## ELECTRICAL RENOVATION NOTES

⬡ INDICATES NOTES LOCATED ON PLAN

1. POWER:
   - A. REROUTE, EXTEND AND RECONNECT EXISTING FEEDERS.
   - B. TERMINATE THE EXISTING GROUNDING ELECTRODE CONDUCTOR, SALVAGED FROM DEMOLISHED PANEL GP1, AT THE GROUND BUS IN THE NEW SERVICE ENTRANCE PANEL. EXTEND AS NECESSARY WITH A SPLICE PER NEC 250.64(C). VERIFY THE SIZE OF THE GROUNDING ELECTRODE CONDUCTOR MEETS OR EXCEEDS #3/0 AWG. VERIFY THAT ALL GROUNDING ELECTRODES ARE BONDED TO EXISTING FORM THE GROUNDING ELECTRODE SYSTEM PER NEC ARTICLE 250.
   - C. PROVIDE CONDUIT CONNECTION TO DISTRIBUTION SECTION. PROVIDE SEALING BUSHINGS IN EACH CONDUIT PER SERVICE ENTRANCE DETAIL ON SHEET E101.
   - D. EXTEND AND RE-CONNECT EXISTING FEEDERS TO NEW BREAKERS. FIELD VERIFY EXISTING FEEDER SIZES AND NOTIFY ENGINEER IF DIFFERENT THAN WHAT IS INDICATED.
   - E. RE-FEED EXISTING PANEL EX1, WITH NEW FEEDER CIRCUIT "15".
   - F. REFER TO PANELBOARD SCHEDULES FOR NEW PANEL CONFIGURATION. CONTRACTOR TO RE-CONNECT ALL EXISTING LOADS TO NEW PANEL AND PROVIDE UPDATED PANELBOARD SCHDULE REFLECTING RE-CONNECTED LOADS.
   - G. RE-FEED EXISTING LOADS FROM NEW PANEL GL4.
   - H. ALL EXISTING WIRE SIZES TAKEN FROM EXISTING DRAWINGS. CONTRACTOR SHALL FIELD VERIFY AND DOCUMENT EXISTING CONDUCTOR SIZES INCLUDING GROUND WIRE AND CONDUIT SIZE FOR ARC FLASH DATA COLLECTION.
2. MISCELLANEOUS:
   - A. NOT USED

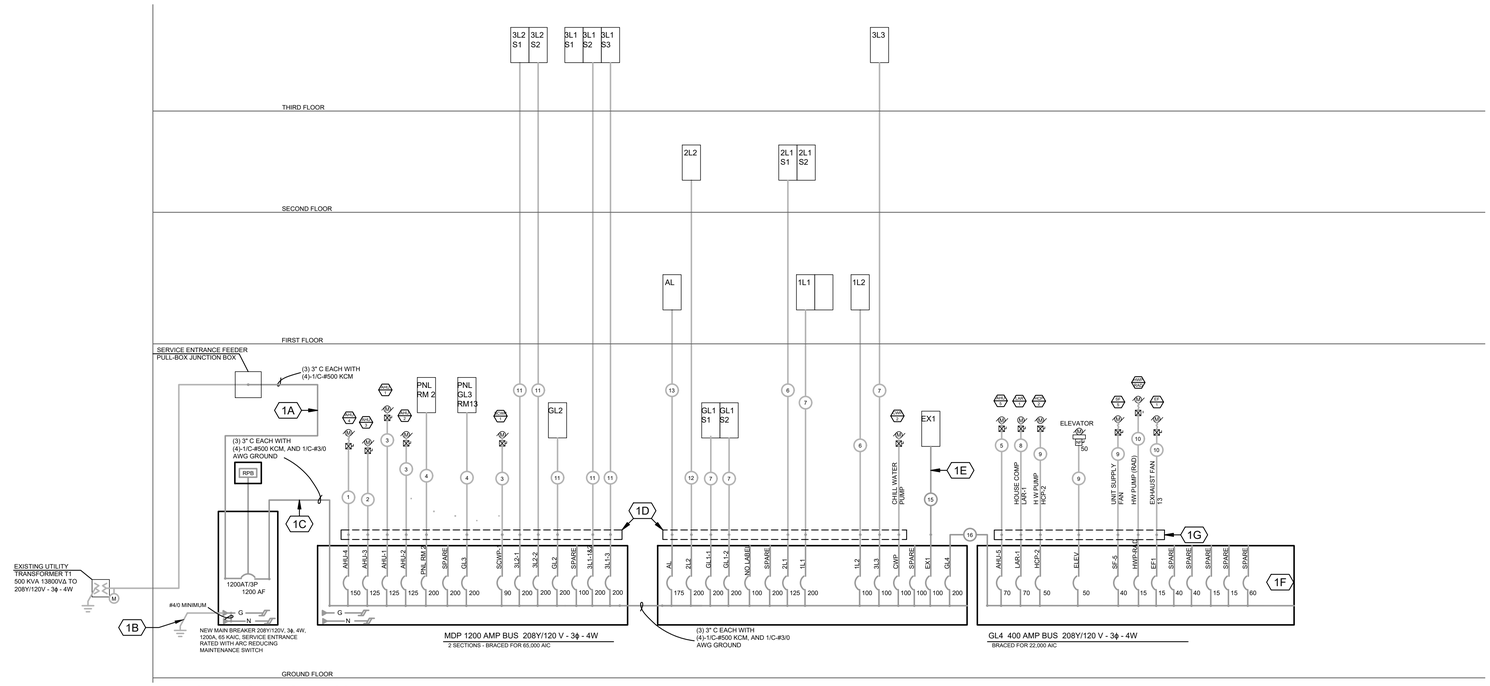
## ELECTRICAL DEMOLITION NOTES

▭ INDICATES NOTES LOCATED ON PLAN

1. POWER:
   - A. EXISTING GEAR TO BE REMOVED. PROPERLY TAG AND LABEL EACH FEEDER TO RE-CONNECT TO NEW DISTRIBUTION PANELBOARD(S). PROTECT SERVICE ENTRANCE FEEDERS TO BE RE-CONNECTED TO NEW MAIN BREAKER.
   - B. ABANDONED LOAD TO BE REMOVED. CONTRACTOR SHALL REMOVE WIRING, CONDUIT AND ALL ASSOCIATED APPURTENANCES FEEDING UNIT TO BE REMOVED. (FIELD VERIFY ACTUAL CIRCUIT TO BE REMOVED).
   - C. EXISTING PANELS TO BE REPLACED. REFER TO EXISTING ONE-LINE RISER RENOVATION DIAGRAM AND PANELBOARD SCHEDULE(S) FOR ADDITIONAL INFORMATION. PRIOR TO REMOVAL, CONTRACTOR SHALL IDENTIFY EACH CIRCUIT TO PROVIDE UPDATED AS-BUILT PANELBOARD SCHEDULE WITH ACTUAL LOADS SERVED.
2. MISCELLANEOUS:
   - A. NOT USED

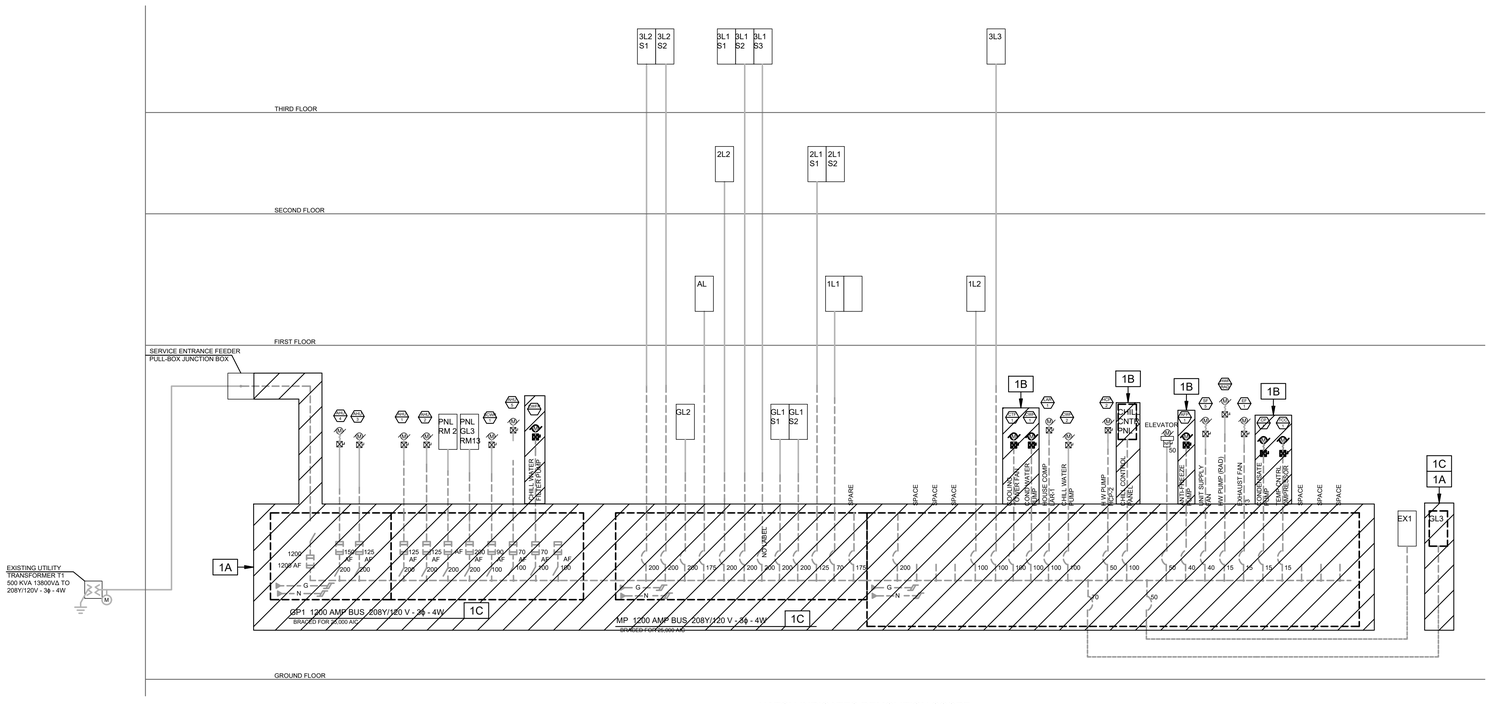
## CIRCUIT SCHEDULE (FOR RISER ONLY)

| CIRCUIT ID | WIRE SIZE | GND WIRE SIZE | CONDUIT SIZE | CONDUIT TYPE |
|---|---|---|---|---|
| 1 | (3)-1/C-#1/0 AWG | (1)-1/C-#6 AWG | 1 1/2" | EMT |
| 2 | (3)-1/C-#1 AWG | (1)-1/C-#6 AWG | 1 1/2" | EMT |
| 3 | (3)-1/C-#2 AWG | (1)-1/C-#6AWG | 1 1/2" | EMT |
| 4 | (3)-1/C-#3/0 AWG | (1)-1/C-#6 AWG | 2" | EMT |
| 5 | (3)-1/C-#6 AWG | (1)-1/C-#10 AWG | 3/4" | EMT |
| 6 | (4)-1/C-#1/0 AWG | (1) 1/C-#6 AWG | 1 1/2" | EMT |
| 7 | (4)-1/C-#3/0 AWG | (1)-1/C-#6 AWG | 2" | EMT |
| 8 | (4)1/C-#4 AWG | (1)-1/C-#8 AWG | 1 1/4" | EMT |
| 9 | (4)-1/C-#8 AWG | (1)-1/C-#10 AWG | 3/4" | EMT |
| 10 | (4)-1/C-#12 AWG | (1)-1/C-#12 AWG | 3/4" | EMT |
| 11 | (4)-1/C-#250 KCM | (1)-1/C-#4 AWG | 2 1/2" | EMT |
| 12 | (4)-1/C-#4/0 AWG | (1)-1/C-#4 AWG | 2 1/2" | EMT |
| 13 | (4)-1/C-#2/0 AWG | (1)-1/C-#6 AWG | 2" | EMT |
| 14 | (4)-1/C-#6 AWG | (1)-1/C-#10 AWG | 1" | EMT |
| 15 | (4)-1/C-#1 AWG | (1)-1/C-#6 AWG | 1 1/2" | EMT |




2 E701 EXISTING RISER/ONE-LINE RENOVATION DIAGRAM

SCALE NOT TO SCALE




HATCH INDICATES DEMOLITION SCOPE

1 E701 EXISTING RISER/ONE-LINE DEMOLITION DIAGRAM

SCALE NOT TO SCALE

STATE OF MISSOURI — RILEY D. JOHNSON — NUMBER PE-2023002646 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER - RILEY D. JOHNSON MO# PE-2023002646

Riley D. Johnson — Digitally signed by Riley D. Johnson Date: 2024.03.08 14:51:30 -06'00'

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GEOLOGICAL SCIENCES
COLUMBIA, BOONE COUNTY, MISSOURI 65211
ELECTRICAL SERVICE PANEL REPLACEMENT
ELECTRICAL RISER/ONE-LINE DIAGRAM

PROJECT NUMBER CP241351

SHEET E701