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ARCHITECTURAL SUPPLEMENTAL INSTRUCTION

Do Not Proceed with any Action requiring an adjustment to the contract sum or time without a signed change order.

To: Mr. Jim Sabino - Vice President Primus Structures, Inc. 2896 Highway 24 – Suite H Newport, NC 28570 **From:** W. Daniel Hill, AIA	Date: ASI No.: SCO Project No.:	6.16.2025 **4** 23-26060-01A

Project: CCCC – Learning Resources Center – First Floor Renovation

Origin: Bowman Murray Hemingway Architects, CBHF Engineers
Sent Via: Email

Spec Section/Drawing: E-0.4B, EP1.1
ASI Subject: Coordination of temporary power and transformer relocation

Please see drawings attached. All revisions have been clouded. Revisions generally include:

E-0.4B: This is a new drawing sheet to be added to the construction drawings.

- The addition of a 400-amp ECB with conduit and cabling for temporary power during construction.
- Sequencing changes for temporary power and the relocation of the existing utility transformer to the new transformer pad location.
- A conceptual scope for generator supplied temporary power to the project during multiple power outages now required during construction.

EP1.1:

- The relocation of the existing 300KVA Utility Transformer to the new pad location.
- The addition of a new 400-amp ECB for temporary power during construction.

Please contact BMH with any questions regarding these revised sheets.

By: W. Daniel Hill, AIA

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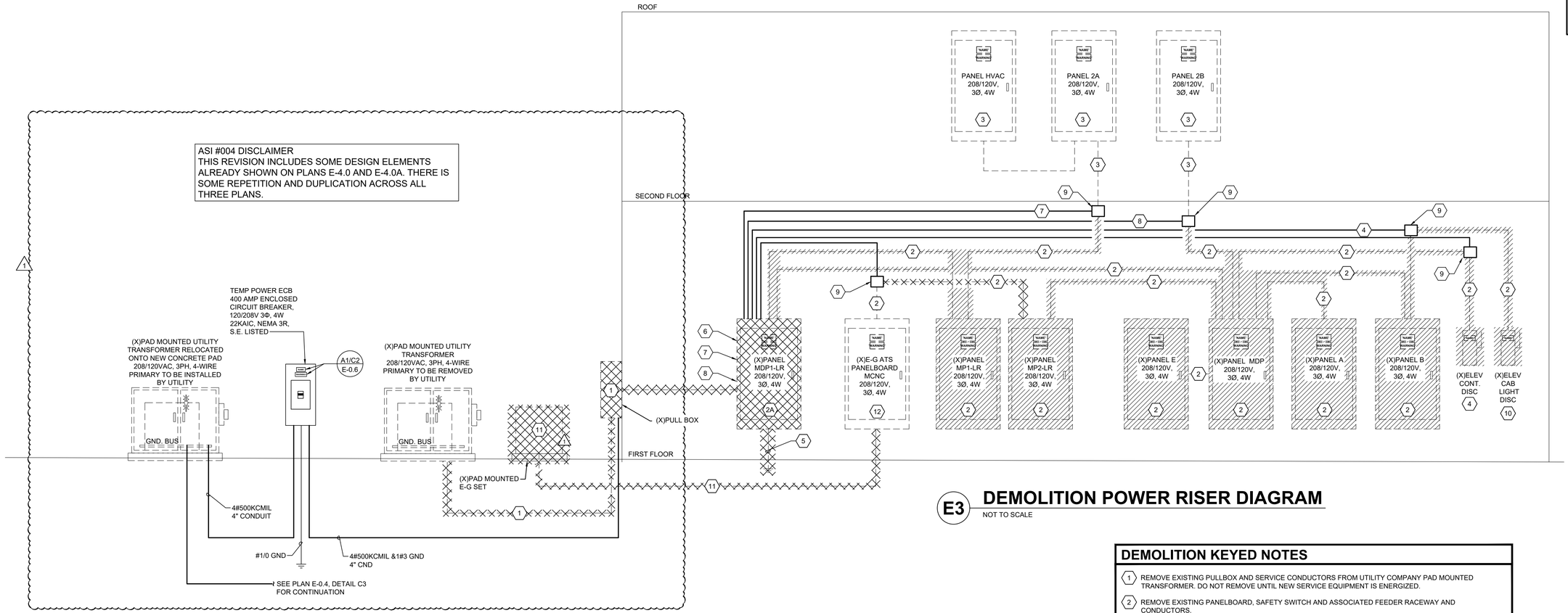

E3 DEMOLITION POWER RISER DIAGRAM

NOT TO SCALE

PHASING OF ELECTRICAL WORK

1. WORK TO UPGRADE THE EXISTING ELECTRICAL DISTRIBUTION SYSTEM WILL REQUIRE PHASING TO MINIMIZE OUTAGES AFFECTING THE OWNER'S USE OF THE FACILITY.
2. AS THE SECOND FLOOR WILL REMAIN OCCUPIED DURING THE PROJECT, AND A NEW MAIN DISTRIBUTION PANELBOARD (MDP-LR) IS REQUIRED, THE EXISTING UTILITY TRANSFORMER WILL BE RELOCATED TO THE NEW CONCRETE PAD.
3. REMOVED NOTE AS PART OF ASI #004. SEE SCOPE BELOW FOR TEMPORARY POWER REQUIREMENTS AT PANEL MDP-LR FOR THE PROJECT DURATION.
4. EXISTING SECOND FLOOR PANELBOARDS 2A AND 2B, COMBINATION ATS/PANEL MCNC, ELEVATOR CONTROLLER AND ELEVATOR CAB LIGHTS WILL BE RE-FED DIRECTLY FROM EXISTING PANELBOARD MDP1-LR BY INTERCEPTING THE PANELBOARD AND SAFETY SWITCH FEEDERS AND EXTENDING TO PANELBOARD MDP1-LR USING MATCHING CONDUCTORS AND CONDUIT. SEE E3/E0.4 DEMOLITION POWER RISER DIAGRAM.
5. FOLLOWING COMPLETION OF THE NEW SERVICE, SECOND FLOOR PANELBOARD 2A AND 2B, COMBINATION ATC/PANEL MCNC, ELEVATOR CONTROLLER AND ELEVATOR CAB LIGHTING SAFETY SWITCHES WILL BE CONNECTED TO NEW PANELBOARD MDP-LR AND 1B AS DEPICTED IN C3/E0.4 BASE BID - NEW WORK POWER RISER DIAGRAM.

TRANSFORMER RELOCATION AND TEMP POWER SCOPE

1. PLAN FOR AND COORDINATE A DUKE ENERGY WHOLE BUILDING POWER OUTAGE TO THE BUILDING TO RELOCATE THE EXISTING 300KVA TRANSFORMER AND FEED THE NEW TRANSFORMER LOCATION. THIS WILL REQUIRE A 24-48 HOUR WHOLE BUILDING OUTAGE.
   a. THE CONTRACTOR WILL NEED TO PROVIDE TEMPORARY POWER VIA A GENERATOR AND CABLING TO SUPPORT THE EXISTING BUILDING POWER NEEDS DURING THIS OUTAGE.
   b. THE COLLEGE NEEDS TO IDENTIFY EXACTLY WHAT NEEDS TO REMAIN POWERED SO THE POWER OUTAGES CAN BE PLANNED.
2. INSTALL THE PROJECTS DUKE ENERGY TRANSFORMER PAD PER THE DESIGN DRAWINGS. ROUTE THE 2 - 4" SECONDARY CONDUITS AND PRIMARY SWEEPS FOR DUKE ENERGY OUT OF THE PAD AT THIS TIME WITH THE ADDITIONAL 4" FOR THE NEW TEMPORARY SERVICE.
3. INSTALL A NEW 400AMP 3Φ, 4W, 208V, SER ECB/FUSED DISCONNECT ADJACENT TO THE NEW TRANSFORMER LOCATION VIA A 4" CONDUIT WITH 4#500KCMIL CONDUCTORS AND GROUNDING TO 2 - ¾" X 10' GROUND RODS TO FEED THE TEMPORARY SERVICE/PANELBOARD (MDP-LR IN THE EXISTING MECHANICAL ROOM).
4. ROUTE A NEW 400AMP FEEDER IN A 4" CONDUIT WITH 4#500KCMIL AND 1#3GND FROM THE NEW 400AMP ECB TO THE EXISTING WALL MOUNTED JUNCTION BOX AND INTERCEPT TWO OF THE EXISTING SECONDARIES TO RE-FEED THE TEMP SERVICE(PANEL MDP-LR) DURING CONSTRUCTION. SPLICE THE EXISTING CABLES WITH THE NEW CABLES WITH POLARIS TAPS. REMOVE ALL REMAINING EXISTING CABLING FEEDING THE TEMP SERVICE NO LONGER REQUIRED.
5. PLAN FOR MULTIPLE POWER OUTAGES REQUIRING TEMPORARY POWER TO KEEP THE CIRCUITS DESIGNATED BY THE COLLEGE OPERATIONAL DURING CONSTRUCTION. THIS INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:
   a. WHEN THE SECONDARIES ARE TO BE PULLED FROM THE NEW TRANSFORMER TO NEW PANEL MDP-LR.
   b. WHEN DUKE NEEDS TO ENERGIZE PANEL MDP-LR AND CONNECT THE NEW SECONDARIES.
   c. WHEN PANEL 2A IS TO BE REMOVED FROM THE TEMPORARY SERVICE AND ENERGIZED FROM MDP-LR.
   d. WHEN PANEL 2B IS TO BE REMOVED FROM THE TEMPORARY SERVICE AND ENERGIZED FROM MDP-LR.

DEMOLITION KEYED NOTES

1. REMOVE EXISTING PULLBOX AND SERVICE CONDUCTORS FROM UTILITY COMPANY PAD MOUNTED TRANSFORMER. DO NOT REMOVE UNTIL NEW SERVICE EQUIPMENT IS ENERGIZED.
2. REMOVE EXISTING PANELBOARD, SAFETY SWITCH AND ASSOCIATED FEEDER RACEWAY AND CONDUCTORS.
2A. REMOVE EXISTING PANELBOARD AND ASSOCIATED FEEDER RACEWAY AND CONDUCT AFTER INSTALLATION OF NEW PANEL MDP-LR. DO NOT REMOVED UNTIL NEW SERVICE EQUIPMENT IS ENERGIZED.
3. EXISTING PANELBOARD AND ASSOCIATED FEEDER RACEWAY AND CONDUCTORS TO REMAIN FOR EXTENSION TO NEW SOURCE PANELBOARD.
4. EXISTING ELEVATOR CONTROLLER SAFETY SWITCH MUST REMAIN ENERGIZED THROUGHOUT THE DURATION OF THE PROJECT.
5. REMOVE EXISTING GROUND CONNECTION AND ASSOCIATED CONDUCTOR AFTER INSTALLATION OF NEW PANEL MDP-LR.
6. PROVIDE AND INSTALL TWO NEW 3/60 CIRCUIT BREAKER IN EXISTING SPACE IN EXISTING PANEL " MDP1-LR" TO PROVIDE TEMPORARY FEEDER TO EXISTING PUMPS P-1A AND P-1B. MATCH EXISTING PUMP FEEDER AMPACITY.
7. PROVIDE AND INSTALL NEW 3/225 CIRCUIT BREAKER IN EXISTING SPACE IN EXISTING PANEL "MDP1-LR" TO PROVIDE TEMPORARY FEEDER TO EXISTING PANEL "2A". MATCH EXISTING PANEL FEEDER AMPACITY. PROVIDE SUFFICIENT CONDUCTOR LENGTH FOR EXTENSION TO NEW PANEL MDP-LR WHEN ENERGIZED.
8. PROVIDE AND INSTALL NEW 3/100 CIRCUIT BREAKER IN EXISTING SPACE IN EXISTING PANEL "MDP1-LR" TO PROVIDE TEMPORARY FEEDER TO EXISTING PANEL "2B". MATCH EXISTING PANEL FEED AMPACITY. PROVIDE SUFFICIENT CONDUCTOR LENGTHS FOR EXTENSION TO NEW PANEL "MDP-LR" WHEN ENERGIZED.
9. NEW GALVANIZED, SCREW COVER SPLICE BOX, SIZE AS REQUIRED.
10. EXISTING ELEVATOR CAB LIGHTING SAFETY SWITCH MUST REMAIN ENERGIZED THROUGHOUT THE DURATION OF CONSTRUCTION.
11. BASE BID: GENERATOR AND FEEDER IS EXISTING TO REMAIN. PROTECT IN PLACE AND MAINTAIN IN OPERATION THROUGHOUT CONSTRUCTION. COMBINATION ATS/PANEL MCNC MUST REMAIN ENERGIZED THROUGHOUT CONSTRUCTION.
    ALTERNATE BID #3: GENERATOR AND FEEDER MUST BE PROTECTED IN PLACE AND REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION. REMOVE GENERATOR AND FEEDER TO (X) E-G COMBINATION ATS/PANEL MCNC AFTER NEW GENERATOR IS OPERATIONAL AND NEW FEEDER IN PLACE FOR MCNC. MCNC MUST REMAIN ENERGIZED THROUGHOUT THE DURATION OF CONSTRUCTION.
12. BASE BID: EXISTING COMBINATION ATS/PANEL MCNC MUST BE PROTECTED IN PLACE AND REMAIN ENERGIZED THROUGHOUT THE DURATION OF THE PROJECT.
    ALTERNATE BID #3: COMBINATION ATS/PANEL MCNC AND FEEDERS MUST BE PROTECTED IN PLACE AND REMAIN ENERGIZED THROUGHOUT CONSTRUCTION. REMOVE GENERATOR AND NORMAL POWER FEEDER TO (X) E-G COMBINATION ATS/PANEL MCNC AFTER NEW FEEDER IS IN PLACE FOR MCNC. MCNC MUST REMAIN ENERGIZED THROUGHOUT THE DURATION OF CONSTRUCTION.

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 35230 JASON P. FAMIGLIETTI
6/16/2025

Coastal Carolina Community College
Learning Resource Center - First Floor Renovation
444 Western Boulevard
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REV.	DATE	DESCRIPTION
1	6.16.2025	ASI #004 TEMPORARY POWER & TRANSFORMER RELOCATION

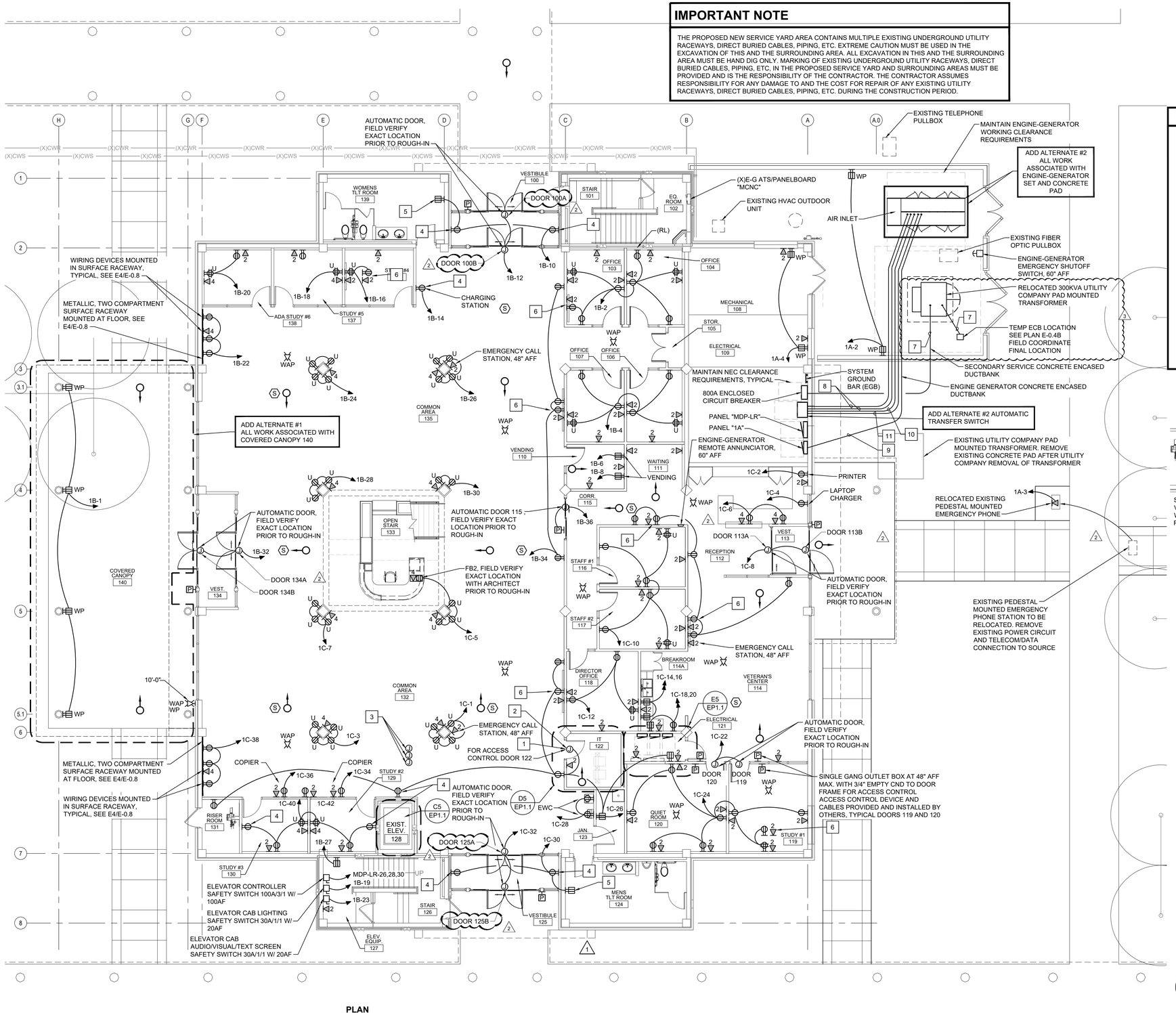
Project Manager	Drawn By WPJ
Date 11-25-2024	Reviewed By JPF
Project ID	

Sheet Title
ELECTRICAL TEMP POWER AND TRANSFORMER RELOCATE DETAILS

Sheet No.
1 E-0.4B

IMPORTANT NOTE

THE PROPOSED NEW SERVICE YARD AREA CONTAINS MULTIPLE EXISTING UNDERGROUND UTILITY RACEWAYS, DIRECT BURIED CABLES, PIPING, ETC. EXTREME CAUTION MUST BE USED IN THE EXCAVATION OF THIS AND THE SURROUNDING AREA. ALL EXCAVATION IN THIS AND THE SURROUNDING AREA MUST BE HAND DIG ONLY. MARKING OF EXISTING UNDERGROUND UTILITY RACEWAYS, DIRECT BURIED CABLES, PIPING, ETC, IN THE PROPOSED SERVICE YARD AND SURROUNDING AREAS MUST BE PROVIDED AND IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR ASSUMES RESPONSIBILITY FOR ANY DAMAGE TO AND THE COST FOR REPAIR OF ANY EXISTING UTILITY RACEWAYS, DIRECT BURIED CABLES, PIPING, ETC. DURING THE CONSTRUCTION PERIOD.



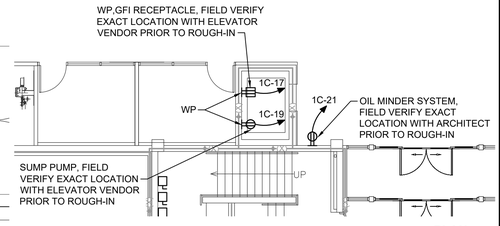
E1 FIRST FLOOR PLAN - POWER

1/8" = 1'-0"

PLAN NORTH

KEYED NOTES

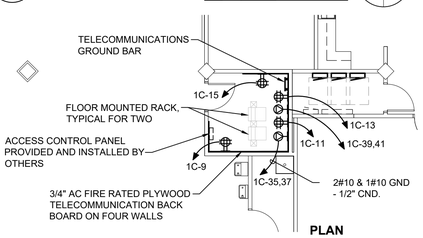
1. JUNCTION BOX AT 48" AFF WITH 1/2" EMPTY CONDUIT TO CEILING CAVITY FOP ACCESS CONTROL PROVIDED AND INSTALLED BY OTHERS.
2. 120 VOLT POWER FOR ACCESS CONTROL POWER SUPPLY. FIELD VERIFY EXACT LOCATION WITH ACCESS CONTROL VENDOR PRIOR TO ROUGH-IN.
3. 3 - 3/4" EMPTY CND. WITH PULL STRING FROM PANEL "1C". ONE EACH FOR FUTURE ELEVATOR PIT RECEPTACLE, SUMP PUMP AND OIL MINDER SYSTEM IF ADD ALTERNATE #3 IS NOT ACCEPTED.
4. NEW DUPLEX RECEPTACLE INSTALLED IN EXISTING OUTLET BOX.
5. NEW DUPLEX RECEPTACLE INSTALLED IN EXISTING OUTLET BOX. PROVIDE OUTLET BOX EXTENSION RINGS AS REQUIRED TO MAKE EXISTING OUTLET BOX FLUSH WITH NEW WALL TILE INSTALLATION.
6. INTERACTIVE BOARD. COORDINATE EXACT POWER AND TELECOM/DATA CONNECTION LOCATION AND MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
7. UNDERGROUND SERVICE CONDUCTORS.
8. ENGINE-GENERATOR UNDERGROUND AUTOMATIC TRANSFER SWITCH FEEDER RACEWAY.
9. ENGINE-GENERATOR UNDERGROUND ACCESSORIES LOADCENTER FEEDER RACEWAY.
10. ENGINE-GENERATOR UNDERGROUND CONTROL CONDUCTOR RACEWAY.
11. SPARE RACEWAY



C5 EXIST. ELEV 128 PLAN

1/8" = 1'-0"

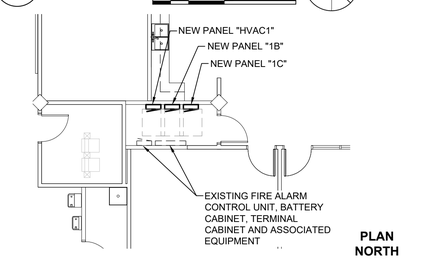
PLAN NORTH



D5 IT 122 PLAN

1/8" = 1'-0"

PLAN NORTH



E5 ELECTRICAL 121 PLAN

1/8" = 1'-0"

PLAN NORTH

WALL LEGEND

-(X)-	1 HOUR RATED WALL - EXISTING

NOTE: ALL ITEMS LISTED MAY NOT BE USED IN THIS PROJECT.

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REV.	DATE	DESCRIPTION
1	1.9.2025	ADDENDUM #3
2	5.15.2025	ASI #2 COORD. REVS
3	6.16.2025	ASI #004 TEMPORARY POWER & TRANSFORMER RELOCATION

Project Manager	Drawn By WPJ
Date 11-25-2024	Reviewed By JPF
Project ID	

Sheet Title: ELECTRICAL FIRST FLOOR PLAN - POWER

Sheet No.: EP1.1