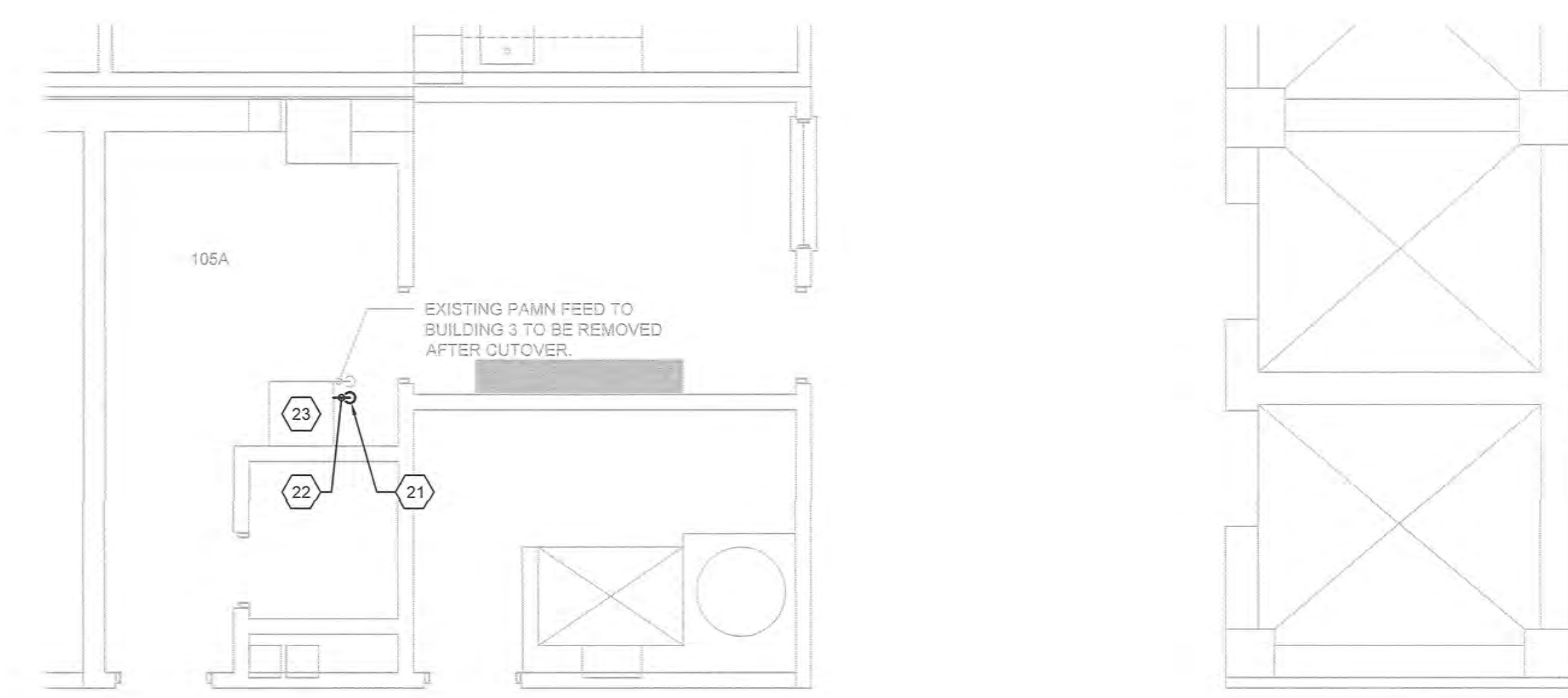
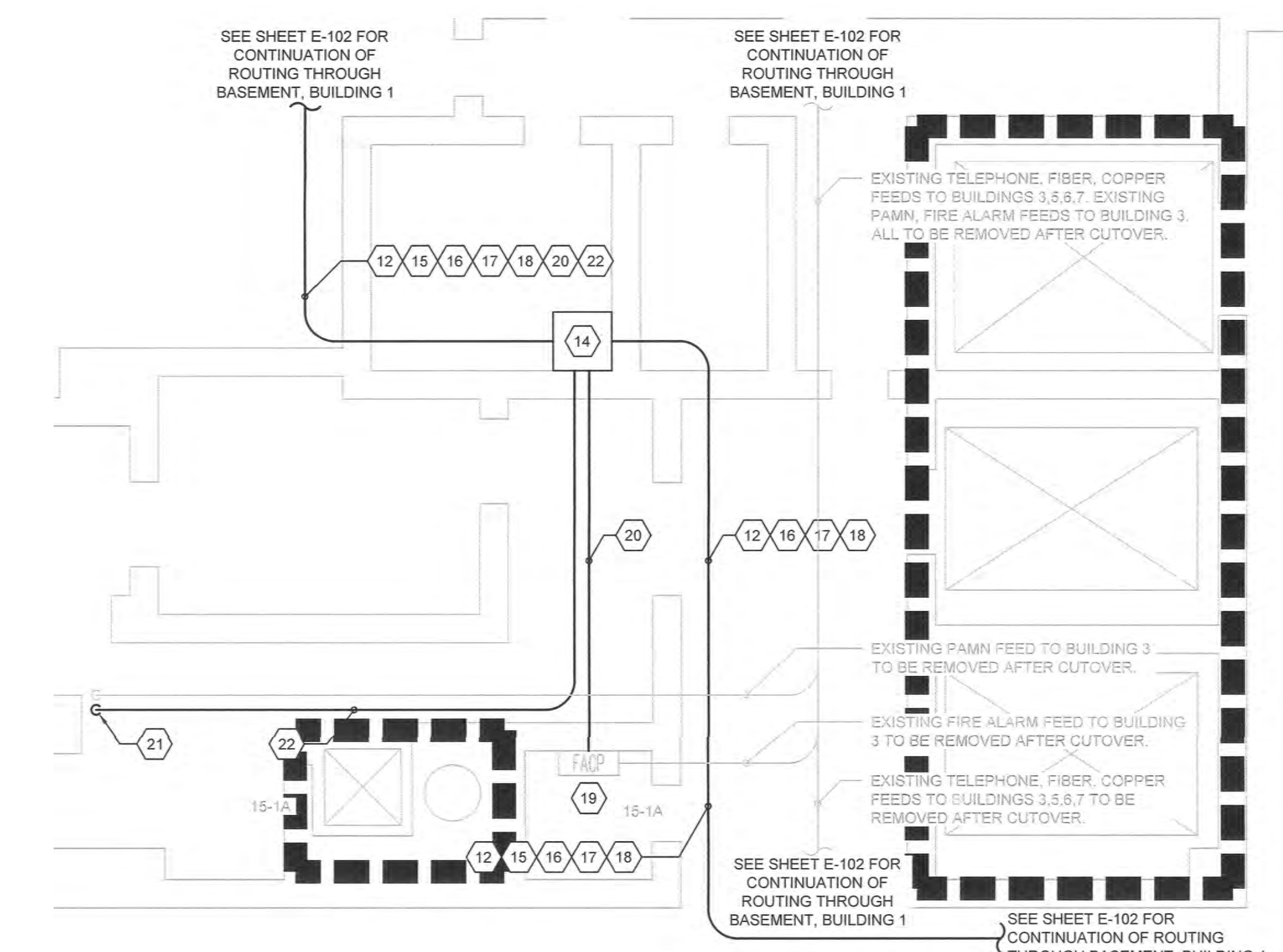


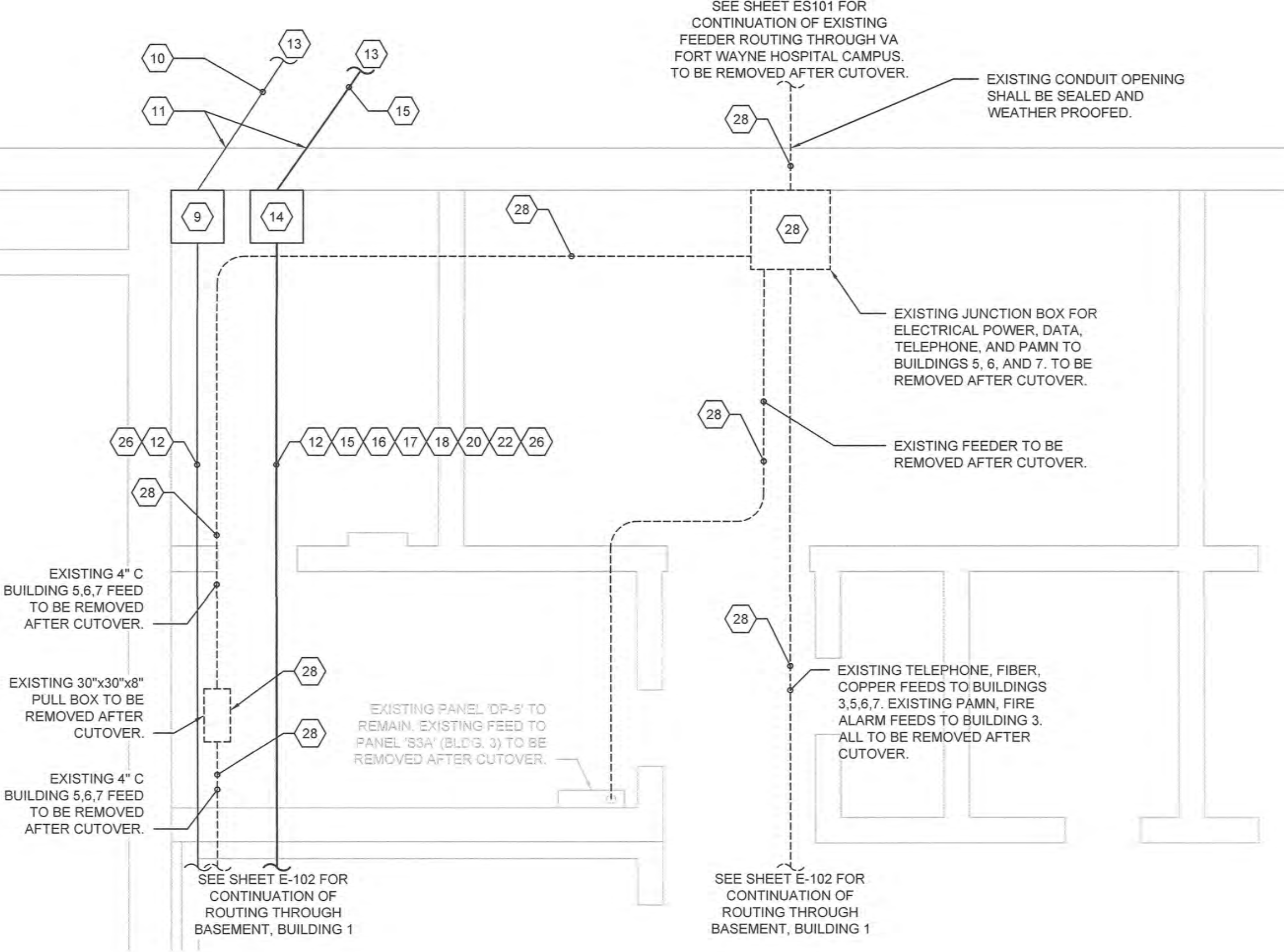
three inches = one foot  
 one and one half inches = one foot  
 one inch = one foot  
 three quarters inch = one foot  
 one half inch = one foot  
 three eighths inch = one foot  
 one quarter inch = one foot  
 one eighth inch = one foot



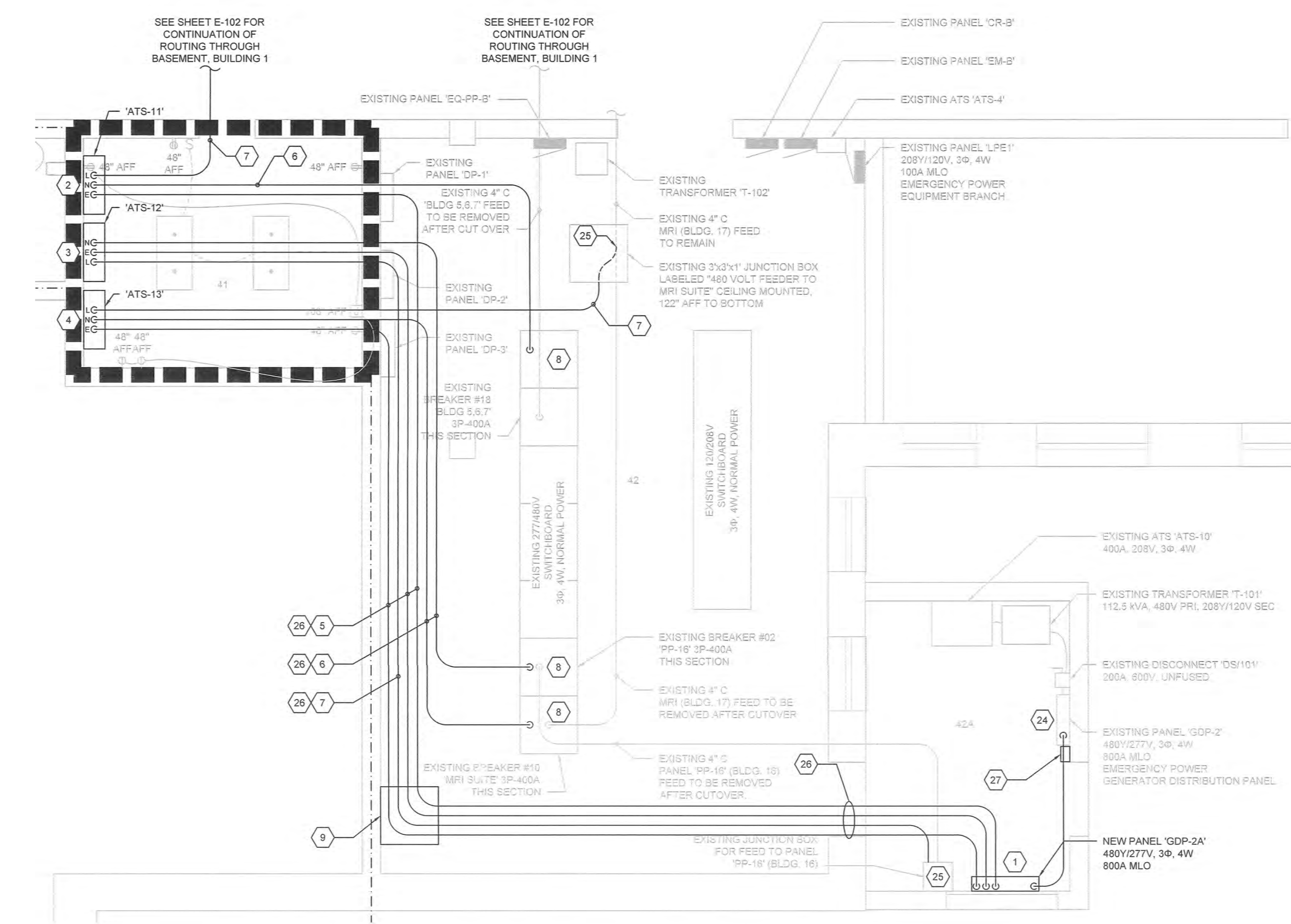
**4 ENLARGED FIRST FLOOR PAMN ROOM PLAN**  
 1/4" = 1'-0"



**3 ENLARGED BASEMENT FIRE ALARM ROOM PLAN**  
 1/4" = 1'-0"



**2 ENLARGED ROOM 4, 4A, AND 5 PLAN**  
 1/4" = 1'-0"



**1 ENLARGED ROOM 41, 42, AND 42A PLAN**  
 1/4" = 1'-0"


**GENERAL NOTES**

- CONTRACTOR SHALL PROVIDE A PULL BOX FOR EVERY 360° OF BENDS MAXIMUM IN A CONDUIT RUN.
- ALL PENETRATIONS AROUND CONDUITS, EXISTING AND NEW, SHALL BE SEALED WITH APPROVED SEALANTS.
- AFTER ALL THE CABLING IS INSTALLED AND TESTED, THE CONTRACTOR SHALL SEAL ALL THE CONDUITS WITH APPROVED SEALANTS.
- AFTER ALL POWER, FIRE ALARM, TELEPHONE, AND FIBER CABLING ARE INSTALLED, TERMINATED, AND TESTED, THE CONTRACTOR SHALL REMOVE ALL EXISTING CABLING, COORDINATE WITH COR.
- FIRE STOP ALL FIRE WALL PENETRATIONS WITH APPROPRIATE FIRE WALL RATING.
- ALL EXISTING CONDITIONS/DRAWINGS ARE BASED ON BEST AVAILABLE INFORMATION AT THE TIME OF SURVEY AND VISUAL INSPECTION CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS.
- DEMO ANY EXISTING EQUIPMENT, FIXTURES, AND CONDUITS THAT ARE IN THE WAY OF NEW WORK.

**KEY NOTES**

- CONTRACTOR SHALL PROVIDE NEW PANEL 'GDP-2A' 480Y/277V, 3Ø, 4W, 800A MLO EMERGENCY POWER GENERATOR DISTRIBUTION PANEL. PANEL SHALL BE FED FROM TAPS AT THE MAIN LUGS OF EXISTING PANEL 'GDP-2'. SEE SHEET E-604 FOR MORE INFORMATION. PANEL SHALL BE A MINIMUM OF 42" WIDE TO ACCOMMODATE (2) 3P-400A FRAME BREAKERS SIDE BY SIDE LATERALLY ALONG BUS.
- CONTRACTOR SHALL PROVIDE ATS 'ATS-11' 480V, 3Ø, 3W, 400A EMERGENCY EQUIPMENT BRANCH TO SERVE NEW FEED FOR BUILDINGS 3, 5, 6, AND 7. SEE SHEETS E-802 AND E-804 FOR MORE INFORMATION.
- CONTRACTOR SHALL PROVIDE ATS 'ATS-12' 480V, 3Ø, 3W, 400A EMERGENCY EQUIPMENT BRANCH TO SERVE NEW FEED FOR PANEL 'PP-16' (BUILDING 16). SEE SHEETS E-801 AND E-804 FOR MORE INFORMATION.
- CONTRACTOR SHALL PROVIDE ATS 'ATS-13' 480Y/277V, 3Ø, 4W, 400A EMERGENCY EQUIPMENT BRANCH TO SERVE NEW FEED FOR MRI SUITE (BUILDING 17). SEE SHEETS E-801 AND E-804 FOR MORE INFORMATION.
- NEW EMERGENCY POWER FEEDS TO NEW AUTOMATIC TRANSFER SWITCHES. SEE SHEETS E-801 THROUGH E-805 FOR MORE INFORMATION. ROUTING SHOWN IS PROPOSED. CONTRACTOR SHALL VERIFY ACTUAL ROUTING ON SITE.
- NEW NORMAL POWER FEEDS TO NEW AUTOMATIC TRANSFER SWITCHES. SEE SHEETS E-801 THROUGH E-805 FOR MORE INFORMATION. ROUTING SHOWN IS PROPOSED. CONTRACTOR SHALL VERIFY ACTUAL ROUTING ON SITE.
- NEW POWER LOAD FEEDS FROM NEW AUTOMATIC TRANSFER SWITCHES. SEE SHEETS E-801 THROUGH E-805 FOR MORE INFORMATION. ROUTING SHOWN IS PROPOSED. CONTRACTOR SHALL VERIFY ACTUAL ROUTING ON SITE. CONTRACTOR SHALL COORDINATE CUTOVER FROM NORMAL TO EMERGENCY POWER WITH COR.
- CONTRACTOR SHALL PROVIDE NEW 3-POLE, 400A FRAME, 400A TRIP, SOLID STATE CIRCUIT BREAKERS WITH DISPLAY TO MATCH EXISTING SQUARE D BREAKERS, CONDUCTORS, CONDUIT, BOXES, AND SUPPORTS FOR THE NEW NORMAL POWER FEEDS TO NEW AUTOMATIC TRANSFER SWITCHES 'ATS-11', 'ATS-12', AND 'ATS-13'. SEE SHEET E-102 FOR PROPOSED ROUTING. CONTRACTOR SHALL VERIFY ACTUAL ROUTING. SEE SHEETS E-801 THROUGH E-805 FOR MORE INFORMATION. CONTRACTOR SHALL COORDINATE CUTOVER FROM NORMAL TO EMERGENCY POWER WITH COR.
- CONTRACTOR SHALL PROVIDE NEW PULL BOX (HINGED) FOR POWER. SIZE PER NEC.
- CONTRACTOR SHALL PROVIDE (2) 6" CONDUIT FROM THIS PULL BOX TO NEW MANHOLE WITH 2 RUNS OF 3-350 KCMIL 2-2 AWG EG IN ONE 6" C. THE SECOND 6" C SHALL BE SPARE WITH PULL WIRE.
- CONTRACTOR SHALL CORE DRILL FOUNDATION WALL. VERIFY EXACT LOCATION WITH STRUCTURAL ENGINEER. SLOPE CONDUIT DOWNWARD TO OUTSIDE SO THAT OUTWART END OF SLEEVES IS 5" BELOW INSIDE ENDS (48"-6").
- CONTRACTOR SHALL PROVIDE CONDUIT TRAPEZE SUPPORTS. SEE DETAIL ON SHEET E-502 FOR MORE INFORMATION.
- TO NEW MANHOLE #1: SEE SHEETS ES101, ES102, AND E-501 FOR MORE INFORMATION.
- CONTRACTOR SHALL PROVIDE NEW PULL BOX (HINGED) FOR FIBER, TELEPHONE, AND PAMN. SIZE PER NEC.
- CONTRACTOR SHALL PROVIDE (2) 4" C AND (2) 3" C BETWEEN PULL BOX AND MANHOLE MH#1. SEE ES101 AND E-501 FOR MORE INFORMATION.
- CONTRACTOR SHALL PROVIDE 72 SINGLE MODE INDOOR/OUTDOOR TIGHT-BUFFERED INTERLOCK ARMORED FIBER OPTIC FROM OIT ROOM 57 TO BUILDING 3 BASEMENT OIT RACK THROUGH THE CONDUITS, PULL BOXES, AND MANHOLES MH#1 AND MH#2.
- CONTRACTOR SHALL PROVIDE 24 MULTI-MODE (50 MICRON OM4) INDOOR/OUTDOOR TIGHT-BUFFERED INTERLOCK ARMORED FIBER OPTIC FROM OIT ROOM 57 TO BUILDING 3 BASEMENT OIT RACK THROUGH THE CONDUITS, PULL BOXES, AND MANHOLES MH#1 AND MH#2.
- CONTRACTOR SHALL PROVIDE 100 PAIR INDOOR/OUTDOOR CAT5 TELEPHONE CABLE FROM OIT ROOM 57 TO BUILDING 3 BASEMENT OIT RACK THROUGH THE CONDUITS, PULL BOXES, AND MANHOLES MH#1 AND MH#2.
- LOCATION OF EXISTING SIMPLEXGRINNELL FIRE ALARM SYSTEM.
- CONTRACTOR SHALL PROVIDE 6-82.5 MICRON MULTI-MODE OM4 FIBER IN 2" C TO PULL BOX AND 6-82.5 MICRON MULTI-MODE OM4 FIBER FROM PULL BOX TO BUILDING 3 BASEMENT FIRE ALARM PANEL THROUGH THE CONDUITS, PULL BOXES, AND MANHOLES MH#1 AND MH#2.
- CONTRACTOR SHALL CORE DRILL FLOOR FOR THE PAMN CONDUIT FEED FROM 1ST FLOOR TO THE BASEMENT. VERIFY EXACT LOCATION WITH STRUCTURAL ENGINEER.
- CONTRACTOR SHALL PROVIDE 2-14 AWG, 14 AWG EG, IN 1" C FROM EXISTING PAMN CABINET TO PULL BOX AND CONTINUE TO BUILDING 3 BASEMENT PAMN BOX THROUGH THE CONDUITS, PULL BOXES, AND MANHOLES MH#1 AND MH#2.
- EXISTING PUBLIC ADDRESS MASS NOTIFICATION (PAMN) SYSTEM CABINET.
- CONTRACTOR SHALL CLEAN EXISTING LUGS, CABLES AND REINSTALL. PROVIDE NON-CORROSIVE CLEANING MATERIAL. COORDINATE WORK WITH COR.
- CONTRACTOR SHALL SPlice EXISTING CABLES WITH NEW. COORDINATE WORK WITH COR.
- THIS IS A PROPOSED ROUTING PER THE SITE SURVEY AND VISUAL INSPECTION. IF THE CONTRACTOR PROPOSES A NEW ROUTING THEY SHALL SUBMIT THE NEW PROPOSED ROUTING TO COR FOR APPROVAL.
- EXISTING REMOTE ATS CONTROL PANEL. PROVIDE NEW WIRING AND CONDUIT FROM NEW ATS #1, ATS #12 AND ATS #13 TO THIS PANEL. LABEL EXISTING PANEL PER CORVA.
- EXISTING PULL BOX, CONDUIT, CABLING, SUPPLIES SHALL BE REMOVED AFTER NEW WORK IS COMPLETED AND TESTED. SEAL AND CAP ALL OPENINGS.

100% CONSTRUCTION DOCUMENTS

<b>CONSULTANTS:</b> [Blank space for consultant information]		<b>ARCHITECT/ENGINEERS:</b>  Raleigh, NC Indianapolis, IN Philadelphia, PA Pittsburgh, PA Virginia Beach, VA Fort Collins, CO (919) 553-7622 www.apogee.com Apogee Project # 2014-121		Drawing Title <b>BUILDING 1 - ENLARGED ELECTRICAL PLANS</b>		Project Title <b>REPLACE MAIN ELECTRICAL TO OUT-BUILDINGS</b>		Project Number 610A4-12-188		Office of Construction and Facilities Management Department of Veterans Affairs	
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Revisions: [Blank space]		Date: [Blank space]		Drawing Number <b>E-401</b>		Dwg. 36 of 48		[Blank space]			