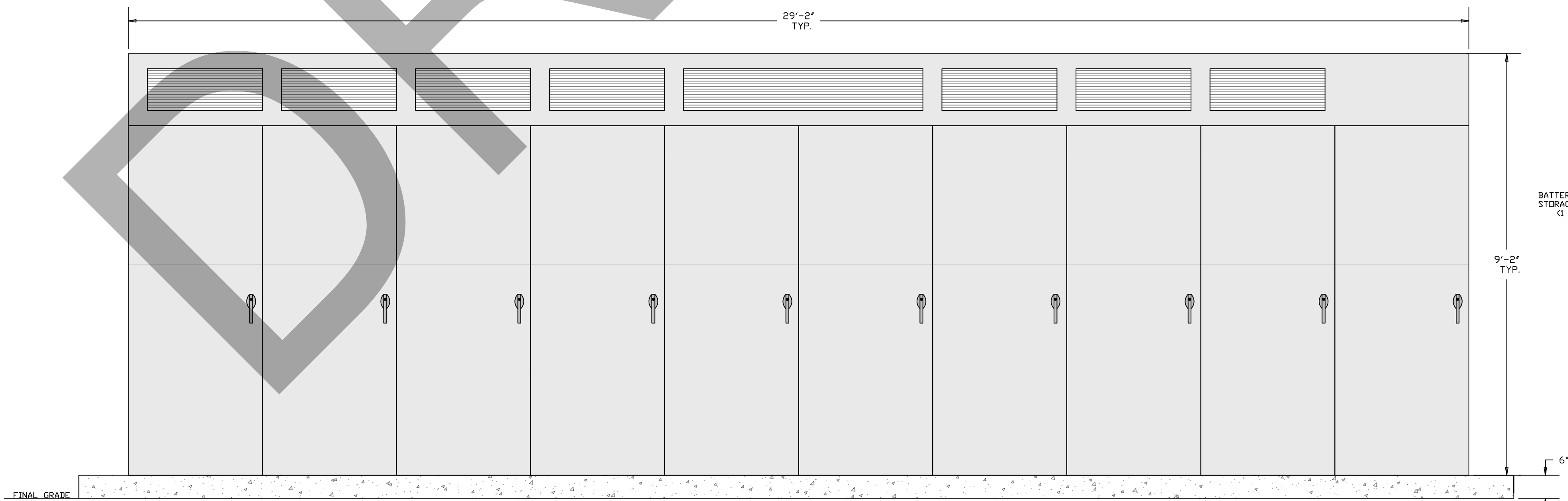
2 BESS EQUIPMENT PAD: NORTH ELEVATION
E104 SCALE: 1:20



3 BESS EQUIPMENT PAD: EAST ELEVATION
E104 SCALE: 1:20



4 BESS PAD: ELEVATION VIEW
E104 SCALE: 1:20



EQUIPMENT SCHEDULE			
EQUIPMENT ID	EQUIPMENT NAME	EQUIPMENT DESCRIPTION	QTY
MDS1	SWITCHBOARD #1	4000A, 480/277V, 3Ø 4000A MAIN BREAKER SIEMENS OR APPROVED EQUAL NEMA 3R	1
MDP1	PANELBOARD #1	MAIN BREAKER AMPS: 350, 277/480V, 3Ø COPPER LUGS MAIN: MLO SIEMENS OR APPROVED EQUAL NEMA 4X, UL TESTED & LISTED MIN. 65 KAIC RATING	1
BESS1, BESS2	TBD	979 kW, 3916 kWh, 4-HOUR DURATION 480 VAC, 3-PHASE, 3-WIRE, 60 Hz WEIGHT: 84,000 lbs ENCLOSURE DIMENSIONS: WIDTH: 346.5", DEPTH: 65", HEIGHT: 110" NEMA 3R ENCLOSURE	2
TX1	STEP-UP TRANSFORMER	3-PHASE, 60 Hz, MINERAL OIL, SELF-COOLED KVA: 2500 PRIMARY VOLTAGE: 13800 V SECONDARY VOLTAGE: 480Y/277 V TYPICAL TRANSFORMER IMPEDANCE: 5.75% BIL: 95 kV AVERAGE TEMPERATURE RISE: 65°C PROTECTION: BAY-O-NET FUSE ASSEMBLY w/ DUAL SENSING FUSE, CURRENT LIMITING FUSE HIGH VOLTAGE TERMINATIONS: (6) DEAD-FRONT, BUSHING WELLS & 200-AMP LOAD BREAK BUSHING INSERTS LOW VOLTAGE TERMINATIONS: 4-HOLE NEMA SPADE ON 5/8" THREADED STUDS TYPICAL DIMENSIONS (LxWxH): 100"x72"x73" TYPICAL WEIGHT (lbs): 14,000 COLOR: MUNSELL GREEN No. 7GY3.29/1.5 MATERIAL: STAINLESS STEEL	1
TX2	STEP-DOWN TRANSFORMER	3-PHASE, 60 Hz, MINERAL OIL, SELF-COOLED KVA: 225 PRIMARY VOLTAGE: 13800 V SECONDARY VOLTAGE: 480Y/277 V TYPICAL TRANSFORMER IMPEDANCE: TBD BIL: 95 kV AVERAGE TEMPERATURE RISE: 65°C PROTECTION: BAY-O-NET FUSE ASSEMBLY w/ DUAL SENSING FUSE, CURRENT LIMITING FUSE HIGH VOLTAGE TERMINATIONS: (6) DEAD-FRONT, BUSHING WELLS & 200-AMP LOAD BREAK BUSHING INSERTS LOW VOLTAGE TERMINATIONS: 4-HOLE NEMA SPADE ON 5/8" THREADED STUDS TYPICAL DIMENSIONS (LxWxH): 100"x72"x73" TYPICAL WEIGHT (lbs): 14,000 COLOR: MUNSELL GREEN No. 7GY3.29/1.5 MATERIAL: STAINLESS STEEL	1
SWGR1-ATS	UGS-9B-8A-HSPL	(N) PADMOUNTED 15KV LIQUID INSULATED VACUUM AUTOMATIC TRANSFER SWITCHGEAR 13.8KV, 3Ø 20,000A 1C RMS SYM (3) 600 AMP SWITCH WAYS (1) 200 AMP LOAD INTERRUPTER WAYS	1
SWGR2	UGS-9B-8A-HSPL-BESS	(N) PADMOUNTED 15KV LIQUID INSULATED VACUUM SWITCHGEAR 15KV, 3Ø 20,000A 1C RMS SYM (3) 600 AMP SWITCH WAYS (1) 200 AMP LOAD INTERRUPTER WAYS	1
PM1	PRIMARY METERING CABINET	3Ø, 15 kV, 95 kV BIL SYSTEM VOLTAGE: 13.8 kV 200 AMP BUSHING WELLS ENCLOSURE: STAINLESS STEEL COLOR: MUNSELL GREEN	1
RLY	SEL-487E PROTECTION AUTOMATION CONTROL	MODEL #: TBD BY SWITCHGEAR MANUFACTURER & APPROVED BY VIWAPA	2
RLY2	SEL-487E PROTECTION AUTOMATION CONTROL	MODEL #: TBD & APPROVED BY VIWAPA	1

COMPANY:



ENGINEER SEAL:

PROJECT INFORMATION:

SCHNEIDER REGIONAL MEDICAL CENTER

2MW/4-HOUR BATTERY ENERGY STORAGE SYSTEM

VIWAPA PROJECT # VI-EIC-2024-3

PROJECT LOCATION

SCHNEIDER REGIONAL MEDICAL CENTER
9048 SUGAR ESTATE
ST. THOMAS, VI, USA 00802
PHONE: (340) 776-8311

REVISIONS:

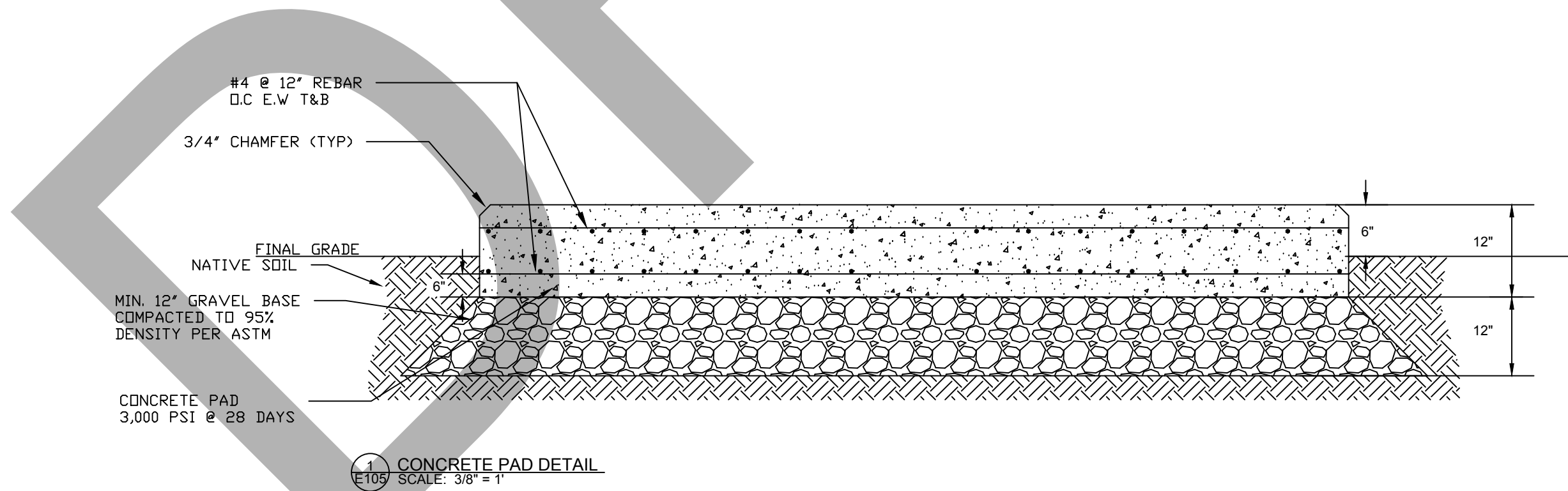
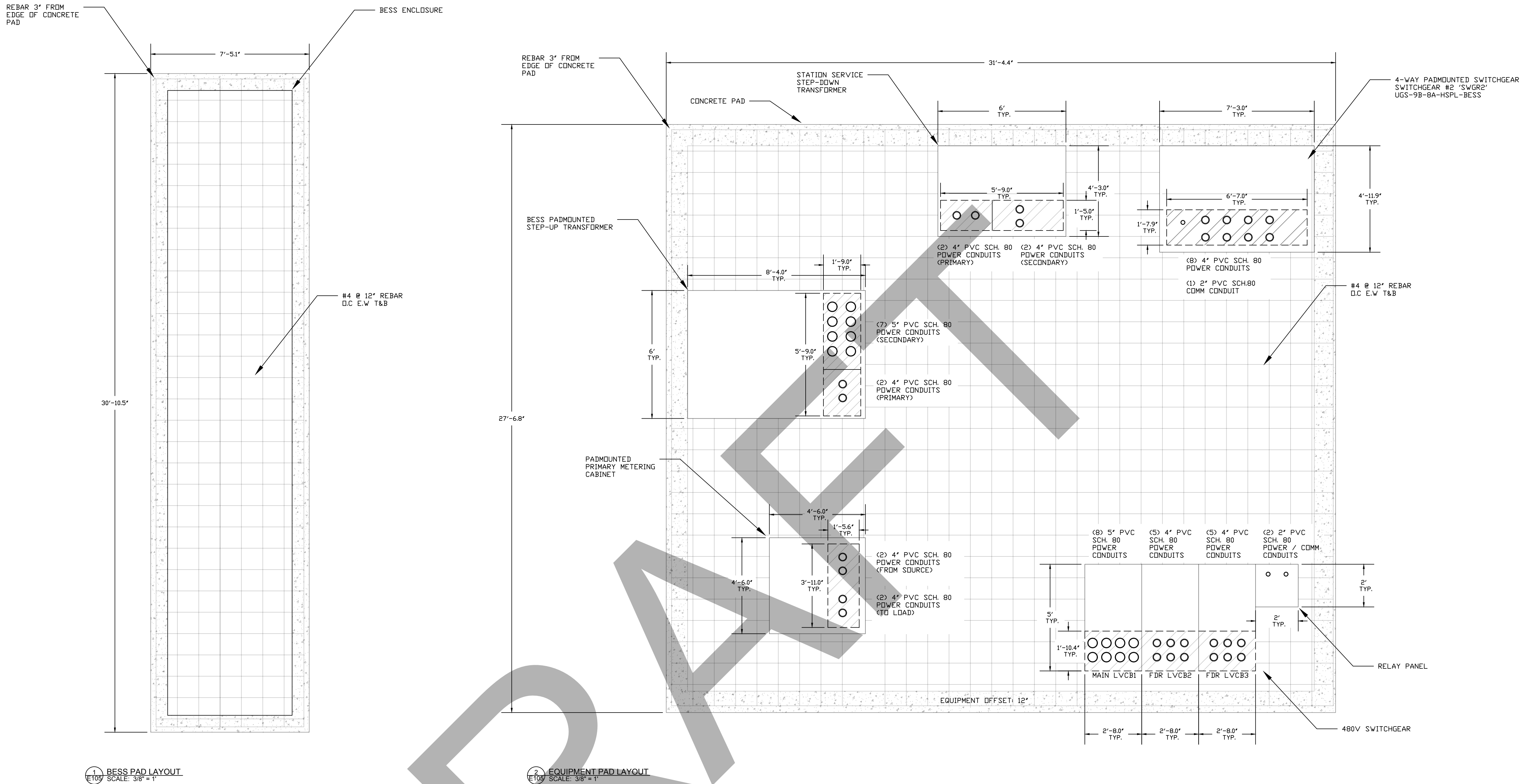
REV	DATE	DESCRIPTION
1	6/24/25	50% PROGRESS SET
2	3/17/26	ISSUED FOR REVIEW

TITLE:

EQUIPMENT ELEVATION

DATE: 3/17/2026
DESIGNED BY: OG, AB, LS, LL
DRAWN BY: LS
CHECKED BY: LL
SCALE: AS INDICATED

DRAWING NO.: E104 SHEET NO.: 6



COMPANY:

ENGINEER SEAL:

PROJECT INFORMATION:
SCHNEIDER REGIONAL MEDICAL CENTER

2MW/4-HOUR BATTERY ENERGY STORAGE SYSTEM

VIWAPA PROJECT #
VI-EIC-2024-3

PROJECT LOCATION
SCHNEIDER REGIONAL MEDICAL CENTER
9048 SUGAR ESTATE
ST. THOMAS, VI. USA 00802
PHONE: (340) 776-8311

REVISIONS:

REV	DATE	DESCRIPTION
1	6/24/25	50% PROGRESS SET
2	3/17/26	ISSUED FOR REVIEW

TITLE:

EQUIPMENT PAD LAYOUT

DATE: 3/17/2026

DESIGNED BY: OG, AB, LS, LL

DRAWN BY: LS

CHECKED BY: LL

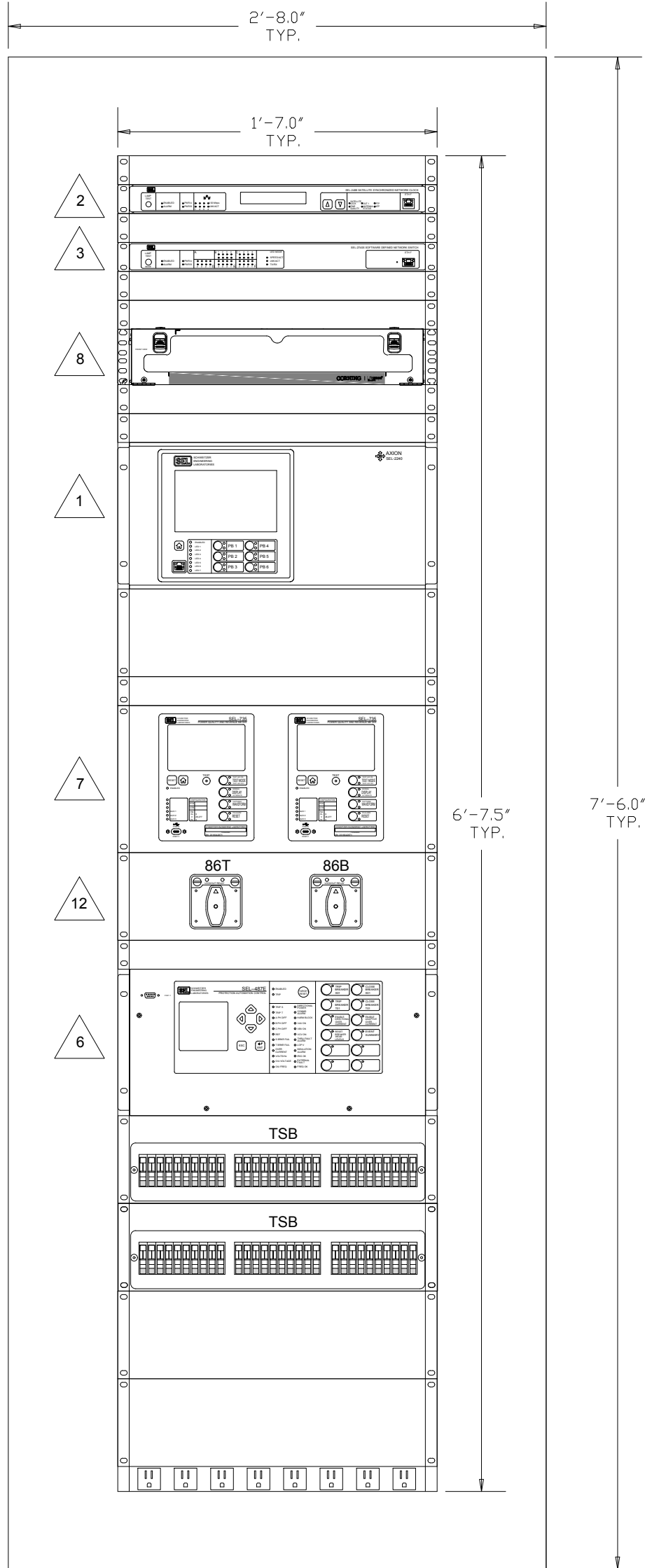
SCALE: AS INDICATED

DRAWING NO.:

E105

SHEET NO.:

7



1 RELAY PANEL DIAGRAM
E106 SCALE: NONE

NOTES:

1. ALL EQUIPMENT SHALL BE APPROVED BY VIWAPA IN WRITING PRIOR TO THE PROCUREMENT OF THE EQUIPMENT.
2. ALL INTERNAL WIRING OF THE RELAY PANEL SHALL BE COMPLETED AT THE RELAY PANEL MANUFACTURER FACTORY.
3. ALL EQUIPMENT ON AND IN THE PANELS SHALL BE MOUNTED AND COMPLETELY WIRED TO THE TERMINAL BLOCKS READY FOR EXTERNAL CONNECTION. ALL EQUIPMENT ON THE FRONT PANELS SHALL BE MOUNTED FLUSH. TERMINAL MARKINGS SHALL BE CLEARLY VISIBLE.
4. POINT-TO-POINT PANEL WIRING DIAGRAMS WILL BE PROVIDED BY ENGINEER.

BILL OF MATERIALS COMMUNICATION EQUIPMENT					
ITEM NO.	NAME	MANUFACTURER	MODEL NUMBER	PART NUMBER	QUANTITY
1	AXION	SCHWEITZER ENGINEERING LABORATORIES	SEL-2240	2240#A6A9**	1
2	NETWORK CLOCK	SCHWEITZER ENGINEERING LABORATORIES	SEL-2488	2488PRAA1181BX221	1
3	SCADA MAIN NETWORK SWITCH	SCHWEITZER ENGINEERING LABORATORIES	SEL-2740S	2740S#BGM4	1
4	SCADA NETWORK SWITCH	SCHWEITZER ENGINEERING LABORATORIES	SEL-2742	2742#AHA7	2
5	TRANCEIVERS	SCHWEITZER ENGINEERING LABORATORIES	SEL-2829	SEL-2829M	2
6	SEL-487E	SCHWEITZER ENGINEERING LABORATORIES	SEL-487E	TBD*	1
7	SEL-735	SCHWEITZER ENGINEERING LABORATORIES	SEL-735	735#GGJX	2
8	RACKMOUNT FIBER PATCH PANEL #1	CORNING	CCH-02U	CCH-02U	1
9	RACKMOUNT FIBER PATCH PANEL #2	CORNING	CCH-01U	CCH-01U	1
10	DIN RAIL FIBER PATCH PANEL	CORNING	SHP-01P-DIN	SHP-01P-DIN	2
11	CCH PANEL LC ADAPTERS	CORNING	CCH-CP12-A9	CCH-CP12-A9	8
12	LOCKOUT RELAY (MANUAL RESET)	ELECTROSWITCH	SERIES 24 LOR	78PA05D	2

* MODEL NUMBER TO BE DETERMINED DURING THE PREPARATION OF THE AC/DC ELEMENTARY DRAWINGS.
** MODEL NUMBER/TYPE SUBJECT TO CHANGE DURING THE PREPARATION OF THE AC/DC ELEMENTARY DRAWINGS.



ENGINEER SEAL:

PROJECT INFORMATION:

SCHNEIDER REGIONAL MEDICAL CENTER

2MW/4-HOUR BATTERY ENERGY STORAGE SYSTEM

VIWAPA PROJECT #
VI-EIC-2024-3

PROJECT LOCATION

SCHNEIDER REGIONAL MEDICAL CENTER
9048 SUGAR ESTATE
ST. THOMAS, VI. USA 00802
PHONE: (340) 776-8311

REVISIONS:

REV	DATE	DESCRIPTION
1	6/24/25	50% PROGRESS SET
2	3/17/26	ISSUED FOR REVIEW

TITLE:

RELAY PANEL
DIAGRAM

DATE:	3/17/2026
DESIGNED BY:	OG, AB, LS, LL
DRAWN BY:	LS
CHECKED BY:	LL
SCALE:	AS INDICATED
DRAWING NO.:	SHEET NO.:

E106

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COMPANY:

ENGINEER SEAL:

PROJECT INFORMATION:

SCHNEIDER REGIONAL MEDICAL CENTER

2MW/4-HOUR BATTERY ENERGY STORAGE SYSTEM

VIWAPA PROJECT #
VI-EIC-2024-3

PROJECT LOCATION

SCHNEIDER REGIONAL MEDICAL CENTER
9048 SUGAR ESTATE
ST. THOMAS, VI. USA 00802
PHONE: (340) 776-8311

REVISIONS:

REV	DATE	DESCRIPTION
1	6/24/25	50% PROGRESS SET
2	3/17/26	ISSUED FOR REVIEW

TITLE:

COMMUNICATION DIAGRAM

DATE:	3/17/2026
DESIGNED BY:	OG, AB, LS, LL
DRAWN BY:	LS
CHECKED BY:	LL
SCALE:	AS INDICATED
DRAWING NO.:	SHEET NO.:

E107

11

