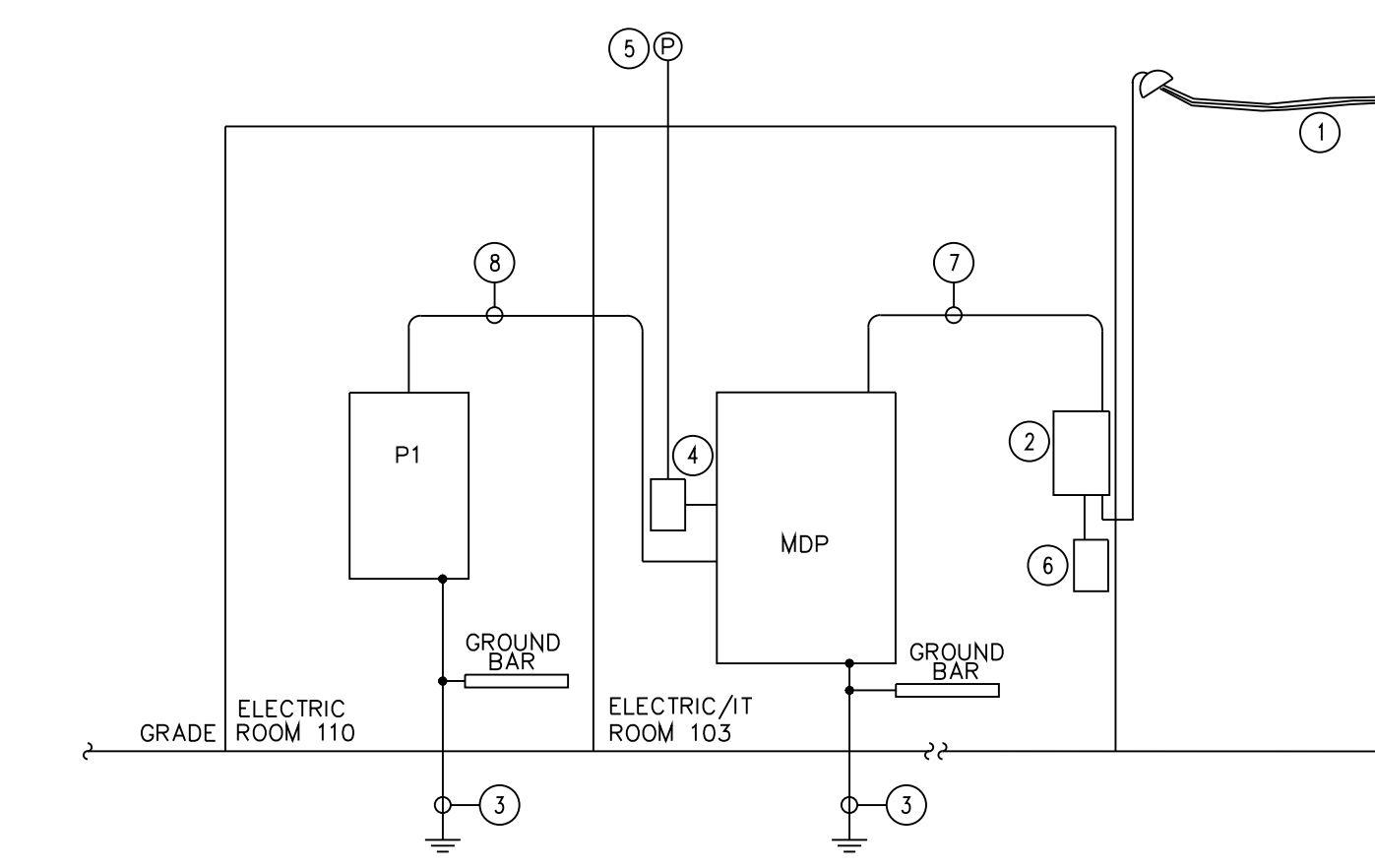


POWER PLAN  
SCALE: 1/4" = 1'-0"

PLAN NOTES:

- 1 SEE ELEVATION "A" AND CEILING FAN UNIT WIRING DETAIL FOR POWER AND CONTROLS RELATIVE TO CF-1. PROVIDE POWER AS SPECIFIED IN THE ELEVATION DETAIL. SEE SHEET E.3.1.
- 2 SEE ELEVATION "B" AND CEILING FAN UNIT WIRING DETAIL FOR POWER AND CONTROLS RELATIVE TO CF-2 AND CF-3. PROVIDE POWER FOR EACH UNIT AS SPECIFIED IN THE ELEVATION DETAIL. SEE SHEET E.3.1.
- 3 CU-1 BY H.C., 208V-1Ø, 14.7 FLA, 16 MCA. PROVIDE 30A-2P WP FDS, FUSE AT 25A.
- 4 AHU-1 BY H.C., 120V-1Ø, 14.5 FLA. DISCONNECT SHALL BE PROVIDED BY THE H.C.
- 5 FC-1 BY H.C., 208V-1Ø, 11.6 FLA, 17 MCA. PROVIDE 30A-2P WP FDS, FUSE AT 20A.
- 6 OVERHEAD DOOR MOTOR STARTER/DISCONNECT AND CONTROLS BY M.C. PROVIDE CIRCUIT AS INDICATED.
- 7 EF-1 BY H.C., 120V-1Ø, 1.5 FLA, PROVIDE THERMALLY PROTECTED SNAP SWITCH AS DISCONNECTING MEANS. EXTEND AND CONNECT TO LIGHTS AS REQUIRED VIA OCC SENSOR.
- 8 EF-2 BY H.C., 120V-1Ø, 1.5 FLA, PROVIDE THERMALLY PROTECTED SNAP SWITCH AS DISCONNECTING MEANS. EXTEND AND CONNECT TO LIGHTS AS REQUIRED VIA OCC SENSOR.
- 9 ELECTRIC WALL HEATER (EWH-1) BY H.C., 120V-1Ø, 750W, 6.5A.
- 10 ELECTRIC WALL HEATER (EWH-2) BY H.C., 120V-1Ø, 750W, 6.5A.
- 11 ELECTRIC WALL HEATER (EWH-3) BY H.C., 120V-1Ø, 750W, 6.5A.
- 12 LIFT PUMP AND CONTROLS PROVIDED BY P.C., 208V-3Ø, 6.2 FLA, 16 MCA. PROVIDE 30A-3P WP FDS, FUSE AT 20A.
- 13 ELECTRIC WATER HEATER (WH-1) BY P.C., 208V-1Ø, 7.5kW, 36 FLA.
- 14 4"x4"x1" DEEP CT CABINET FOR UTILITY SMART METER. SEE RISER DIAGRAM, DWG E.2.1.
- 15 4"x4"x1" DEEP CT CABINET FOR COMMUNICATION CABLE. SEE RISER DIAGRAM, DWG E.2.1.
- 16 SECURITY FLOOR MOUNTED RACK. PROVIDE RECEPTACLES 72 INCHES AFF ON WALL AT RACK. SEE TECH PLAN, DWG E.3.1.
- 17 BMS PANEL BY H.C., 120V-1Ø. PROVIDE CAT6 TO OWNER ELECTRIC METER IN ADDITION TO THE CAT6 CABLE FROM THE BMS PANEL TO THE IT RACK. PROVIDE THERMALLY PROTECTED SWITCH AS DISCONNECTING MEANS AND EXTEND AND CONNECT TO NEAREST CONVENIENCE OUTLET.
- 18 IH-1 BY H.C., 120V-1Ø, 3.3 FLA, PROVIDE THERMALLY PROTECTED SNAP SWITCH AS DISCONNECTING MEANS.
- 19 IH-2 BY H.C., 120V-1Ø, 3.3 FLA, PROVIDE THERMALLY PROTECTED SNAP SWITCH AS DISCONNECTING MEANS.
- 20 IH-3 BY H.C., 120V-1Ø, 4.8 FLA, PROVIDE THERMALLY PROTECTED SNAP SWITCH AS DISCONNECTING MEANS.
- 21 IH-4 BY H.C., 120V-1Ø, 4.8 FLA, PROVIDE THERMALLY PROTECTED SNAP SWITCH AS DISCONNECTING MEANS.
- 22 IH-5 BY H.C., 120V-1Ø, 4.8 FLA, PROVIDE THERMALLY PROTECTED SNAP SWITCH AS DISCONNECTING MEANS.
- 23 IH-2 BY H.C., 120V-1Ø, 4.8 FLA, PROVIDE THERMALLY PROTECTED SNAP SWITCH AS DISCONNECTING MEANS.
- 24 IH-3 BY H.C., 120V-1Ø, 4.8 FLA, PROVIDE THERMALLY PROTECTED SNAP SWITCH AS DISCONNECTING MEANS.
- 25 IH-4 BY H.C., 120V-1Ø, 4.8 FLA, PROVIDE THERMALLY PROTECTED SNAP SWITCH AS DISCONNECTING MEANS.



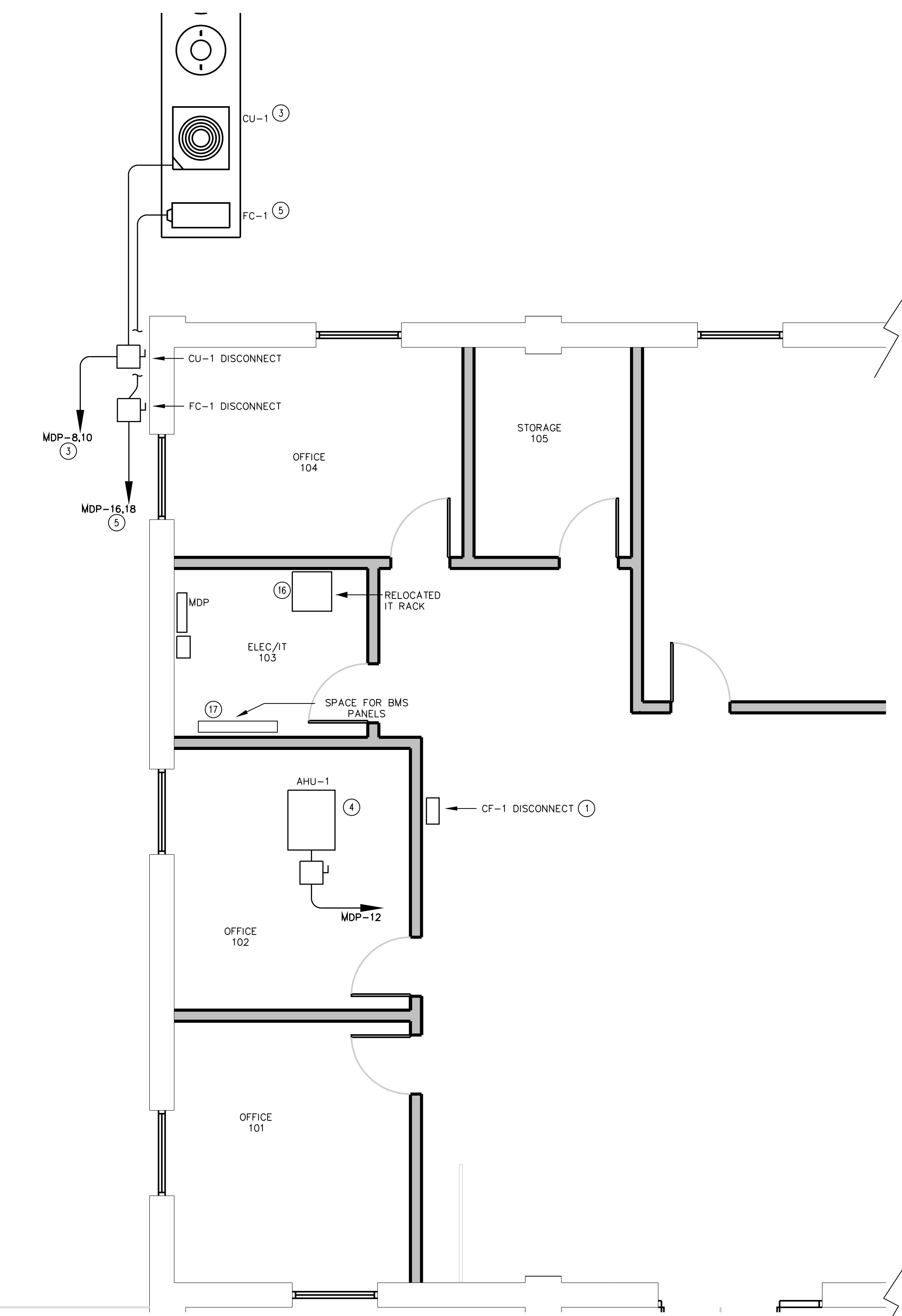
RISER DIAGRAM  
NO SCALE

RISER DIAGRAM GENERAL NOTES

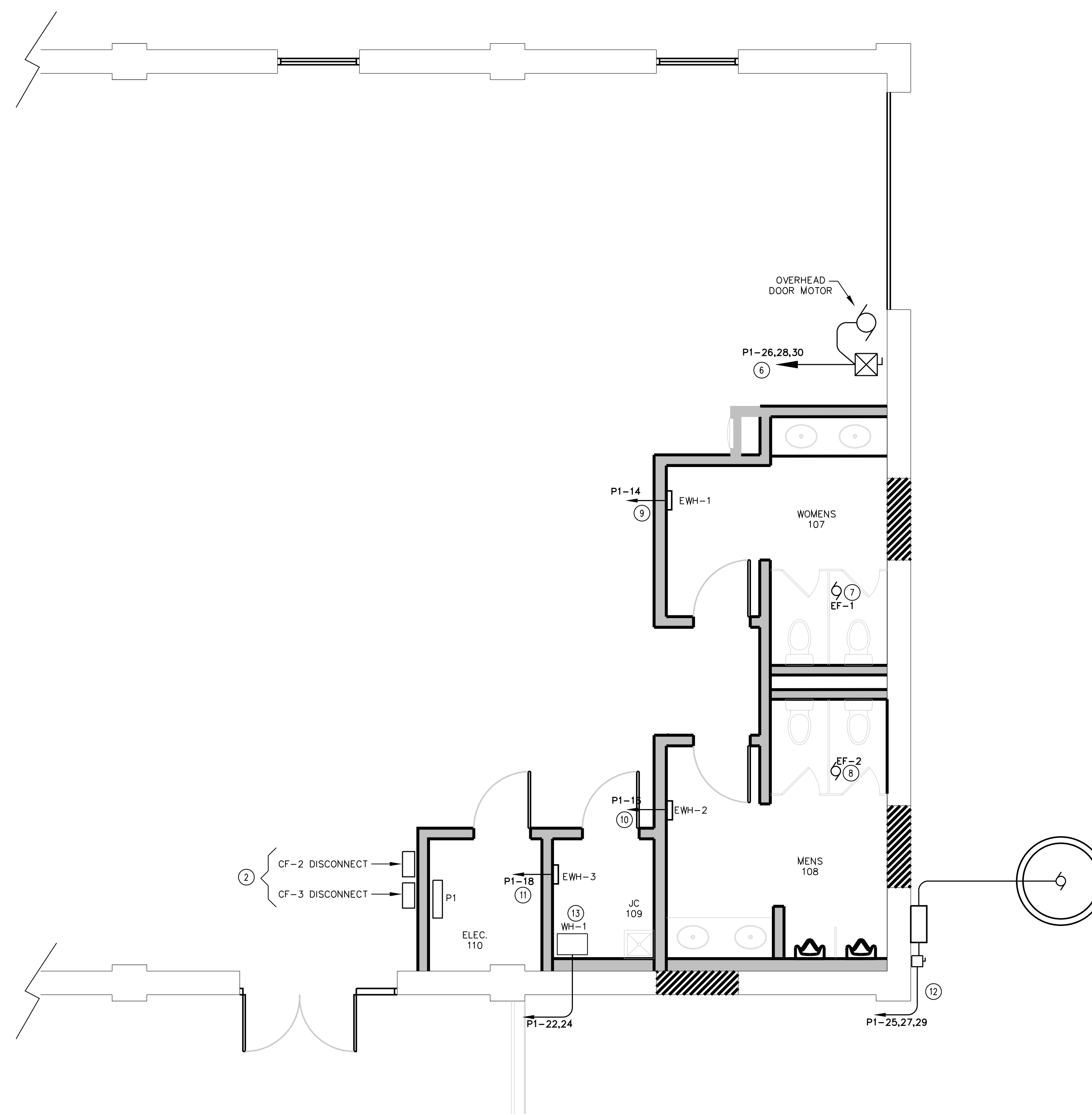
1. ALL CONDUCTORS MUST HAVE A MEGGER TEST PERFORMED BY THE CONTRACTOR PRIOR TO CONNECTION. COORDINATE WITH SRM FOR WITNESS.
2. THE CONTRACTOR MUST OBTAIN A DIGGING PERMIT FROM SRM IN ADDITION TO ANY PA ONECALL REQUIREMENTS AT LEAST ONE WEEK IN ADVANCE OF ANY EXCAVATION.
3. ALL UNDERGROUND TERMINATIONS MUST BE APPROVED BY SRM PRIOR TO ANY BACKFILLING WORK.
4. ALL UNDERGROUND CONDUIT SHALL BE PVC (TO INCLUDE COMMUNICATIONS) EXCEPT ALL ELBOWS SHALL BE WIDE SWEEP RIGID CONDUIT. IF THE CONDUIT REMAINS UNDERGROUND LATERALLY, IT CAN TRANSITION BACK TO PVC. HOWEVER, IF THE SNEEP IS RISING, IT SHALL REMAIN RUS UL TERMINATION INTO CABINETS OR UP POLE AS DIRECTED.
5. PROVIDE ANY AND ALL ROOF PENETRATIONS (BROW ROOF), TO INCLUDE FLASHING, BOOTS, SEALANTS, ETC. FOR ANY ELECTRICAL OR COMMUNICATIONS PENETRATIONS.

RISER DIAGRAM PLAN NOTES

- 1 EXISTING INCOMING CONDUCTORS FROM EXISTING UTILITY POLE MOUNTED TRANSFORMER LOCATED NEAR BUILDING #57 ON EXISTING UTILITY POLE APPROXIMATELY 50' FROM THE BUILDING.
- 2 PROVIDE NEW CT CABINET - VERIFY LOCATION. PROVIDE 200:5 SPLIT CORE CTS. WIRE CTS TO SMART METER IN NEMA 1 STEEL ENCLOSURE LOCATED IN ELEC/IT ROOM 103 VIA CONTROL CABLE AND/OR CONDUCTORS RECOMMENDED BY METER MANUFACTURER IN RIGID CONDUIT.
- 3 #6 GROUNDING ELECTRODE CONDUCTOR. PROVIDE BONDING JUMPER TO WATER PIPE AND ACROSS WATER METER. THESE GROUNDING REQUIREMENTS ARE NOT ALL INCLUSIVE. ALL GROUNDING SHALL BE AS PER NEC WHETHER MENTIONED SPECIFICALLY OR NOT. SEE GROUNDING DETAIL, DRAWING E.2.1.
- 4 EXISTING DIGITAL TIME SWITCH, WIRED FOR PHOTOCELL ON/TIMECLOCK OFF OPERATION.
- 5 EXISTING PHOTOCELL MOUNTED HIGH ON BUILDING.
- 6 PROVIDE SQUARE D 5560 SMART METER (NO SUBSTITUTIONS) IN NEMA 1, STEEL ENCLOSURE. METER SHALL BE MOUNTED IN HINGED PAINTED STEEL DOOR, I.E. PANEL BACKBOX AND STANDARD GRAY COVER.
- 7 PROVIDE 2" CONDUIT. ROUTE NEW 3Ø/Ø CU THIN CONDUCTOR FROM CT CABINET IN CONDUIT AND TERMINATE IN PANEL AS REQUIRED. CONDUIT MAY BE EMT IN INTERIOR OF BLDG.
- 8 PROVIDE 1 1/2" CONDUIT. ROUTE NEW 4Ø CU THIN CONDUCTORS AND 1 #6 GND.



POWER PLAN - MECH. EQUIP.  
SCALE: 1/4" = 1'-0"



VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING.  
0 1  
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY.

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT BUREAU OF ENGINEERING AND ARCHITECTURE APPROVAL.

NO.	DESCRIPTION	DATE
1	ADDITION OF UNIT AND INFRARED HEATERS	02MAY23
REVISIONS		

Professional's Signature \_\_\_\_\_ Date \_\_\_\_\_  
**COMMONWEALTH OF PENNSYLVANIA**  
**DEPT. OF MILITARY & VETERAN'S AFFAIRS**  
ANNVILLE, PENNSYLVANIA

DESIGN PROFESSIONALS:  
OFFICE OF FACILITIES AND ENGINEERING  
BUREAU OF DESIGN AND PROJECT MANAGEMENT  
BLDG. 0-10, FORT INDIANTOWN GAP  
ANNVILLE, LEBANON COUNTY, PENNSYLVANIA

PROJECT NO.: 42190067

**RENOVATIONS TO**  
**FT. MIFFLIN BLDG. 57**  
PHILADELPHIA  
PHILADELPHIA COUNTY, PENNSYLVANIA

**POWER PLAN**

DRAWN BY <b>D. HEALEY</b>	DATE <b>31 MAR 2022</b>	DRAWING NO. <b>E.2.1</b>
CHECKED BY <b>B. BARGER</b>	SCALE <b>AS NOTED</b>	