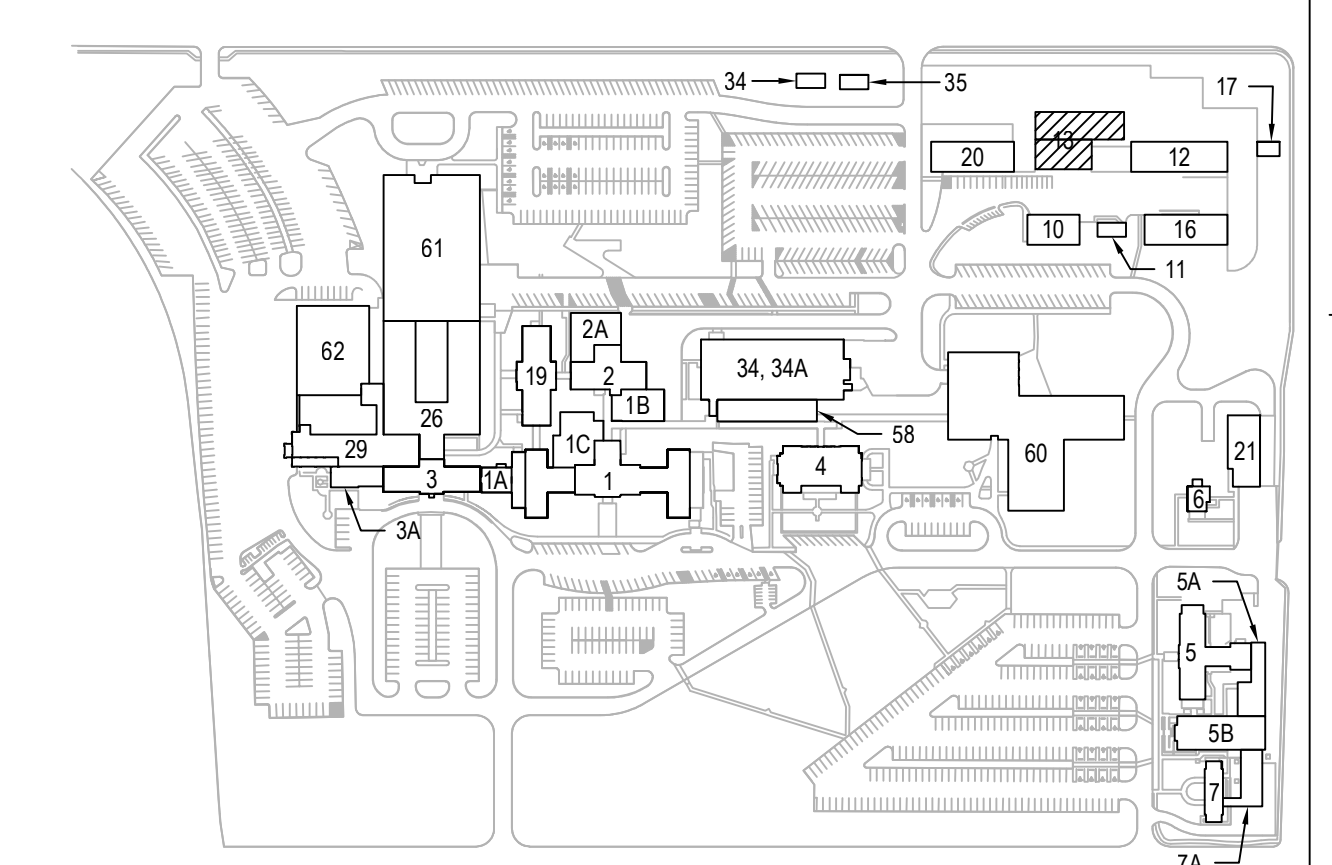


**GENERAL SHEET NOTES:**

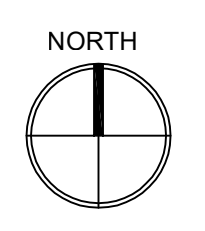
1. PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL INSTALL ALL ELECTRICAL CONNECTIONS AND EQUIPMENT ASSOCIATED WITH THE RELOCATED UNDERGROUND FEEDERS. REFER TO SHEET ES101.
2. REFER TO SHEETS E-001 AND E-002 FOR SYMBOLS, ABBREVIATIONS AND NOTES.
3. REFER TO SHEET ES100 FOR SITE PLAN SHOWING DEMOLISHED CONDUITS.
4. REFER TO SHEET E-601 FOR DEMOLITION SINGLE LINE DIAGRAM.
5. THE CONTRACTOR SHALL COORDINATE ELECTRICAL DEMOLITION OF BUILDING ARCHITECTURAL, PIPING AND MECHANICAL EQUIPMENT AS PER EACH DISCIPLINE DEMOLITION DRAWINGS.
6. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE VA TO MINIMIZE DISTURBANCES. PROVIDE TWO-WEEK NOTICE PRIOR TO ANY SCHEDULED OUTAGE.
7. UNLESS NOTED OTHERWISE, ALL ITEMS SHOWN DASHED SHALL BE REMOVED INCLUDING ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
8. CIRCUITS SHOWN AS DEMOLISHED SHALL INCLUDE THE REMOVAL OF ALL CONDUIT, WIRING AND CONNECTION TO EQUIPMENT, UNLESS NOTED OTHERWISE.
9. REMOVE ALL EXPOSED ABANDONED AND EMPTY CONDUITS.
10. EMBEDDED CONDUIT SHALL BE CUT TO 1" [27] BELOW TOP OF CONCRETE SURFACE. REMOVE ALL WIRING BACK TO SOURCE AND SEAL PENETRATIONS (WITH CONCRETE) AT BOTH ENDS.
11. ALL WALL PENETRATIONS SHALL BE PATCHED UPON REMOVAL OF CONDUITS.
12. THE CONTRACTOR SHALL NOTE THE PRESENCE OF ASBESTOS. REFER TO ACM DRAWINGS AND SPECIFICATIONS.
13. NOT ALL JUNCTION BOXES, PULL BOXES, WIRE TROUGHS, CONDUITS AND CONDUIT BODIES ARE SHOWN ON THE DEMOLITION PLANS; THE CONTRACTOR SHALL REMOVE ALL JUNCTION BOXES, PULL BOXES, WIRE TROUGHS, CONDUITS AND CONDUIT BODIES ASSOCIATED WITH DEMOLISHED EQUIPMENT/DEVICES.

**SHEET KEYNOTES:**

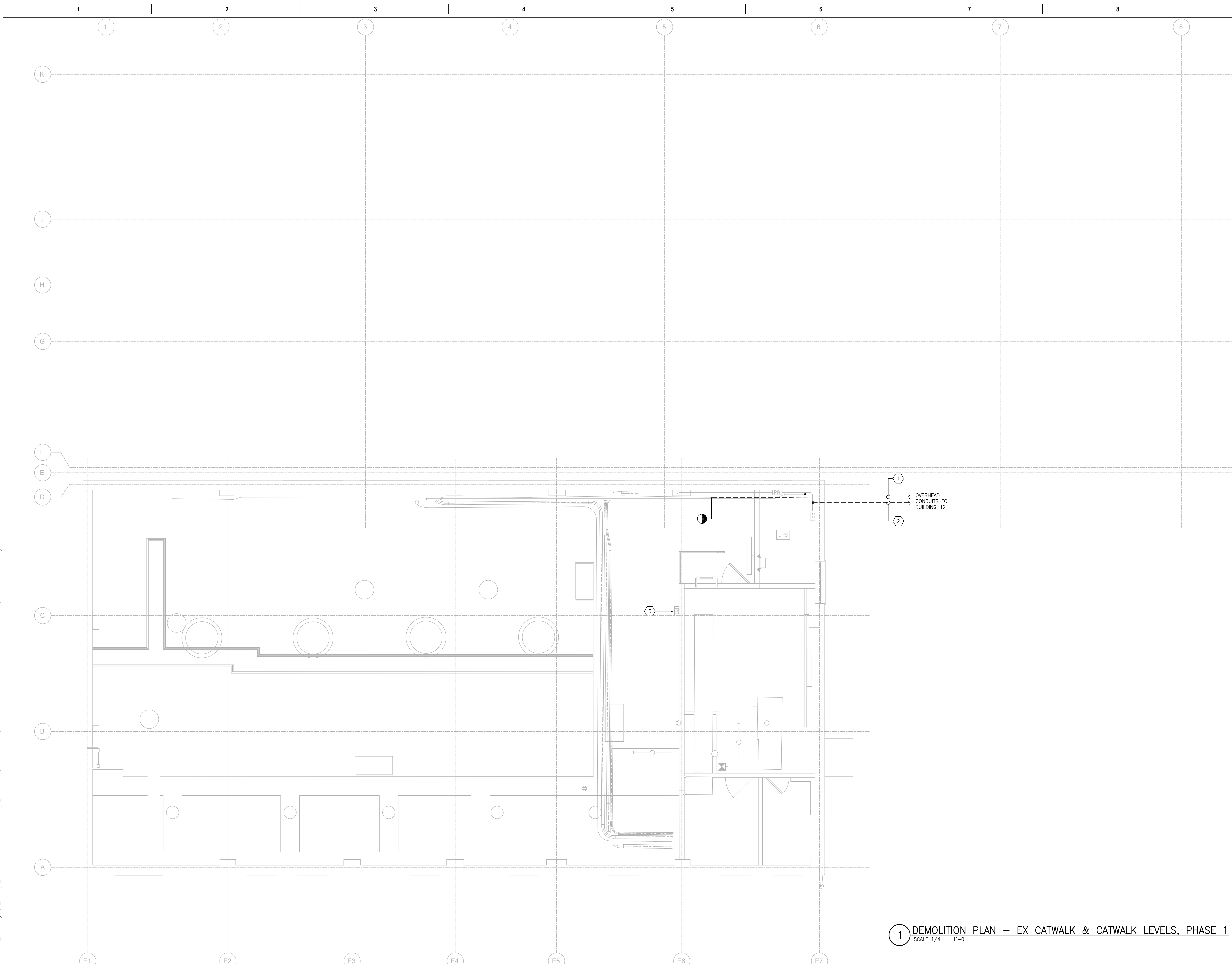
1. REMOVE CONDUIT AND FEEDER ROUTED ALONG PIPE RACK BETWEEN BUILDING 13 AND BUILDING 12. FEEDER ORIGINATES FROM PANEL G. INTERCEPT FEEDER AT INDICATED POINT. REFER TO SHEET 12-ED111.01 FOR CONTINUATION.
2. REMOVE CONDUIT AND CABLES ROUTED ALONG PIPE RACK BETWEEN BUILDINGS 13 AND BUILDING 12. CABLES ORIGINATES FROM EXISTING CONTROL ROOM BELOW. REMOVE ALL CABLES TO BE REPLACED IN KIND (UNLESS NOTED OTHERWISE) ALONG ALTERNATE ROUTE, SHOWN ON NEW WORK PLAN. REFER TO SHEET 12-ED111.01 FOR CONTINUATION.
  - (1) FIBER OPTIC CABLE AND (6) CAT5E CABLES FROM BUILDING 13 TELECOMM RACK TO BUILDING 12 TELECOMM RACK IN IT CLOSET
  - (1) CAT 3 CABLE FROM BUILDING 13 TELEPHONE CABINET
  - (1) RG6 CABLE FROM BUILDING 13 CATV CABINET
  - (6) CAT5E CABLES FROM BUILDING 13 TELECOMM RACK TO BUILDING 12 TELECOMM RACK IN IT CLOSET
  - (1) CABLE FROM BUILDING 13 CONTROL ROOM
3. PULL BOX WITH FIRE ALARM WIRING DOWN TO TUNNEL AND UP TO PBFA. FIRE ALARM WIRING TO BUILDING 20 IS ROUTED THROUGH THIS PULL BOX.



**KEYPLAN**



**1 DEMOLITION PLAN – EX CATWALK & CATWALK LEVELS, PHASE 1**  
SCALE: 1/4" = 1'-0"



PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER.

NO.	DESCRIPTION	DATE

CONSULTANTS	
<b>HAZARDOUS MATERIALS</b> MABBETT & ASSOCIATES, INC. 105 CENTRAL STREET, STONEHAM, MA 02180 PHONE: (781)275-6550 <b>CIVIL/STRUCTURAL</b> PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA, WICHITA, KS 67202 PHONE: (316)262-2881 <b>ARCHITECTURAL</b> OCULUS INC. 1 SOUTH MEMORIAL DRIVE, SUITE 1500, SAINT LOUIS, MO 63102 PHONE: (314)367-6100	<b>FIRE SUPPRESSION</b> KOFFEL ASSOCIATES 8815 CENTRE PARK DRIVE, SUITE 200, COLUMBIA, MD 21045 PHONE: (410)729-2246 <b>ELECTRONIC SECURITY</b> MAGNA ENGINEERS 861 CORPORATE DRIVE, SUITE 210, LEXINGTON, KY 40503 PHONE: (859)306-2990 <b>PHYSICAL SECURITY</b> FORCE PROTECT 3210 GULF BLVD, UNIT 304, BELLEAIR BEACH, FL 33786 PHONE: (802)836-4232

**ENGINEER OF RECORD**

**Miller-Remick LLC**  
 M.E.P. & Structural Engineering  
 A Service Disabled Veteran Owned Small Business

1010 KINGS HIGHWAY SOUTH  
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 MR PROJECT NO: 0499-0121

MILLER-REMICK LLC  
 PROFESSIONAL ENGINEER

ANTHONY D. PACIARO  
 LICENSED PROFESSIONAL ENGINEER  
 26413  
 KANSAS  
 9.3.2021

**Office of Construction and Facilities Management**

**VA** U.S. Department of Veterans Affairs

Drawing Title  
**ELECTRICAL DEMOLITION PLAN EX CATWALK & CATWALK LEVELS, PH 1**

Approved: Project Director

Phase  
 100% BID SET

FULLY SPRINKLERED

Project Title  
**INSTALL NEW BOILERS IN BUILDING 13**

Location  
 ROBERT J. DOLE VA MEDICAL CENTER  
 WICHITA, KANSAS

Issue Date  
 2021-09-03

Checked  
 ARH

Drawn  
 ARH

Project Number  
 589A7-18-302

Building Number  
 13

Drawing Number  
**13-ED121.01**

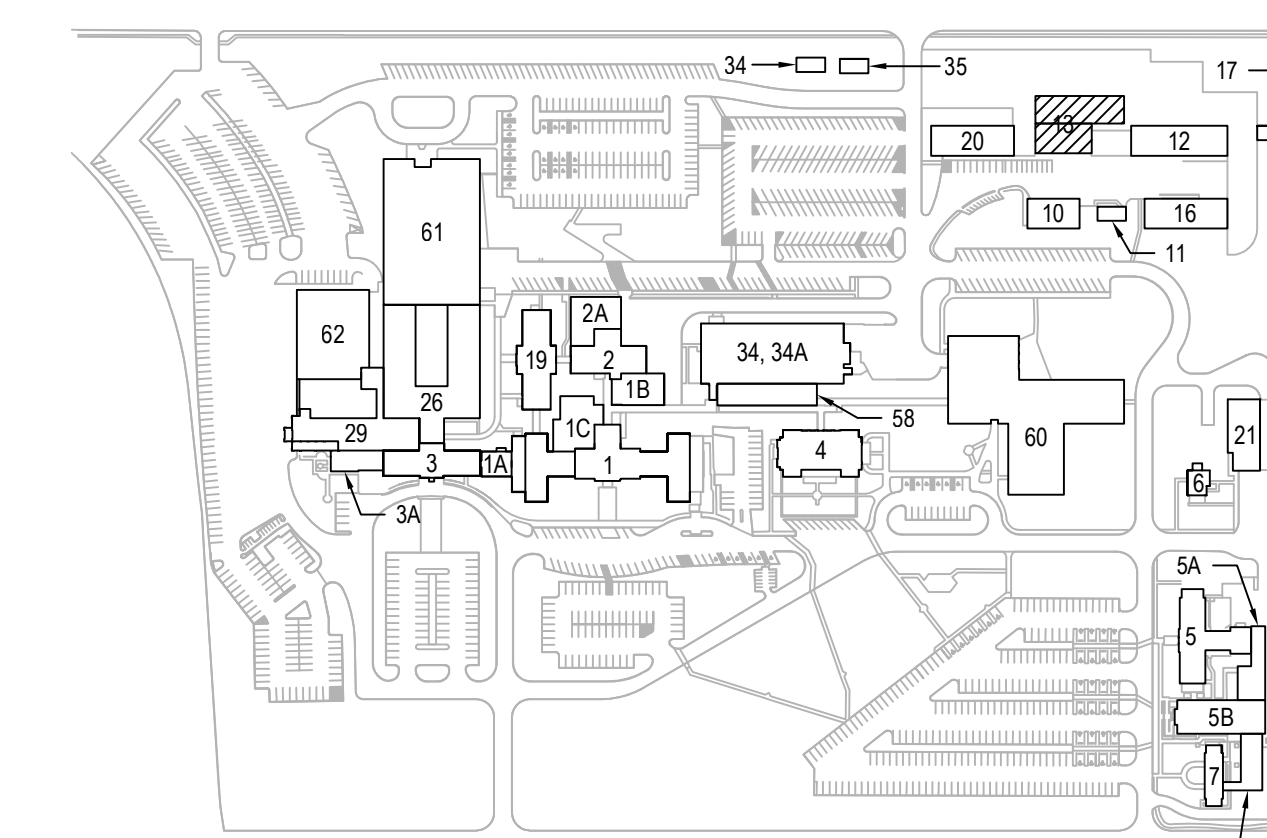


**GENERAL SHEET NOTES:**

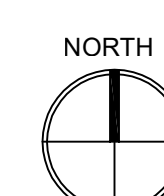
1. REFER TO SHEETS E-001 AND E-002 FOR SYMBOLS, ABBREVIATIONS AND NOTES.
2. REFER TO SHEET E-501 THROUGH E-506 FOR DETAILS.
3. REFER TO SHEET E-602 FOR NEW WORK SINGLE LINE DIAGRAM.
4. REFER TO SHEET E-604 FOR TELECOM RISER DIAGRAM.
5. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE VA TO MINIMIZE DISTURBANCES. PROVIDE TWO-WEEK NOTICE PRIOR TO ANY SCHEDULED OUTAGE.

**SHEET KEYNOTES:**

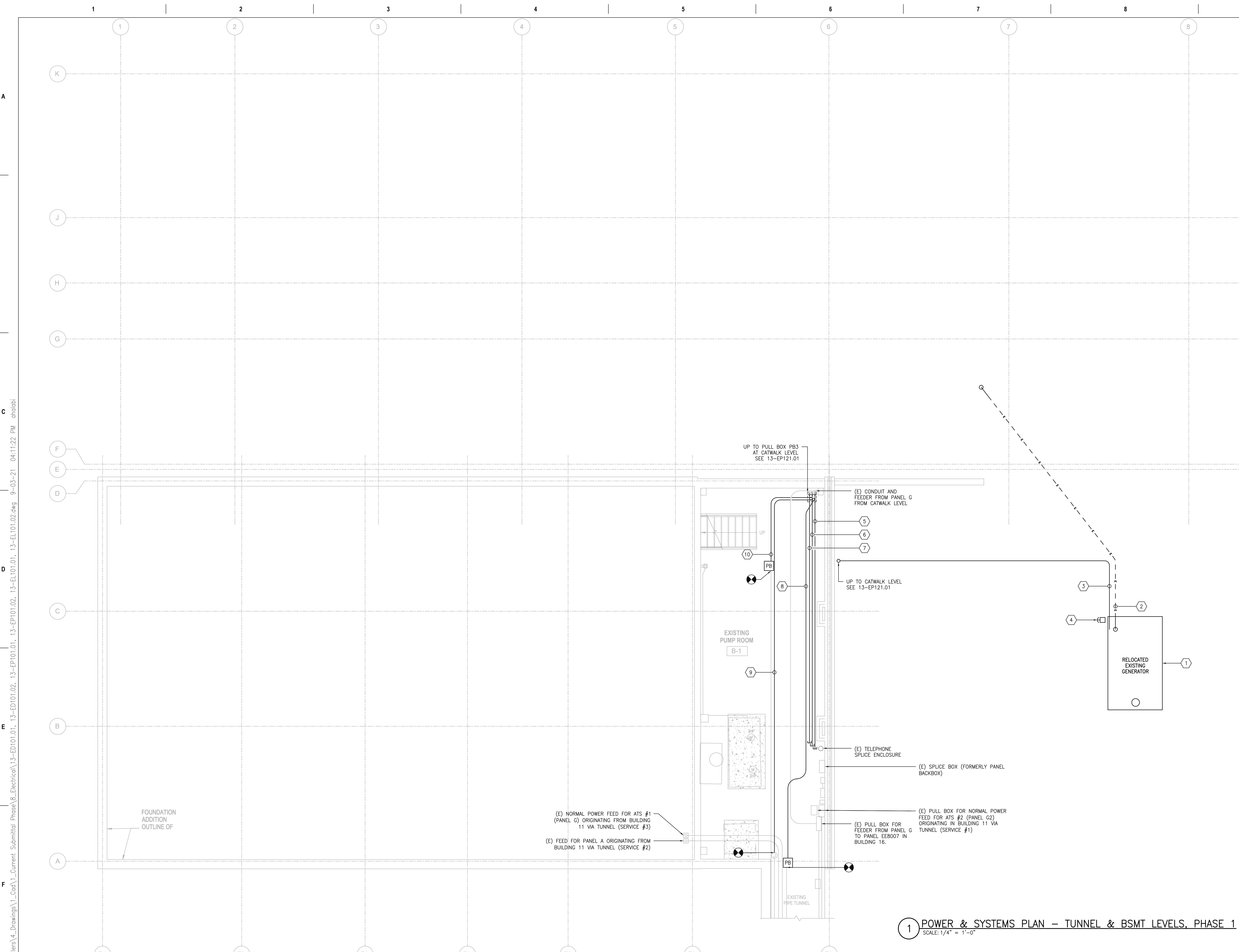
1. PROVIDE CONCRETE PAD AND RELOCATE GENERATOR TO INDICATED LOCATION. UTILIZE THE TEMPORARY OVERHEAD CONDUITS TO MAKE TEMPORARY CONNECTIONS TO OUTGOING FEEDER, START CIRCUIT, EPO CIRCUIT, ANNUNCIATOR CIRCUITS AND 120V CIRCUITS. CONNECT FUEL LINES. INSTALL PERMANENT GROUNDING; REFER TO SHEET E-503 FOR GROUNDING DETAILS.
2. PERMANENT U/G CONDUITS TO NEW LOCATION OF EXISTING ATS #1. REFER TO SHEET 13-EP111.03 ELECTRICAL ROOM FOR NEW LOCATION OF EXISTING ATS #1. COORDINATE EXACT LOCATION OF SUB-UP INTO ELECTRICAL ROOM. INSTALL CONDUITS UNDER PHASE 1. DURING PHASE 2, WIRES SHALL BE INSTALLED. REFER TO SHEET 13-EP111.02 FOR WIRE SIZE AND QUANTITY. RELOCATION OF ATS #1 SHALL OCCUR DURING PHASE 3. REFER TO SHEETS E-505 & E-602 FOR CONDUIT AND WIRE SIZES.
3. PROVIDE TEMPORARY OVERHEAD CONDUITS ROUTED ALONG EXISTING PIPE RACK AND TIED INTO EXISTING BOILER PLANT. MAKE ALL FINAL CONNECTIONS. REFER TO SHEET 13-EP121.01 FOR ROUTING.
  - (1) 1" [27] WITH (30)#14 FOR ANNUNCIATOR PANEL LOCATED IN THE EXISTING CONTROL ROOM ABOVE "GEN-ANNUN" PANEL. PROVIDE (2)#12 FOR GENERATOR START SIGNAL. REFER TO SHEET 13-EP111.01 FOR LOCATION OF "GEN-ANNUN" PULL BOX.
  - (1) 1" [27] WITH (4)#12 + (2)#12G FOR BATTERY CHARGER AND BLOCK HEATER CIRCUITS ORIGINATING FROM PANEL F. REFER TO SHEET 13-EP111.01 FOR LOCATION OF PANEL F.
  - (1) 3" [78] WITH FEED INTO "GEN" PULL BOX LOCATED ON SHOP LEVEL. REFER TO SHEET 13-EP111.01 FOR LOCATION OF PULL BOX.
4. RELOCATE EXISTING EPO AND MOUNT ON GENERATOR ENCLOSURE. MAKE FINAL CONNECTIONS.
5. PROVIDE 2" [53] WITH TELEPHONE CABLE + (1)#6G FROM TELEPHONE SPlice ENCLOSURE UP TO CATWALK LEVEL. CABLE SHALL MATCH EXISTING CABLE AND SHALL SERVE BUILDING 13. CONNECT ALL PAIRS AT SPlice ENCLOSURE TO MATCH EXISTING CONNECTIONS. REFER TO SHEET 13-EP121.01 FOR CONTINUATION.
6. PROVIDE 2" [53] WITH TELEPHONE CABLE + (1)#6G FROM TELEPHONE SPlice ENCLOSURE UP TO CATWALK LEVEL. CABLE SHALL MATCH EXISTING CABLE AND SHALL SERVE BUILDING 12. CONNECT ALL PAIRS AT SPlice ENCLOSURE TO MATCH EXISTING CONNECTIONS. REFER TO SHEET 13-EP121.01 FOR CONTINUATION.
7. PROVIDE 2" [53] WITH TELEPHONE CABLE + (1)#6G FROM TELEPHONE SPlice ENCLOSURE UP TO CATWALK LEVEL. CABLE SHALL MATCH EXISTING CABLE AND SHALL SERVE BUILDING 20. CONNECT ALL PAIRS AT SPlice ENCLOSURE TO MATCH EXISTING CONNECTIONS. REFER TO SHEET 13-EP121.01 FOR CONTINUATION.
8. PROVIDE PULL BOX AND 3" [78] EXTENSION FROM EXISTING CONDUIT. PROVIDE SUFFICIENT LENGTH OF EACH CABLE TO ALLOW FOR RE-ROUTING TO THE NEW IT ROOM/SECURITY ROOM DURING PHASE 3:
  - (1) RG6 CABLE FROM CATV CABINET TO BUILDING 16 TV OUTLET.
  - (1) CATV FIBER OPTIC CABLE FROM BUILDING 16 IT ROOM TO CATV CABINET.
  - (1) OT FIBER OPTIC CABLE FROM BUILDING 60 TO TELECOM CABINET.
9. PROVIDE 1" [27] WITH FIRE ALARM WIRES FROM EXISTING JUNCTION BOX UP TO FIRE ALARM PULL BOX PBFA AT CATWALK LEVEL. REFER TO SHEET 13-EP121.01.
10. INTERCEPT (2) EXISTING 3/4" [21] WITH FIRE ALARM WIRING. SPlice WITH NEW FIRE ALARM WIRING AND EXTEND IN 1" [27] UP TO CATWALK LEVEL INTO PULL BOX PBFA. REFER TO SHEET 13-EP121.01.



**KEYPLAN**



**1 POWER & SYSTEMS PLAN - TUNNEL & BSMT LEVELS, PHASE 1**  
SCALE: 1/4" = 1'-0"



PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER.

NO.	DESCRIPTION	DATE

**CONSULTANTS**

<p><b>HAZARDOUS MATERIALS</b> MABBETT &amp; ASSOCIATES, INC. 105 CENTRAL STREET, STONEHAM, MA 02180 PHONE: (781)275-6550</p>	<p><b>FIRE SUPPRESSION</b> KOFFEL ASSOCIATES 8815 CENTRE PARK DRIVE, SUITE 200, COLUMBIA, MD 21045 PHONE: (410)729-2246</p>
<p><b>CIVIL/STRUCTURAL</b> PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA, WICHITA, KS 67202 PHONE: (316)262-2881</p>	<p><b>ELECTRONIC SECURITY</b> MAGNA ENGINEERS 861 CORPORATE DRIVE, SUITE 210, LEXINGTON, KY 40503 PHONE: (859)306-2990</p>
<p><b>ARCHITECTURAL</b> OCULUS INC 1 SOUTH MEMORIAL DRIVE, SUITE 1500, SAINT LOUIS, MO 63102 PHONE: (314)367-6100</p>	<p><b>PHYSICAL SECURITY</b> FORCE PROTECT 3210 GULF BLVD, UNIT 304, BELLESAIR BEACH, FL 33786 PHONE: (602)836-4232</p>

**ENGINEER OF RECORD**

<p><b>Miller-Remick LLC</b> M.E.P. &amp; Structural Engineering A Service Disabled Veteran Owned Small Business 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)429-4000 FAX: (856)429-5025 MR PROJECT NO: 0499-0121</p>	<p>MILLER-REMICK LLC PROFESSIONAL ENGINEER ANTHONY D. PACIO LICENSED PROFESSIONAL ENGINEER KANSAS 26413 9.3.2021</p>
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**Office of Construction and Facilities Management**

U.S. Department of Veterans Affairs

**ELECTRICAL POWER & SYSTEMS PLAN TUNNEL & BSMT LEVELS, PHASE 1**

Approved: Project Director

**Phase**

100% BID SET

FULLY SPRINKLERED

**Project Title**

INSTALL NEW BOILERS IN BUILDING 13

**Location**

ROBERT J. DOLE VA MEDICAL CENTER WICHITA, KANSAS

**Issue Date**

2021-09-03

**Checked**

ARH

**Drawn**

ARH

**Project Number**

589A7-18-302

**Building Number**

13

**Drawing Number**

13-EP101.01



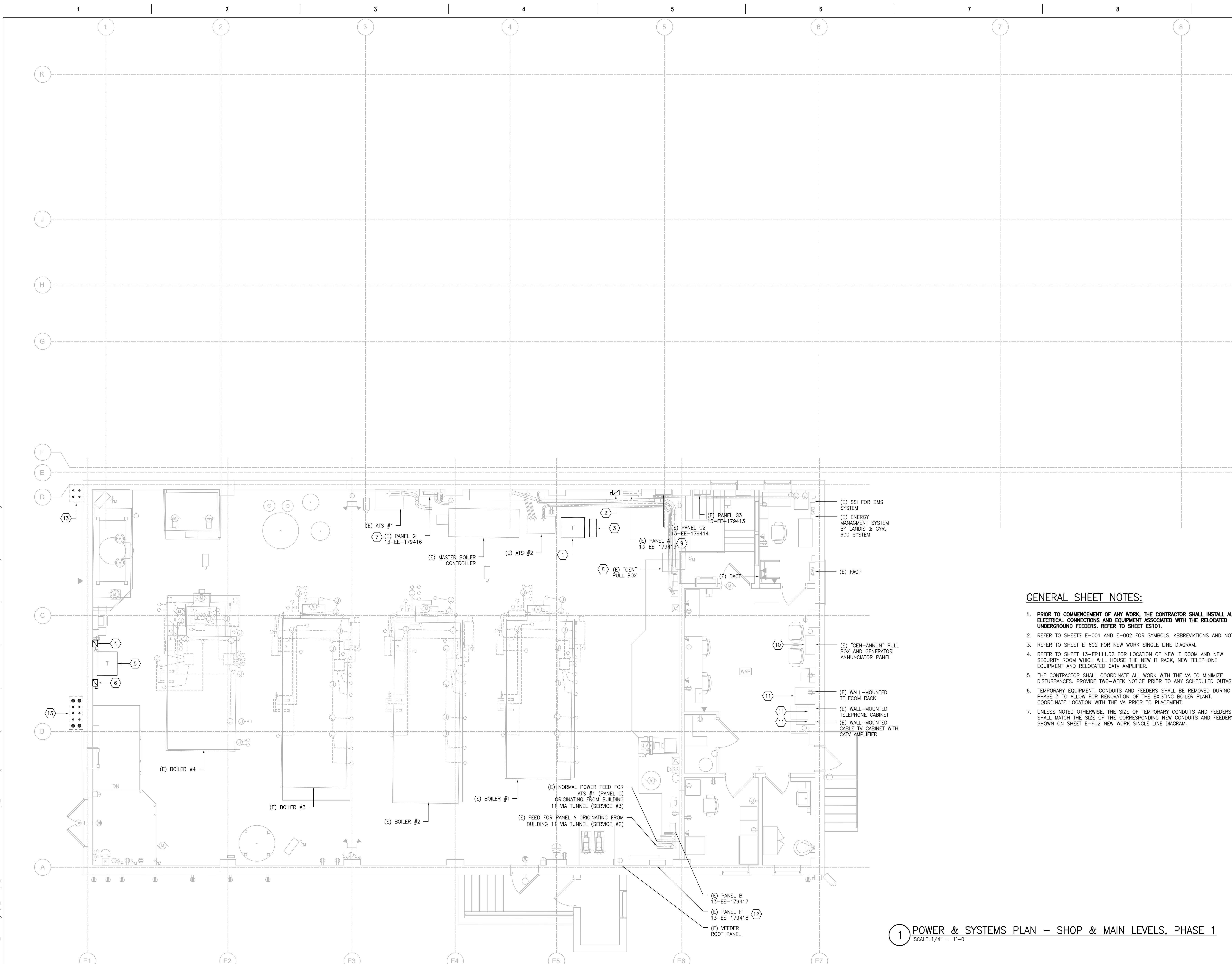
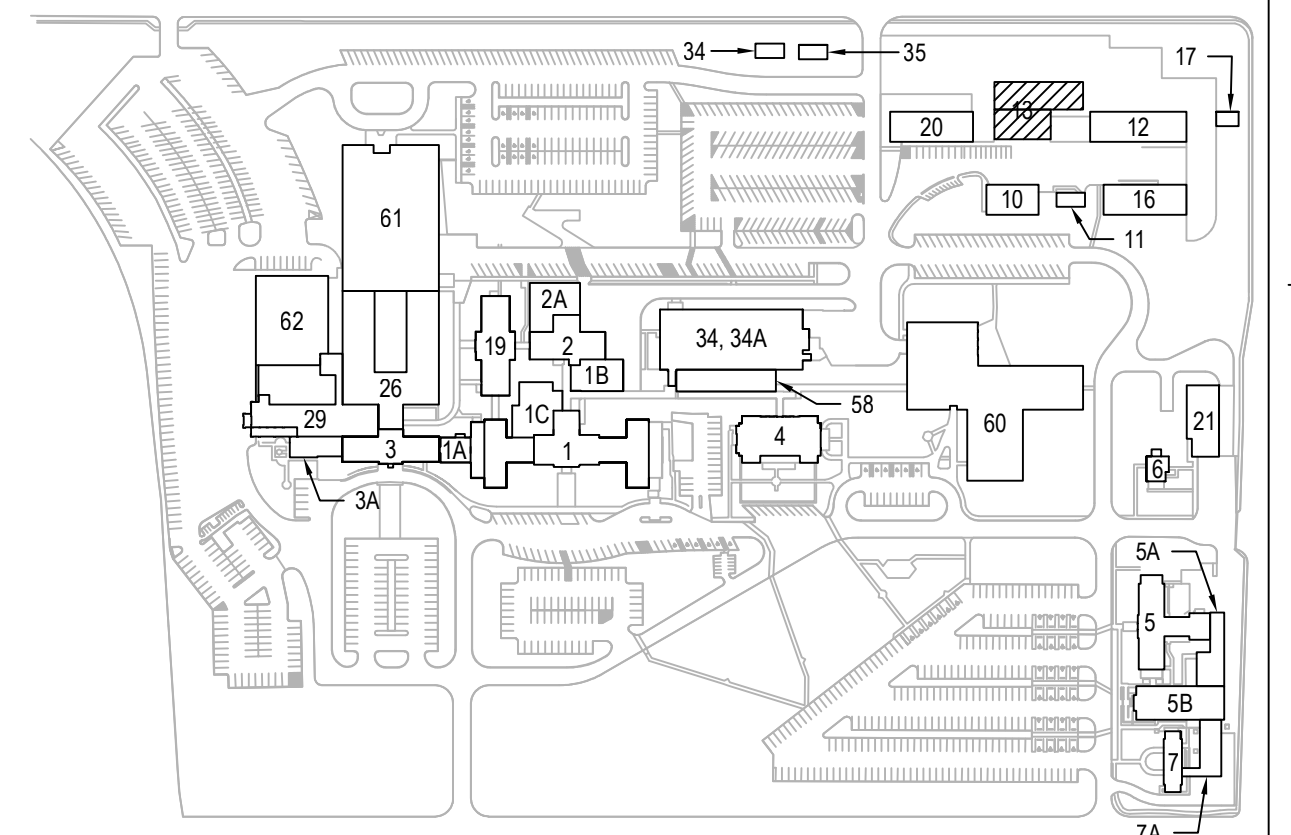
**SHEET KEYNOTES:**

- RELOCATE 75KVA, 240-208/120V TRANSFORMER AND RE-CONNECT TO EXISTING PANEL A (13-EE-179419) UTILIZING SAME BREAKER PREVIOUSLY FEEDING THE TRANSFORMER. PRIMARY SIDE OF TRANSFORMER SHALL BE CONNECTED TO PANEL A WITH (4) #3/0 + (1) #6G IN 2" [53]; TOTAL FEEDER LENGTH SHALL NOT EXCEED 10' [3048]. SECONDARY SIDE OF TRANSFORMER SHALL BE CONNECTED TO ADJACENT 200A FUSED DISCONNECT SWITCH WITH (4) #3/0 + (1) #6G IN 2" [53]. TRANSFORMER WILL BE UTILIZED BY THE CONTRACTOR FOR CONSTRUCTION TOOLS.
- RELOCATE 200A FUSED DISCONNECT SWITCH AND CONNECT TO SECONDARY SIDE OF ADJACENT TRANSFORMER. DISCONNECT SHALL BE CONNECTED TO TEMPORARY PANEL.
- PROVIDE A TEMPORARY 200A MCB PANEL WITH PORTABLE RACK AS NEEDED. PROVIDE (4) #3/0 + (1) #6G IN 2" [53] (MC CABLE) OF SUFFICIENT LENGTH TO ALLOW FOR RELOCATION OF PANEL AS NEEDED. PANEL SHALL CONTAIN A VARIETY OF BREAKER SIZES TO MEET THE NEEDS OF THE CONSTRUCTION TOOLS REQUIRED. UPON COMPLETION OF THE PROJECT, THE TEMPORARY EQUIPMENT SHALL BE REMOVED. THE LOCATION OF THE TEMPORARY PANEL SHALL BE AT THE DISCRETION OF THE CONTRACTOR. REFER TO SHEET E-702.
- RELOCATE EXISTING 200A FUSED DISCONNECT SWITCH AND CONNECT TO PRIMARY SIDE OF ADJACENT TRANSFORMER AND PANEL G WITH (4) #3/0 + (1) #6G IN 2" [53]. CIRCUIT TO SAME BREAKER PREVIOUSLY FEEDING THE TRANSFORMER.
- RELOCATE 75KVA, 208-480V TRANSFORMER. TRANSFORMER WILL BE TEMPORARILY UTILIZED TO RE-FEED EXISTING PANEL IN BUILDING 35. REFER TO SHEETS ES101 FOR LOCATION OF PANEL.
- RELOCATE EXISTING 100A FUSED DISCONNECT SWITCH AND CONNECT TO SECONDARY SIDE OF ADJACENT TRANSFORMER (4) #1 + (1) #6G IN 1-1/2" [41]. PROVIDE TEMPORARY (4) #1 + (1) #6G IN 1-1/2" [41] UP TO PULL BOX NEAR COLUMN D1-E. REFER TO SHEET 13-EP121.01.
- PROVIDE TEMPORARY CONDUIT WITH FEEDER UP TO NEW PULL BOX ABOVE PANEL G. REFER TO SHEET 13-EP121.01 FOR LOCATION OF PULL BOX. REFER TO SHEET E-602 NEW WORK SINGLE LINE DIAGRAM FOR SIZE OF CONDUITS AND FEEDERS. THIS FEEDER SHALL TEMPORARILY SERVE EXISTING PANEL C IN BUILDING 20. NEW PULL BOX ABOVE PANEL PROVIDES SPLICE POINT TO RE-ROUTE FEEDER OF PANEL C TO NEW SOURCE DURING PHASE 3.
- CONNECT TEMPORARY CONDUIT AND FEEDER OF EXISTING RELOCATED GENERATOR TO SAME LOCATION AS DEMOLISHED GENERATOR CONDUIT AND FEEDER. REFER TO SHEET 13-EP121.01 FOR ROUTING OF TEMPORARY CONDUIT. PULL BOX PROVIDES SPLICE POINT TO RE-ROUTE FEEDER OF PANEL C TO NEW SOURCE DURING PHASE 3.
- PROVIDE TEMPORARY CONDUIT WITH FEEDER UP TO NEW PULL BOX ABOVE PANEL A. REFER TO SHEET 13-EP121.01 FOR LOCATION OF PULL BOX. REFER TO SHEET E-602 NEW WORK SINGLE LINE DIAGRAM FOR SIZE OF CONDUITS AND FEEDERS. THIS FEEDER SHALL TEMPORARILY SERVE EXISTING PANEL D IN BUILDING 20. NEW PULL BOX ABOVE PANEL PROVIDES SPLICE POINT TO RE-ROUTE FEEDER OF PANEL D TO NEW SOURCE DURING PHASE 3.
- CONNECT TEMPORARY CONDUIT AND WIRES TO EXISTING GENERATOR ANNUNCIATOR PANEL. REFER TO SHEET 13-EP101.01 FOR ADDITIONAL INFORMATION. REFER TO SHEET 13-EP121.01 FOR ROUTING OF TEMPORARY CONDUIT AND WIRES.
- REFER TO SHEET 13-EP121.01 FOR CONDUITS AND CABLES ROUTED INTO INDICATED CABINET/RACK. THE CONTRACTOR SHALL ENSURE SUFFICIENT SLACK IN ALL CABLES FOR RE-ROUTING TO ALTERNATE EQUIPMENT DURING PHASE 3.
- CONNECT TEMPORARY CIRCUITS TO EXISTING RELOCATED GENERATOR BATTERY CHARGER AND HEATER. TEMPORARY CIRCUITS ARE ROUTED ON CATWALK LEVEL WITH TEMPORARY CONDUIT AND FEEDER FROM RELOCATED GENERATOR. REFER TO SHEET 13-EP121.01 FOR ROUTING.
- APPROXIMATE LOCATION OF CONDUITS FROM CATWALK LEVEL DOWN TO BELOW GRADE. REFER TO SHEET 13-EP121.01 FOR ADDITIONAL INFORMATION ON CONDUITS AND FEEDERS.

**GENERAL SHEET NOTES:**

- PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL INSTALL ALL ELECTRICAL CONNECTIONS AND EQUIPMENT ASSOCIATED WITH THE RELOCATED UNDERGROUND FEEDERS. REFER TO SHEET ES101.
- REFER TO SHEETS E-001 AND E-002 FOR SYMBOLS, ABBREVIATIONS AND NOTES.
- REFER TO SHEET E-602 FOR NEW WORK SINGLE LINE DIAGRAM.
- REFER TO SHEET 13-EP111.02 FOR LOCATION OF NEW IT ROOM AND NEW SECURITY ROOM WHICH WILL HOUSE THE NEW IT RACK, NEW TELEPHONE EQUIPMENT AND RELOCATED CATV AMPLIFIER.
- THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE VA TO MINIMIZE DISTURBANCES. PROVIDE TWO-WEEK NOTICE PRIOR TO ANY SCHEDULED OUTAGE.
- TEMPORARY EQUIPMENT, CONDUITS AND FEEDERS SHALL BE REMOVED DURING PHASE 3 TO ALLOW FOR RENOVATION OF THE EXISTING BOILER PLANT. COORDINATE LOCATION WITH THE VA PRIOR TO PLACEMENT.
- UNLESS NOTED OTHERWISE, THE SIZE OF TEMPORARY CONDUITS AND FEEDERS SHALL MATCH THE SIZE OF THE CORRESPONDING NEW CONDUITS AND FEEDERS SHOWN ON SHEET E-602 NEW WORK SINGLE LINE DIAGRAM.

**1 POWER & SYSTEMS PLAN - SHOP & MAIN LEVELS, PHASE 1**  
SCALE: 1/4" = 1'-0"



PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER.			<b>CONSULTANTS</b> <b>HAZARDOUS MATERIALS</b> MABBETT & ASSOCIATES, INC. 105 CENTRAL STREET, STONEHAM, MA 02180 PHONE: (781)275-6590 <b>CIVIL/STRUCTURAL</b> PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA, WICHITA, KS 67202 PHONE: (316)282-2881 <b>ARCHITECTURAL</b> OCULUS INC. 1 SOUTH MEMORIAL DRIVE, SUITE 1500, SAINT LOUIS, MO 63102 PHONE: (314)367-6100			<b>FIRE SUPPRESSION</b> KOFFEL ASSOCIATES 8815 CENTRE PARK DRIVE, SUITE 200, COLUMBIA, MD 21045 PHONE: (410)729-2246 <b>ELECTRONIC SECURITY</b> MAGNA ENGINEERS 861 CORPORATE DRIVE, SUITE 210, LEXINGTON, KY 40503 PHONE: (859)306-2990 <b>PHYSICAL SECURITY</b> FORCE PROTECT 3210 GULF BLVD, UNIT 304, BELLEAIR BEACH, FL 33786 PHONE: (802)836-4232			<b>ENGINEER OF RECORD</b> <b>Miller-Remick LLC</b> M.E.P. & Structural Engineering A Service Disabled Veteran Owned Small Business 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)439-4000 FAX: (856)439-5025 MR PROJECT NO: 0499-0121			MILLER-REMICK LLC PROFESSIONAL ENGINEER 			<b>Office of Construction and Facilities Management</b> VA U.S. Department of Veterans Affairs			Drawing Title <b>ELECTRICAL POWER &amp; SYSTEMS PLAN SHOP &amp; MAIN LEVELS, PHASE 1</b> Approved: Project Director			Phase <b>100% BID SET</b> <b>FULLY SPRINKLERED</b>			Project Title <b>INSTALL NEW BOILERS IN BUILDING 13</b> Location <b>ROBERT J. DOLE VA MEDICAL CENTER WICHITA, KANSAS</b> Issue Date <b>2021-09-03</b> Checked <b>ARH</b> Drawn <b>ARH</b>			Project Number <b>589A7-18-302</b> Building Number <b>13</b> Drawing Number <b>13-EP111.01</b>		
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 one quarter inch = one foot  
 one eighth inch = one foot  
 one half inch = one foot  
 one inch = one foot  
 one and one half inches = one foot  
 two inches = one foot  
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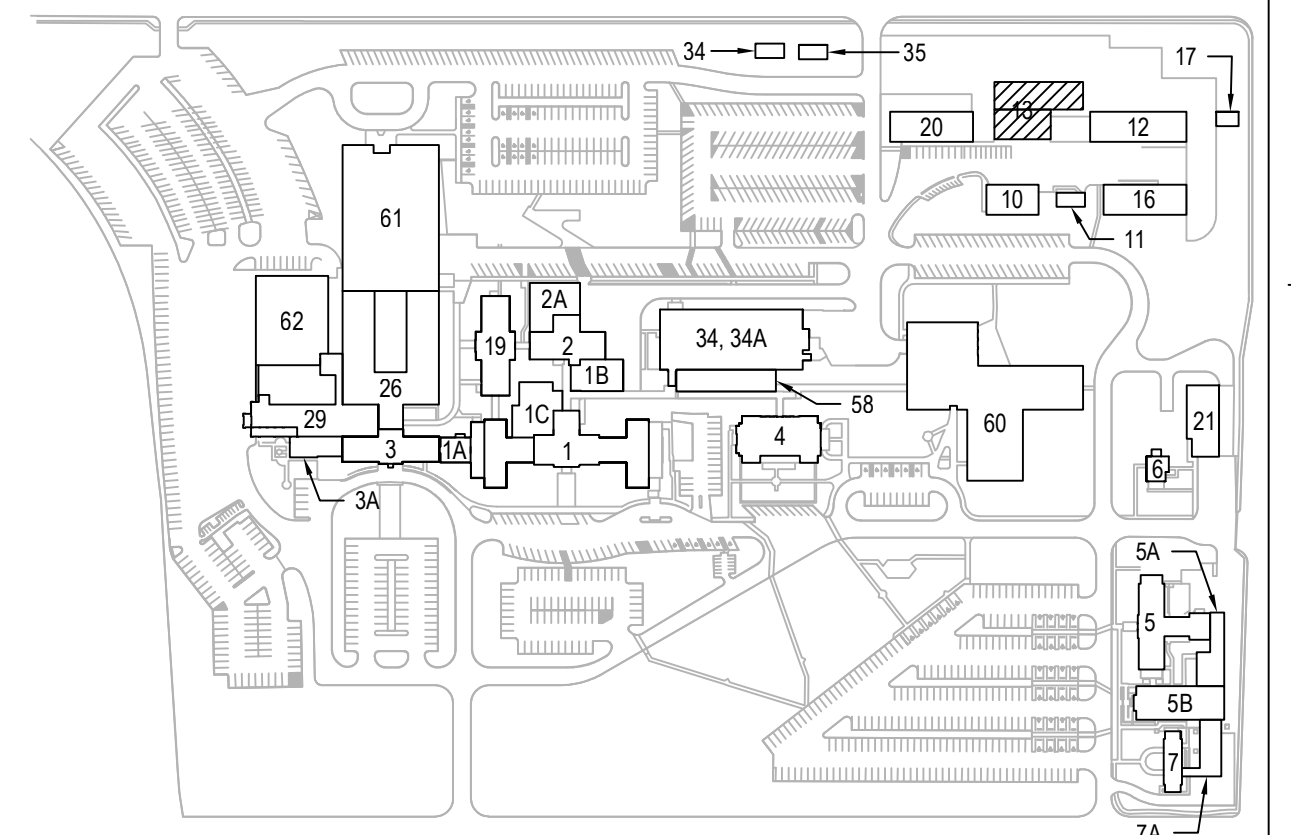


**SHEET KEYNOTES:**

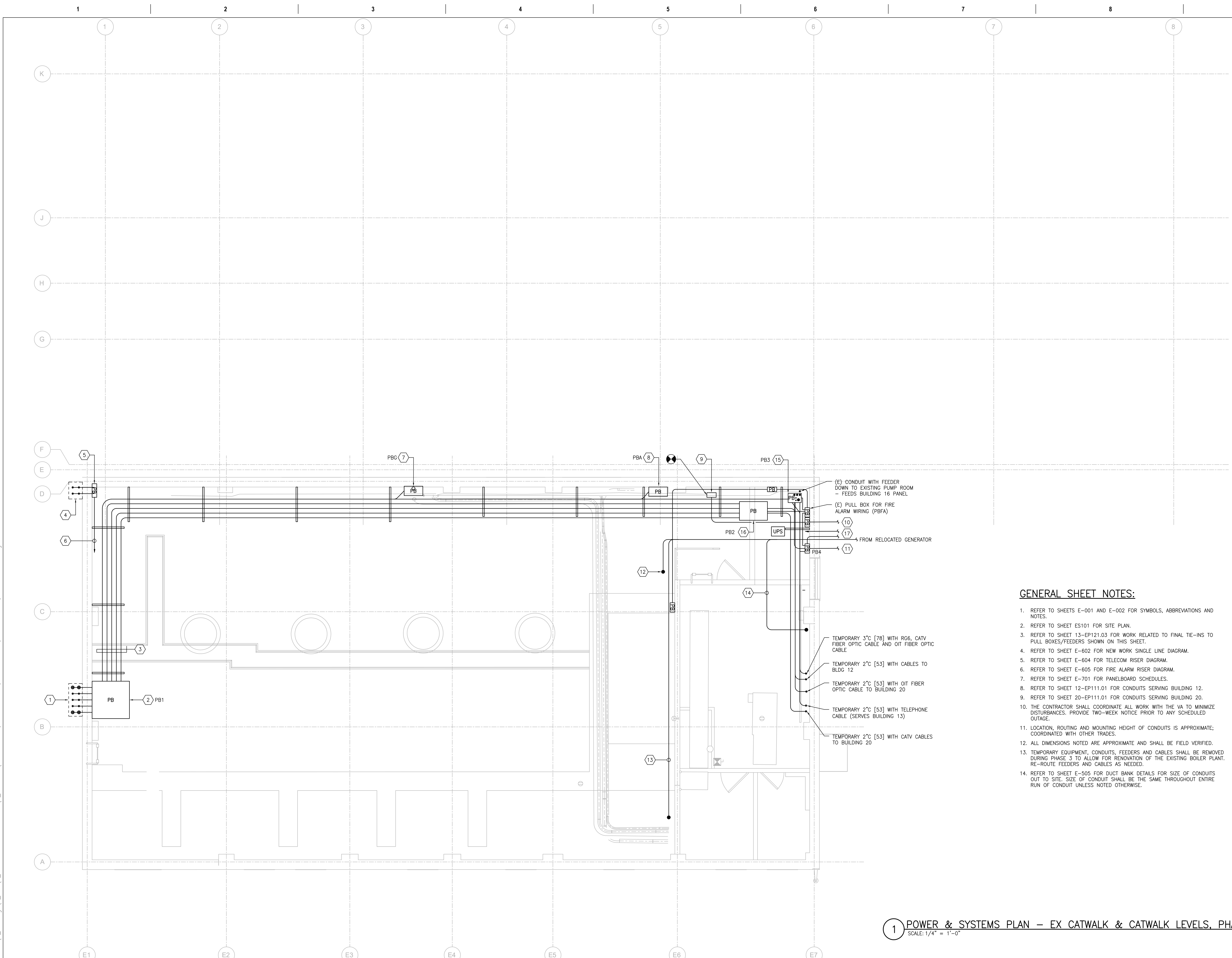
- CONDUITS AND FEEDERS/CABLES DOWN TO BELOW GRADE TO SERVE BUILDING 20. COORDINATE EXACT LOCATION OF RISER WITH SITE UTILITIES BETWEEN BUILDING 13 AND BUILDING 20. REFER TO SHEET ES101 AND SHEET 20-EP111.01.
- PROVIDE PULL BOX WITH SEPARATION BARRIERS. PULL BOX WILL CONTAIN NORMAL POWER FEEDER, EMERGENCY POWER FEEDER AND LOW VOLTAGE CABLES.
- CONDUIT RACK WITH WALL-MOUNTED SUPPORT CHANNELS FOR RE-ROUTED UTILITIES, MOUNTED AT 17'-0" [5182] AFT. COORDINATE ROUTING AND MOUNTING HEIGHT, REFER TO SHEET 20-EP111.01 FOR ADDITIONAL INFORMATION ON CONDUITS, FEEDERS AND CABLES.
  - (1) CONDUIT AND FEEDER TO SERVE EXISTING PANEL C IN BUILDING 20. TERMINATE INTO PULL BOX ABOVE PANEL G (PBG). SPLICE FEEDER WITH TEMPORARY FEEDER NOTED ON SHEET 13-EP111.01.
  - (1) CONDUIT AND FEEDER TO SERVE EXISTING PANEL D IN BUILDING 20. TERMINATE INTO PULL BOX ABOVE PANEL A (PBA). SPLICE FEEDER WITH TEMPORARY FEEDER NOTED ON SHEET 13-EP111.01.
  - (1) CONDUIT WITH TELEPHONE CABLE. TERMINATE CONDUIT INTO PULL BOX PB3.
  - (1) CONDUIT AND WIRES FOR FIRE ALARM SYSTEM. TERMINATE CONDUIT INTO PULL BOX PB2.
  - (1) CONDUIT WITH OIT FIBER OPTIC CABLE. TERMINATE CONDUIT INTO PULL BOX PB2.
  - (1) CONDUIT WITH CATV CABLES. TERMINATE CONDUIT INTO PULL BOX PB2.
  - (1) CONDUIT WITH WIRES. TERMINATE CONDUIT INTO PULL BOX PB3.
  - (1) CONDUIT FOR SECURITY CABLES. CABLES BY OTHERS. TERMINATE CONDUIT INTO PULL BOX PB2.
  - (2) SPARE CONDUITS. TERMINATE CONDUITS INTO PULL BOX PB2.
- CONDUITS AND FEEDERS DOWN TO BELOW GRADE TO FEED HANDHOLE #2; REFER TO SHEET ES101.
- PROVIDE PULL BOX FOR ROUTING OF CONDUITS AND FEEDERS DOWN TO DUCTBANK; REFER TO SHEET ES101. PULL BOX SHALL INCLUDE BARRIERS FOR SEPARATION OF FEEDER TO BUILDING 35 AND FEEDER TO WATER STORAGE TANK.
- PROVIDE TEMPORARY CONDUIT AND FEEDER DOWN TEMPORARY FUSED DISCONNECT SWITCH AT SECONDARY OF TEMPORARY TRANSFORMER. REFER TO SHEET 13-EP111.01 FOR LOCATION OF TEMPORARY EQUIPMENT AND SIZE OF CONDUIT AND FEEDER. FEEDER SERVES EXISTING PANEL IN BUILDING 35. SPLICE WITH PERMANENT FEEDER ROUTED TO HANDHOLE #2 UNDER PHASE 2. THIS TEMPORARY FEEDER WILL BE REMOVED AND THE PERMANENT FEEDER IN THE NEW PULL BOX WILL BE SPLICED AND EXTENDED TO THE NEW SOURCE. REFER TO SHEET 13-EP121.02.
- PROVIDE PULL BOX ABOVE EXISTING PANEL G. REFER TO SHEET 13-EP101.01 FOR TEMPORARY WORK. FROM PULL BOX, EXTEND NEW CONDUIT AND FEEDER TO FEED EXISTING PANEL C IN BUILDING 20. SPLICE TEMPORARY FEEDER AND NEW FEEDER.
- PROVIDE PULL BOX ABOVE EXISTING PANEL A WITH TEMPORARY CONDUIT AND FEEDER DOWN TO PANEL A. FEEDER SHALL SERVE EXISTING PANEL D. REFER TO SHEET 13-EP121.03.
- PROVIDE TEMPORARY PULL BOX TO INTERCEPT EXISTING FEEDER OF PANEL I IN BUILDING 12. EXTEND CONDUIT AND FEEDER TO PERMANENT PULL BOX.
- PROVIDE PERMANENT PULL BOX WITH CONDUIT AND FEEDER TO EXISTING PANEL I IN BUILDING 12. CONDUIT SHALL BE ROUTED ALONG EXISTING PIPE RACK. REFER TO SHEET 12-EP111.01 UNDER PHASE 3. FEEDER WILL BE INTERCEPTED AT THIS PULL BOX AND WILL BE RE-ROUTED TO NEW ELECTRICAL ROOM. PROVIDE SUFFICIENT SLACK IN FEEDER TO ALLOW FOR RE-ROUTING. SPLICE FEEDER WITH TEMPORARY FEEDER.
- PROVIDE PULL BOX WITH CONDUIT AND CABLES TO BUILDING 12. CONDUIT SHALL BE ROUTED ALONG EXISTING PIPE RACK. REFER TO SHEET 12-EP111.01 FOR ADDITIONAL INFORMATION. UNDER PHASE 3, CABLES WILL BE RE-ROUTED TO NEW IT ROOM/SECURITY ROOM. PROVIDE SUFFICIENT SLACK IN ALL CABLES TO ALLOW FOR RE-ROUTING.
- TEMPORARY CONDUIT AND FEEDER FROM RELOCATED GENERATOR DOWN TO "GEN" PULL BOX. REFER TO SHEET 13-EP111.01.
- TEMPORARY CIRCUITS FROM EXISTING PANEL F TO RELOCATED GENERATOR. REFER TO SHEET 13-EP111.01.
- TEMPORARY CONDUIT AND WIRES TO "GEN ANNUAL" PULL BOX ASSOCIATED WITH RELOCATED GENERATOR. REFER TO SHEET 13-EP111.01.
- PULL BOX WITH CONDUITS AND CABLES ROUTED FROM THE EXISTING PUMP ROOM. REFER TO SHEET 13-EP101.01. PROVIDE THE FOLLOWING:
  - (1) 2" [53] TO PB4 WITH TELEPHONE CABLE TO SERVE BUILDING 12.
  - (1) TEMPORARY 2" [53] WITH TELEPHONE CABLE TO SERVE BUILDING 13. ROUTE CONDUIT DOWN TO EXISTING CONTROL ROOM.
  - (1) 2" [53] TO PB1 WITH TELEPHONE CABLE TO SERVE BUILDING 20.
  - (1) TEMPORARY 3" [76] WITH (1) RG6 CABLE, (1) CATV FIBER OPTIC CABLE AND (1) OIT FIBER OPTIC CABLE. ROUTE CONDUIT DOWN TO EXISTING CONTROL ROOM.
  - (2) TEMPORARY 1" [27] WITH FIRE ALARM WIRING TO PULL BOX PBFA.
- PULL BOX FOR ROUTING OF CABLES TO BUILDING 20. PULL BOX ALLOWS FOR AN INTERCEPTION POINT SUCH THAT DURING PHASE 3 THE CABLES TO BUILDING 20 CAN BE RE-ROUTED TO NEW SOURCES WITHOUT THE NEED FOR SPLICES. PROVIDE THE FOLLOWING: TEMPORARY CONDUITS WHICH SHALL BE REMOVED DURING PHASE 3 DEMOLITION. ALL CABLES SHALL BE PROVIDED WITH SUFFICIENT SLACK TO ALLOW FOR RE-ROUTING.
  - (1) CONDUIT AND WIRES (FOR FIRE ALARM) TERMINATING INTO PULL BOX PBFA. SPLICE ALL WIRES AT PBFA.
  - (1) CONDUIT WITH OIT FIBER OPTIC CABLE TO EXISTING TELECOM RACK IN EXISTING CONTROL ROOM.
  - (1) CONDUIT WITH CATV CABLES TO EXISTING CATV CABINET IN EXISTING CONTROL ROOM.
  - (1) CONDUIT WITH WIRES. CONTRACTOR SHALL VERIFY SOURCE AND ROUTE APPROPRIATELY.
- CONDUITS TO BUILDING 12. REFER TO SHEET 12-EP111.01 FOR ADDITIONAL INFORMATION. (1) CONDUITS SHALL BE UTILIZE FOR SECURITY CABLES AND (1) CONDUITS FOR TELECOM CABLES.

**GENERAL SHEET NOTES:**

- REFER TO SHEETS E-001 AND E-002 FOR SYMBOLS, ABBREVIATIONS AND NOTES.
- REFER TO SHEET ES101 FOR SITE PLAN.
- REFER TO SHEET 13-EP121.03 FOR WORK RELATED TO FINAL TIE-INS TO PULL BOXES/FEEDERS SHOWN ON THIS SHEET.
- REFER TO SHEET E-602 FOR NEW WORK SINGLE LINE DIAGRAM.
- REFER TO SHEET E-604 FOR TELECOM RISER DIAGRAM.
- REFER TO SHEET E-605 FOR FIRE ALARM RISER DIAGRAM.
- REFER TO SHEET E-701 FOR PANELBOARD SCHEDULES.
- REFER TO SHEET 12-EP111.01 FOR CONDUITS SERVING BUILDING 12.
- REFER TO SHEET 20-EP111.01 FOR CONDUITS SERVING BUILDING 20.
- THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE VA TO MINIMIZE DISTURBANCES. PROVIDE TWO-WEEK NOTICE PRIOR TO ANY SCHEDULED OUTAGE.
- LOCATION, ROUTING AND MOUNTING HEIGHT OF CONDUITS IS APPROXIMATE. COORDINATED WITH OTHER TRADES.
- ALL DIMENSIONS NOTED ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.
- TEMPORARY EQUIPMENT, CONDUITS, FEEDERS AND CABLES SHALL BE REMOVED DURING PHASE 3 TO ALLOW FOR RENOVATION OF THE EXISTING BOILER PLANT. RE-ROUTE FEEDERS AND CABLES AS NEEDED.
- REFER TO SHEET E-505 FOR DUCT BANK DETAILS FOR SIZE OF CONDUITS OUT TO SITE. SIZE OF CONDUIT SHALL BE THE SAME THROUGHOUT ENTIRE RUN OF CONDUIT UNLESS NOTED OTHERWISE.

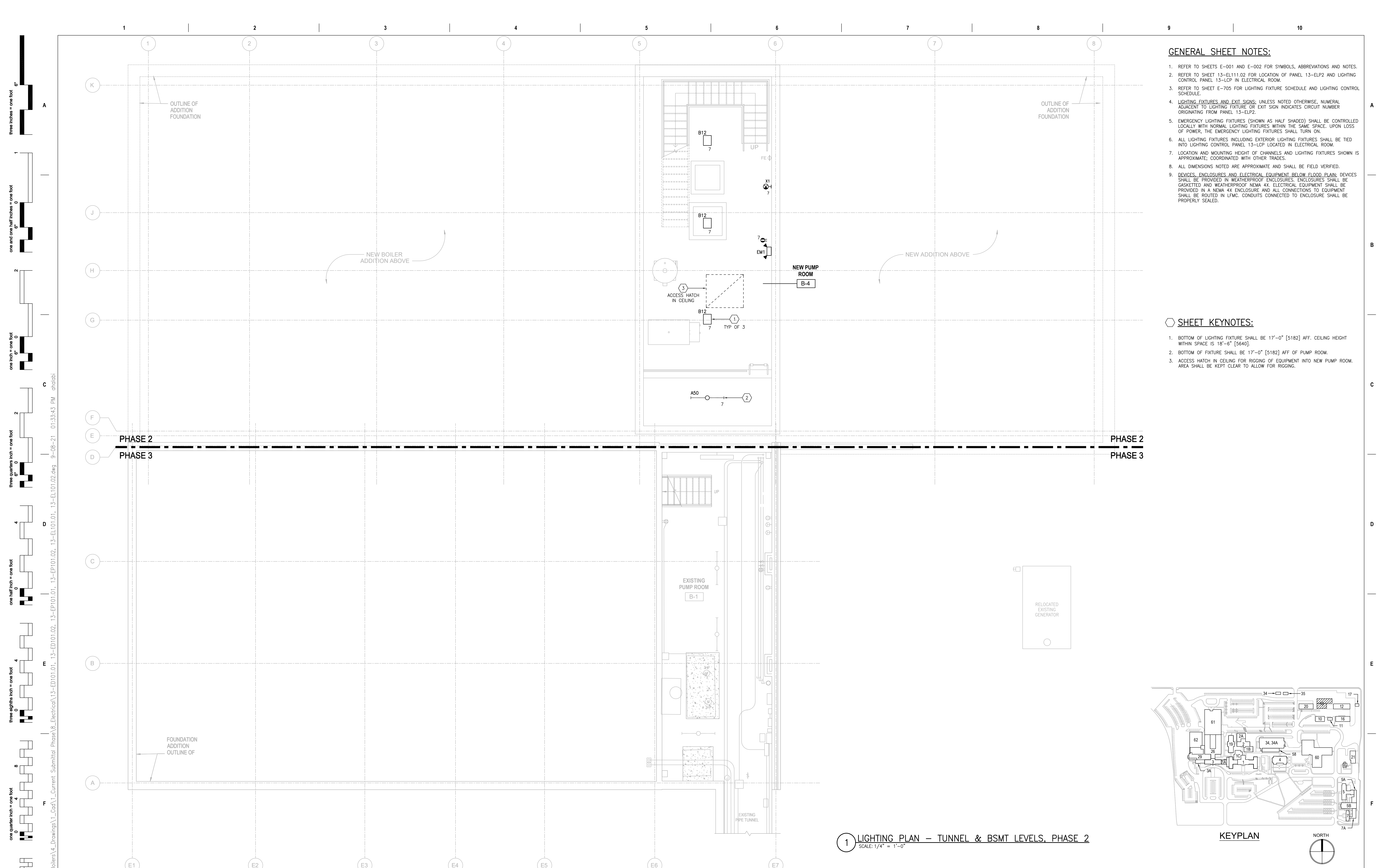


**1 POWER & SYSTEMS PLAN - EX CATWALK & CATWALK LEVELS, PHASE 1**  
SCALE: 1/4" = 1'-0"



PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER.			<b>CONSULTANTS</b> <b>HAZARDOUS MATERIALS</b> MABBETT & ASSOCIATES, INC. 105 CENTRAL STREET, STONEHAM, MA 02180 PHONE: (781)275-6550 <b>CIVIL / STRUCTURAL</b> PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA, WICHITA, KS 67202 PHONE: (316)262-2881 <b>ARCHITECTURAL</b> OCULUS INC. 1 SOUTH MEMORIAL DRIVE, SUITE 1500, SAINT LOUIS, MO 63102 PHONE: (314)367-6100		<b>FIRE SUPPRESSION</b> KOFFEL ASSOCIATES 8815 CENTRE PARK DRIVE, SUITE 200, COLUMBIA, MD 21045 PHONE: (410)729-2246 <b>ELECTRONIC SECURITY</b> MAGNA ENGINEERS 861 CORPORATE DRIVE, SUITE 210, LEXINGTON, KY 40503 PHONE: (859)306-2990 <b>PHYSICAL SECURITY</b> FORCE PROTECT 3210 GULF BLVD, UNIT 304, BELLSAIR BEACH, FL 33786 PHONE: (802)836-4232		<b>ENGINEER OF RECORD</b> <b>Miller-Remick LLC</b> M.E.P. & Structural Engineering A Service Disabled Veteran Owned Small Business 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)429-4000 FAX: (856)429-9002 MR PROJECT NO: 0499-0121		MILLER-REMICK LLC PROFESSIONAL ENGINEER WICHITA, KANSAS LICENSED PROFESSIONAL ENGINEER 26413 9.3.2021		<b>Office of Construction and Facilities Management</b> VA U.S. Department of Veterans Affairs		Drawing Title <b>ELECTRICAL POWER &amp; SYSTEMS PLAN EX CATWALK &amp; CATWALK LEVELS, PH 1</b> Approved: Project Director		Phase 100% BID SET FULLY SPRINKLERED		Project Title <b>INSTALL NEW BOILERS IN BUILDING 13</b> Location ROBERT J. DOLE VA MEDICAL CENTER WICHITA, KANSAS Issue Date 2021-09-03 Checked ARH Drawn ARH		Project Number 589A7-18-302 Building Number 13 Drawing Number 13-EP121.01	
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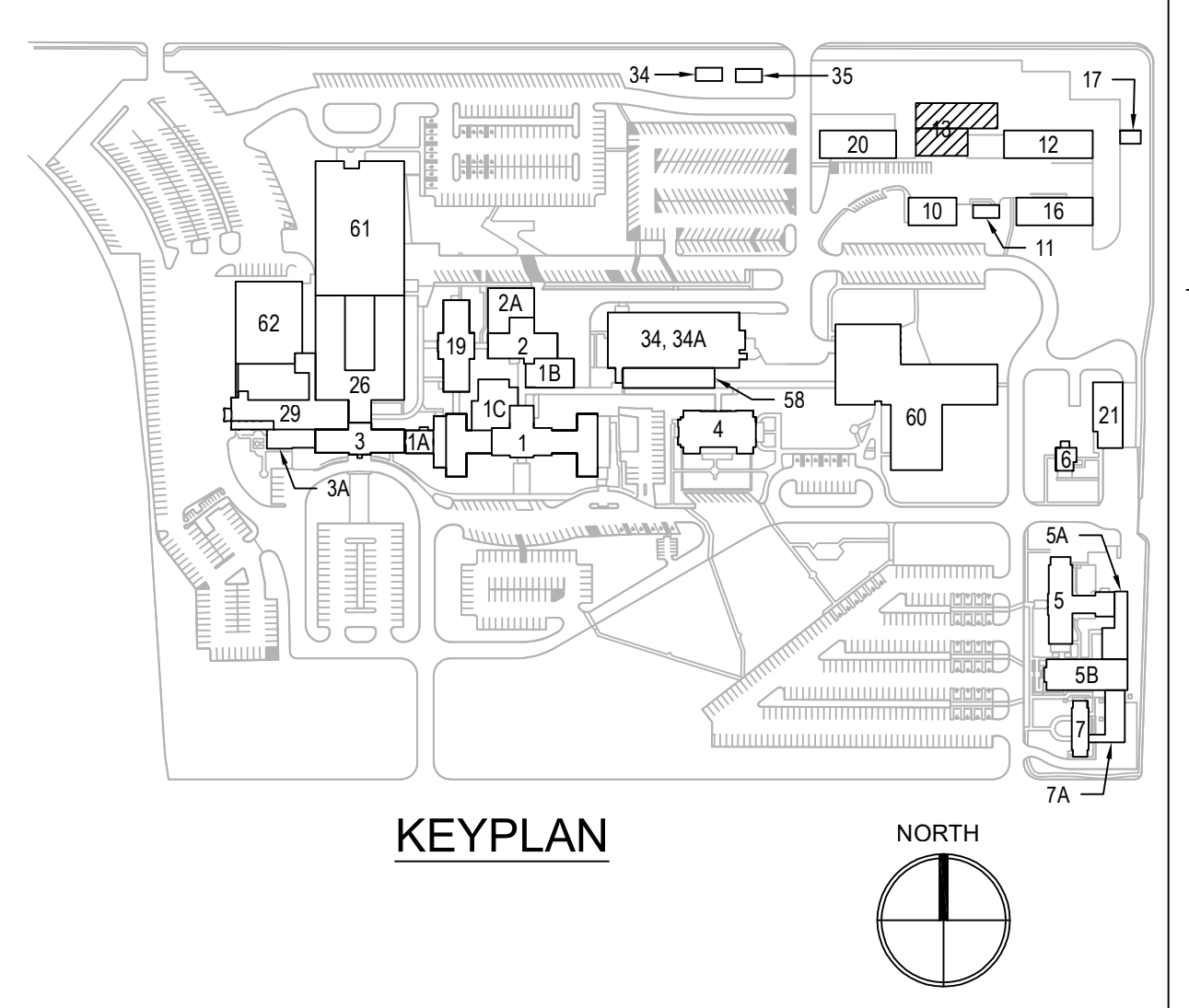




- GENERAL SHEET NOTES:**
- REFER TO SHEETS E-001 AND E-002 FOR SYMBOLS, ABBREVIATIONS AND NOTES.
  - REFER TO SHEET 13-EL111.02 FOR LOCATION OF PANEL 13-ELP2 AND LIGHTING CONTROL PANEL 13-LCP IN ELECTRICAL ROOM.
  - REFER TO SHEET E-705 FOR LIGHTING FIXTURE SCHEDULE AND LIGHTING CONTROL SCHEDULE.
  - LIGHTING FIXTURES AND EXIT SIGNS: UNLESS NOTED OTHERWISE, NUMERAL ADJACENT TO LIGHTING FIXTURE OR EXIT SIGN INDICATES CIRCUIT NUMBER ORIGINATING FROM PANEL 13-ELP2.
  - EMERGENCY LIGHTING FIXTURES (SHOWN AS HALF SHADED) SHALL BE CONTROLLED LOCALLY WITH NORMAL LIGHTING FIXTURES WITHIN THE SAME SPACE. UPON LOSS OF POWER, THE EMERGENCY LIGHTING FIXTURES SHALL TURN ON.
  - ALL LIGHTING FIXTURES INCLUDING EXTERIOR LIGHTING FIXTURES SHALL BE TIED INTO LIGHTING CONTROL PANEL 13-LCP LOCATED IN ELECTRICAL ROOM.
  - LOCATION AND MOUNTING HEIGHT OF CHANNELS AND LIGHTING FIXTURES SHOWN IS APPROXIMATE, COORDINATED WITH OTHER TRADES.
  - ALL DIMENSIONS NOTED ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.
  - DEVICES, ENCLOSURES AND ELECTRICAL EQUIPMENT BELOW FLOOD PLAIN: DEVICES SHALL BE PROVIDED IN WEATHERPROOF ENCLOSURES. ENCLOSURES SHALL BE GASKETED AND WEATHERPROOF NEMA 4X. ELECTRICAL EQUIPMENT SHALL BE PROVIDED IN A NEMA 4X ENCLOSURE AND ALL CONNECTIONS TO EQUIPMENT SHALL BE ROUTED IN LFMC. CONDUITS CONNECTED TO ENCLOSURE SHALL BE PROPERLY SEALED.

- SHEET KEYNOTES:**
- BOTTOM OF LIGHTING FIXTURE SHALL BE 17'-0" [5182] AFF. CEILING HEIGHT WITHIN SPACE IS 18'-6" [5640].
  - BOTTOM OF FIXTURE SHALL BE 17'-0" [5182] AFF OF PUMP ROOM.
  - ACCESS HATCH IN CEILING FOR RIGGING OF EQUIPMENT INTO NEW PUMP ROOM. AREA SHALL BE KEPT CLEAR TO ALLOW FOR RIGGING.

1 LIGHTING PLAN - TUNNEL & BSMT LEVELS, PHASE 2  
SCALE: 1/4" = 1'-0"



PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER.

NO.	DESCRIPTION	DATE

**CONSULTANTS**

<b>HAZARDOUS MATERIALS</b> <b>MABBETT &amp; ASSOCIATES, INC.</b> 105 CENTRAL STREET, STONEHAM, MA 02180 PHONE: (781)275-6550 <b>CIVIL/STRUCTURAL</b> <b>PROFESSIONAL ENGINEERING CONSULTANTS, P.A.</b> 303 SOUTH TOPEKA, WICHITA, KS 67202 PHONE: (316)262-2881 <b>ARCHITECTURAL</b> <b>OCULUS INC.</b> 1 SOUTH MEMORIAL DRIVE, SUITE 1500, SAINT LOUIS, MO 63102 PHONE: (314)367-6100	<b>FIRE SUPPRESSION</b> <b>KOFFEL ASSOCIATES</b> 8815 CENTRE PARK DRIVE, SUITE 200, COLUMBIA, MD 21045 PHONE: (410)729-2246 <b>ELECTRONIC SECURITY</b> <b>MAGNA ENGINEERS</b> 861 CORPORATE DRIVE, SUITE 210, LEXINGTON, KY 40503 PHONE: (859)306-2990 <b>PHYSICAL SECURITY</b> <b>FORCE PROTECT</b> 3210 GULF BLVD, UNIT 304, BELLESAIR BEACH, FL 33786 PHONE: (602)836-4232
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**ENGINEER OF RECORD**

**Miller-Remick LLC**  
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 PHONE: (856)429-4000  
 FAX: (856)429-9002  
 MR PROJECT NO: 0499-0121

MILLER-REMIK LLC  
 PROFESSIONAL ENGINEER

**WILSON D. PACIO**  
 LICENSED PROFESSIONAL ENGINEER  
 KANSAS  
 26413  
 9.3.2021

**Office of Construction and Facilities Management**

**VA** U.S. Department of Veterans Affairs

Drawing Title  
**ELECTRICAL LIGHTING PLAN TUNNEL & BSMT LEVELS, PHASE 2**

Approved: Project Director

Phase  
**100% BID SET**

**FULLY SPRINKLERED**

Project Title  
**INSTALL NEW BOILERS IN BUILDING 13**

Location  
**ROBERT J. DOLE VA MEDICAL CENTER WICHITA, KANSAS**

Issue Date  
**2021-09-03**

Checked  
**ARH**

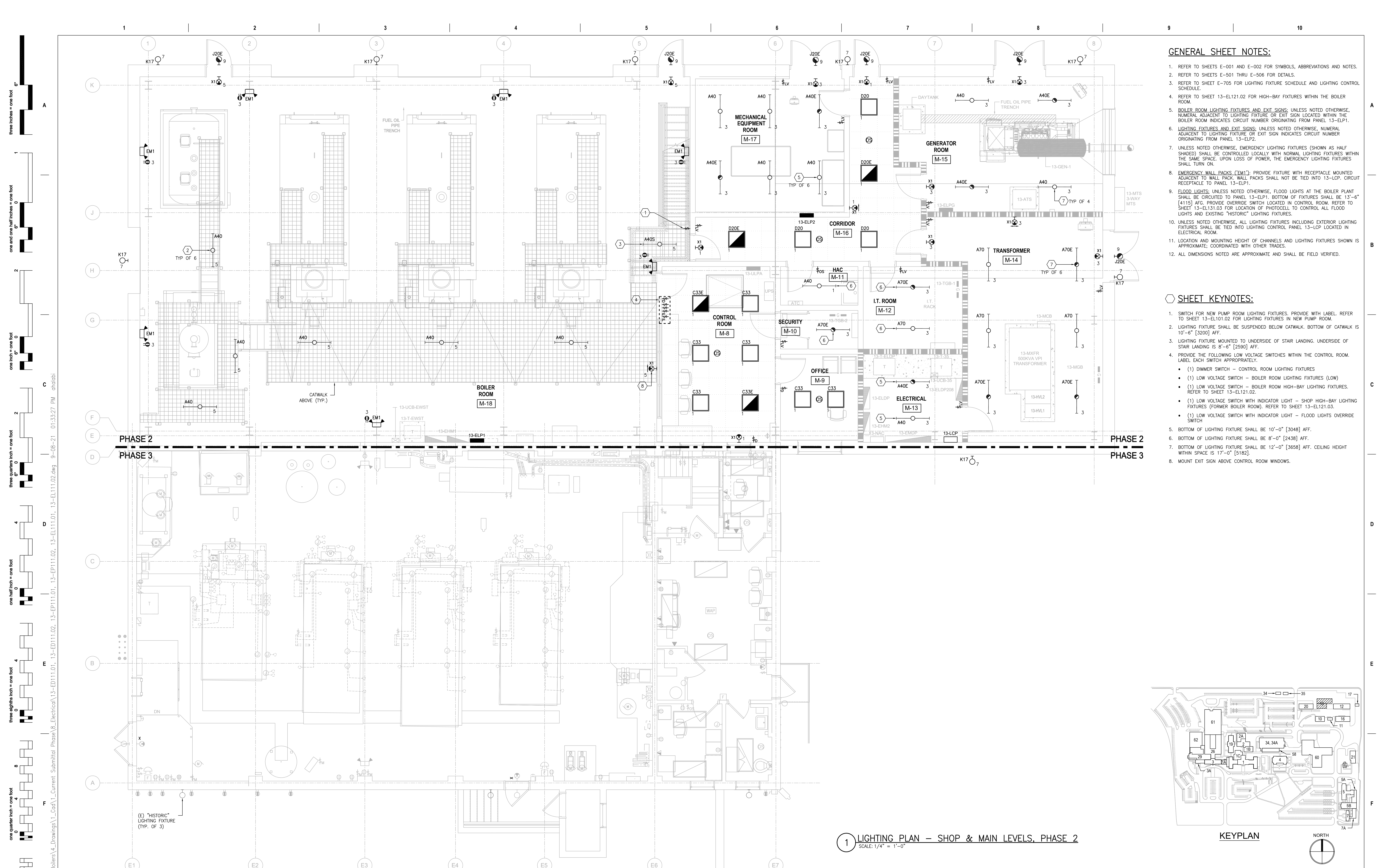
Drawn  
**ARH**

Project Number  
**589A7-18-302**

Building Number  
**13**

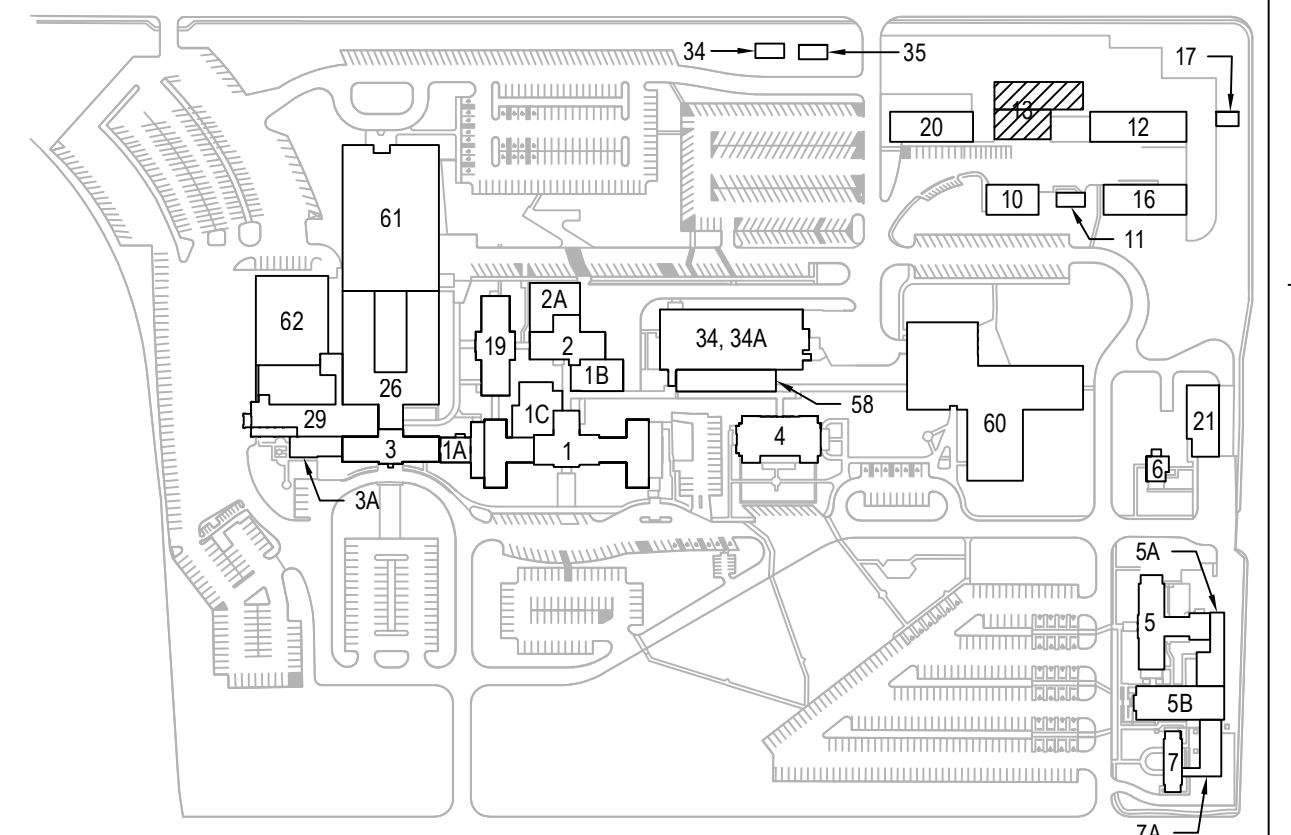
Drawing Number  
**13-EL101.02**





- GENERAL SHEET NOTES:**
- REFER TO SHEETS E-001 AND E-002 FOR SYMBOLS, ABBREVIATIONS AND NOTES.
  - REFER TO SHEETS E-501 THRU E-506 FOR DETAILS.
  - REFER TO SHEET E-705 FOR LIGHTING FIXTURE SCHEDULE AND LIGHTING CONTROL SCHEDULE.
  - REFER TO SHEET 13-EL121.02 FOR HIGH-BAY FIXTURES WITHIN THE BOILER ROOM.
  - BOILER ROOM LIGHTING FIXTURES AND EXIT SIGNS: UNLESS NOTED OTHERWISE, NUMERAL ADJACENT TO LIGHTING FIXTURE OR EXIT SIGN LOCATED WITHIN THE BOILER ROOM INDICATES CIRCUIT NUMBER ORIGINATING FROM PANEL 13-ELP1.
  - LIGHTING FIXTURES AND EXIT SIGNS: UNLESS NOTED OTHERWISE, NUMERAL ADJACENT TO LIGHTING FIXTURE OR EXIT SIGN INDICATES CIRCUIT NUMBER ORIGINATING FROM PANEL 13-ELP2.
  - UNLESS NOTED OTHERWISE, EMERGENCY LIGHTING FIXTURES (SHOWN AS HALF SHADED) SHALL BE CONTROLLED LOCALLY WITH NORMAL LIGHTING FIXTURES WITHIN THE SAME SPACE. UPON LOSS OF POWER, THE EMERGENCY LIGHTING FIXTURES SHALL TURN ON.
  - EMERGENCY WALL PACKS (EM1): PROVIDE FIXTURE WITH RECEPTACLE MOUNTED ADJACENT TO WALL PACK. WALL PACKS SHALL NOT BE TIED INTO 13-LCP. CIRCUIT RECEPTACLE TO PANEL 13-ELP1.
  - FLOOD LIGHTS: UNLESS NOTED OTHERWISE, FLOOD LIGHTS AT THE BOILER PLANT SHALL BE CIRCUITED TO PANEL 13-ELP1. BOTTOM OF FIXTURES SHALL BE 13'-6" (4115) AFF. PROVIDE OVERRIDE SWITCH LOCATED IN CONTROL ROOM. REFER TO SHEET 13-EL131.03 FOR LOCATION OF PHOTOCELL TO CONTROL ALL FLOOD LIGHTS AND EXISTING "HISTORIC" LIGHTING FIXTURES.
  - UNLESS NOTED OTHERWISE, ALL LIGHTING FIXTURES INCLUDING EXTERIOR LIGHTING FIXTURES SHALL BE TIED INTO LIGHTING CONTROL PANEL 13-LCP LOCATED IN ELECTRICAL ROOM.
  - LOCATION AND MOUNTING HEIGHT OF CHANNELS AND LIGHTING FIXTURES SHOWN IS APPROXIMATE; COORDINATED WITH OTHER TRADES.
  - ALL DIMENSIONS NOTED ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.

- SHEET KEYNOTES:**
- SWITCH FOR NEW PUMP ROOM LIGHTING FIXTURES. PROVIDE WITH LABEL. REFER TO SHEET 13-EL101.02 FOR LIGHTING FIXTURES IN NEW PUMP ROOM.
  - LIGHTING FIXTURE SHALL BE SUSPENDED BELOW CATWALK. BOTTOM OF CATWALK IS 10'-6" [3200] AFF.
  - LIGHTING FIXTURE MOUNTED TO UNDERSIDE OF STAIR LANDING. UNDERSIDE OF STAIR LANDING IS 8'-6" [2590] AFF.
  - PROVIDE THE FOLLOWING LOW VOLTAGE SWITCHES WITHIN THE CONTROL ROOM. LABEL EACH SWITCH APPROPRIATELY.
    - (1) DIMMER SWITCH - CONTROL ROOM LIGHTING FIXTURES
    - (1) LOW VOLTAGE SWITCH - BOILER ROOM LIGHTING FIXTURES (LOW)
    - (1) LOW VOLTAGE SWITCH - BOILER ROOM HIGH-BAY LIGHTING FIXTURES. REFER TO SHEET 13-EL121.02.
    - (1) LOW VOLTAGE SWITCH WITH INDICATOR LIGHT - SHOP HIGH-BAY LIGHTING FIXTURES (FORMER BOILER ROOM). REFER TO SHEET 13-EL121.03.
    - (1) LOW VOLTAGE SWITCH WITH INDICATOR LIGHT - FLOOD LIGHTS OVERRIDE SWITCH
  - BOTTOM OF LIGHTING FIXTURE SHALL BE 10'-0" [3048] AFF.
  - BOTTOM OF LIGHTING FIXTURE SHALL BE 8'-0" [2438] AFF.
  - BOTTOM OF LIGHTING FIXTURE SHALL BE 12'-0" [3658] AFF. CEILING HEIGHT WITHIN SPACE IS 17'-0" [5182].
  - MOUNT EXIT SIGN ABOVE CONTROL ROOM WINDOWS.



1 LIGHTING PLAN - SHOP & MAIN LEVELS, PHASE 2  
SCALE: 1/4" = 1'-0"

PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER.

NO.	DESCRIPTION	DATE

**CONSULTANTS**

<b>HAZARDOUS MATERIALS</b> <b>MABBETT &amp; ASSOCIATES, INC.</b> 105 CENTRAL STREET, STONEHAM, MA 02180 PHONE: (781)275-6550 <b>CIVIL / STRUCTURAL</b> <b>PROFESSIONAL ENGINEERING CONSULTANTS, P.A.</b> 303 SOUTH TOPEKA, WICHITA, KS 67202 PHONE: (316)282-2881 <b>ARCHITECTURAL</b> <b>OCULUS INC.</b> 1 SOUTH MEMORIAL DRIVE, SUITE 1500, SAINT LOUIS, MO 63102 PHONE: (314)367-6100	<b>FIRE SUPPRESSION</b> <b>KOFFEL ASSOCIATES</b> 8815 CENTRE PARK DRIVE, SUITE 200, COLUMBIA, MD 21045 PHONE: (410)729-2246 <b>ELECTRONIC SECURITY</b> <b>MAGNA ENGINEERS</b> 861 CORPORATE DRIVE, SUITE 210, LEXINGTON, KY 40503 PHONE: (859)306-2990 <b>PHYSICAL SECURITY</b> <b>FORCE PROTECT</b> 3210 GULF BLVD, UNIT 304, BELLAIR BEACH, FL 33786 PHONE: (802)836-4232
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**ENGINEER OF RECORD**

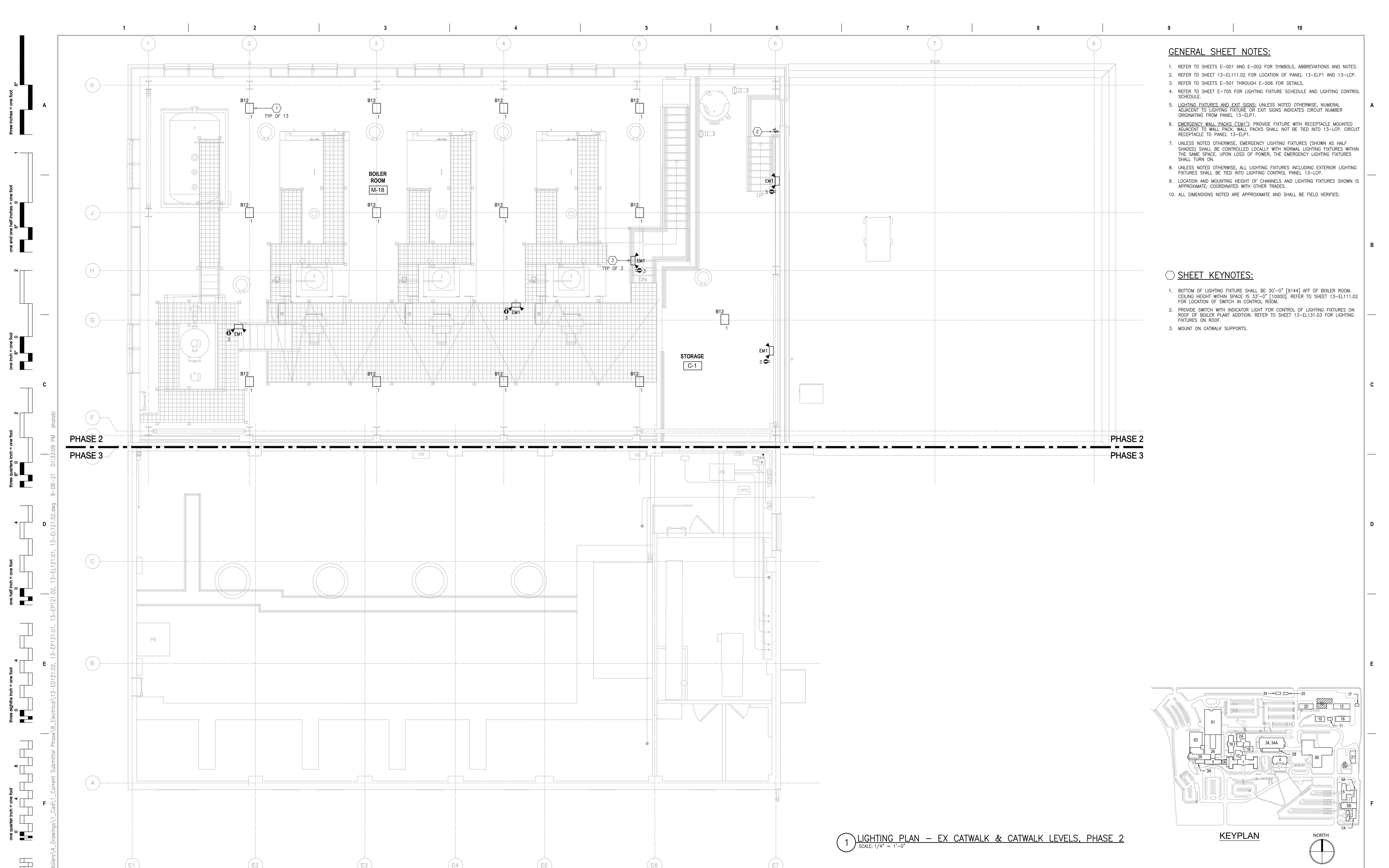
<b>Miller-Remick LLC</b> M.E.P. & Structural Engineering A Service Disabled Veteran Owned Small Business 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)429-4000 FAX: (856)429-5002 MR PROJECT NO: 0499-0121	MILLER-REMICK LLC PROFESSIONAL ENGINEER 
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<b>Office of Construction and Facilities Management</b> U.S. Department of Veterans Affairs	Drawing Title <b>ELECTRICAL LIGHTING PLAN SHOP &amp; MAIN LEVELS, PHASE 2</b> Approved: Project Director
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Phase	100% BID SET
Project Title	INSTALL NEW BOILERS IN BUILDING 13
Location	ROBERT J. DOLE VA MEDICAL CENTER WICHITA, KANSAS
Issue Date	2021-09-03
Checked	ARH
Drawn	ARH

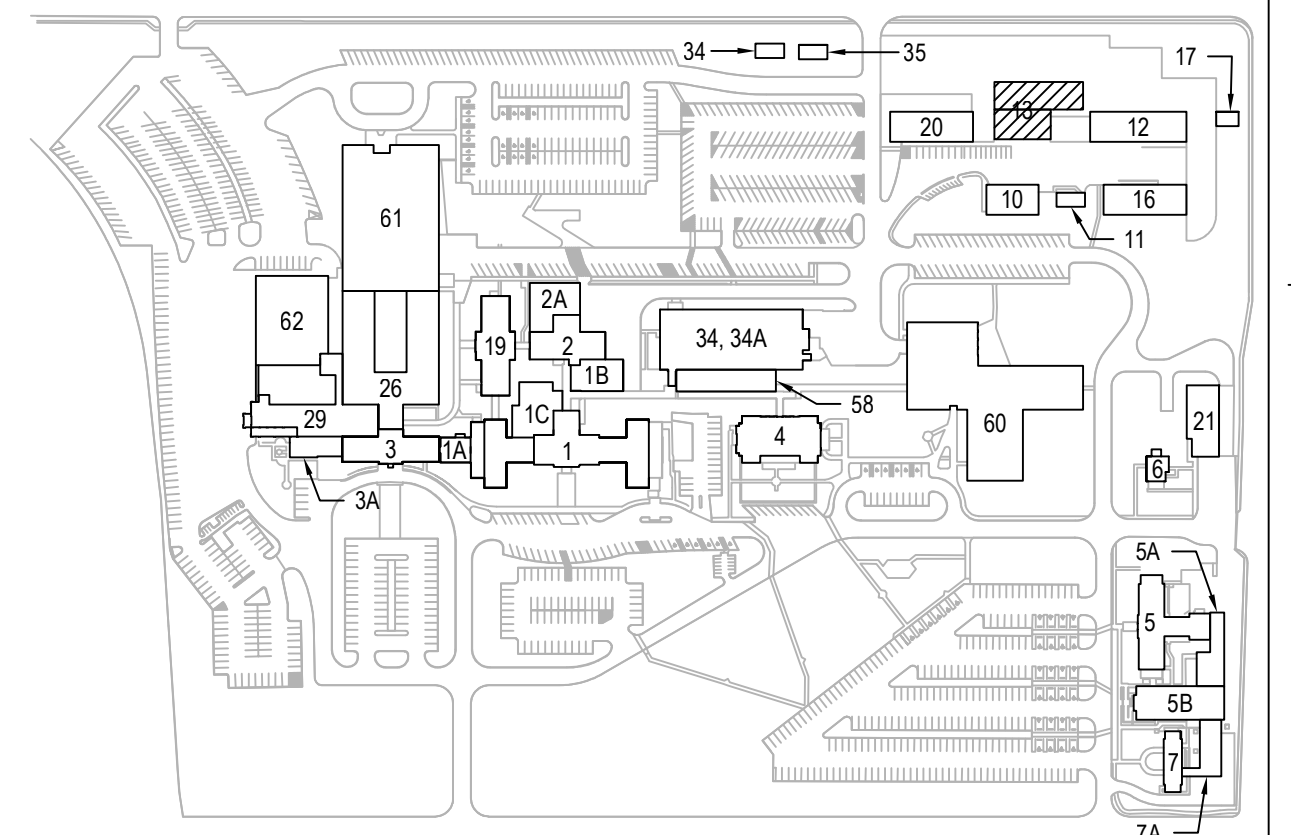
Project Number	589A7-18-302
Building Number	13
Drawing Number	13-EL111.02





- GENERAL SHEET NOTES:**
- REFER TO SHEETS E-001 AND E-002 FOR SYMBOLS, ABBREVIATIONS AND NOTES.
  - REFER TO SHEET 13-EL111.02 FOR LOCATION OF PANEL 13-ELP1 AND 13-LCP.
  - REFER TO SHEETS E-501 THROUGH E-506 FOR DETAILS.
  - REFER TO SHEET E-705 FOR LIGHTING FIXTURE SCHEDULE AND LIGHTING CONTROL SCHEDULE.
  - LIGHTING FIXTURES AND EXIT SIGNS: UNLESS NOTED OTHERWISE, NUMERAL ADJACENT TO LIGHTING FIXTURE OR EXIT SIGNS INDICATES CIRCUIT NUMBER ORIGINATING FROM PANEL 13-ELP1.
  - EMERGENCY WALL PACKS (EM1): PROVIDE FIXTURE WITH RECEPTACLE MOUNTED ADJACENT TO WALL. WALL PACKS SHALL NOT BE TIED INTO 13-LCP. CIRCUIT RECEPTACLE TO PANEL 13-ELP1.
  - UNLESS NOTED OTHERWISE, EMERGENCY LIGHTING FIXTURES (SHOWN AS HALF SHADED) SHALL BE CONTROLLED LOCALLY WITH NORMAL LIGHTING FIXTURES WITHIN THE SAME SPACE. UPON LOSS OF POWER, THE EMERGENCY LIGHTING FIXTURES SHALL TURN ON.
  - UNLESS NOTED OTHERWISE, ALL LIGHTING FIXTURES INCLUDING EXTERIOR LIGHTING FIXTURES SHALL BE TIED INTO LIGHTING CONTROL PANEL 13-LCP.
  - LOCATION AND MOUNTING HEIGHT OF CHANNELS AND LIGHTING FIXTURES SHOWN IS APPROXIMATE. COORDINATED WITH OTHER TRADES.
  - ALL DIMENSIONS NOTED ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.

- SHEET KEYNOTES:**
- BOTTOM OF LIGHTING FIXTURE SHALL BE 30'-0" [9144] AFF OF BOILER ROOM. CEILING HEIGHT WITHIN SPACE IS 33'-0" [10000]. REFER TO SHEET 13-EL111.02 FOR LOCATION OF SWITCH IN CONTROL ROOM.
  - PROVIDE SWITCH WITH INDICATOR LIGHT FOR CONTROL OF LIGHTING FIXTURES ON ROOF OF BOILER PLANT ADDITION. REFER TO SHEET 13-EL131.03 FOR LIGHTING FIXTURES ON ROOF.
  - MOUNT ON CATWALK SUPPORTS.



1 LIGHTING PLAN - EX CATWALK & CATWALK LEVELS, PHASE 2  
SCALE: 1/4" = 1'-0"

PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER.

NO.	DESCRIPTION	DATE

**CONSULTANTS**

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**ENGINEER OF RECORD**

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 M.E.P. & Structural Engineering  
 A Service Disabled Veteran Owned Small Business

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 MR PROJECT NO: 0499-0121

MILLER-REMICK LLC  
 PROFESSIONAL ENGINEER

WILSONY D. PACIARO  
 LICENSED PROFESSIONAL ENGINEER  
 KANSAS  
 26413  
 9.3.2021

**Office of Construction and Facilities Management**

**VA** U.S. Department of Veterans Affairs

Drawing Title  
**ELECTRICAL LIGHTING PLAN EX CATWALK & CATWALK LEVELS, PH 2**

Approved: Project Director

Phase  
 100% BID SET

FULLY SPRINKLERED

Project Title  
**INSTALL NEW BOILERS IN BUILDING 13**

Location  
 ROBERT J. DOLE VA MEDICAL CENTER  
 WICHITA, KANSAS

Issue Date  
 2021-09-03

Checked  
 ARH

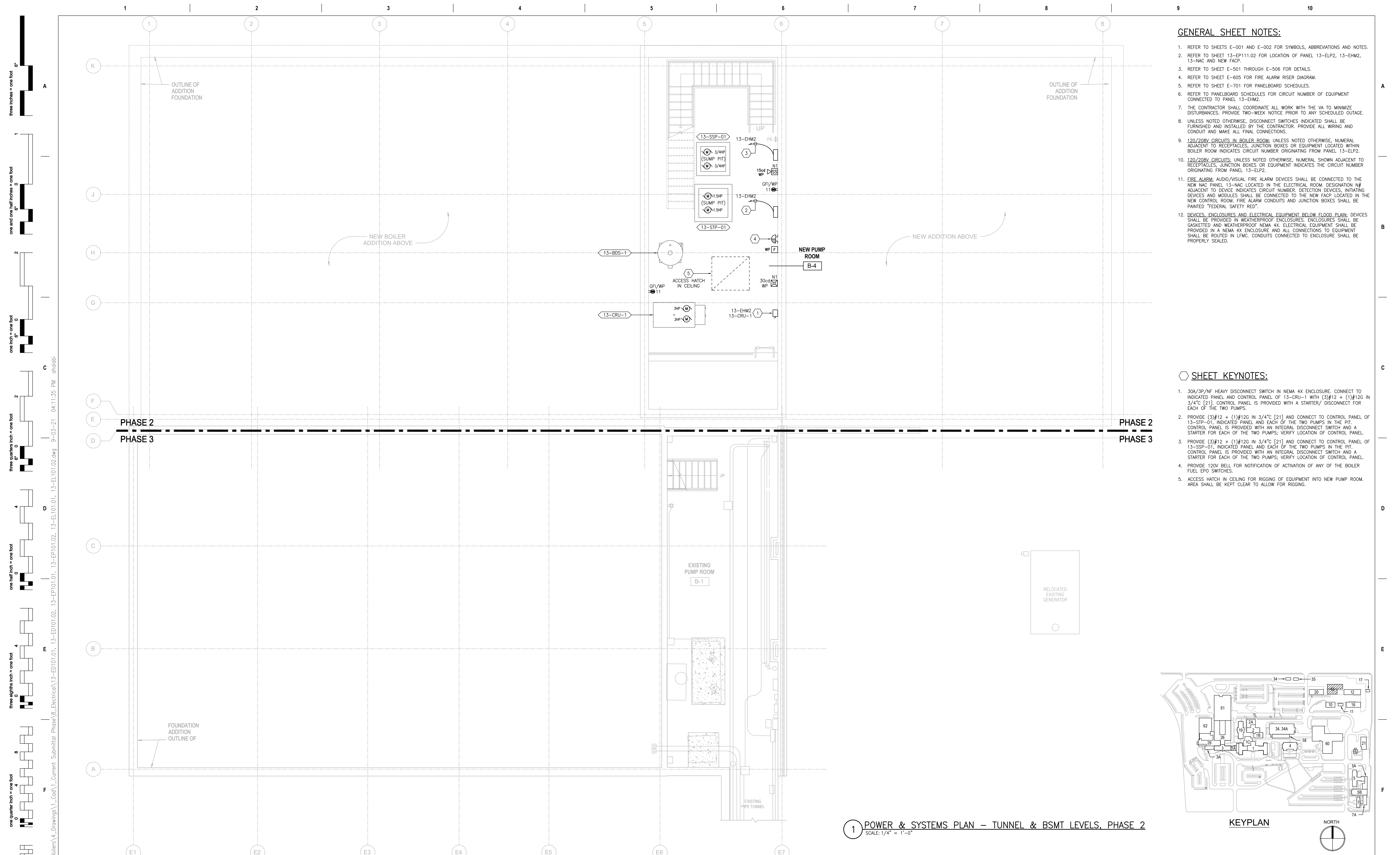
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Project Number  
 589A7-18-302

Building Number  
 13

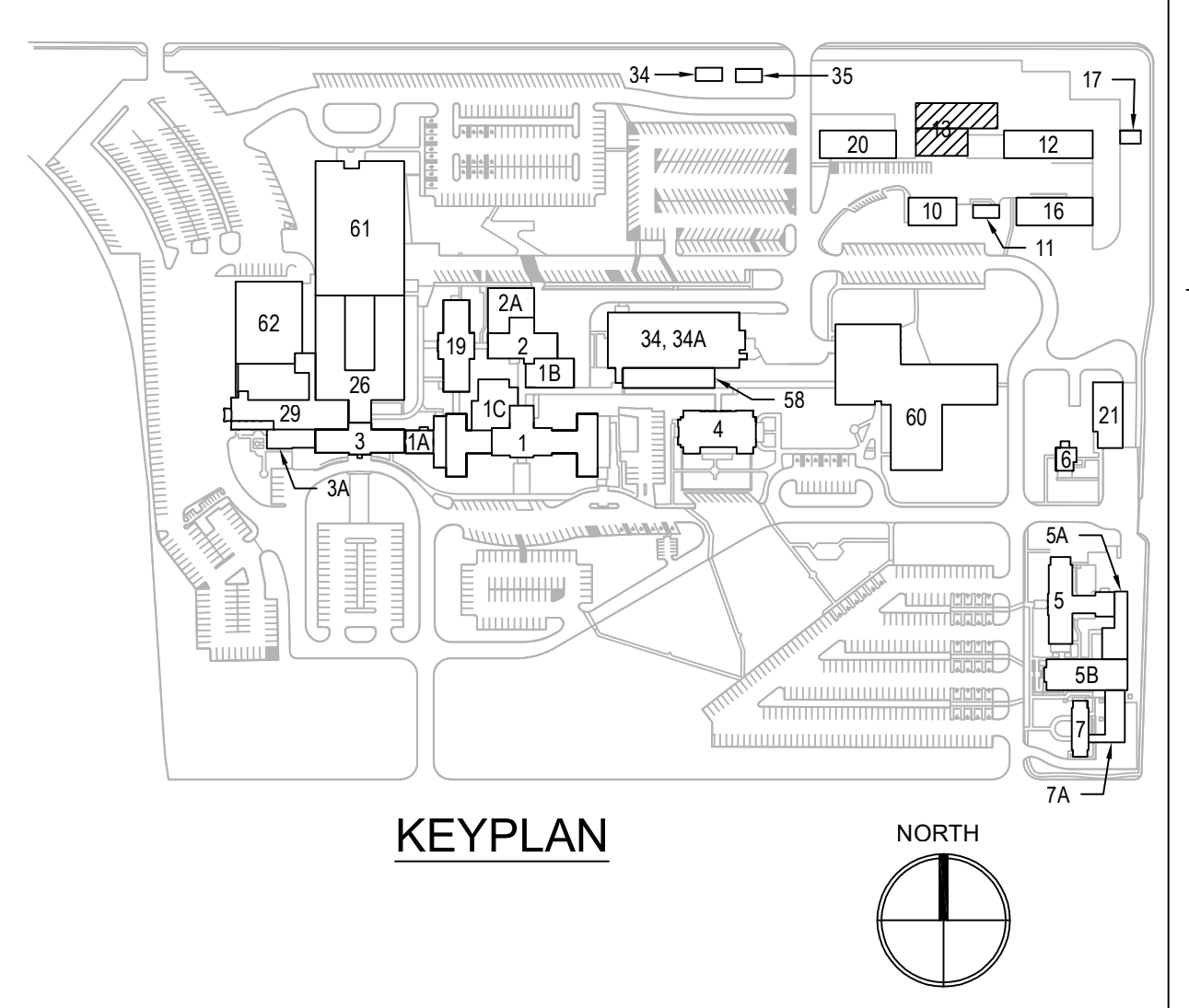
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**13-EL121.02**





- GENERAL SHEET NOTES:**
- REFER TO SHEETS E-001 AND E-002 FOR SYMBOLS, ABBREVIATIONS AND NOTES.
  - REFER TO SHEET 13-EP111.02 FOR LOCATION OF PANEL 13-ELP2, 13-EHM2, 13-NAC AND NEW FACP.
  - REFER TO SHEET E-501 THROUGH E-506 FOR DETAILS.
  - REFER TO SHEET E-605 FOR FIRE ALARM RISER DIAGRAM.
  - REFER TO SHEET E-701 FOR PANELBOARD SCHEDULES.
  - REFER TO PANELBOARD SCHEDULES FOR CIRCUIT NUMBER OF EQUIPMENT CONNECTED TO PANEL 13-EHM2.
  - THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE VA TO MINIMIZE DISTURBANCES. PROVIDE TWO-WEEK NOTICE PRIOR TO ANY SCHEDULED OUTAGE.
  - UNLESS NOTED OTHERWISE, DISCONNECT SWITCHES INDICATED SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. PROVIDE ALL WIRING AND CONDUIT AND MAKE ALL FINAL CONNECTIONS.
  - 120/208V CIRCUITS IN BOILER ROOM: UNLESS NOTED OTHERWISE, NUMERAL ADJACENT TO RECEPTACLES, JUNCTION BOXES OR EQUIPMENT LOCATED WITHIN BOILER ROOM INDICATES CIRCUIT NUMBER ORIGINATING FROM PANEL 13-ELP2.
  - 120/208V CIRCUITS: UNLESS NOTED OTHERWISE, NUMERAL SHOWN ADJACENT TO RECEPTACLES, JUNCTION BOXES OR EQUIPMENT INDICATES THE CIRCUIT NUMBER ORIGINATING FROM PANEL 13-ELP2.
  - FIRE ALARM, AUDIO/VISUAL FIRE ALARM DEVICES SHALL BE CONNECTED TO THE NEW NAC PANEL 13-NAC LOCATED IN THE ELECTRICAL ROOM. DESIGNATION NF ADJACENT TO DEVICE INDICATES CIRCUIT NUMBER. DETECTION DEVICES, INITIATING DEVICES AND MODULES SHALL BE CONNECTED TO THE NEW FACP LOCATED IN THE NEW CONTROL ROOM. FIRE ALARM CONDUITS AND JUNCTION BOXES SHALL BE PAINTED "FEDERAL SAFETY RED".
  - DEVICES, ENCLOSURES AND ELECTRICAL EQUIPMENT BELOW FLOOD PLAIN: DEVICES SHALL BE PROVIDED IN WEATHERPROOF ENCLOSURES. ENCLOSURES SHALL BE GASKETED AND WEATHERPROOF NEMA 4X. ELECTRICAL EQUIPMENT SHALL BE PROVIDED IN A NEMA 4X ENCLOSURE AND ALL CONNECTIONS TO EQUIPMENT SHALL BE ROUTED IN LFMC. CONDUITS CONNECTED TO ENCLOSURE SHALL BE PROPERLY SEALED.

- SHEET KEYNOTES:**
- 30A/3P/NF HEAVY DISCONNECT SWITCH IN NEMA 4X ENCLOSURE. CONNECT TO INDICATED PANEL AND CONTROL PANEL OF 13-CRU-1 WITH (3)#12 + (1)#12G IN 3/4" [21]. CONTROL PANEL IS PROVIDED WITH A STARTER/ DISCONNECT FOR EACH OF THE TWO PUMPS.
  - PROVIDE (3)#12 + (1)#12G IN 3/4" [21] AND CONNECT TO CONTROL PANEL OF 13-STP-01, INDICATED PANEL AND EACH OF THE TWO PUMPS IN THE PIT. CONTROL PANEL IS PROVIDED WITH AN INTEGRAL DISCONNECT SWITCH AND A STARTER FOR EACH OF THE TWO PUMPS; VERIFY LOCATION OF CONTROL PANEL.
  - PROVIDE (3)#12 + (1)#12G IN 3/4" [21] AND CONNECT TO CONTROL PANEL OF 13-SSP-01, INDICATED PANEL AND EACH OF THE TWO PUMPS IN THE PIT. CONTROL PANEL IS PROVIDED WITH AN INTEGRAL DISCONNECT SWITCH AND A STARTER FOR EACH OF THE TWO PUMPS; VERIFY LOCATION OF CONTROL PANEL.
  - PROVIDE 120V BELL FOR NOTIFICATION OF ACTIVATION OF ANY OF THE BOILER FUEL EPO SWITCHES.
  - ACCESS HATCH IN CEILING FOR RIGGING OF EQUIPMENT INTO NEW PUMP ROOM. AREA SHALL BE KEPT CLEAR TO ALLOW FOR RIGGING.



**1 POWER & SYSTEMS PLAN – TUNNEL & BSMT LEVELS, PHASE 2**  
SCALE: 1/4" = 1'-0"

PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER.

NO.	DESCRIPTION	DATE

**CONSULTANTS**

<p><b>HAZARDOUS MATERIALS</b> MABBETT &amp; ASSOCIATES, INC. 105 CENTRAL STREET, STONEHAM, MA 02180 PHONE: (781)275-6550</p> <p><b>CIVIL / STRUCTURAL</b> PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA, WICHITA, KS 67202 PHONE: (316)282-2881</p> <p><b>ARCHITECTURAL</b> OCULUS INC. 1 SOUTH MEMORIAL DRIVE, SUITE 1500, SAINT LOUIS, MO 63102 PHONE: (314)367-6100</p>	<p><b>FIRE SUPPRESSION</b> KOFFEL ASSOCIATES 8815 CENTRE PARK DRIVE, SUITE 200, COLUMBIA, MD 21045 PHONE: (410)729-2246</p> <p><b>ELECTRONIC SECURITY</b> MAGNA ENGINEERS 861 CORPORATE DRIVE, SUITE 210, LEXINGTON, KY 40503 PHONE: (859)306-2990</p> <p><b>PHYSICAL SECURITY</b> FORCE PROTECT 3210 GULF BLVD, UNIT 304, BELLESAIR BEACH, FL 33786 PHONE: (602)836-4232</p>
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**ENGINEER OF RECORD**

**Miller-Remick LLC**  
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MILLER-REMIK LLC  
PROFESSIONAL ENGINEER

ANTHONY D. PACIRO  
LICENSED PROFESSIONAL ENGINEER  
KANSAS  
26413  
9.3.2021

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title  
**ELECTRICAL POWER & SYSTEMS PLAN TUNNEL & BSMT LEVELS, PHASE 2**

Approved: Project Director

Phase  
**100% BID SET**

**FULLY SPRINKLERED**

Project Title  
**INSTALL NEW BOILERS IN BUILDING 13**

Location  
ROBERT J. DOLE VA MEDICAL CENTER  
WICHITA, KANSAS

Issue Date  
2021-09-03

Checked  
ARH

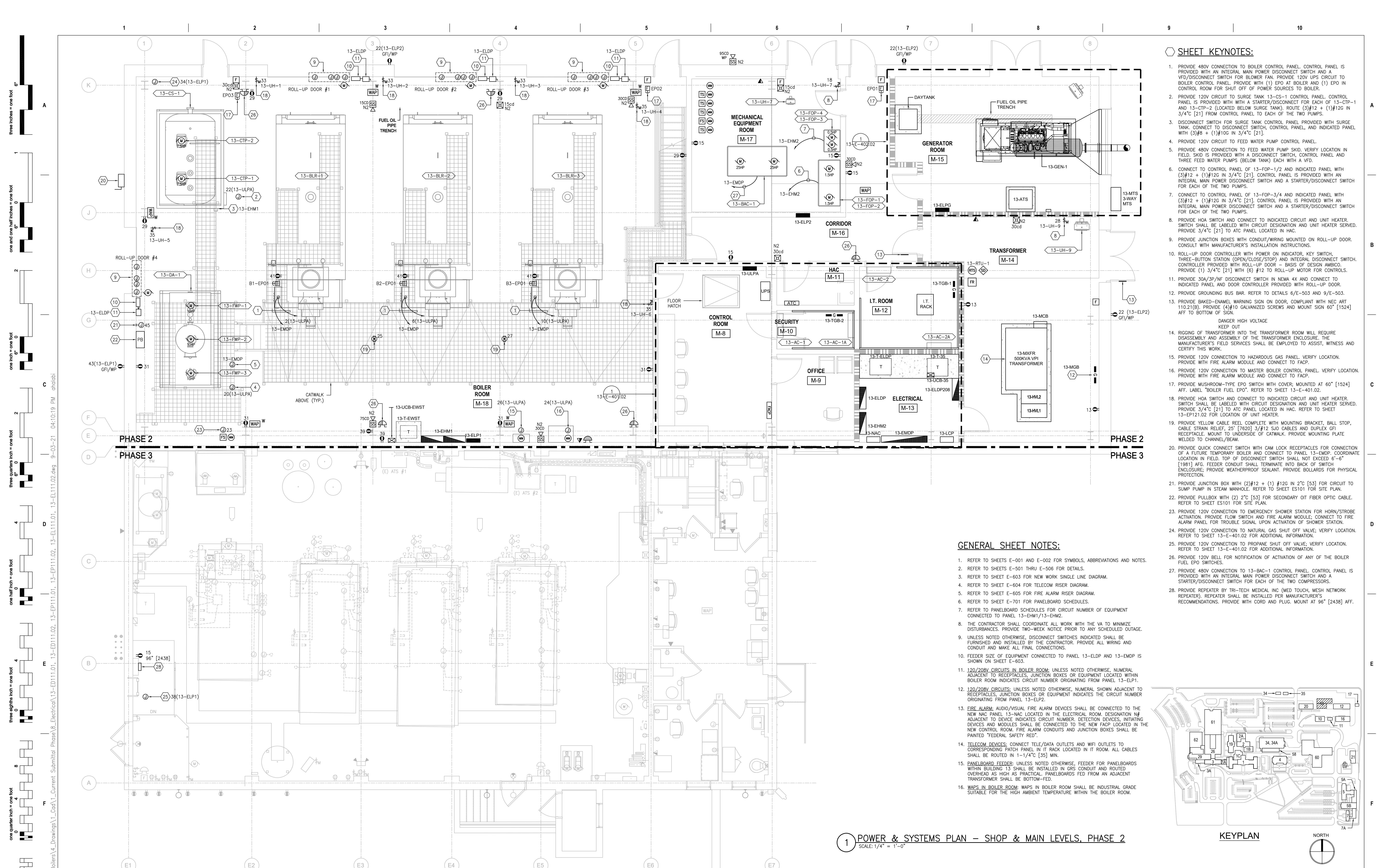
Drawn  
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Project Number  
**589A7-18-302**

Building Number  
**13**

Drawing Number  
**13-EP101.02**



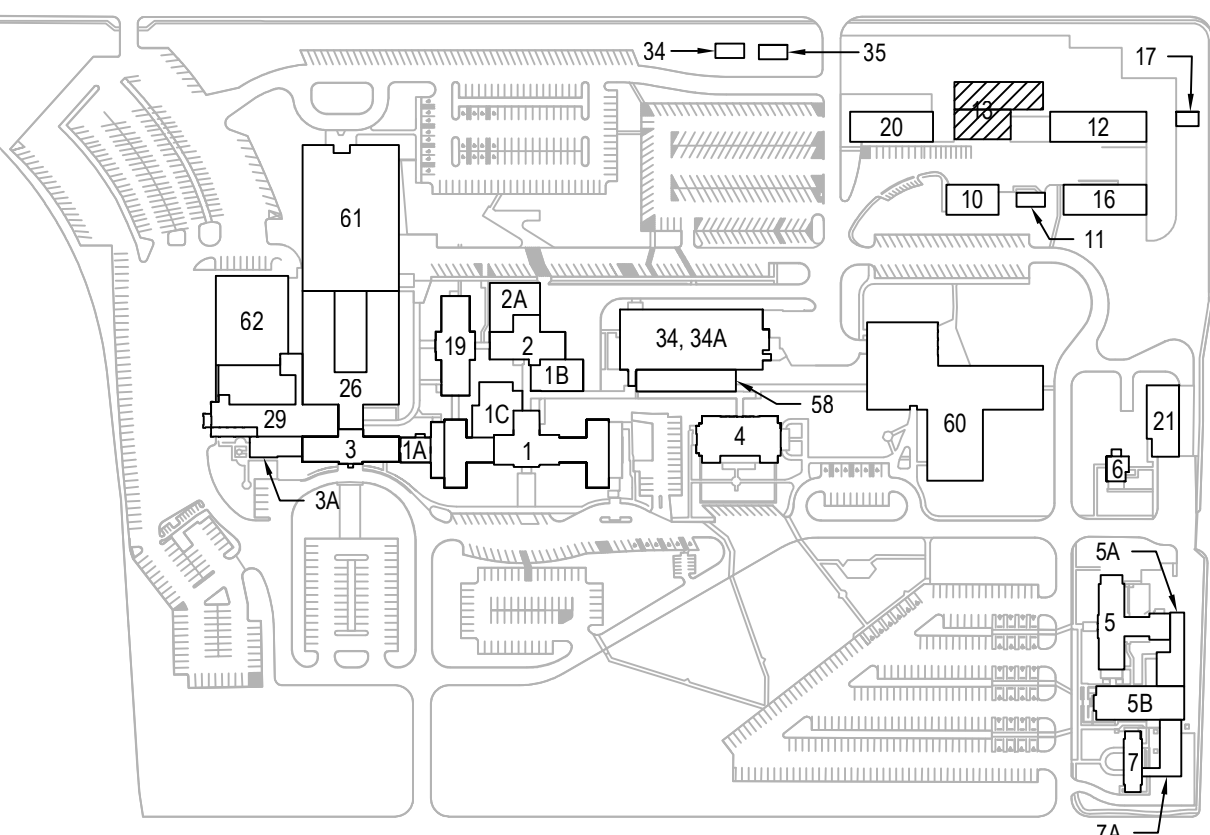


**SHEET KEYNOTES:**

- PROVIDE 480V CONNECTION TO BOILER CONTROL PANEL CONTROL PANEL IS PROVIDED WITH AN INTEGRAL MAIN POWER DISCONNECT SWITCH AND A VFD/DISCONNECT SWITCH FOR BLOWER FAN. PROVIDE 120V UPS CIRCUIT TO BOILER CONTROL PANEL. PROVIDE WITH (1) EPO AT BOILER AND (1) EPO IN CONTROL ROOM FOR SHUT OFF OF POWER SOURCES TO BOILER.
- PROVIDE 120V CIRCUIT TO SURGE TANK 13-CS-1 CONTROL PANEL. CONTROL PANEL IS PROVIDED WITH A STARTER/DISCONNECT FOR EACH OF 13-CIP-1 AND 13-CIP-2 (LOCATED BELOW SURGE TANK). ROUTE (3)#12 + (1)#12G IN 3/4" [2] FROM CONTROL PANEL TO EACH OF THE TWO PUMPS.
- DISCONNECT SWITCH FOR SURGE TANK CONTROL PANEL PROVIDED WITH SURGE TANK CONNECT TO DISCONNECT SWITCH, CONTROL PANEL, AND INDICATED PANEL WITH (3)#8 + (1)#10G IN 3/4" [2].
- PROVIDE 120V CIRCUIT TO FEED WATER PUMP CONTROL PANEL.
- PROVIDE 480V CONNECTION TO FEED WATER PUMP SKID. VERIFY LOCATION IN FIELD. SKID IS PROVIDED WITH A DISCONNECT SWITCH, CONTROL PANEL AND THREE FEED WATER PUMPS (BELOW TANK) EACH WITH A VFD.
- CONNECT TO CONTROL PANEL OF 13-FOP-1/2 AND INDICATED PANEL WITH (3)#12 + (1)#12G IN 3/4" [2]. CONTROL PANEL IS PROVIDED WITH AN INTEGRAL MAIN POWER DISCONNECT SWITCH AND A STARTER/DISCONNECT SWITCH FOR EACH OF THE TWO PUMPS.
- CONNECT TO CONTROL PANEL OF 13-FOP-3/4 AND INDICATED PANEL WITH (3)#12 + (1)#12G IN 3/4" [2]. CONTROL PANEL IS PROVIDED WITH AN INTEGRAL MAIN POWER DISCONNECT SWITCH AND A STARTER/DISCONNECT SWITCH FOR EACH OF THE TWO PUMPS.
- PROVIDE HOA SWITCH AND CONNECT TO INDICATED CIRCUIT AND UNIT HEATER. SWITCH SHALL BE LABELED WITH CIRCUIT DESIGNATION AND UNIT HEATER SERVED. PROVIDE 3/4" [2] TO ATC PANEL LOCATED IN HAC.
- PROVIDE JUNCTION BOXES WITH CONDUIT/WIRING MOUNTED ON ROLL-UP DOOR. CONSULT WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- ROLL-UP DOOR CONTROLLER WITH POWER ON INDICATOR, KEY SWITCH, THREE-BUTTON STATION (OPEN/CLOSE/STOP) AND INTEGRAL DISCONNECT SWITCH. CONTROLLER PROVIDED WITH ROLL-UP DOOR - BASIS OF DESIGN AMBICO. PROVIDE (1) 3/4" [2] WITH (6) #12 TO ROLL-UP MOTOR FOR CONTROLS.
- PROVIDE 30A/3P/4W DISCONNECT SWITCH IN NEMA 4X AND CONNECT TO INDICATED PANEL AND DOOR CONTROLLER PROVIDED WITH ROLL-UP DOOR.
- PROVIDE GROUNDING BUS BAR. REFER TO DETAILS 6/E-503 AND 9/E-503.
- PROVIDE BAKED-ENAMEL WARNING SIGN ON DOOR, COMPLIANT WITH NEC ART 110.21(B). PROVIDE (4) 10 GALVANIZED SCREWS AND MOUNT SIGN 60" [1524] AFF TO BOTTOM OF SIGN.
- DANGER HIGH VOLTAGE  
KEEP OUT
- RIGGING OF TRANSFORMER INTO THE TRANSFORMER ROOM WILL REQUIRE DISASSEMBLY AND ASSEMBLY OF THE TRANSFORMER ENCLOSE. THE MANUFACTURER'S FIELD SERVICES SHALL BE EMPLOYED TO ASSIST, WITNESS AND CERTIFY THIS WORK.
- PROVIDE 120V CONNECTION TO HAZARDOUS GAS PANEL. VERIFY LOCATION. PROVIDE WITH FIRE ALARM MODULE AND CONNECT TO FACP.
- PROVIDE 120V CONNECTION TO MASTER BOILER CONTROL PANEL. VERIFY LOCATION. PROVIDE WITH FIRE ALARM MODULE AND CONNECT TO FACP.
- PROVIDE MUSHROOM-TYPE EPO SWITCH WITH COVER, MOUNTED AT 60" [1524] AFF. LABEL "BOILER FUEL EPO" REFER TO SHEET 13-E-401.02.
- PROVIDE HOA SWITCH AND CONNECT TO INDICATED CIRCUIT AND UNIT HEATER. SWITCH SHALL BE LABELED WITH CIRCUIT DESIGNATION AND UNIT HEATER SERVED. PROVIDE 3/4" [2] TO ATC PANEL LOCATED IN HAC. REFER TO SHEET 13-EP121.02 FOR LOCATION OF UNIT HEATER.
- PROVIDE YELLOW CABLE REEL COMPLETE WITH MOUNTING BRACKET, BALL STOP, CABLE STRAIN RELIEF, 25' (7620) 3/8" I.D. SJO CABLES AND DUPLEX GFI RECEPTACLE MOUNT TO UNDERSIDE OF CATWALK. PROVIDE MOUNTING PLATE WELDED TO CHANNEL/BEAM.
- PROVIDE QUICK CONNECT SWITCH WITH CAM LOCK RECEPTACLES FOR CONNECTION OF A FUTURE TEMPORARY BOILER AND CONNECT TO PANEL 13-EMDP. COORDINATE LOCATION IN FIELD. TOP OF DISCONNECT SWITCH SHALL NOT EXCEED 6'-6" [1981] AFF. FEEDER CONDUIT SHALL TERMINATE INTO BACK OF SWITCH ENCLOSURE. PROVIDE WEATHERPROOF SEALANT. PROVIDE BOLLARDS FOR PHYSICAL PROTECTION.
- PROVIDE JUNCTION BOX WITH (2)#12 + (1) #12G IN 2" [53] FOR CIRCUIT TO SUMP PUMP IN STEAM MANHOLE. REFER TO SHEET E5101 FOR SITE PLAN.
- PROVIDE PULLBOX WITH (2) 2" [53] FOR SECONDARY OIT FIBER OPTIC CABLE. REFER TO SHEET E5101 FOR SITE PLAN.
- PROVIDE 120V CONNECTION TO EMERGENCY SHOWER STATION FOR HORN/STROBE ACTIVATION. PROVIDE FLOW SWITCH AND FIRE ALARM MODULE. CONNECT TO FIRE ALARM PANEL FOR TROUBLE SIGNAL UPON ACTIVATION OF SHOWER STATION.
- PROVIDE 120V CONNECTION TO NATURAL GAS SHUT OFF VALVE. VERIFY LOCATION. REFER TO SHEET 13-E-401.02 FOR ADDITIONAL INFORMATION.
- PROVIDE 120V CONNECTION TO PROPANE SHUT OFF VALVE. VERIFY LOCATION. REFER TO SHEET 13-E-401.02 FOR ADDITIONAL INFORMATION.
- PROVIDE 120V BELLS FOR NOTIFICATION OF ACTIVATION OF ANY OF THE BOILER FUEL EPO SWITCH.
- PROVIDE 480V CONNECTION TO 13-BAC-1 CONTROL PANEL. CONTROL PANEL IS PROVIDED WITH AN INTEGRAL MAIN POWER DISCONNECT SWITCH AND A STARTER/DISCONNECT SWITCH FOR EACH OF THE TWO COMPRESSORS.
- PROVIDE REPEATER BY TRI-TECH MEDICAL INC (MED TOUCH, MESH NETWORK REPEATER). REPEATER SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE WITH CORD AND PLUG. MOUNT AT 96" [2438] AFF.

**GENERAL SHEET NOTES:**

- REFER TO SHEETS E-001 AND E-002 FOR SYMBOLS, ABBREVIATIONS AND NOTES.
- REFER TO SHEETS E-501 AND E-506 FOR DETAILS.
- REFER TO SHEET E-603 FOR NEW WORK SINGLE LINE DIAGRAM.
- REFER TO SHEET E-604 FOR TELECOM RISER DIAGRAM.
- REFER TO SHEET E-605 FOR FIRE ALARM RISER DIAGRAM.
- REFER TO SHEET E-701 FOR PANELBOARD SCHEDULES.
- REFER TO PANELBOARD SCHEDULES FOR CIRCUIT NUMBER OF EQUIPMENT CONNECTED TO PANEL 13-EM1/13-EM2.
- THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE VA TO MINIMIZE DISTURBANCES. PROVIDE TWO-WEEK NOTICE PRIOR TO ANY SCHEDULED OUTAGE.
- UNLESS NOTED OTHERWISE, DISCONNECT SWITCHES INDICATED SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. PROVIDE ALL WIRING AND CONDUIT AND MAKE ALL FINAL CONNECTIONS.
- FEEDER SIZE OF EQUIPMENT CONNECTED TO PANEL 13-ELDP AND 13-EMDP IS SHOWN ON SHEET E-603.
- 120/208V CIRCUITS IN BOILER ROOM: UNLESS NOTED OTHERWISE, NUMERAL ADJACENT TO RECEPTACLES, JUNCTION BOXES OR EQUIPMENT LOCATED WITHIN BOILER ROOM INDICATES CIRCUIT NUMBER ORIGINATING FROM PANEL 13-ELP1.
- 120/208V CIRCUITS: UNLESS NOTED OTHERWISE, NUMERAL SHOWN ADJACENT TO RECEPTACLES, JUNCTION BOXES OR EQUIPMENT INDICATES THE CIRCUIT NUMBER ORIGINATING FROM PANEL 13-ELP2.
- FIRE ALARM: AUDIO/VISUAL FIRE ALARM DEVICES SHALL BE CONNECTED TO THE NEW HAC PANEL 13-HAC LOCATED IN THE ELECTRICAL ROOM. DESIGNATION #F ADJACENT TO DEVICE INDICATES CIRCUIT NUMBER. DETECTION DEVICES, INITIATING DEVICES AND MODULES SHALL BE CONNECTED TO THE NEW FAC LOCATED IN THE NEW CONTROL ROOM. FIRE ALARM CONDUITS AND JUNCTION BOXES SHALL BE PAINTED "FEDERAL SAFETY RED".
- TELECOM DEVICES: CONNECT TELE/DATA OUTLETS AND WIFI OUTLETS TO CORRESPONDING PATCH PANEL IN IT RACK LOCATED IN IT ROOM. ALL CABLES SHALL BE ROUTED IN 1-1/4" [35] MIN.
- PANELBOARD FEEDER: UNLESS NOTED OTHERWISE, FEEDER FOR PANELBOARDS WITHIN BUILDING 13 SHALL BE INSTALLED IN GRS CONDUIT AND ROUTED OVERHEAD AS HIGH AS PRACTICAL. PANELBOARDS FED FROM AN ADJACENT TRANSFORMER SHALL BE BOTTOM-FED.
- WAPS IN BOILER ROOM: WAPS IN BOILER ROOM SHALL BE INDUSTRIAL GRADE SUITABLE FOR THE HIGH AMBIENT TEMPERATURE WITHIN THE BOILER ROOM.



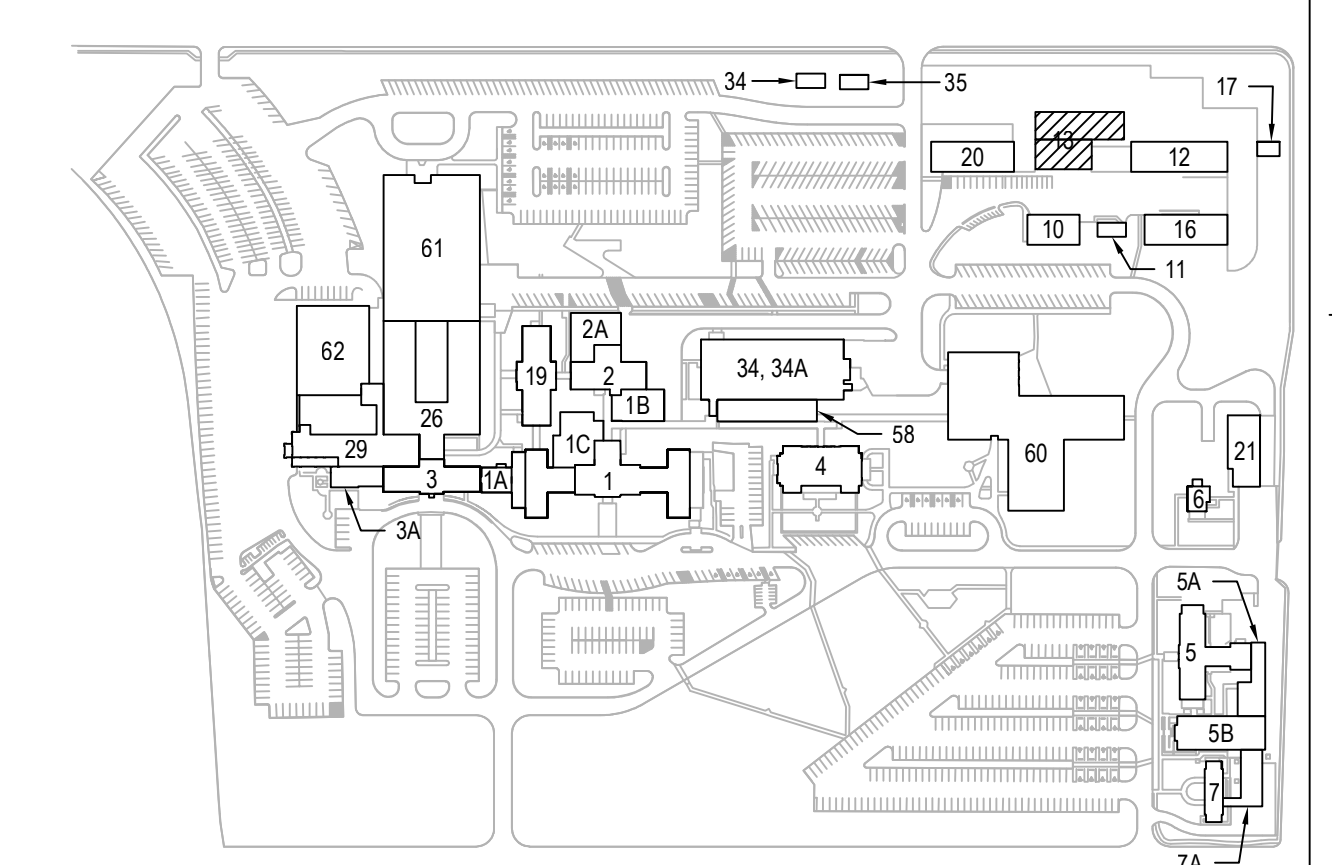
**1 POWER & SYSTEMS PLAN - SHOP & MAIN LEVELS, PHASE 2**  
SCALE: 1/4" = 1'-0"

PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER.			<b>CONSULTANTS</b> <b>HAZARDOUS MATERIALS</b> MABBETT & ASSOCIATES, INC. 105 CENTRAL STREET, STONEHAM, MA 02180 PHONE: (781)275-6050 <b>CIVIL/STRUCTURAL</b> PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA, WICHITA, KS 67202 PHONE: (316)262-2881 <b>ARCHITECTURAL</b> OCULUS INC. 1 SOUTH MEMORIAL DRIVE, SUITE 1500, SAINT LOUIS, MO 63102 PHONE: (314)367-6100		<b>FIRE SUPPRESSION</b> KOFFEL ASSOCIATES 8815 CENTRE PARK DRIVE, SUITE 200, COLUMBIA, MD 21045 PHONE: (410)729-2246 <b>ELECTRONIC SECURITY</b> MAGNA ENGINEERS 861 CORPORATE DRIVE, SUITE 210, LEXINGTON, KY 40503 PHONE: (859)306-2990 <b>PHYSICAL SECURITY</b> FORCE PROTECT 3210 GULF BLVD, UNIT 304, BELLE SAIR BEACH, FL 33786 PHONE: (602)836-4232		<b>ENGINEER OF RECORD</b> <b>Miller-Remick LLC</b> M.E.P. & Structural Engineering A Service Disabled Veteran Owned Small Business 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)429-4000 FAX: (856)429-9022 MR PROJECT NO: 0499-0121		MILLER-REMICK LLC PROFESSIONAL ENGINEER 		<b>Office of Construction and Facilities Management</b> VA U.S. Department of Veterans Affairs		Drawing Title <b>ELECTRICAL POWER &amp; SYSTEMS PLAN SHOP &amp; MAIN LEVELS, PHASE 2</b> Approved: Project Director		Phase <b>100% BID SET</b> <b>FULLY SPRINKLERED</b>		Project Title <b>INSTALL NEW BOILERS IN BUILDING 13</b> Location <b>ROBERT J. DOLE VA MEDICAL CENTER WICHITA, KANSAS</b> Issue Date <b>2021-09-03</b> Checked ARH Drawn ARH		Project Number <b>589A7-18-302</b> Building Number <b>13</b> Drawing Number <b>13-EP111.02</b>	
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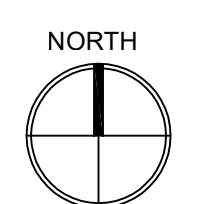


- GENERAL SHEET NOTES:**
- REFER TO SHEETS E-001 AND E-002 FOR SYMBOLS, ABBREVIATIONS AND NOTES.
  - REFER TO SHEET 13-EP111.02 FOR LOCATION OF PANEL 13-ELP1, PANEL 13-ELDP, PANEL 13-EHM1 AND NEW FACP.
  - REFER TO SHEETS E-501 THROUGH E-506 FOR DETAILS.
  - REFER TO SHEET E-603 FOR NEW WORK SINGLE LINE DIAGRAM.
  - REFER TO SHEET E-604 FOR TELECOM RISER DIAGRAM.
  - REFER TO SHEET E-605 FOR FIRE ALARM RISER DIAGRAM.
  - REFER TO SHEET E-701 FOR PANELBOARD SCHEDULES.
  - REFER TO PANELBOARD SCHEDULES FOR CIRCUIT NUMBER OF EQUIPMENT CONNECTED TO PANEL 13-ELP2/13-EHM1.
  - THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE VA TO MINIMIZE DISTURBANCES. PROVIDE TWO-WEEK NOTICE PRIOR TO ANY SCHEDULED OUTAGE.
  - UNLESS NOTED OTHERWISE, DISCONNECT SWITCHES INDICATED SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. PROVIDE ALL WIRING AND CONDUIT AND MAKE ALL FINAL CONNECTIONS.
  - 120/208V CIRCUITS: UNLESS NOTED OTHERWISE, NUMERAL SHOWN ADJACENT TO RECEPTACLES, JUNCTION BOXES OR EQUIPMENT INDICATES THE CIRCUIT NUMBER ORIGINATING FROM PANEL 13-ELP1.
  - FIRE ALARM: AUDIO/VISUAL FIRE ALARM DEVICES SHALL BE CONNECTED TO THE NEW NAC PANEL 13-NAC LOCATED IN THE ELECTRICAL ROOM. DESIGNATION N# ADJACENT TO DEVICE INDICATES CIRCUIT NUMBER. DETECTION DEVICES, INITIATING DEVICES AND MODULES SHALL BE CONNECTED TO THE NEW FACP LOCATED IN THE NEW CONTROL ROOM. FIRE ALARM CONDUITS AND JUNCTION BOXES SHALL BE PAINTED "FEDERAL SAFETY RED".
  - TELECOM DEVICES: CONNECT TELE/DATA OUTLETS AND WIFI OUTLETS TO CORRESPONDING PATCH PANEL IN IT RACK LOCATED IN IT ROOM. ALL CABLES SHALL BE ROUTED IN 1-1/4" [35] MIN.

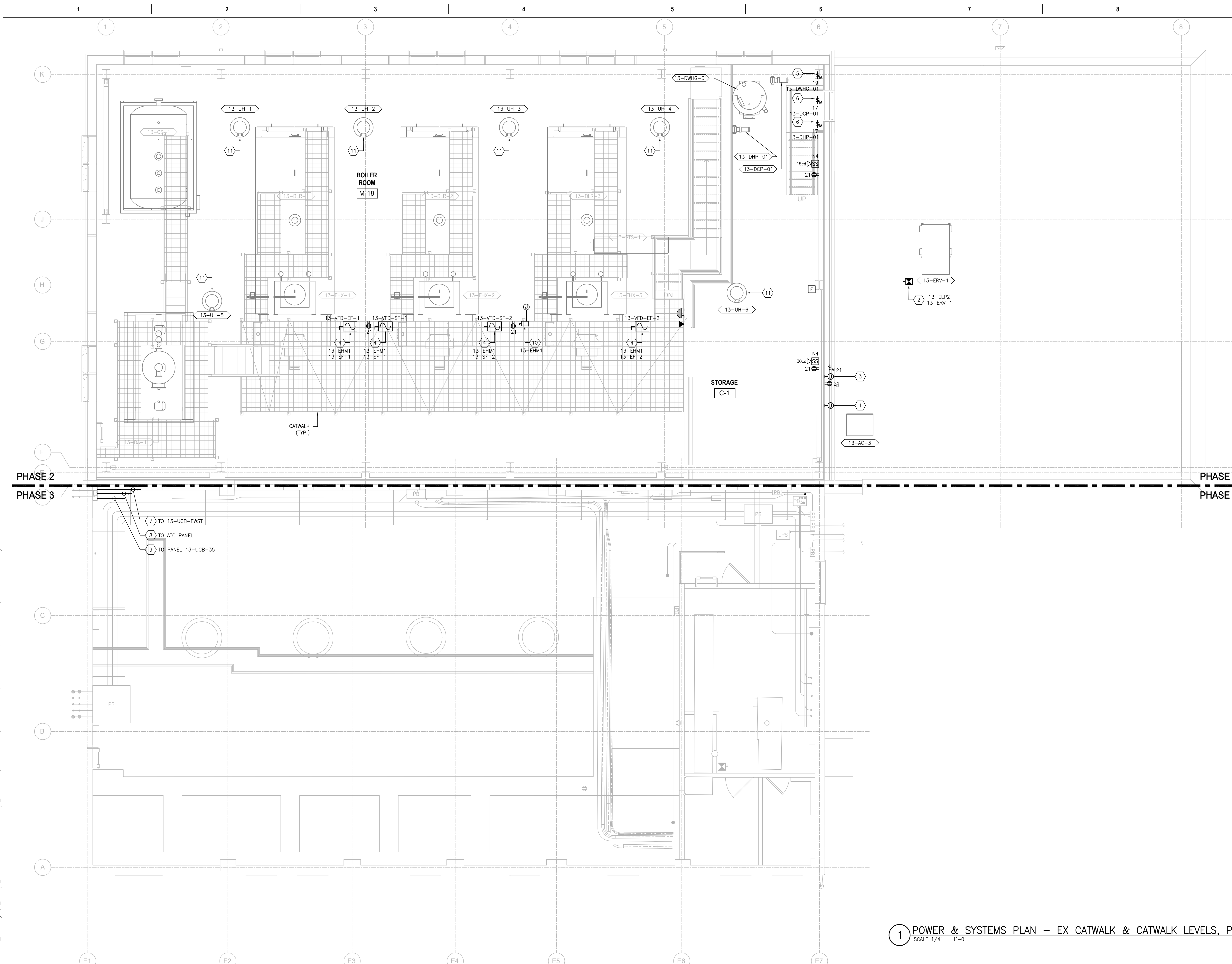
- SHEET KEYNOTES:**
- PROVIDE (4)#14 IN 3/4" [21] UP TO ASSOCIATED OUTDOOR UNIT AND MAKE FINAL CONNECTIONS. INDOOR UNIT (AC) IS POWERED BY OUTDOOR UNIT (ACCU) AND IS PROVIDED WITH A DISCONNECT SWITCH, COORDINATE LOCATION WITH MECHANICAL CONTRACTOR. REFER TO SHEET 13-EP131.02 FOR LOCATION OF ACCU.
  - PROVIDE COMBINATION STARTER DISCONNECT SWITCH IN NEMA 4X ENCLOSURE MOUNTED ABOVE CEILING OF CORRIDOR BELOW. CONNECT TO INDICATED PANEL AND ERV WITH (2)#12 + (1)#12G IN 3/4" [21]. PROVIDE ARC FLASH LABEL, CIRCUIT DESIGNATION AND NAME OF UNIT SERVED.
  - PROVIDE 120V CONNECTION TO CONDENSATE PUMP ABOVE DROP CEILING.
  - PROVIDE NEMA 4X VFD WITH INTEGRAL DISCONNECT AND BYPASS FEATURE MOUNTED ON UNISTRUT CHANNEL ALONG CATWALK SUPPORTS/HANDRAIL ROUTE (3)#12 + (1)#12G IN 3/4" [21] TO INDICATED PANEL; CONNECT FEEDER FROM ASSOCIATED DISCONNECT SWITCH LOCATED ON ROOF. PROVIDE ARC FLASH LABEL, CIRCUIT DESIGNATION AND NAME OF FAN SERVED. REFER TO SHEET 13-EP131.02 FOR LOCATION OF DISCONNECT SWITCH AND ASSOCIATED FAN.
  - PROVIDE MOTOR-RATED SWITCH AND CONNECT TO INDICATED CIRCUIT AND WATER HEATER. MOUNT SWITCH BELOW STAIRS AT 60" AFF. PROVIDE WITH LABEL INDICATING CIRCUIT AND UNIT SERVED.
  - PROVIDE MOTOR-RATED SWITCH AND IN-LINE FUSE AND CONNECT TO INDICATED CIRCUIT AND PUMP. MOUNT SWITCH BELOW STAIRS AT 60" AFF. PROVIDE WITH LABEL INDICATING CIRCUIT AND UNIT SERVED.
  - FEEDER ORIGINATING FROM 13-UCB-EWST OUT TO PANEL 13-EWST AT WATER STORAGE TANK. REFER TO SHEET 13-E-403.02 FOR LOCATION OF PANEL 13-EWST. REFER TO SHEET E-101 FOR ROUTING OF CONDUIT TO WATER STORAGE TANK.
  - 2" [53] FOR CONTROL WIRING ROUTED FROM ATC PANEL IN HOUSEKEEPING TO WATER STORAGE TANK. REFER TO SHEET 13-E-403.02 FOR TERMINATION POINT AT WATER STORAGE TANK.
  - PROVIDE FEEDER ORIGINATING FROM 13-UCB-35 IN ELECTRICAL ROOM (SEE SHEET 13-EP111.02) AND SPLICE WITH FEEDER PROVIDED DURING PHASE 1. FEEDER SERVES EXISTING PANEL AT BUILDING 35.
  - PROVIDE 20A/3P/NF DISCONNECT SWITCH IN NEMA 4X ENCLOSURE MOUNTED ON UNISTRUT CHANNEL ALONG CATWALK SUPPORTS/HANDRAIL. CONNECT TO STEAM SILENCER VALVE ACTUATOR AND INDICATED PANEL WITH (3)#12 + (1)#12G IN 3/4" [21].
  - CONNECT UNIT HEATER TO ASSOCIATED HOA SWITCH SHOWN ON MAIN LEVEL. REFER TO SHEET 13-EP111.02 FOR LOCATION OF SWITCH.



**KEYPLAN**



**1 POWER & SYSTEMS PLAN - EX CATWALK & CATWALK LEVELS, PHASE 2**  
SCALE: 1/4" = 1'-0"



PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER.

NO.	DESCRIPTION	DATE

**CONSULTANTS**

<p><b>HAZARDOUS MATERIALS</b> MABBETT &amp; ASSOCIATES, INC. 105 CENTRAL STREET, STONEHAM, MA 02180 PHONE: (781)275-6550</p> <p><b>CIVIL/STRUCTURAL</b> PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA, WICHITA, KS 67202 PHONE: (316)282-2881</p> <p><b>ARCHITECTURAL</b> OCULUS INC. 1 SOUTH MEMORIAL DRIVE, SUITE 1500, SAINT LOUIS, MO 63102 PHONE: (314)367-6100</p>	<p><b>FIRE SUPPRESSION</b> KOFFEL ASSOCIATES 8815 CENTRE PARK DRIVE, SUITE 200, COLUMBIA, MD 21045 PHONE: (410)759-2246</p> <p><b>ELECTRONIC SECURITY</b> MAGNA ENGINEERS 861 CORPORATE DRIVE, SUITE 210, LEXINGTON, KY 40503 PHONE: (859)306-2990</p> <p><b>PHYSICAL SECURITY</b> FORCE PROTECT 3210 GULF BLVD, UNIT 304, BELLEAIR BEACH, FL 33786 PHONE: (802)836-4232</p>
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**ENGINEER OF RECORD**

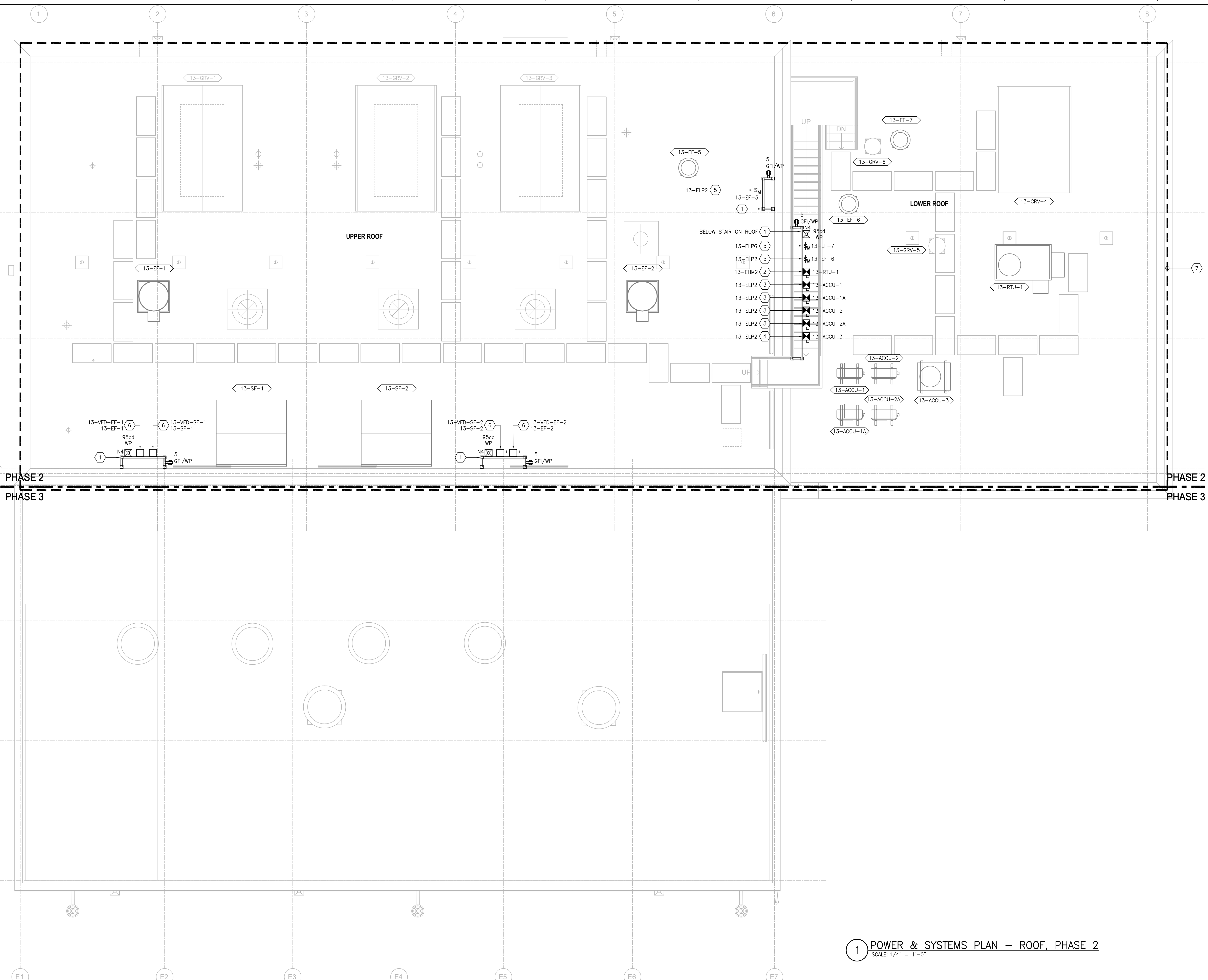
<p><b>Miller-Remick LLC</b> M.E.P. &amp; Structural Engineering A Service Disabled Veteran Owned Small Business 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)429-4000 FAX: (856)429-9002 MR PROJECT NO: 0499-0121</p>	<p>MILLER-REMICK LLC PROFESSIONAL ENGINEER ANTHONY D. PACIORO LICENSED PROFESSIONAL ENGINEER KANSAS 26413 9.3.2021</p>
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<p><b>Office of Construction and Facilities Management</b> VA U.S. Department of Veterans Affairs</p>	<p>Phase 100% BID SET FULLY SPRINKLERED</p>
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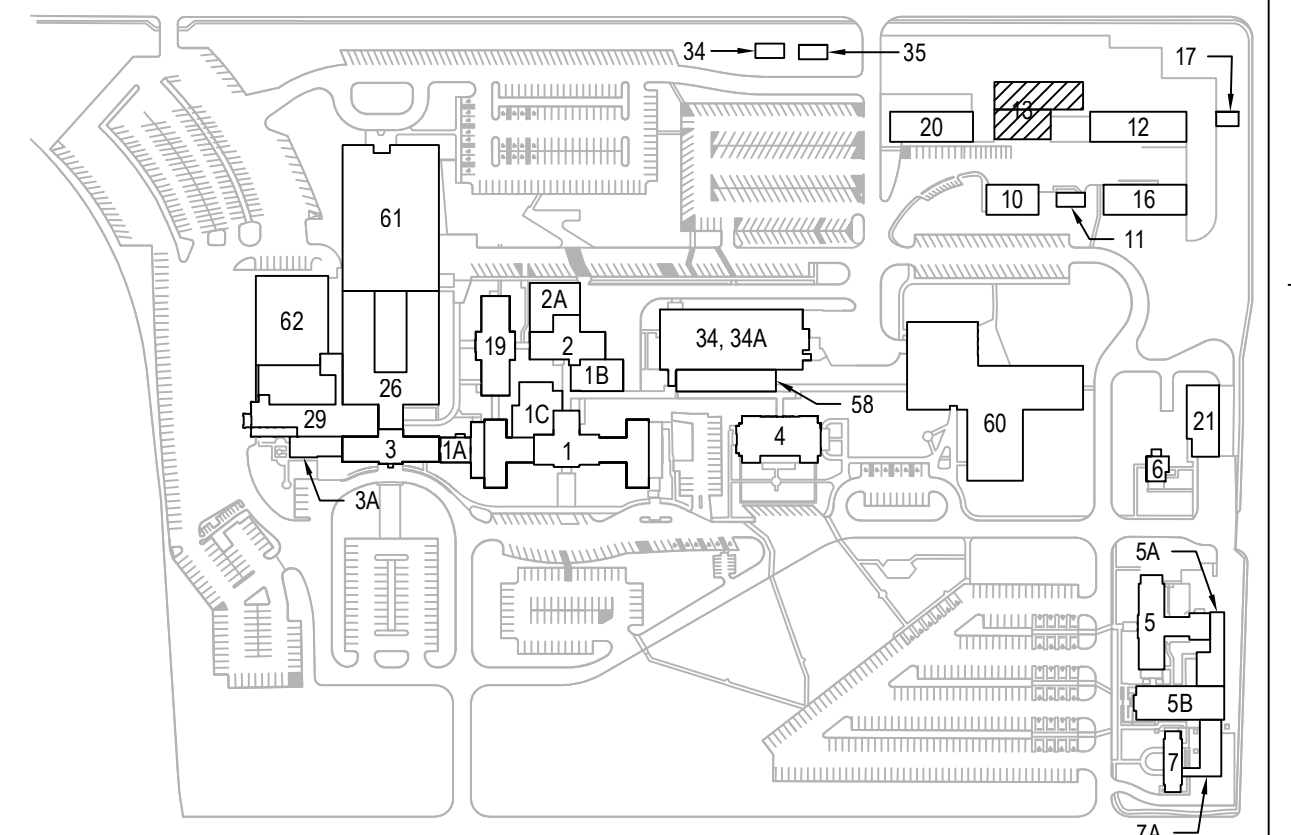
<p>Drawing Title <b>ELECTRICAL POWER &amp; SYSTEMS PLAN EX CATWALK &amp; CATWALK LEVELS, PH 2</b></p> <p>Approved: Project Director</p>	<p>Project Title <b>INSTALL NEW BOILERS IN BUILDING 13</b></p> <p>Location ROBERT J. DOLE VA MEDICAL CENTER WICHITA, KANSAS</p> <p>Issue Date 2021-09-03</p> <p>Checked ARH</p> <p>Drawn ARH</p>	<p>Project Number 589A7-18-302</p> <p>Building Number 13</p> <p>Drawing Number <b>13-EP121.02</b></p>
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VA FORM 08-6231





- SHEET KEYNOTES:**
- PROVIDE GALVANIZED STEEL UNISTRUT FRAME WITH GALVANIZED HARDWARE FOR MOUNTING OF INDICATED DEVICES/EQUIPMENT. BOND TO LIGHTNING PROTECTION SYSTEM. REFER TO MOUNTING DETAIL 3/E-503.
  - PROVIDE COMBINATION STARTER DISCONNECT SWITCH IN NEMA 4X ENCLOSURE MOUNTED ON UNISTRUT FRAME. CONNECT TO INDICATED EQUIPMENT AND PANEL WITH (3)#12 + (1)#12G IN 3/4" [21].
  - PROVIDE COMBINATION STARTER DISCONNECT SWITCH IN NEMA 4X ENCLOSURE MOUNTED ON UNISTRUT FRAME. CONNECT TO INDICATED EQUIPMENT AND PANEL WITH (2)#12 + (1)#12G IN 3/4" [21]. REFER TO SHEET EP111.02 FOR ASSOCIATED INDOOR UNIT (AC) WHICH IS POWERED BY OUTDOOR UNIT (ACCU).
  - PROVIDE COMBINATION STARTER DISCONNECT SWITCH IN NEMA 4X ENCLOSURE MOUNTED ON UNISTRUT FRAME. CONNECT TO INDICATED EQUIPMENT AND PANEL WITH (2)#10 + (1)#10G IN 3/4" [21]. REFER TO SHEET EP121.02 FOR ASSOCIATED INDOOR UNIT (AC) WHICH IS POWERED BY OUTDOOR UNIT (ACCU).
  - PROVIDE COMBINATION STARTER DISCONNECT SWITCH IN WEATHERPROOF ENCLOSURE MOUNTED ON UNISTRUT FRAME. CONNECT TO INDICATED EQUIPMENT AND PANEL WITH (2)#12 + (1)#12G IN 3/4" [21].
  - PROVIDE DISCONNECT SWITCH IN NEMA 4X ENCLOSURE MOUNTED ON UNISTRUT FRAME. CONNECT TO INDICATED VFD AND FAN WITH (3)#12 + (1)#12G IN 3/4" [21]. ROUTE (2) #12 IN 3/4" [21] FROM DISCONNECT SWITCH TO INDICATED VFD (AUXILIARY CONTACTS TO VFD). VFD IS LOCATED ON CATWALK LEVEL; REFER TO SHEET 13-EP121.02 FOR LOCATION.
  - INSTALL PORTION OF LIGHTNING PROTECTION SYSTEM AT THE ROOF OF THE NEW ADDITION. REFER TO SHEET 13-EP131.03 FOR ADDITIONAL INFORMATION AND APPLICABLE LIGHTNING PROTECTION NOTES.



1 POWER & SYSTEMS PLAN - ROOF, PHASE 2  
SCALE: 1/4" = 1'-0"

PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER.

NO.	DESCRIPTION	DATE

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 9.3.2021

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title <b>ELECTRICAL POWER &amp; SYSTEMS PLAN ROOF, PHASE 2</b>	Phase <b>100% BID SET</b>
Approved: Project Director	<b>FULLY SPRINKLERED</b>

Project Title <b>INSTALL NEW BOILERS IN BUILDING 13</b>	Project Number <b>589A7-18-302</b>
Location <b>ROBERT J. DOLE VA MEDICAL CENTER WICHITA, KANSAS</b>	Building Number <b>13</b>
Issue Date <b>2021-09-03</b>	Drawing Number <b>13-EP131.02</b>

Checked <b>ARH</b>	Drawn <b>ARH</b>
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