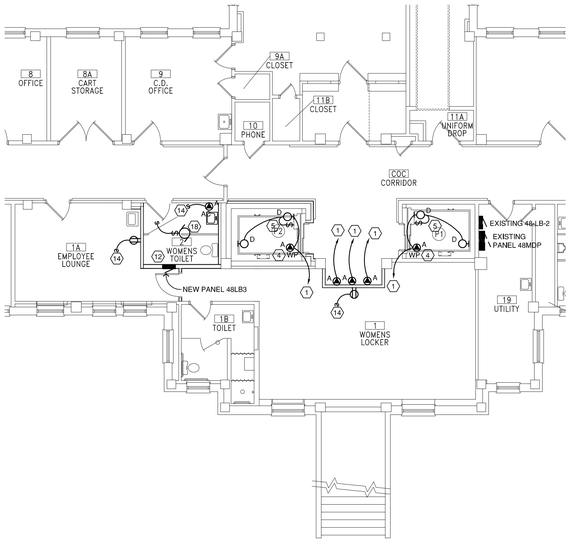
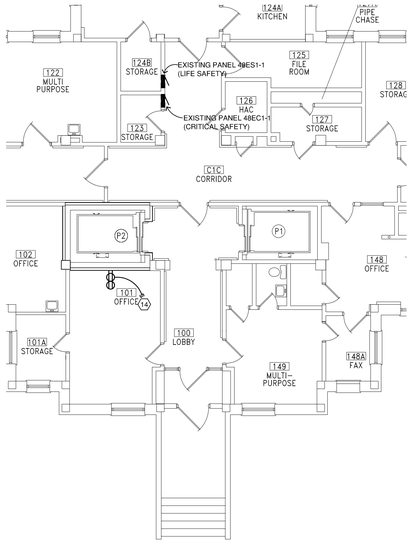


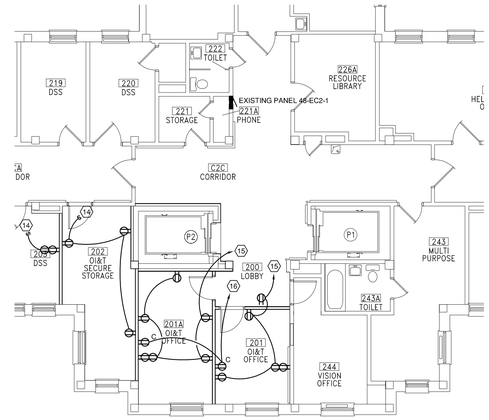
1 E3 BASEMENT POWER PLAN

0' 4' 8' 16'



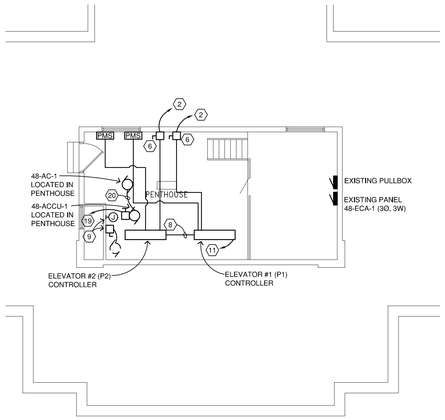
2 E3 FIRST FLOOR POWER PLAN

0' 4' 8' 16'



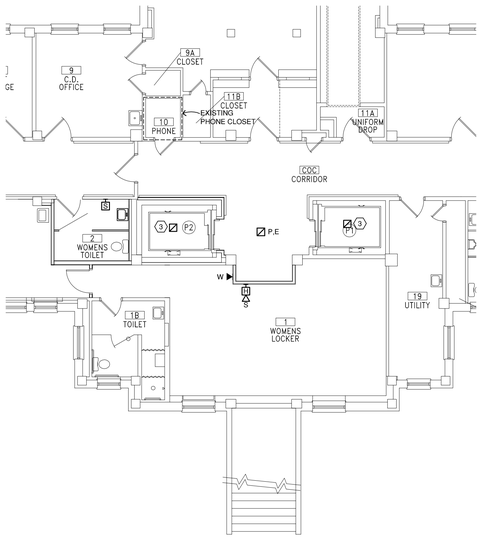
3 E3 SECOND FLOOR POWER PLAN

0' 4' 8' 16'



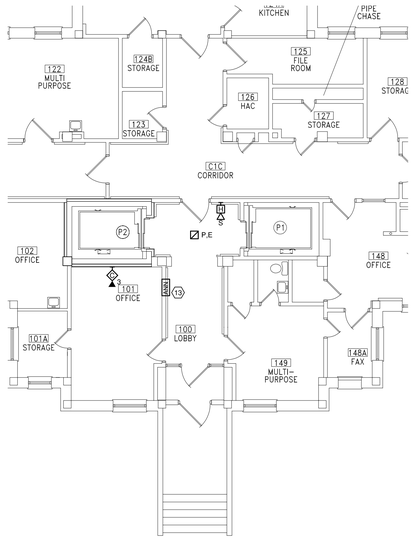
4 E3 ATTIC FLOOR POWER PLAN

0' 4' 8' 16'



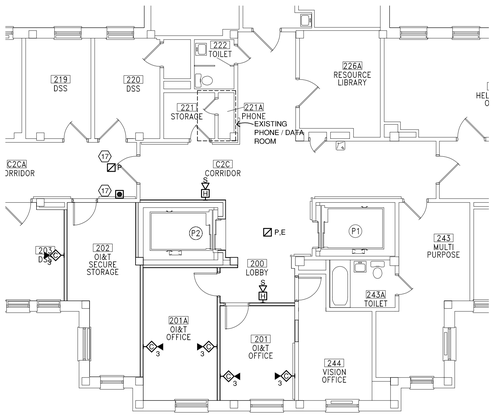
5 E3 BASEMENT SYSTEMS PLAN

0' 4' 8' 16'



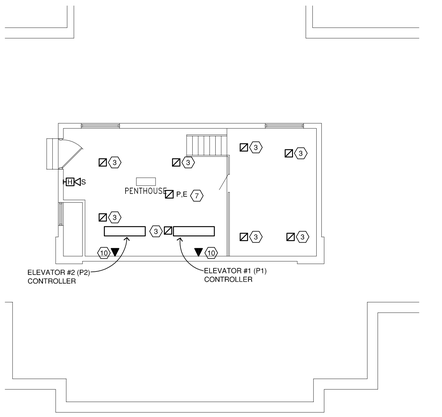
6 E3 FIRST FLOOR SYSTEMS PLAN

0' 4' 8' 16'



7 E3 SECOND FLOOR SYSTEMS PLAN

0' 4' 8' 16'



8 E3 ATTIC FLOOR SYSTEMS PLAN

0' 4' 8' 16'

GENERAL NOTES:

1. ALL PANELBOARDS SHOWN ARE EXISTING TO REMAIN IN PLACE.
2. CONDUCTORS/CONDUIT FROM ELEVATOR CONTROLLER TO ELEVATOR MOTORS BY DIVISION 14. COORDINATE SIZES AND LOCATIONS OF ELECTRICAL EQUIPMENT, DEVICES AND CIRCUITS WITH THE REQUIREMENTS OF DIVISION 14.
3. LAYOUT OF THE ELEVATOR EQUIPMENT ROOM 23 IS DIAGRAMMATICAL IN NATURE, ACTUAL ROOM LAYOUT PROVIDED BY THE ARCHITECT IN CONJUNCTION WITH DIVISION 14.
4. THE FIRE ALARM SYSTEM WIRING SHALL BE INSTALLED IN CONDUIT. DRAWINGS FOR THE FIRE ALARM SYSTEMS ARE DIAGRAMMATIC ONLY, EXACT WIRING REQUIREMENTS SHALL BE PROVIDED BY THE SYSTEM MANUFACTURER.
5. CONNECT NEW FIRE ALARM DEVICES TO THE EXISTING FIRE ALARM SYSTEM AS REQUIRED. FIRE ALARM DEVICES SHOULD BE MOUNTED CENTERED ABOVE SWITCHES WHENEVER POSSIBLE.
6. ALL PA SPEAKERS SHOWN ARE SALVAGED AND REMOUNTED IN THE NEW CEILING GRID. CONNECT ALL PA SPEAKERS TO PAGING ZONE ON THIS FLOOR. PROVIDE CONNECTIONS, ADJUST TRANSFORMER TAPS AND BALANCE PAGING ZONE FOR PROPER PERFORMANCE. SEE SPECIFICATION SECTION 275117 FOR ADDITIONAL REQUIREMENTS.
7. CONNECT NEW DATA / PHONE DEVICES TO EXISTING DATA AND PHONE PATCH PANELS / PUNCHDOWN BLOCKS. PROVIDE NEW PATCH PANEL OR 110 BLOCKS IF NECESSARY.
8. WORK IN COMMUNICATIONS CLOSETS NEEDS TO BE SCHEDULED IN ADVANCE WITH COTR. ACCESS TO COMMUNICATIONS ROOMS IS RESTRICTED.

PLAN NOTES:

1. PROVIDE 2#12,#12G,3/4"C AND 20A/1P MCCB IN PANEL 48LB-3.
2. PROVIDE 120VAC, 20A EMERGENCY LIFE SAFETY BRANCH CIRCUIT FROM NEAREST EMERGENCY LIFE SAFETY PANELBOARD. PROVIDE 2#12,#12G,3/4"C AND 20A/1P MCCB.
3. PROVIDE RATE COMPENSATION (135 DEG F) HEAT DETECTOR IMMEDIATELY ADJACENT TO EACH SPRINKLER HEAD, TOTAL QUANTITY OF HEAT DETECTORS/SPRINKLER HEADS DEPENDS UPON SPRINKLER PERFORMANCE SPECIFICATION 211313, CONNECT DEVICE TO THE SHUNT TRIP OF THE MAIN ELEVATOR POWER DISCONNECTING MEANS.
4. NON-SWITCHED RECEPTACLE, MOUNTED 6" ABOVE LANDING LEVEL.
5. LIGHT SWITCH MOUNTED 6" ABOVE TOP OF LADDER CLOSE TO ENTRY SIDE.
6. PROVIDE 30A/2P, 240VAC, NEMA 1 FUSIBLE LOCKABLE DISCONNECT SWITCH WITH 2-15A FUSES FOR ELEVATOR CAB LIGHTS AND RECEPTACLES.
7. PROVIDE FA SYSTEM SUPERVISOR ON MANUAL FIRE PROTECTION SHUT-OFF VALVE FOR MACHINE ROOM. USE FLOW SWITCH TO ACTIVATE SHUNT TRIP ALONG WITH HEAT DETECTOR.
8. PROVIDE INTERCONNECTION CONDUIT/CONDUCTORS BETWEEN ELEVATOR CONTROLLERS AS REQUIRED BY DIVISION 14. COORDINATE EXACT REQUIREMENTS AND WORK WITH DIVISION 14.
9. RELOCATE EXISTING FAN STARTER AND BUILDING AUTOMATION CONTROL WIRING TO THIS LOCATION. EXTEND EXISTING WIRING / CONDUIT.
10. TELECOMMUNICATIONS OUTLET FOR ELEVATOR CAB PHONE. COORDINATE EXACT LOCATION, MOUNTING HEIGHT, AND REQUIREMENTS WITH DIVISION 14. PROVIDE CONDUIT/CONDUCTORS AS REQUIRED.
11. PROVIDE CONNECTION AND CONDUIT/CONDUCTORS FROM THE ELEVATOR#2 CONTROLLER TO THE EXISTING EMERGENCY EQUIPMENT ATS 48-EC FOR DIVISION 14 SIGNALS AS REQUIRED FOR: (1) ONE N.C. DRY CONTACT - INDICATING EMERGENCY POWER IS BEING SUPPLIED AND (2) ONE N.O. DRY CONTACT - CLOSES 15 SECONDS PRIOR TO TRANSFER. COORDINATE EXACT REQUIREMENTS WITH DIVISION 14. PROVIDE CONTACTS IN ATS AS NECESSARY.
12. PROVIDE NEW RECESSED PANEL BOARD AT THIS LOCATION. PROVIDE (4) #10 + #6 G. IN 2" C. TO PANEL 48MDP. CONNECT TO EXISTING 150A/3P MCCB THAT PREVIOUSLY FED DEMOLISHED PANEL48LB4. EXTEND ALL EXISTING CIRCUITS FROM DEMOLISHED PANEL 48LB3 AND (3) CIRCUITS FROM DEMOLISHED PANEL 48LB4 TO NEW PANEL 48LB4. VERIFY BREAKER REQUIREMENTS.
13. RELOCATE EXISTING FIRE ALARM ANNUNCIATOR TO THIS LOCATION. PROVIDE NEW CONDUCTORS BACK TO FIRE ALARM CONTROL PANEL AS NECESSARY.
14. CONNECT TO EXISTING NORMAL POWER CIRCUIT.
15. PROVIDE (2) #12 + #12 G. IN 3/4" C. TO NORMAL POWER PANEL 48L2-2. PROVIDE 20A/1P MCCB TO MATCH PANEL SPECIFICATIONS. 22 KAIC MINIMUM.
16. PROVIDE (2) #12 + #12 G. IN 3/4" C. TO CRITICAL POWER PANEL 48-EC2-1. PROVIDE 20A/1P MCCB TO MATCH PANEL SPECIFICATIONS. 22 KAIC MINIMUM.
17. REINSTALL EXISTING MAG-HOLD AND SMOKE DETECTOR.
18. PROVIDE CONNECTION TO EXHAUST FAN FROM NEAREST ADEQUATE NORMAL POWER RECEPTACLE CIRCUIT.
19. PROVIDE (2) #10 + #10 G. IN 3/4" C. TO CRITICAL POWER PANEL 48-EC2-1. PROVIDE 30A/2P MCCB TO MATCH PANEL SPECIFICATIONS. 22 KAIC MINIMUM. PROVIDE 30A/3P DISCONNECT AT CONDENSING UNIT.
20. PROVIDE POWER CONNECTION FROM CONTACTS ON CONDENSING UNIT TO INDOOR EVAPORATOR. PROVIDE (3) #12 + #12 G. IN 3/4" C.

No	REVISION	DATE

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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: Anthony R. Nelson

Signed: _____

Date: 02/28/2011 License Number: 48553

APPROVED SERVICE LINE DIRECTOR DATE:	APPROVED INFECTION CONTROL NURSE DATE:	DRAWING TITLE: ELECTRICAL POWER AND SYSTEMS PLANS	PROJECT TITLE: BUILDING 48 ELEVATOR
APPROVED SERVICE LINE DIRECTOR DATE:	APPROVED PATIENT SAFETY DATE:		
APPROVED PROJECTS SECTION MANAGER DATE:	APPROVED CHIEF OF POLICE DATE:		
APPROVED DIRECTOR FMS DATE:	APPROVED SAFETY MANAGER DATE:		
APPROVED CHIEF OF STAFF DATE:	BUILDING No: 48 / CHECKED BY: RM / DRAWN: MD	DATE: FEBRUARY 28, 2011	
APPROVED MEDICAL CENTER DIRECTOR DATE:	LOCATION: VA MEDICAL CENTER ST.CLOUD, MN 56303	PLOT SCALE	
		PROJECT NO: 656-10-180	
		CAD FILE	
		DRAWING NO: E3 SHG. 31 OF 12	

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