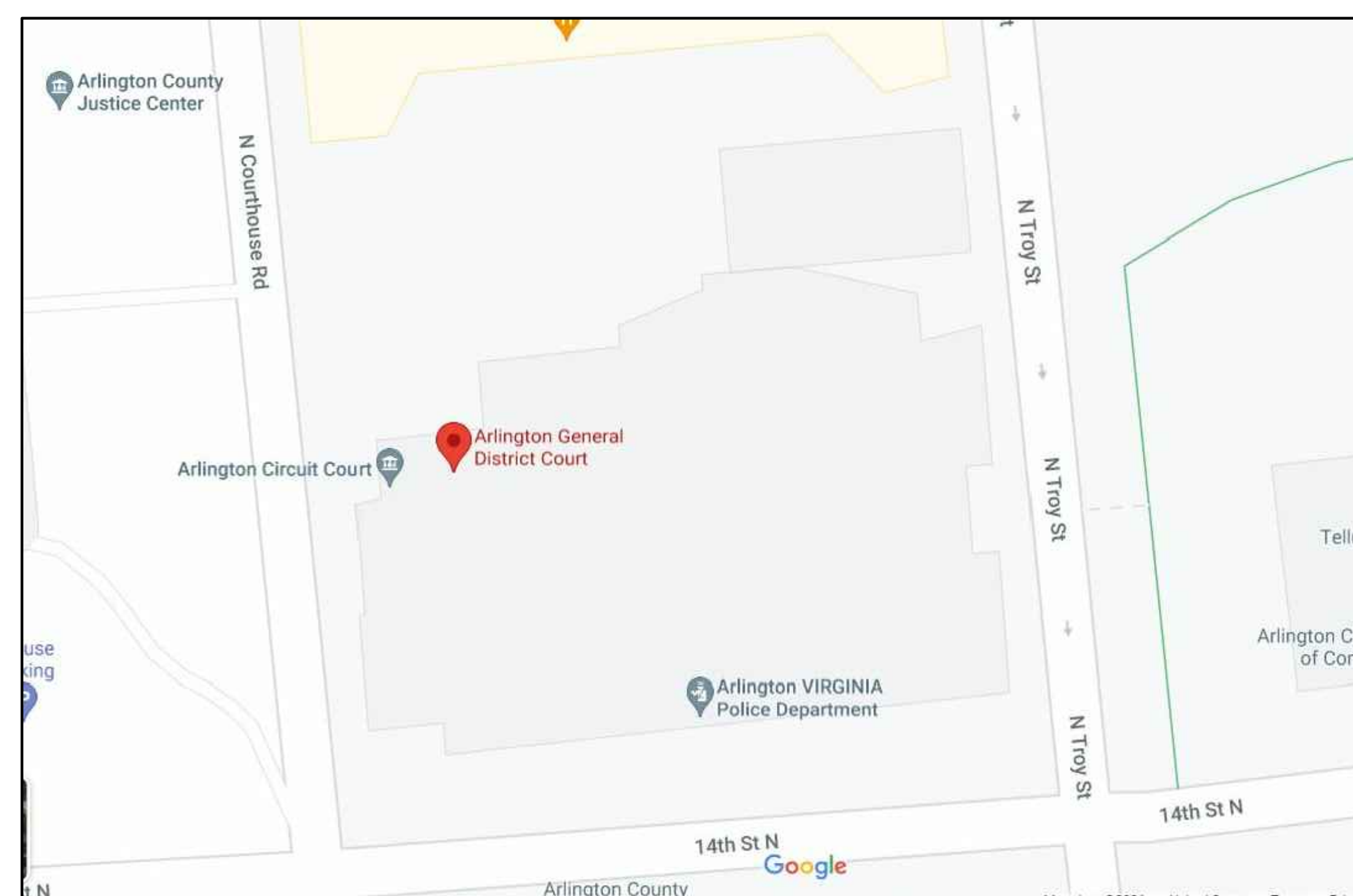




ARLINGTON COUNTY GENERAL DISTRICT COURT  
1425 NORTH COURTHOUSE ROAD, ARLINGTON VA 22201

VICINITY MAP

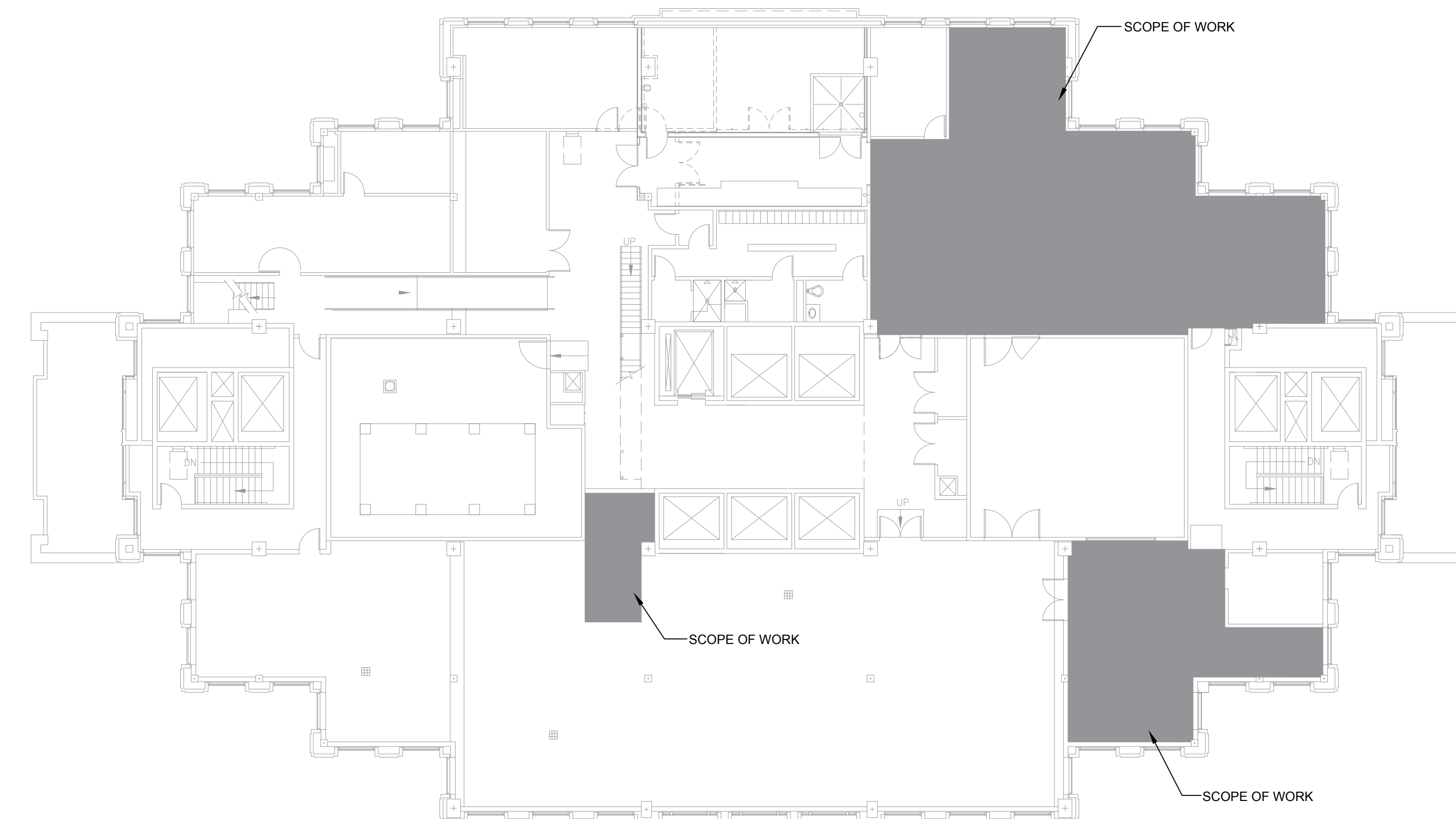


CODES AND BUILDING DATA

VIRGINIA UNIFORM STATEWIDE BUILDING CODE (USBC)  
2015 VIRGINIA CONSTRUCTION CODE  
2015 VIRGINIA EXISTING BUILDING CODE  
2014 NFPA 70 NATIONAL ELECTRICAL CODE

GENERAL BUILDING DATA  
SUBMITTER: BOWMAN  
12950 WORLDGATE DRIVE, SUITE 100  
HENDERSON, VA 20170  
BUILDING ADDRESS: 1425 NORTH COURTHOUSE ROAD,  
ARLINGTON, VA 22201  
BUILDING SQUARE FOOTAGE: 325,000 SQFT  
NUMBER OF STORIES: 13  
BUILDING USE GROUP: B

SCOPE OF WORK



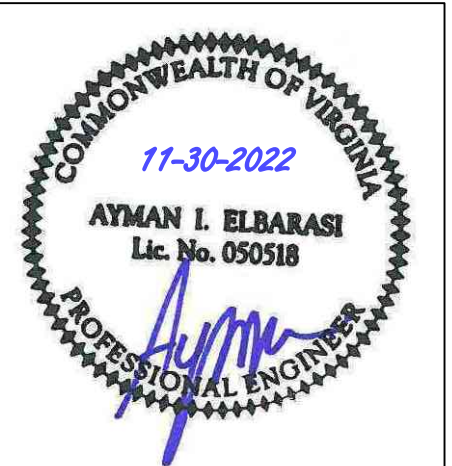
SCOPE OF WORK  
THE ELECTRICAL WORK ASSOCIATED WITH THIS SCOPE INCLUDES THE FOLLOWING:  
1. THE ONE TO ONE REPLACEMENT OF SIX (6) AUTOMATIC TRANSFER SWITCHES (ATS-1, ATS-2, ATS-3, ATS-4, ATS-5 AND ATS-6).  
2. THE INSTALLATION OF ONE NEW ATS REMOTE ANNUNCIATOR PANEL.  
3. THE INSTALLATION OF TEMPORARY ATS TO MINIMIZE THE OUTAGE TIME DURING THE REPLACEMENT OF EACH PERMANENT ATS.  
4. UPGRADE TO EXISTING GENERATOR DAY-TANK.  
5. THE ADDITION OF NEW LOAD BANK CONNECTION TO THE EXISTING GENERATOR SYSTEM.

THERE ARE NO ADDITION OR CHANGES TO WALLS, PATHS OF EGRESS, EXISTING SQUARE FOOTAGE, FIRE OR LIFE-SAFETY DEVICES.

SUMMARY OF AFFECTED AREA

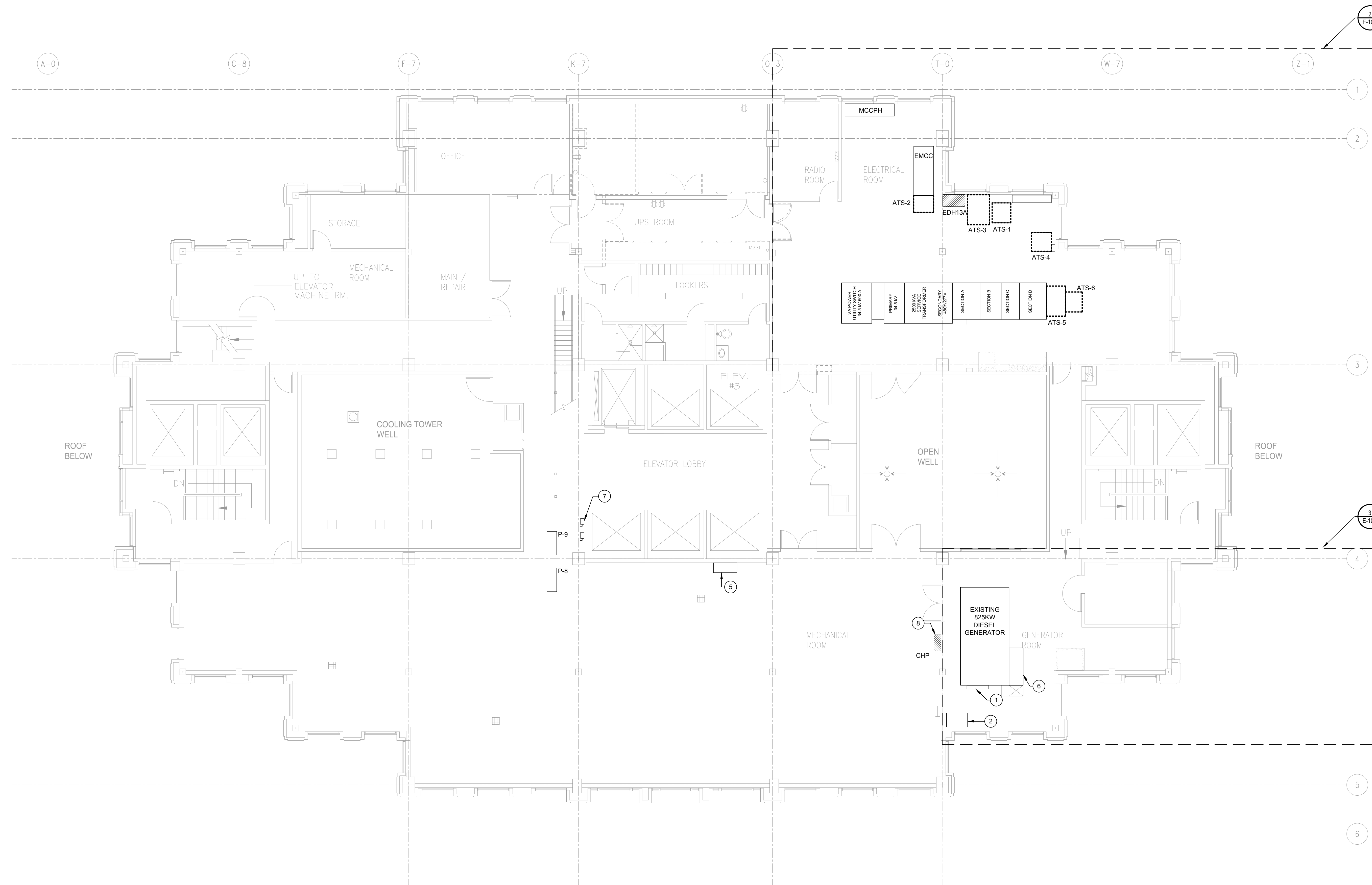
13TH FLOOR: MAIN ELECTRICAL ROOM:	2000 SQFT
13TH FLOOR: GENERATOR ROOM:	700 SQFT
13TH FLOOR: MECHANICAL ROOM:	150 SQFT
<b>TOTAL:</b>	<b>2850 SQFT</b>

ISSUE	DESCRIPTION	REV#	DATE
50% CONSTRUCTION DOCUMENTS			3/15/21
100% CONSTRUCTION DOCUMENTS			5/31/21
PERMIT SET			7/09/21
ISSUE FOR BID			9/30/22

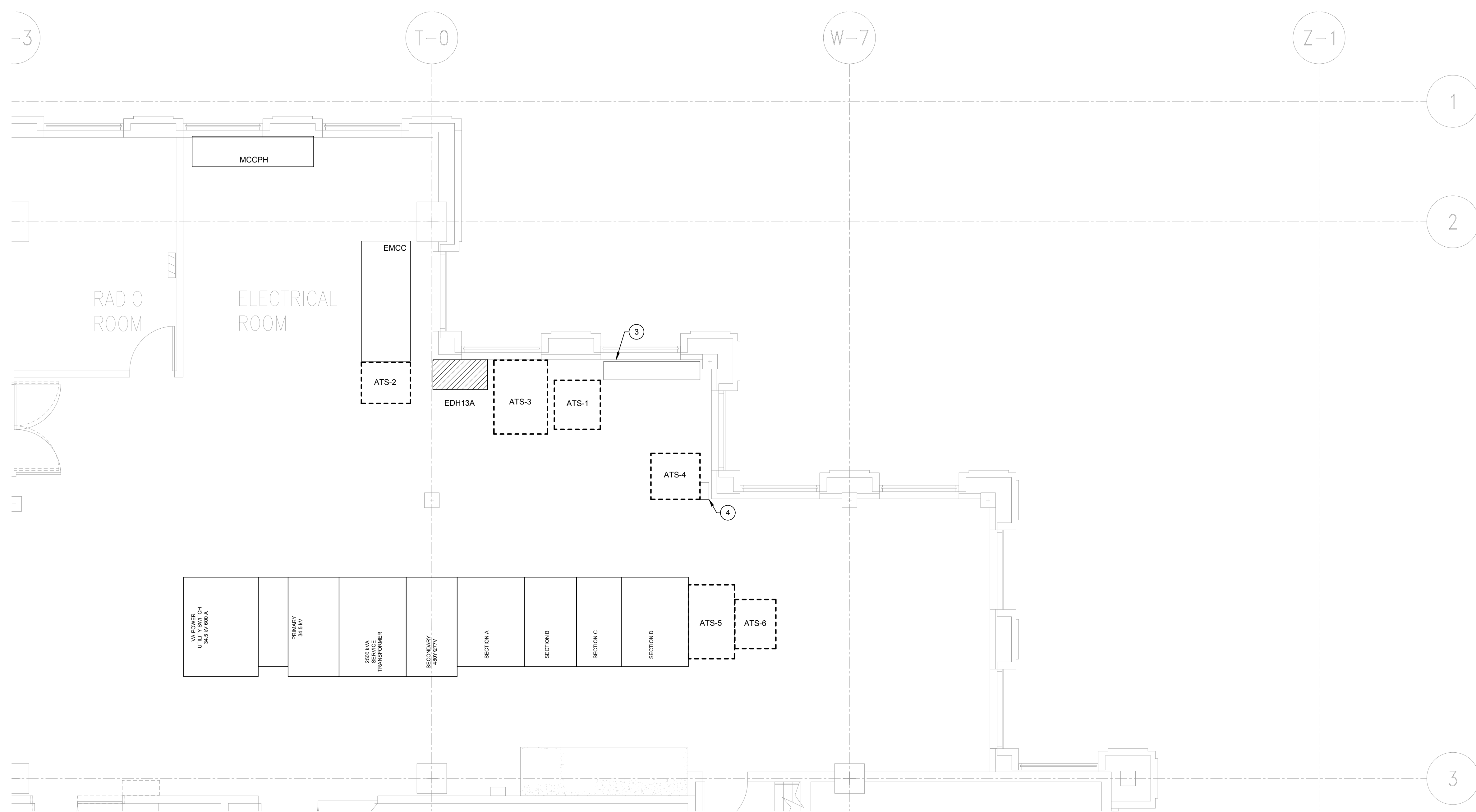


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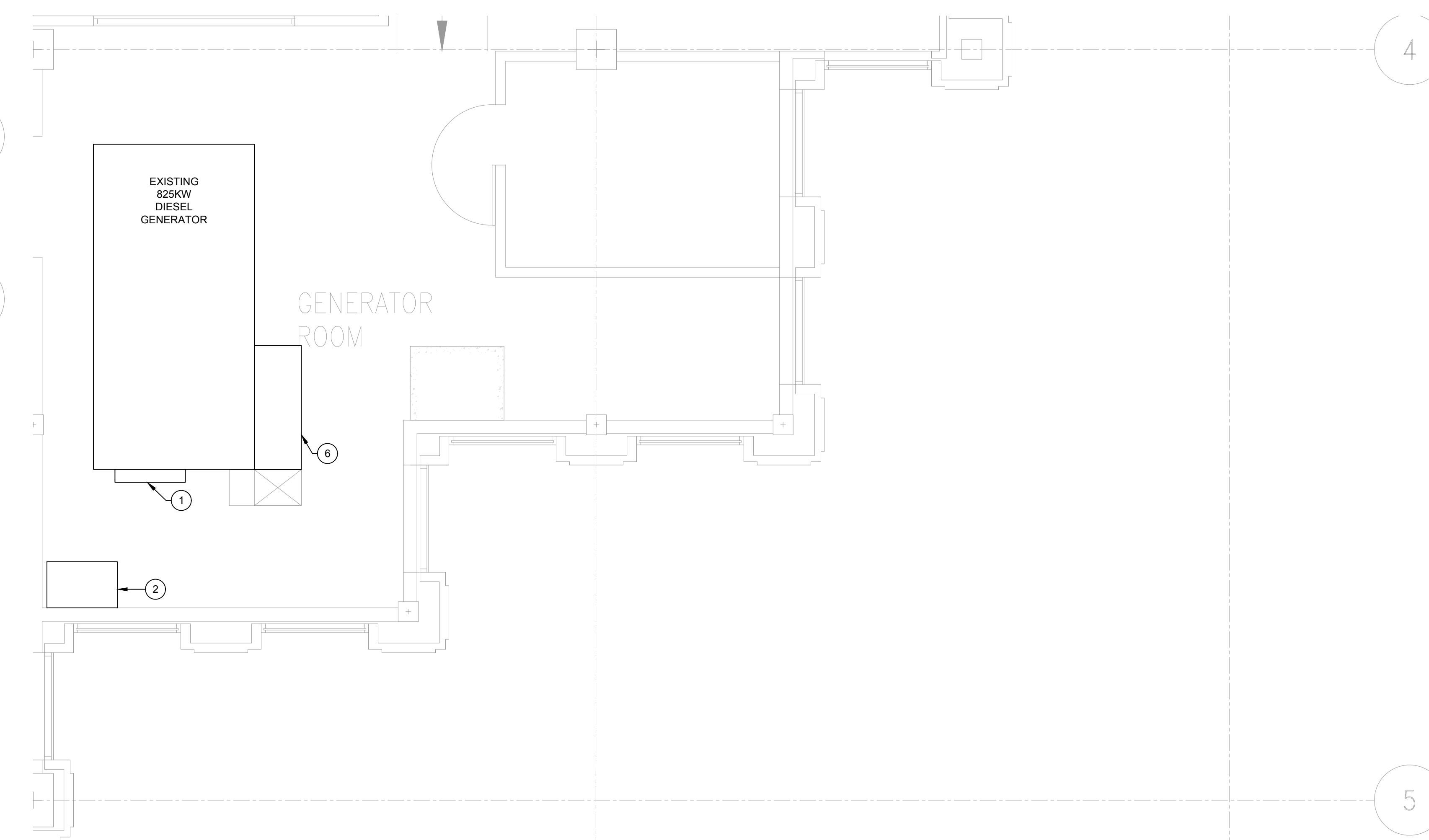




**DEMOLITION PLAN - ELECTRICAL**  
SCALE: 1/8" = 1'-0"



**2 ELECTRICAL ROOM - ENLARGED PLAN**  
SCALE: 1/4" = 1'-0"



**3 GENERATOR ROOM - ENLARGED PLAN**  
SCALE: 1/4" = 1'-0"

**GENERAL NOTES**

1. ELECTRICAL CONTRACTOR SHALL SUBMIT ATS REPLACEMENT SEQUENCE REPORT AS INDICATED ON THE DIV 26 SPECIFICATIONS AND COVERSHEET.
2. REFER TO ONE-LINES ON SHEETS E-500 THROUGH E-504 FOR PROPOSED SEQUENCE OF REPLACEMENT FOR EACH ATS AND ADDITIONAL INFORMATION.
3. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL SHUTDOWNS WITH OWNER PRIOR TO PROCEEDING WITH THE WORK.
4. ELECTRICAL CONTRACTOR SHALL MINIMIZE THE NUMBER AND LENGTH OF SHUTDOWNS TO MINIMIZE NORMAL POWER DOWNTIME.
5. REFER TO COVERSHEET FOR SCHEDULE OF EXISTING ATSs.

**KEY NOTES**

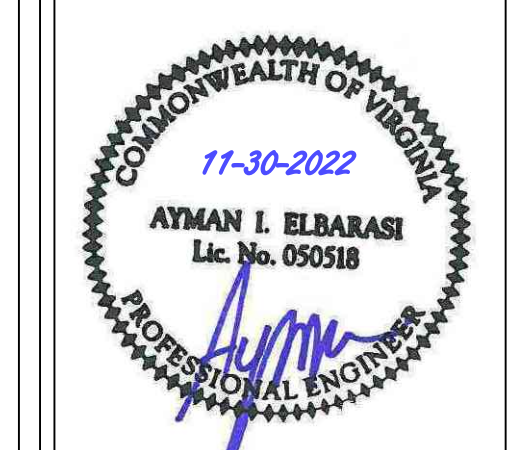
1. EXISTING CATERPILLAR GENERATOR CONTROLLER, BASLER DGC-2020, SERIAL NUMBER EDZ795176. EXISTING CONTROLLER IS EQUIPPED WITH MODBUS COMMUNICATION NETWORK CARDS AND RS485PORT.
2. EXISTING PRYCO 50GALLON GENERATOR DIESEL DAY-TANK, MODEL NUMBER PY50, SERIAL NUMBER 02319857.
3. LIFE-SAFETY WIRE-WAY TO REMAIN.
4. EXISTING ATS-4 LOAD-SIDE PULLBOX TO REMAIN.
5. EXISTING BMS WITH BACNET COMMUNICATION PROTOCOL. VERIFY FINAL LOCATION IN THE FIELD.
6. EXISTING GENERATOR PULL-BOX.
7. TEMPORARILY DISCONNECT EXISTING FEEDER FROM PUMP P-9 SAFETY SWITCH AND REFEED PUMP P-9 FROM PANEL CHP LOCATED IN THE MECHANICAL ROOM. REFER TO ONE-LINE ON SHEET E501 FOR ADDITIONAL INFORMATION.
8. PROVIDE A 480V/30A/3P CIRCUIT BREAKER TO TEMPORARILY FEED PUMP P-9. REFER TO ONE-LINE ON SHEET E501 FOR ADDITIONAL INFORMATION.



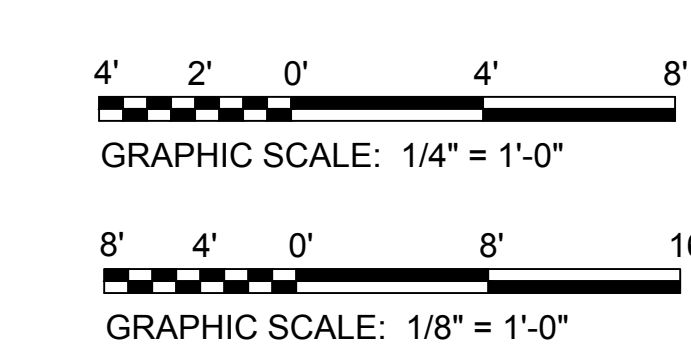
12900 Woodgate Drive  
Suite 100  
Herndon, VA 20170  
(703) 713-0500 Phone  
www.ktagroup.com

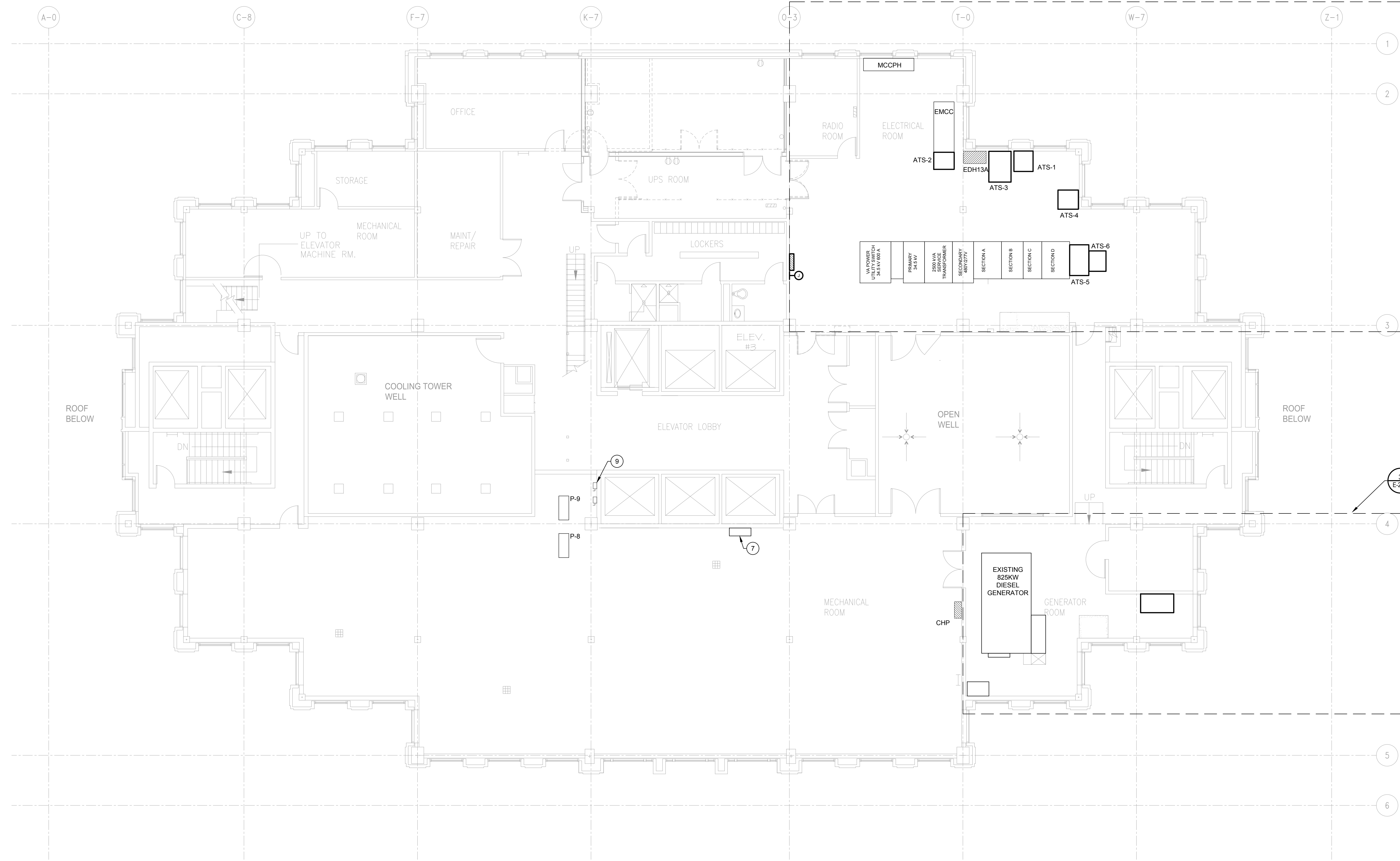
**PROJECT:**  
ARLINGTON COUNTY GENERAL  
DISTRICT COURT ATS REPLACEMENT  
1425 NORTH COURTHOUSE ROAD ARLINGTON VA 22201

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Scale: AS SHOWN  
Drawn: MRR  
Checked: AIE  
Sheet Name:  
DEMOLITION PLAN  
- ELECTRICAL





**NEW WORK PLAN - ELECTRICAL**

SCALE: 1/8" = 1'-0"

**GENERAL NOTES**

1. ELECTRICAL CONTRACTOR SHALL SUBMIT ATS REPLACEMENT SEQUENCE REPORT AS INDICATED ON THE DWG 26 SPECIFICATIONS AND COVERSHEET.
2. REFER TO ONE-LINES ON SHEETS E-200 THROUGH E-204 FOR PROPOSED SEQUENCE OF REPLACEMENT FOR EACH ATS AND ADDITIONAL INFORMATION.
3. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL SHUTDOWNS WITH OWNER PRIOR TO PROCEEDING WITH THE WORK.
4. ELECTRICAL CONTRACTOR SHALL MINIMIZE THE NUMBER AND LENGTH OF SHUTDOWNS TO MINIMIZE NORMAL POWER DOWNTIME.
5. REFER TO COVERSHEET FOR SCHEDULE OF NEW ATS.
6. ELECTRICAL CONTRACTOR SHALL INCLUDE IN BID ALL REQUIRED PROGRAMMING TO THE DAY-TANK, GENERATOR CONTROLLER, AND ATS REMOTE ANNUNCIATOR TO EXISTING (BMS).
7. FOR EACH NEW ATS, PROVIDE A DEDICATED 3/4-INCH CONDUIT AND COMMUNICATION CABLE BETWEEN EACH ATS AND NEW ATS REMOTE ANNUNCIATOR. COORDINATE WITH MANUFACTURER ALL FINAL REQUIREMENTS.
8. COORDINATE LOCATION OF TEMPORARY WAYS IN THE FIELD.

**KEY NOTES**

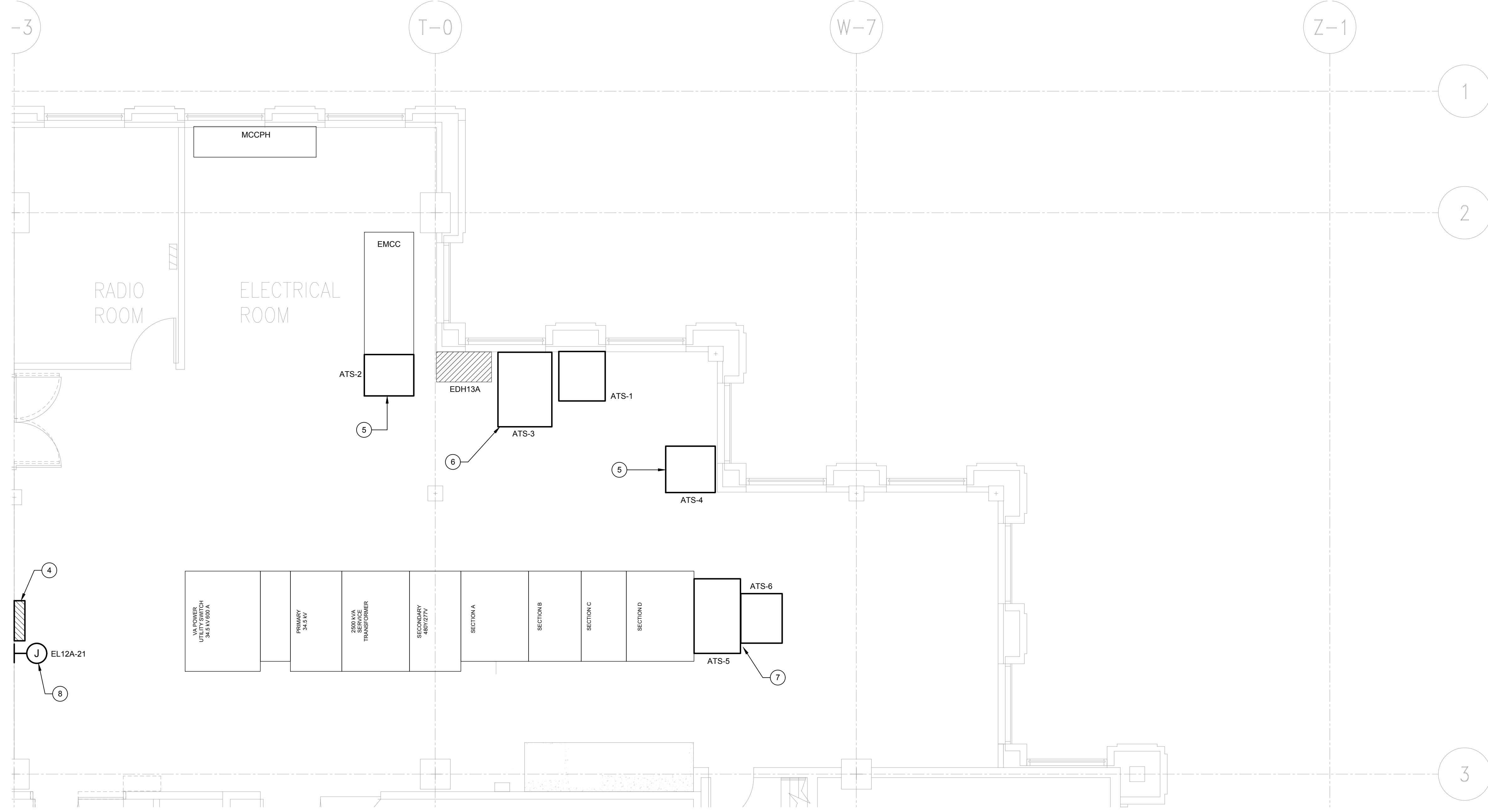
1. FURNISH AND INSTALL A 3/4-INCH CONDUIT AND COMMUNICATION CABLE FROM EXISTING GENERATOR CONTROLLER TO EXISTING BUILDING MANAGEMENT SYSTEM (BMS). PROVIDE A NEW MANUAL FUEL SITE GAUGE WITH A NEW ULTRASONIC LEVEL SENSOR, INFINITY EXISTING FUEL FLOATS AND ADD NEW SET OF DRY CONTACTS FOR ALARMS.
2. FOR EXISTING DAYTANK, REPLACE EXISTING MANUAL FUEL SITE GAUGE WITH A NEW ULTRASONIC LEVEL SENSOR, INFINITY EXISTING FUEL FLOATS AND ADD NEW SET OF DRY CONTACTS FOR ALARMS.
3. FURNISH AND INSTALL A 3/4-INCH CONDUIT AND COMMUNICATION CABLE FROM NEW DAYTANK DRY CONTACTS TO EXISTING BUILDING MANAGEMENT SYSTEM (BMS). PROVIDE A NEW ANALOGUE TO BUCKET CONVERTER ADJACENT TO DAYTANK. COORDINATE WITH EXISTING DAYTANK MANUFACTURER AND OWNER FOR FINAL REQUIREMENTS.
4. NEW ATS REMOTE ANNUNCIATOR WITH BACNET COMMUNICATION PROTOCOL. PROVIDE A 3/4-INCH CONDUIT, OR PER MANUFACTURER RECOMMENDATIONS, AND COMMUNICATION CABLE BETWEEN ATS REMOTE ANNUNCIATOR AND BUILDING MANAGEMENT SYSTEM (BMS). COORDINATE WITH ATS MANUFACTURER AND OWNER FOR FINAL REQUIREMENTS.
5. EXPAND EXISTING 4-INCH CONCRETE PAD AS REQUIRED TO ACCOMMODATE NEW ATS. COORDINATE EXACT REQUIREMENTS PRIOR TO INSTALLATION. CONCRETE PAD SHALL BE PAINTED TO MATCH EXISTING CONDITIONS.
6. EXPAND EXISTING 4-INCH CONCRETE PAD AS REQUIRED TO ACCOMMODATE NEW ATS. COORDINATE EXACT REQUIREMENTS PRIOR TO INSTALLATION. CONCRETE PAD SHALL BE PAINTED TO MATCH EXISTING CONDITIONS.
7. EXPAND EXISTING 12-INCH CONCRETE PAD AS REQUIRED TO ACCOMMODATE NEW ATS. COORDINATE EXACT REQUIREMENTS PRIOR TO INSTALLATION. CONCRETE PAD SHALL BE PAINTED TO MATCH EXISTING CONDITIONS.
8. EXISTING GENERATOR PULL-BOX.
9. EXISTING BUILDING MANAGEMENT SYSTEM (BMS). COORDINATE FINAL LOCATION AND REQUIREMENTS WITH OWNER.
10. JUNCTION BOX FOR NEW ATS REMOTE ANNUNCIATOR. PROVIDE A 120V/20A DEDICATED CIRCUIT FROM LIFE-SAFETY PANEL, EL12A, LOCATED ON LEVEL 12.
11. AFTER THE COMPLETE INSTALLATION OF ATS-2, RECONNECT EXISTING FEEDER TO EXISTING PUMP P-8 SAFETY SWITCH. REFER TO ONE-LINE ON SHEET E201 FOR ADDITIONAL INFORMATION.

**ADD / ALTERNATE 1**

1. RETROFIT EXISTING 'GE ZENITH ZTG' 1600A, 480/277V MTS WITH ADDITIONAL SET OF LUGS AT THE LOAD SIDE TO ALLOW FOR FUTURE LOAD BANK TESTING. EXISTING MTS MODEL NUMBER: 'ZT10000MM116P' AND SERIAL NUMBER: '15032666-740-1'.

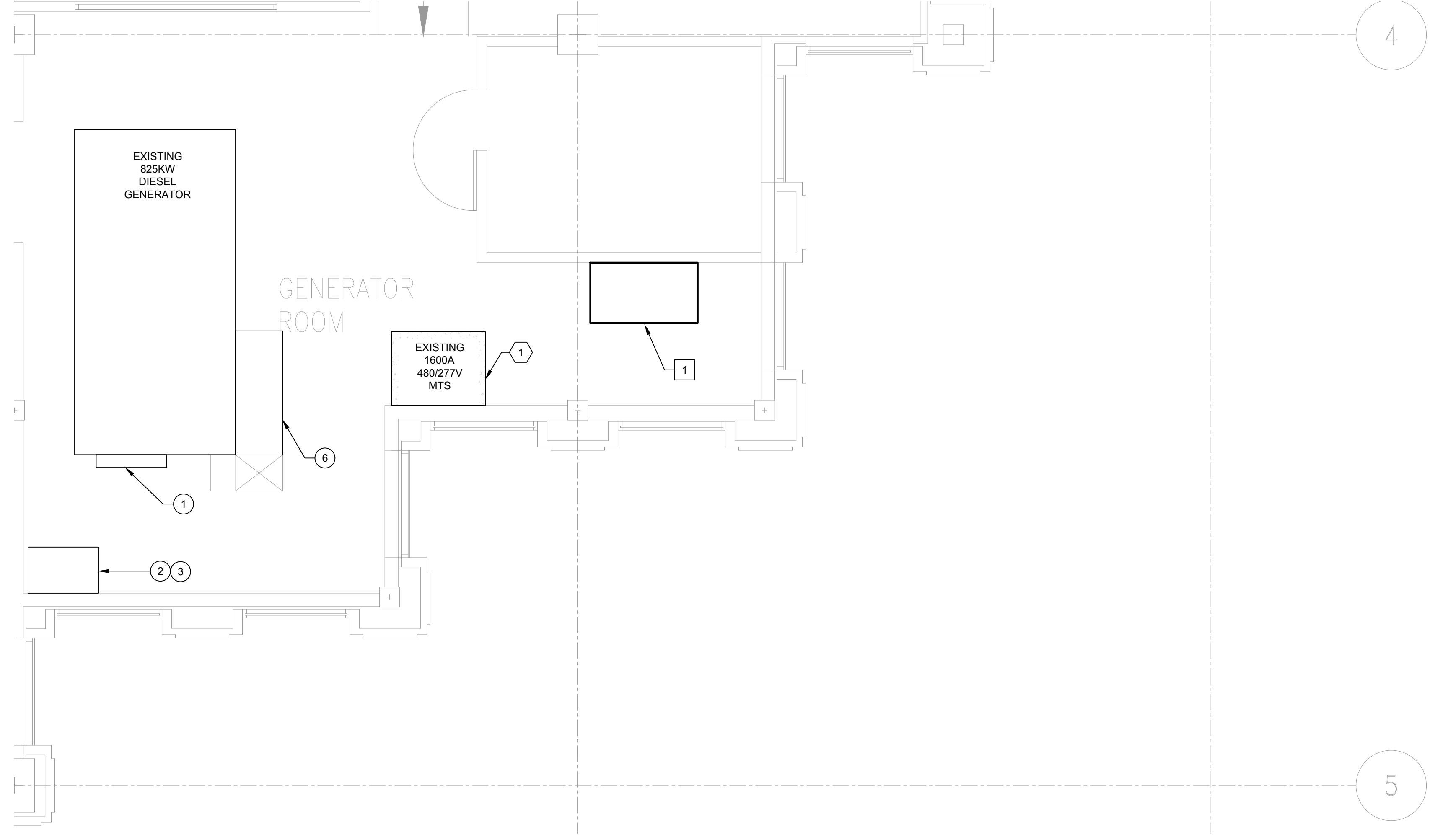
**ADD / ALTERNATE 2**

1. PROVIDE A QUICK CONNECT BOX WITH CAMLOCKS FOR FUTURE LOAD BANK TESTING. CONNECT BOX SHALL BE EQUIPPED WITH TWO (2) 1600A, 480/277V, 3P, 4W, LSI BREAKERS WITH KIRK-KEY INTERLOCK AND COPPER BUSING. REFER TO ONE-LINE ON SHEET E200 FOR ADDITIONAL INFORMATION.



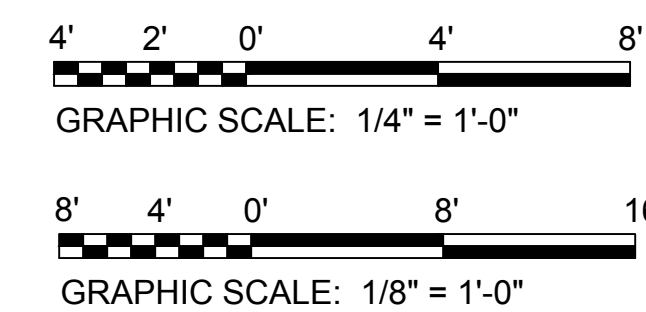
**2 ELECTRICAL ROOM - ENLARGED PLAN**

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



**3 MECHANICAL ROOM - ENLARGED PLAN**

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



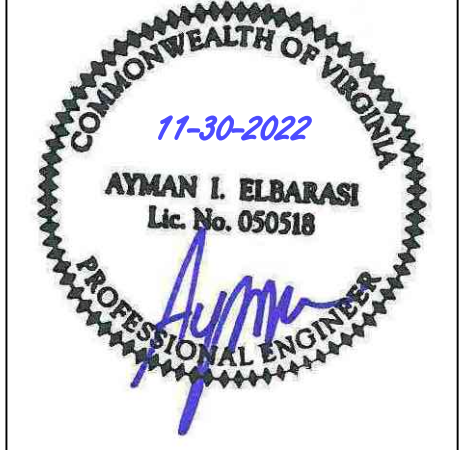
**ARLINGTON**  
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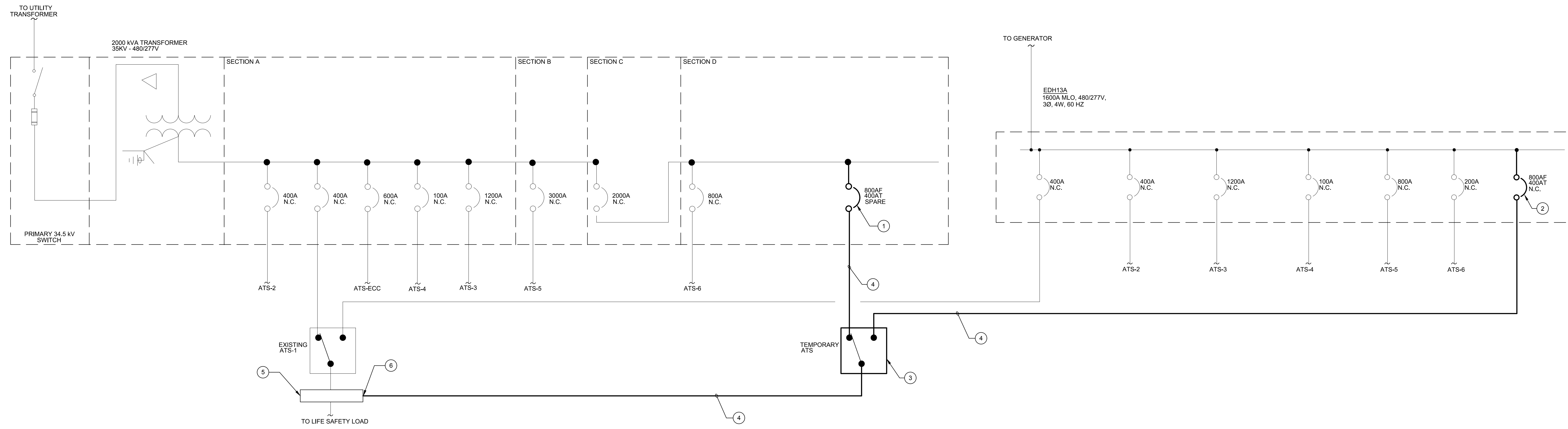
PROJECT:  
**ARLINGTON COUNTY GENERAL DISTRICT COURT ATS REPLACEMENT**  
1425 NORTH COURTHOUSE ROAD ARLINGTON VA 22201

ISSUE	DESCRIPTION	REV#	DATE
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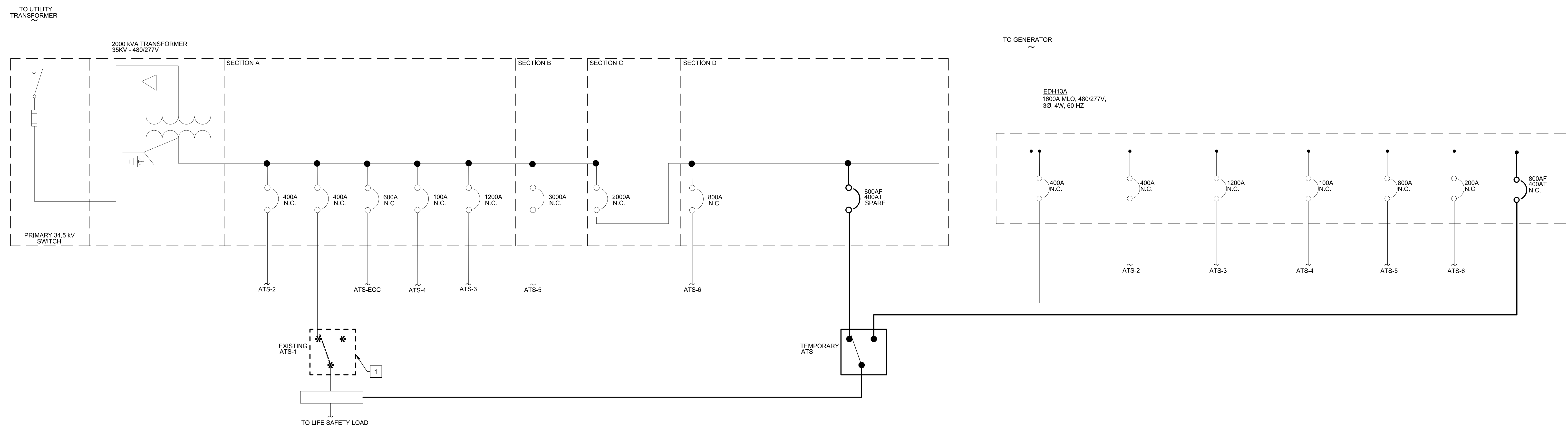
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Sheet Name:  
**NEW WORK PLAN - ELECTRICAL**

**E201**



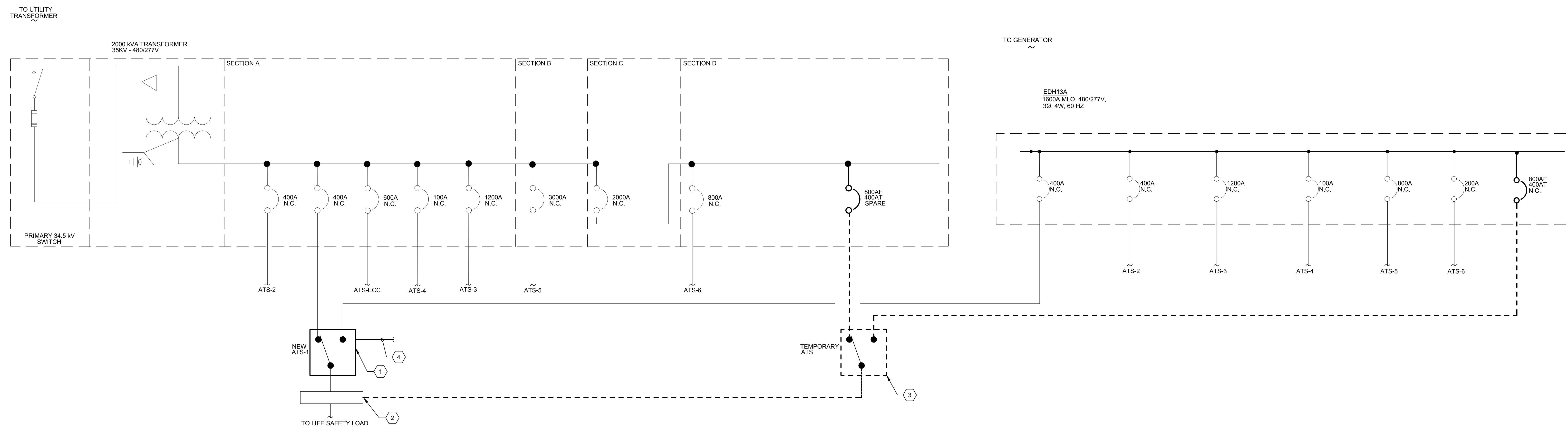
ATS-1 - ONE-LINE DIAGRAM - TEMPORARY WORK

SCALE: NO SCALE



ATS-1 - ONE-LINE DIAGRAM - DEMOLITION WORK

SCALE: NO SCALE



ATS-1 - ONE-LINE DIAGRAM - NEW WORK

SCALE: NO SCALE

**GENERAL NOTES**

- ELECTRICAL CONTRACTOR SHALL SUBMIT ATS REPLACEMENT SEQUENCE REPORT AS INDICATED ON THE DIV 26 SPECIFICATIONS AND COVERSHEET.
- ELECTRICAL CONTRACTOR SHALL COORDINATE ALL SHUTDOWNS WITH OWNER PRIOR TO PROCEEDING WITH THE WORK.
- ELECTRICAL CONTRACTOR SHALL MINIMIZE THE NUMBER AND LENGTH OF SHUTDOWNS TO MINIMIZE NORMAL POWER DOWNTIME.
- REFER TO COVERSHEET FOR SCHEDULE OF EXISTING TO BE REPLACED ATS.
- ELECTRICAL CONTRACTOR SHALL ENSURE POWER IS ONLINE TO LOAD DOWNSTREAM OF ATS DURING THE TEMPORARY PHASE PRIOR TO PROCEEDING WITH THE NEW WORK.

**TEMPORARY WORK KEY NOTES**

- SET TRIP SETTING OF EXISTING 800A/SP CIRCUIT BREAKER TO 400A.
- INSTALL A TEMPORARY 800A/SP CIRCUIT BREAKER AT PANEL EDH13A AND SET THE TRIP SETTING TO 400A. CIRCUIT BREAKER SHALL MATCH AIC RATING OF PANEL.
- INSTALL A TEMPORARY 800A, 480/277V, 4P OPEN TRANSITION AUTOMATIC TRANSFER SWITCH. COORDINATE TEMPORARY LOCATION IN THE FIELD.
- INSTALL TEMPORARY CABLES TO POWER NORMAL, EMERGENCY AND LOAD SIDES OF TEMPORARY ATS. PROVIDE 4-#500CMCL, 1-#3 AWG GROUND, COPPER CABLES. CABLES SHALL BE TYPE DLO, SE, OR APPROVED EQUAL.
- EXISTING LIFE-SAFETY SYSTEM WIRE-WAY.
- SPlice TEMPORARY CABLES FROM LOAD SIDE OF TEMPORARY ATS TO EXISTING LOAD SIDE CABLES OF EXISTING ATS-1 AT WIREWAY. CONFIRM ATS-1 SHUTDOWN PRIOR TO PROCEEDING WITH THE SPlicing OF CABLES.

**DEMOLITION WORK KEY NOTES**

- DEMOLISH EXISTING ATS-1. MAINTAIN EXISTING NORMAL, EMERGENCY LOAD SIDE, AND ENGINE START CIRCUIT CABLES TO CONNECT TO NEW ATS.

**NEW WORK KEY NOTES**

- INSTALL NEW ATS IN PLACE OF ATS-1. RECONNECT EXISTING NORMAL, EMERGENCY, LOAD, AND ENGINE STARTUP, CABLES TO NEW ATS. EXTEND CABLES AS REQUIRED WITH SIZES AND TYPE THAT MATCH EXISTING CONDITIONS. EXTEND EXISTING CONCRETE PADS AS REQUIRED. REFER TO COVERSHEET FOR ATS RATING AND ADDITIONAL INFORMATION.
- DISCONNECT TEMPORARY LOAD CABLES FROM EXISTING LIFE-SAFETY WIREWAY AND RECONNECT EXISTING LOAD CABLES FROM EXISTING ATS-1. MAINTAIN TEMPORARY LOAD CABLES TO BE USED IN THE REPLACEMENT OF ATS-2.
- DISCONNECT AND MAINTAIN TEMPORARY ATS, INCLUDING NORMAL AND EMERGENCY FEEDERS TO BE USED IN THE REPLACEMENT OF ATS-2.
- PROVIDE A DEDICATED ETHERNET CABLE IN A 3/4" CONDUIT FOR REMOTE MONITORING. TERMINATE CONDUIT AT NEW ATS REMOTE ANNUNCIATOR PANEL. COORDINATE LOCATION AND FINAL ROUTING IN THE FIELD. CONFIRM FINAL REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.

**ATS REPLACEMENT SEQUENCE**

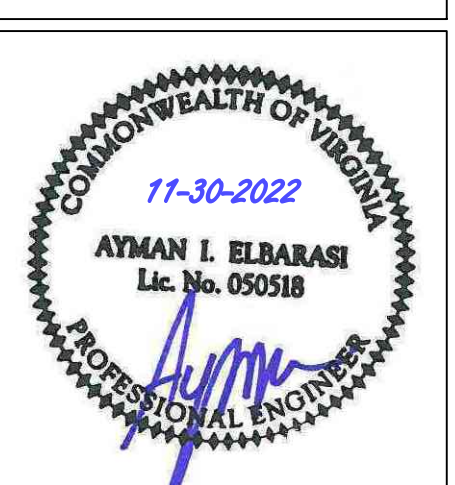
- ATS-1
- ATS-2
- ATS-3
- ATS-5
- ATS-6
- ATS-4



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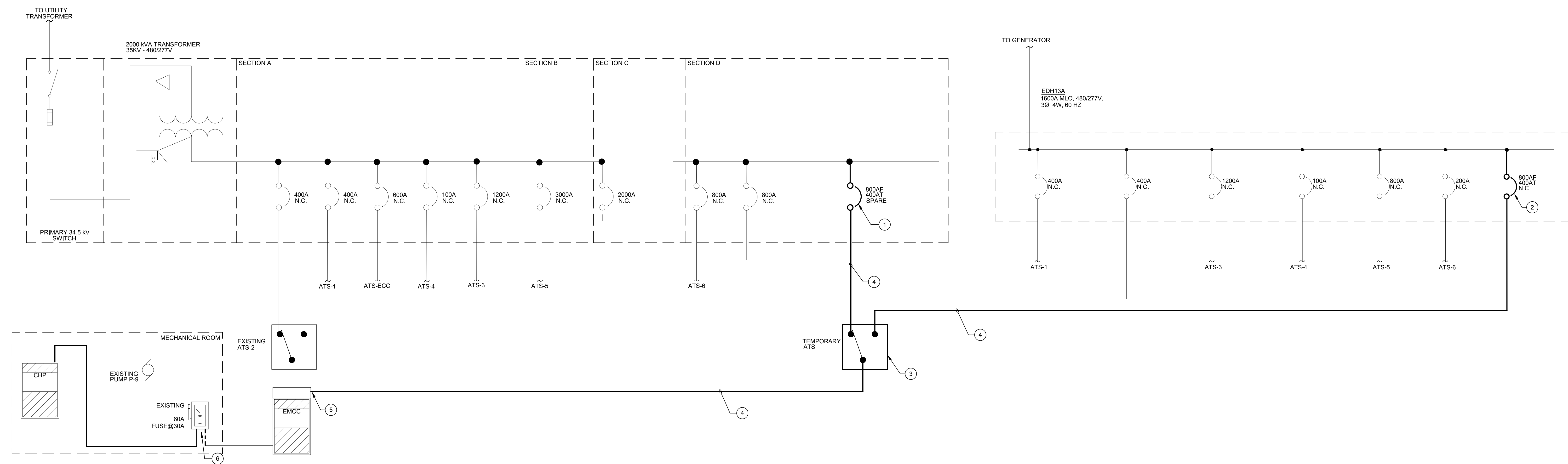
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100% CONSTRUCTION DOCUMENTS			5/31/21
PERMIT SET			7/09/21
ISSUE FOR BID			9/30/22



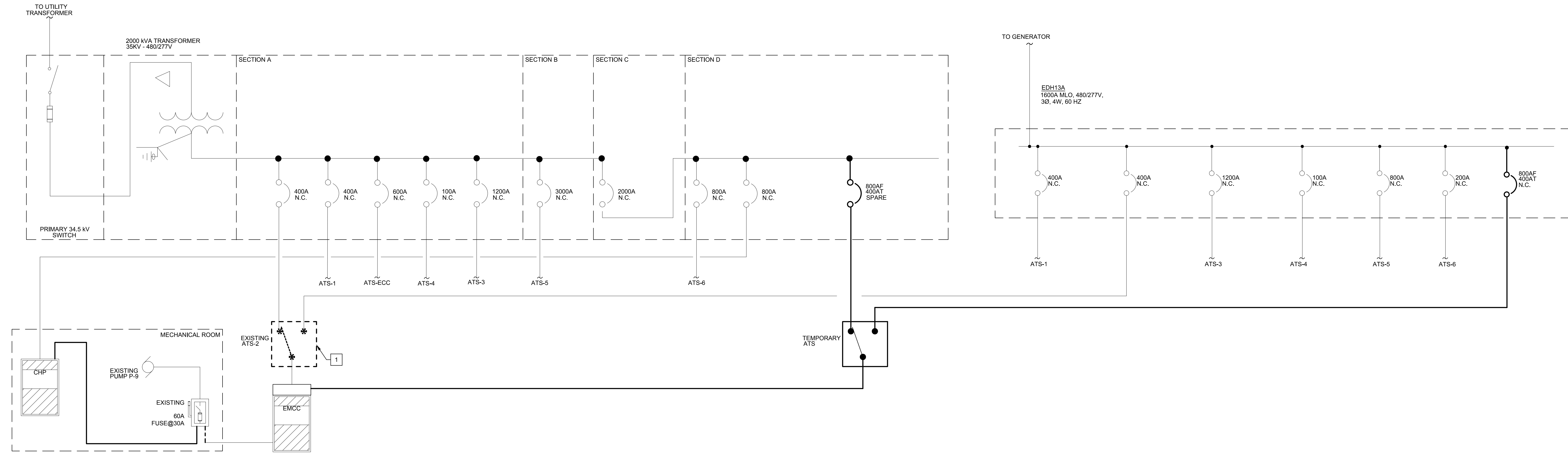
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ATS-1 ONE-LINE DIAGRAMS - ELECTRICAL

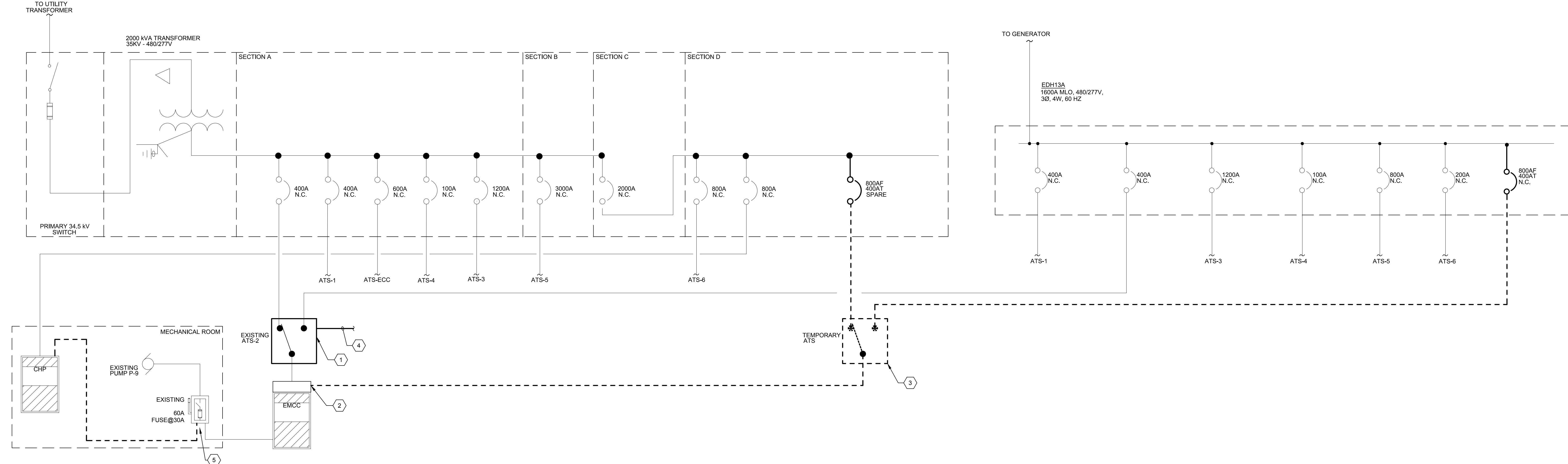
E500



ATS-2 - ONE-LINE DIAGRAM - TEMPORARY WORK  
SCALE: NO SCALE



ATS-2 - ONE-LINE DIAGRAM - DEMOLITION WORK  
SCALE: NO SCALE



ATS-2 - ONE-LINE DIAGRAM - NEW WORK  
SCALE: NO SCALE

**GENERAL NOTES**

- ELECTRICAL CONTRACTOR SHALL SUBMIT ATS REPLACEMENT SEQUENCE REPORT AS INDICATED ON THE DIV 26 SPECIFICATIONS AND COVERSHEET.
- ELECTRICAL CONTRACTOR SHALL COORDINATE ALL SHUTDOWNS WITH OWNER PRIOR TO PROCEEDING WITH THE WORK.
- ELECTRICAL CONTRACTOR SHALL MINIMIZE THE NUMBER AND LENGTH OF SHUTDOWNS TO MINIMIZE NORMAL POWER DOWNTIME.
- REFER TO COVERSHEET FOR SCHEDULE OF EXISTING TO BE REPLACED ATS.
- ELECTRICAL CONTRACTOR SHALL ENSURE POWER IS ONLINE TO LOAD DOWNSTREAM OF ATS DURING THE TEMPORARY PHASE PRIOR TO PROCEEDING WITH THE NEW WORK.

**TEMPORARY WORK KEY NOTES**

- NOTE: NOTES BELOW ARE FOR REFERENCE ONLY. ELECTRICAL CONTRACTOR SHALL REUSE TEMPORARY ATS USED FOR THE REPLACEMENT OF ATS-1 TO COMPLETE THE REPLACEMENT OF ATS-2. REFER TO SHEET E500.
- SET TRIP SETTING OF EXISTING 800A/SP SPARE CIRCUIT BREAKER TO 400A.
  - REUSE 800AF/800AT CIRCUIT BREAKER INSTALLED AS PART OF ATS-1 REPLACEMENT FOR THE REPLACEMENT OF ATS-2. MAINTAIN TRIP SETTING AT 400A.
  - INSTALL A TEMPORARY 800A, 480/277V, 4P OPEN TRANSITION AUTOMATIC TRANSFER SWITCH. COORDINATE TEMPORARY LOCATION IN THE FIELD.
  - INSTALL TEMPORARY CABLES TO POWER NORMAL, EMERGENCY AND LOAD SIDES OF TEMPORARY ATS. PROVIDE #4-8500CMIL, 1#3 AWG GROUND COPPER CABLES. TEMPORARY CABLES SHALL BE TYPE DLO, SE, OR APPROVED EQUAL.
  - SPlice TEMPORARY CABLES FROM LOAD SIDE OF TEMPORARY ATS TO EXISTING LOAD SIDE CABLES OF EXISTING ATS-2 AT MOTOR CONTROL CENTER EMCC. CONFIRM ATS-2 SHUTDOWN PRIOR TO PROCEEDING WITH THE SPLICING OF CABLES.
  - PROVIDE A TEMPORARY CIRCUIT TO POWER PUMP P-9 PRIOR TO PROCEEDING WITH THE INSTALLATION OF TEMPORARY ATS. PUMP P-9 SHALL BE OPERATIONAL PRIOR TO DISCONNECTING ATS-2. PROVIDE TEMPORARY CABLE (Ø#10AWG, 1#10 GND) AND 480V/3Ø/3PH CIRCUIT BREAKER AT PANEL CHP. TEMPORARY CABLES SHALL BE TYPE DLO, SE, OR APPROVED EQUAL. MAINTAIN EXISTING CIRCUIT TO BE RECONNECTED AFTER THE INSTALLATION OF THE NEW ATS-2.

**DEMOLITION WORK KEY NOTES**

- DEMOLISH EXISTING ATS-2. MAINTAIN EXISTING NORMAL, EMERGENCY LOAD SIDE, AND ENGINE STARTUP CIRCUIT CABLES TO CONNECT TO NEW ATS.

**NEW WORK KEY NOTES**

- INSTALL NEW ATS IN PLACE OF ATS-2. RECONNECT EXISTING NORMAL, EMERGENCY, LOAD, AND ENGINE STARTUP CABLES TO NEW ATS. EXTEND CABLES AS REQUIRED WITH SIZES AND TYPE THAT MATCH EXISTING CONDITIONS. EXTEND EXISTING CONCRETE PAD AS REQUIRED. REFER TO COVERSHEET FOR ATS RATING AND ADDITIONAL INFORMATION.
- DISCONNECT TEMPORARY LOAD CABLES FROM EXISTING MOTOR CONTROL CENTER EMCC AND RECONNECT EXISTING LOAD CABLES FROM EXISTING ATS-2.
- DISCONNECT AND MAINTAIN TEMPORARY ATS TO BE USED IN THE REPLACEMENT OF ATS-2, ATS-6 AND ATS-4. REFER TO SHEETS E500, E503 AND E504 FOR ADDITIONAL INFORMATION.
- PROVIDE A DEDICATED ETHERNET CABLE IN A 3/4" CONDUIT FOR REMOTE MONITORING. TERMINATE CONDUIT AT NEW ATS REMOTE ANNUNCIATOR PANEL. COORDINATE LOCATION AND FINAL ROUTING IN THE FIELD. CONFIRM FINAL REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.
- AFTER THE INSTALLATION OF NEW ATS-2, DISCONNECT TEMPORARY CIRCUIT CABLE AND RECONNECT EXISTING CIRCUIT FEEDER FOR PUMP P-9. RE-LABEL FREE TEMPORARY CIRCUIT BREAKER AS SPARE AT PANEL CHP.

**ATS REPLACEMENT SEQUENCE**

- ATS-1
- ATS-2
- ATS-3
- ATS-5
- ATS-6
- ATS-4

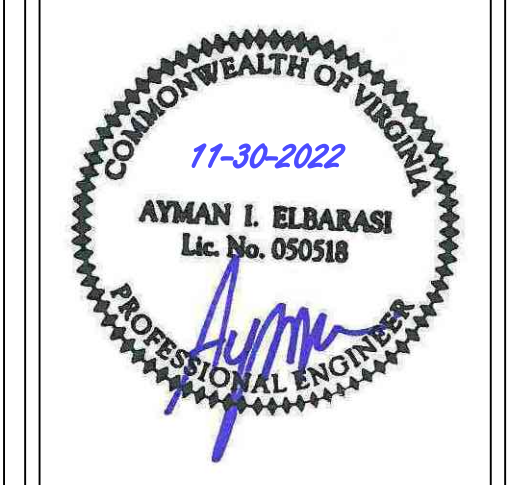
**ARLINGTON**  
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Arlington, VA 22201

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1425 NORTH COURTHOUSE ROAD ARLINGTON VA 22201

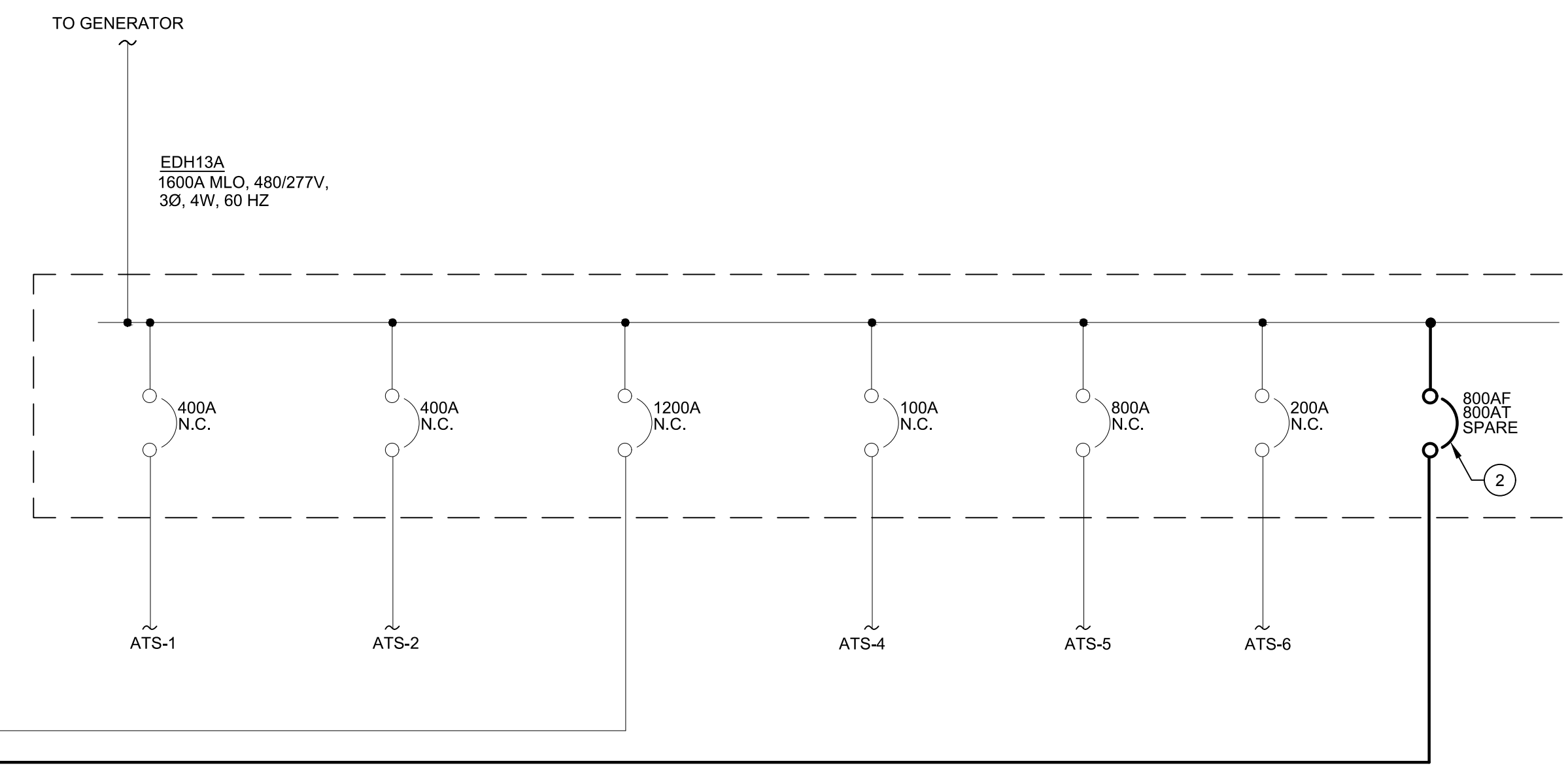
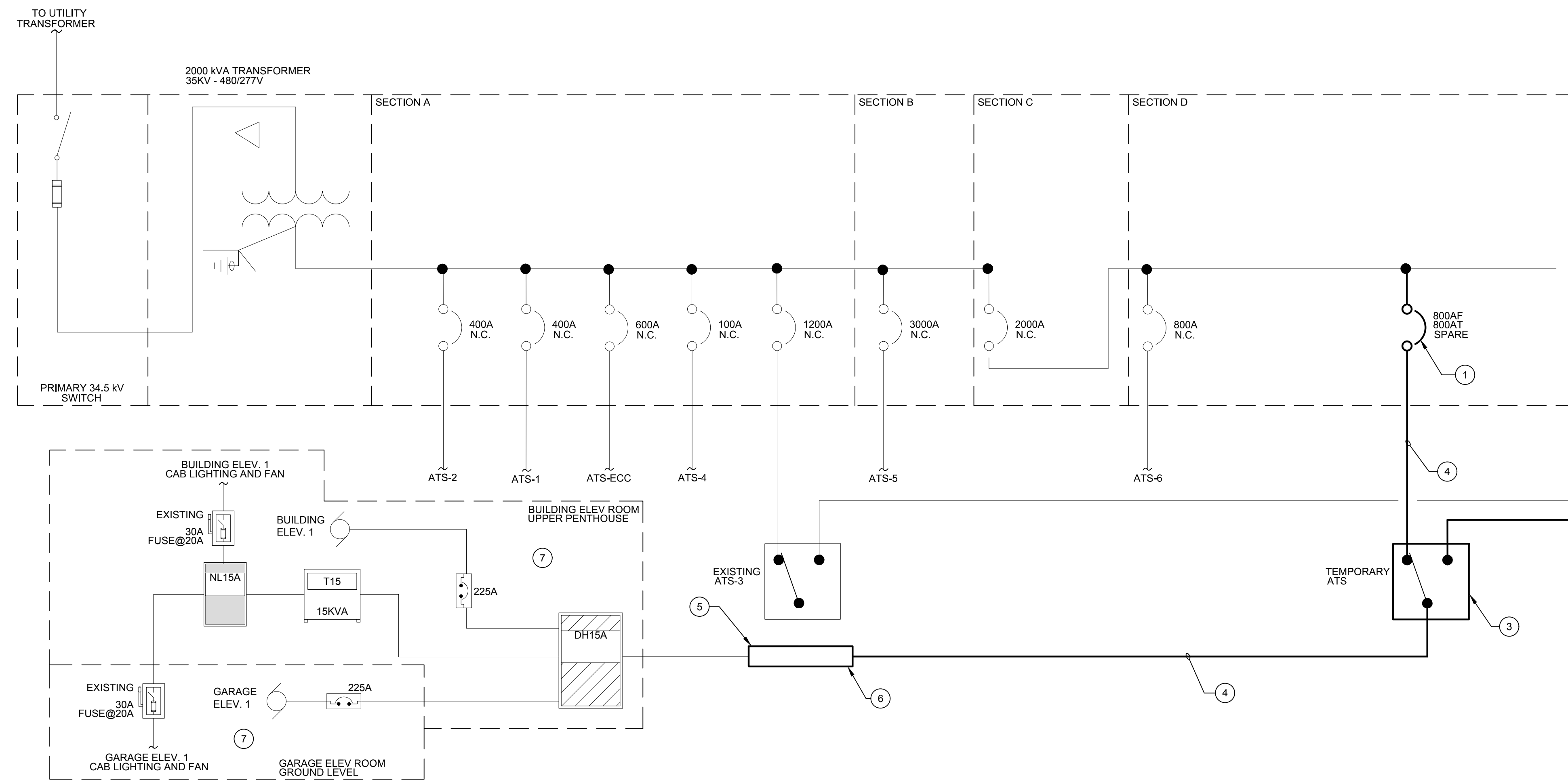
ISSUE	DESCRIPTION	REV#	DATE
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100% CONSTRUCTION DOCUMENTS			5/31/21
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Scale: NONE  
Drawn: MRR  
Checked: ABE

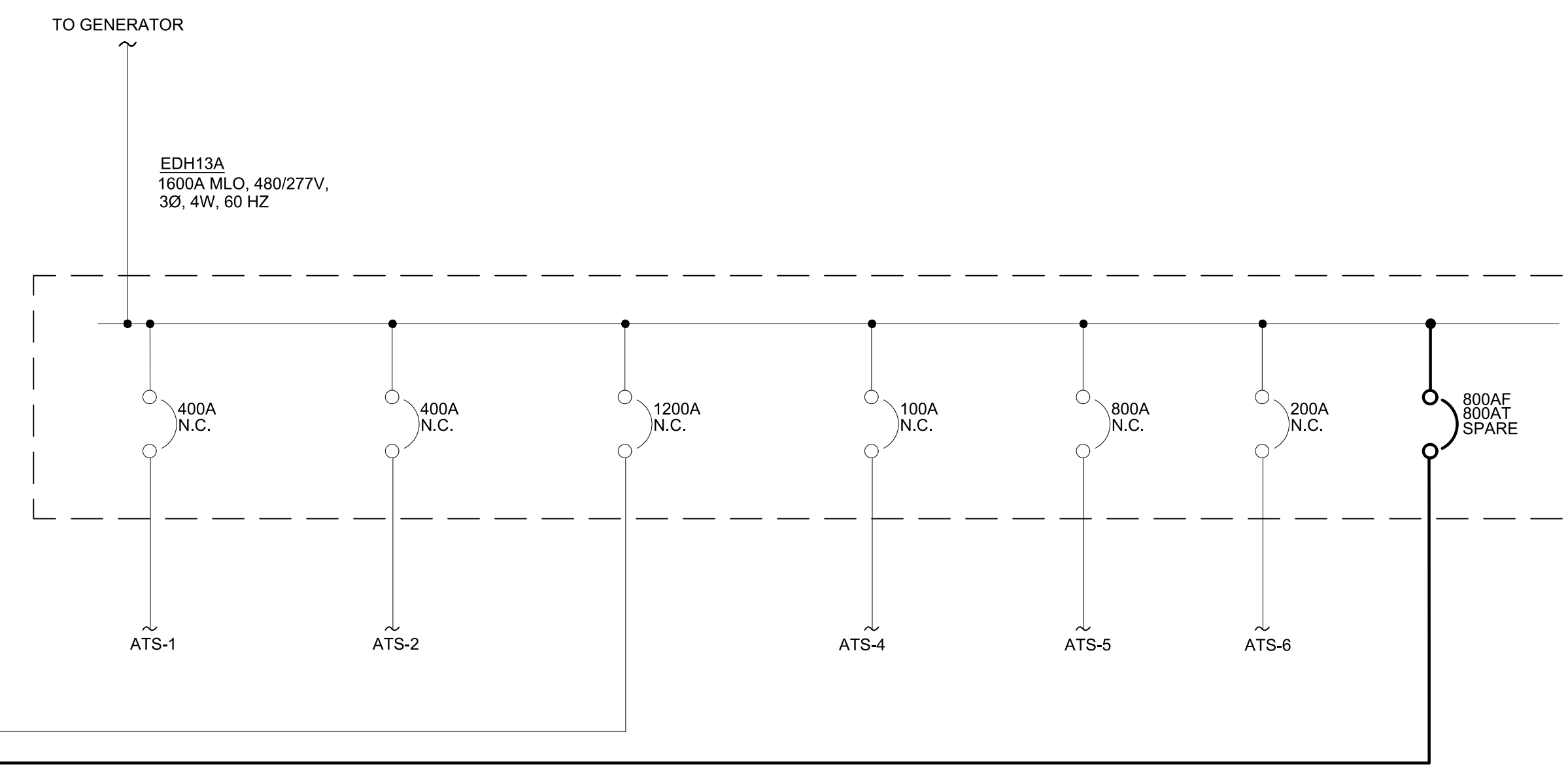
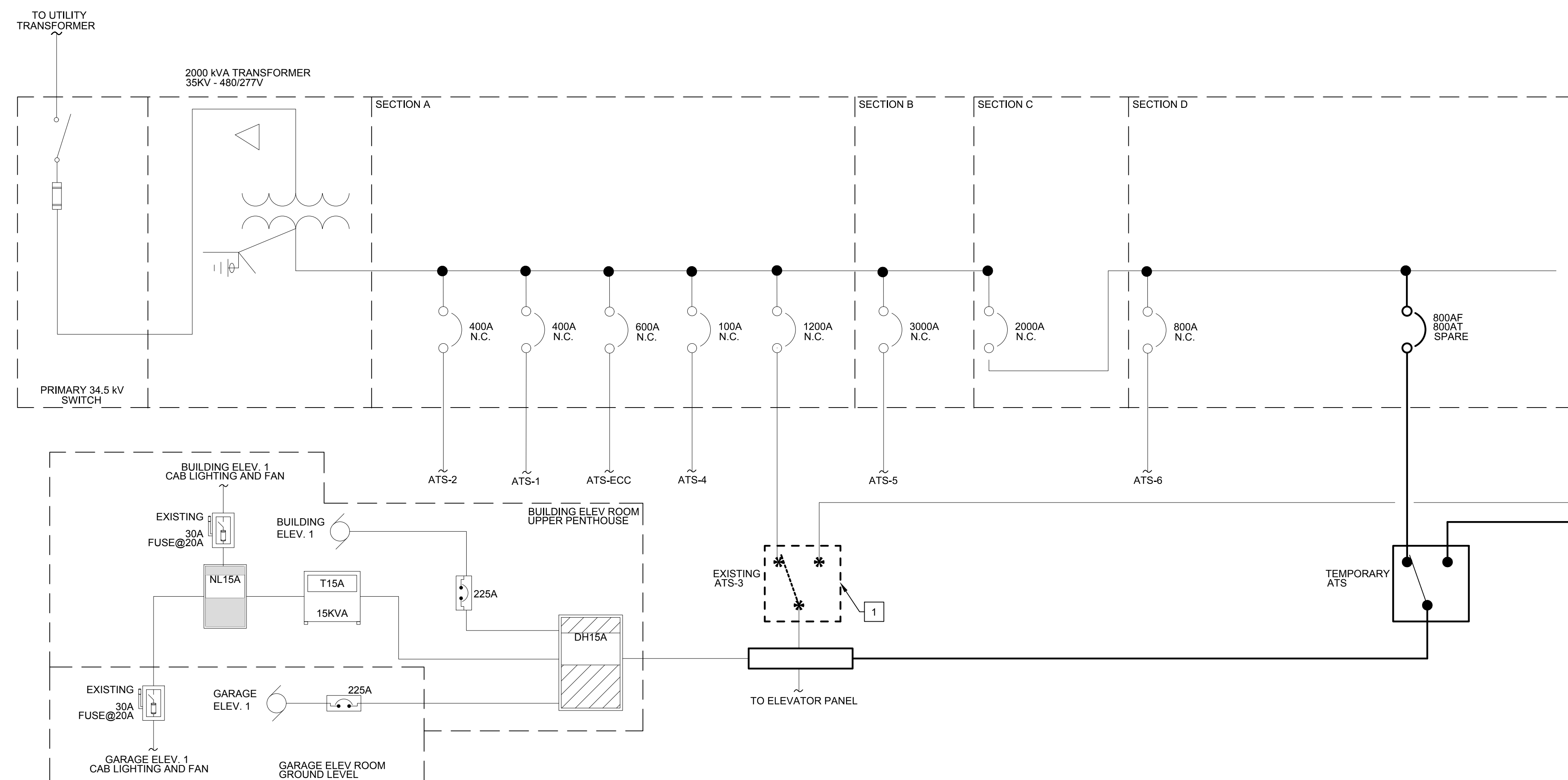
Sheet Name:  
**ATS-2 ONE-LINE DIAGRAMS - ELECTRICAL**

**E501**



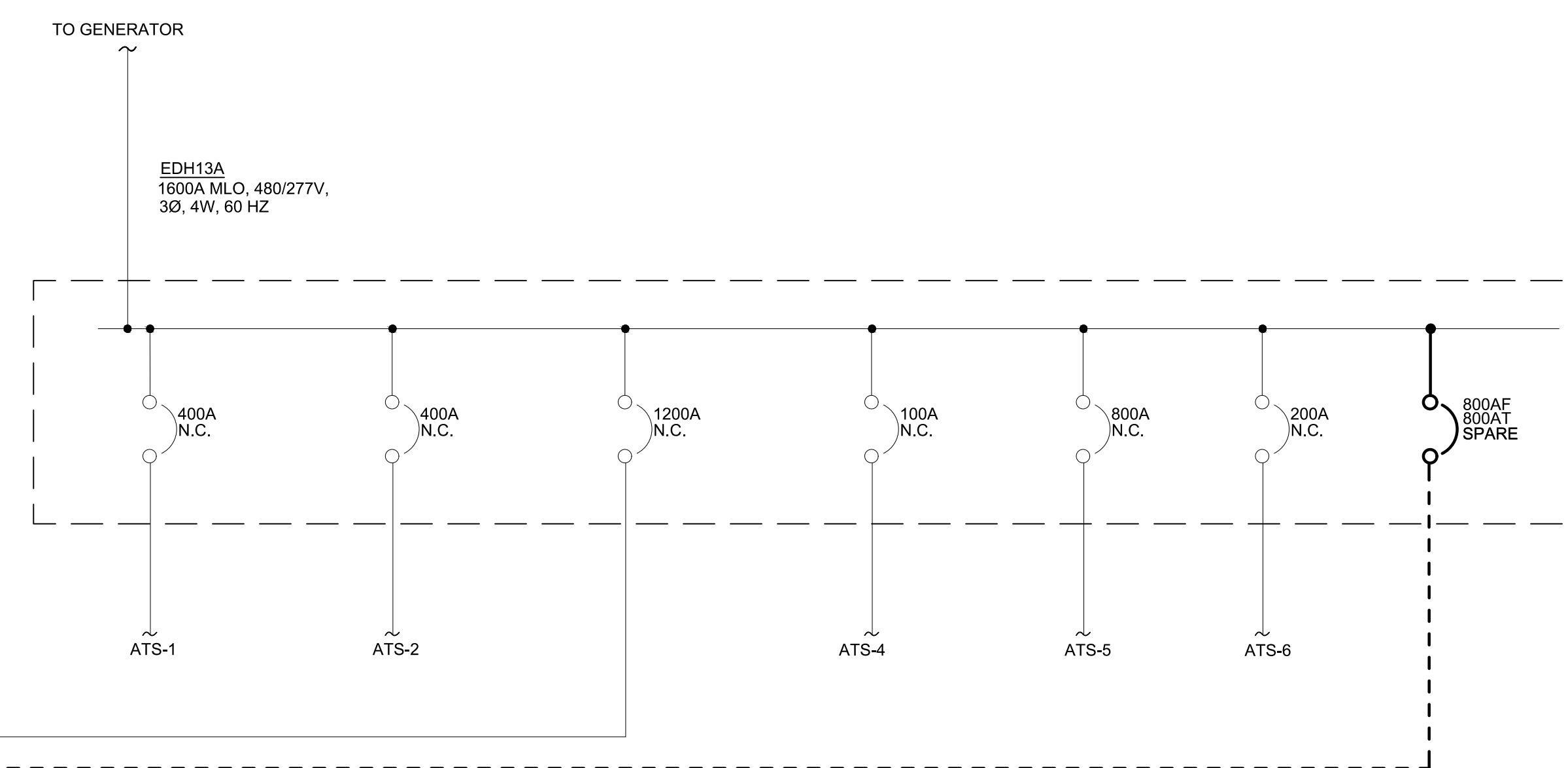
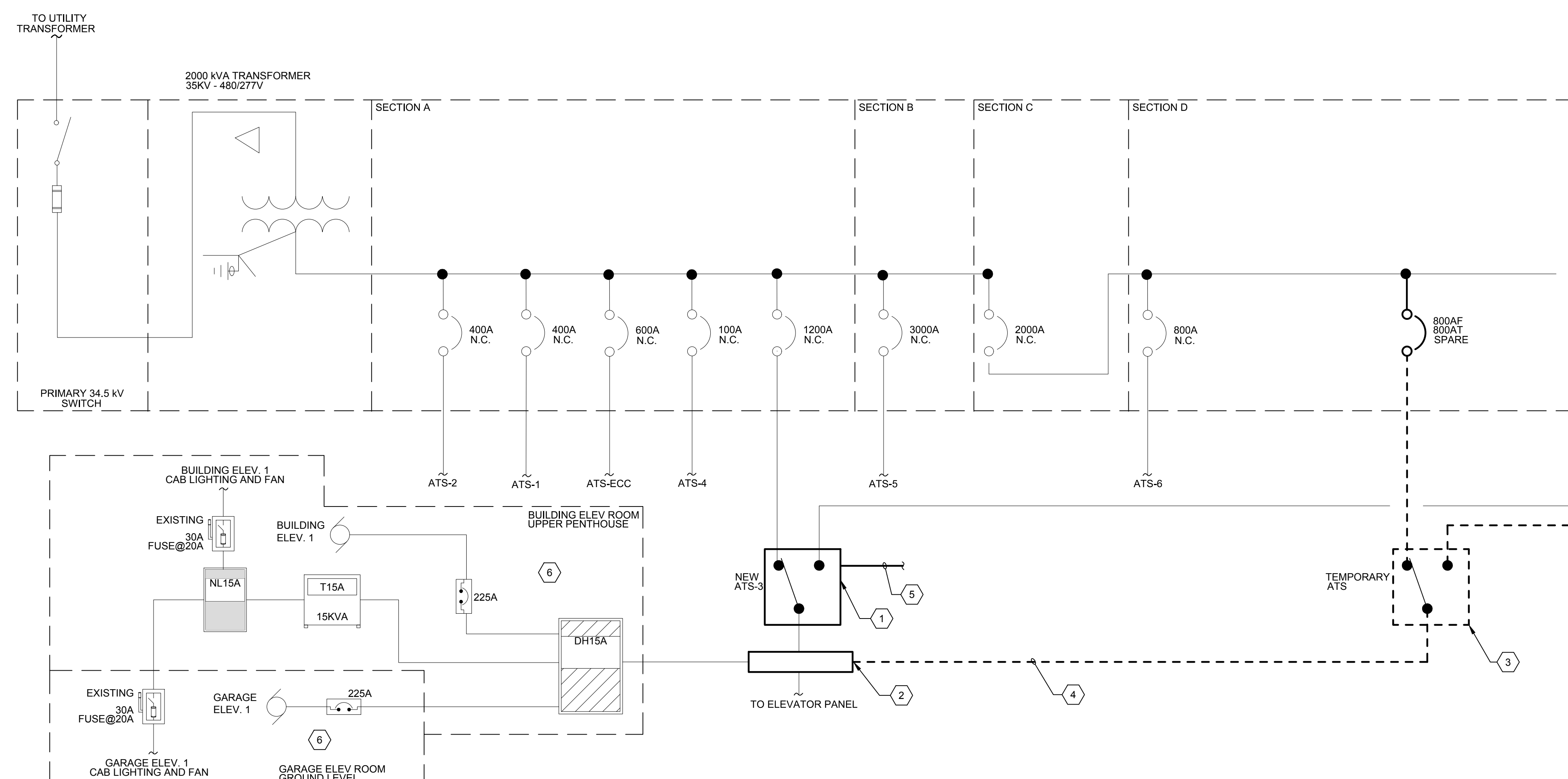
ATS-3 - ONE-LINE DIAGRAM - TEMPORARY WORK

SCALE: NO SCALE



ATS-3 - ONE-LINE DIAGRAM - DEMOLITION WORK

SCALE: NO SCALE



ATS-3 - ONE-LINE DIAGRAM - NEW WORK

SCALE: NO SCALE

GENERAL NOTES

- ELECTRICAL CONTRACTOR SHALL SUBMIT ATS REPLACEMENT SEQUENCE REPORT AS INDICATED ON THE DIV 26 SPECIFICATIONS AND COVERSHEET.
- ELECTRICAL CONTRACTOR SHALL COORDINATE ALL SHUTDOWNS WITH OWNER PRIOR TO PROCEEDING WITH THE WORK.
- ELECTRICAL CONTRACTOR SHALL MINIMIZE THE NUMBER AND LENGTH OF SHUTDOWNS TO MINIMIZE NORMAL POWER DOWNTIME.
- REFER TO COVERSHEET FOR SCHEDULE OF EXISTING TO BE REPLACED ATS.
- ELECTRICAL CONTRACTOR SHALL ENSURE POWER IS ONLINE TO LOAD DOWNSTREAM OF ATS DURING THE TEMPORARY PHASE PRIOR TO PROCEEDING WITH THE NEW WORK.

TEMPORARY WORK KEY NOTES

NOTES BELOW ARE FOR REFERENCE ONLY. ELECTRICAL CONTRACTOR SHALL REUSE TEMPORARY ATS USED FOR THE REPLACEMENT OF ATS-1 AND ATS-2 TO COMPLETE THE REPLACEMENT OF ATS-3. REFER TO SHEET E500-E501 FOR ADDITIONAL INFORMATION.

- SET TRIP SETTING OF EXISTING 800A/SP SPARE CIRCUIT BREAKER TO 800A.
- REUSE 800A/400A/AT CIRCUIT BREAKER INSTALLED AS PART OF ATS-1 AND ATS-2 REPLACEMENT FOR THE REPLACEMENT OF ATS-3. SET TRIP SETTING TO 800A.
- INSTALL A TEMPORARY 800A, 480/277V, 4P OPEN TRANSITION AUTOMATIC TRANSFER SWITCH. COORDINATE TEMPORARY LOCATION IN THE FIELD.
- INSTALL TEMPORARY CABLES TO POWER NORMAL, EMERGENCY AND LOAD SIDES OF TEMPORARY ATS. PROVIDE 3 SETS OF 4#500KCMIL, 1-430 AWG GROUND COPPER CABLES. TEMPORARY CABLES SHALL BE TYPE DLO, SE, OR APPROVED EQUAL.
- INSTALL A NEW PULL-BOX ABOVE EXISTING ATS-3. PULL-BOX SHALL BE SIZED PER NEC.
- SPLICE TEMPORARY CABLES FROM LOAD SIDE OF TEMPORARY ATS TO EXISTING LOAD SIDE CABLES OF EXISTING ATS-3 AT NEW PULL-BOX. CONFIRM ATS-3 SHUTDOWN PRIOR TO PROCEEDING WITH THE SPlicing OF CABLES.
- ELECTRICAL CONTRACTOR SHALL MAINTAIN NO MORE THAN ONE BUILDING ELEVATOR, ONE GARAGE ELEVATOR, AND T15 TRANSFORMER AND ASSOCIATED DOWNSTREAM DISTRIBUTION PANEL OPERATIONAL DURING THE REPLACEMENT PROCESS. COORDINATE WITH OWNER THE TWO ELEVATORS THAT WILL REMAIN OPERATIONAL.

DEMOLITION WORK KEY NOTES

- DEMOLISH EXISTING ATS-3. MAINTAIN EXISTING NORMAL, EMERGENCY, LOAD SIDE, AND ENGINE START CIRCUIT CABLES TO CONNECT TO NEW ATS.

NEW WORK KEY NOTES

- INSTALL NEW ATS IN PLACE OF ATS-3. RECONNECT EXISTING NORMAL, EMERGENCY, LOAD, AND ENGINE STARTUP CABLES TO NEW ATS. EXTEND CABLES AS REQUIRED WITH SIZES AND TYPE THAT MATCH EXISTING CONDITIONS. EXTEND EXISTING CONCRETE PAD AS REQUIRED. REFER TO COVERSHEET FOR ATS RATING AND ADDITIONAL INFORMATION.
- DISCONNECT TEMPORARY CABLES FROM NEW PULL-BOX AND RECONNECT EXISTING LOAD CABLES FROM EXISTING ATS-3.
- DISCONNECT AND MAINTAIN TEMPORARY ATS TO BE USED IN THE REPLACEMENT OF ATS-4, ATS-5 AND ATS-6. REFER TO SHEETS E503, E504 AND E505 FOR ADDITIONAL INFORMATION.
- DEMOLISH TEMPORARY CABLES ALL THE WAY BACK TO TEMPORARY CIRCUIT BREAKER. LABEL FREE CIRCUIT BREAKER AS SPARE.
- PROVIDE A DEDICATED ETHERNET CABLE IN A 3" CONDUIT FOR REMOTE MONITORING. TERMINATE CONDUIT AT NEW ATS REMOTE ANNUNCIATOR PANEL. COORDINATE LOCATION AND FINAL ROUTING IN THE FIELD. CONFIRM FINAL REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.
- RE-ENERGIZE ALL ELEVATORS, BUILDING AND GARAGE, AND CONFIRM THEIR OPERATION.

ATS REPLACEMENT SEQUENCE

- ATS-1
- ATS-2
- ATS-3
- ATS-5
- ATS-6
- ATS-4



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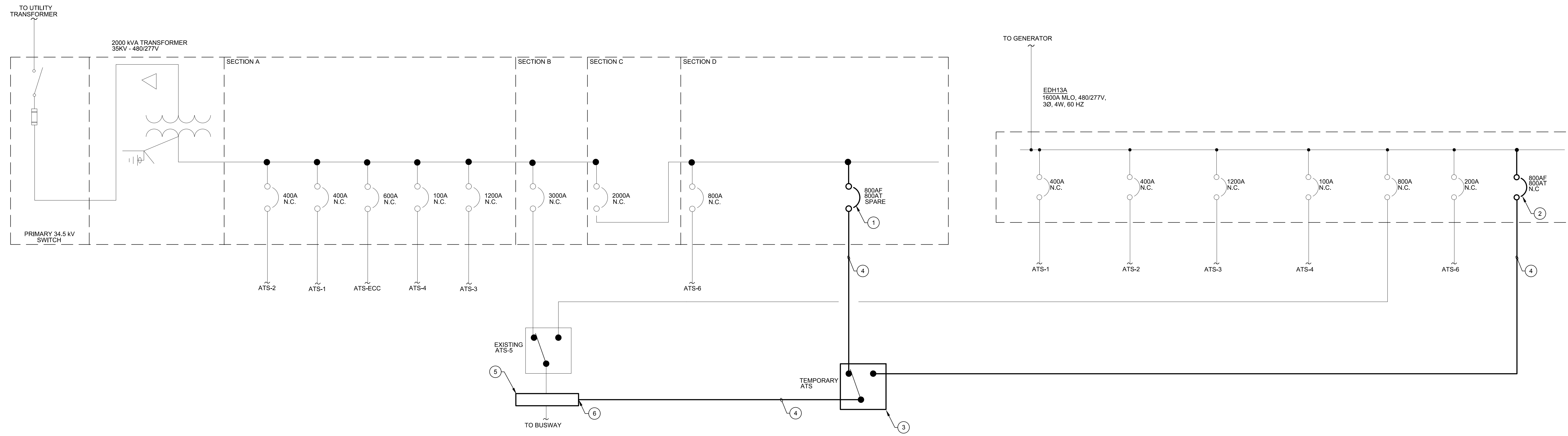
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ISSUE FOR BID			9/30/22



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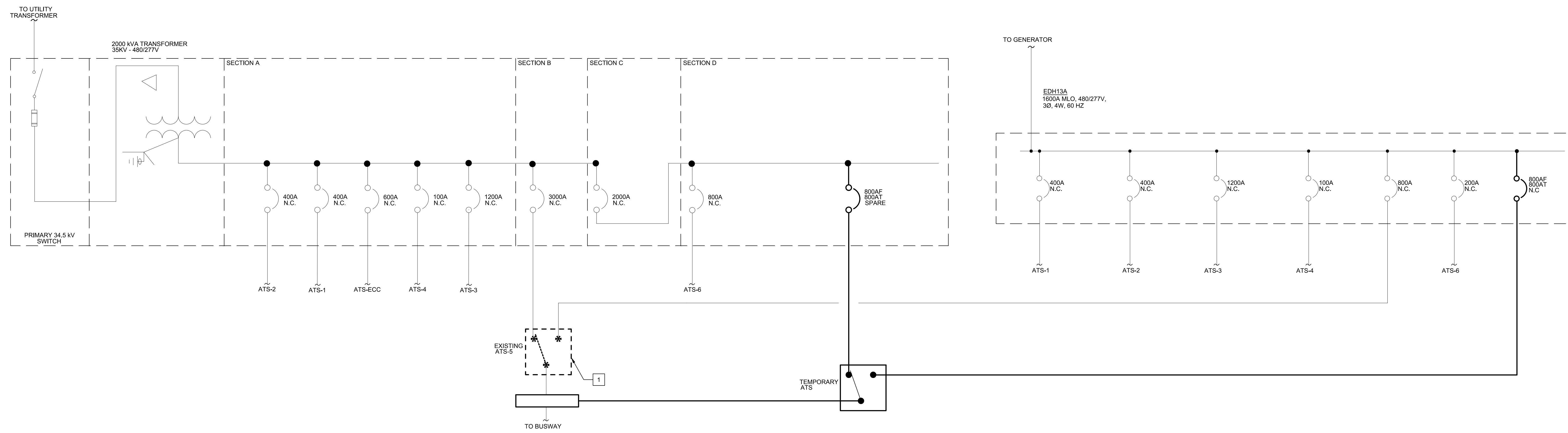
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ATS-3 ONE-LINE DIAGRAMS - ELECTRICAL

E502



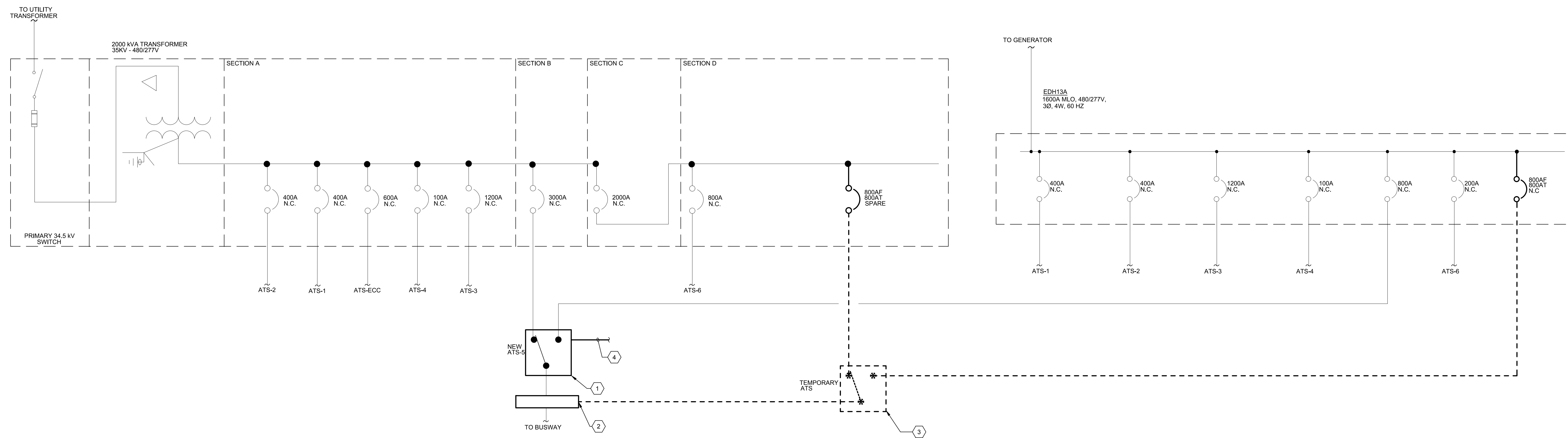
ATS-5 - ONE-LINE DIAGRAM - TEMPORARY WORK

SCALE: NO SCALE



ATS-5 - ONE-LINE DIAGRAM - DEMOLITION WORK

SCALE: NO SCALE



ATS-5 - ONE-LINE DIAGRAM - NEW WORK

SCALE: NO SCALE

**GENERAL NOTES**

1. ELECTRICAL CONTRACTOR SHALL SUBMIT ATS REPLACEMENT SEQUENCE REPORT AS INDICATED ON THE DIV 26 SPECIFICATIONS AND COVERSHEET.
2. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL SHUTDOWNS WITH OWNER PRIOR TO PROCEEDING WITH THE WORK.
3. ELECTRICAL CONTRACTOR SHALL MINIMIZE THE NUMBER AND LENGTH OF SHUTDOWNS TO MINIMIZE NORMAL POWER DOWNTIME.
4. REFER TO COVERSHEET FOR SCHEDULE OF EXISTING TO BE REPLACED ATS.
5. ELECTRICAL CONTRACTOR SHALL ENSURE POWER IS ONLINE TO LOAD DOWNSTREAM OF ATS DURING THE TEMPORARY PHASE PRIOR TO PROCEEDING WITH THE NEW WORK.

**TEMPORARY WORK KEY NOTES**

- NOTE: ELECTRICAL CONTRACTOR SHALL REUSE TEMPORARY ATS USED FOR THE REPLACEMENT OF ATS-1/2 AND 3 TO COMPLETE THE REPLACEMENT OF ATS-5. REFER TO SHEETS E500-E502 FOR ADDITIONAL INFORMATION.
1. SET TRIP SETTING OF EXISTING 800A/3P SPARE CIRCUIT BREAKER TO 800A.
  2. REUSE 800A/800AT CIRCUIT BREAKER INSTALLED AS PART OF ATS-1, ATS-2 AND ATS-3 REPLACEMENT FOR THE REPLACEMENT OF ATS-5. SET TRIP SETTING TO 800A.
  3. INSTALL A TEMPORARY 800A, 480/277V, 4P OPEN TRANSITION AUTOMATIC TRANSFER SWITCH. COORDINATE TEMPORARY LOCATION IN THE FIELD.
  4. INSTALL TEMPORARY CABLES TO POWER NORMAL, EMERGENCY AND LOAD SIDES OF TEMPORARY ATS. PROVIDE 2-SETS OF 4-#500KCMIL, 1-#10 AWG GROUND COPPER CABLES. CABLES SHALL BE TYPE DLO, SE, OR APPROVED EQUAL.
  5. INSTALL A NEW PULL-BOX ADJACENT TO EXISTING ATS-5. PULL-BOX SHALL BE SIZED PER NEC.
  6. SPLICE TEMPORARY CABLES FROM LOAD SIDE OF TEMPORARY ATS TO EXISTING LOAD SIDE CABLES OF EXISTING ATS-5 AT NEW PULL-BOX. CONFIRM ATS-5 SHUTDOWN PRIOR TO PROCEEDING WITH THE SPLICING OF CABLES.

**DEMOLITION WORK KEY NOTES**

1. DEMOLISH EXISTING ATS-5. MAINTAIN EXISTING NORMAL, EMERGENCY LOAD SIDE, AND ENGINE START CIRCUIT CABLES TO CONNECT TO NEW ATS.

**NEW WORK KEY NOTES**

1. INSTALL NEW ATS IN PLACE OF ATS-5. RECONNECT EXISTING NORMAL, EMERGENCY, LOAD, AND ENGINE STARTUP, CABLES TO NEW ATS (S). EXTEND CABLES AS REQUIRED WITH SIZES AND TYPE THAT MATCH EXISTING CONDITIONS. EXTEND EXISTING CONCRETE PADS AS REQUIRED. REFER TO COVERSHEET FOR ATS RATING AND ADDITIONAL INFORMATION.
2. DISCONNECT TEMPORARY CABLES FROM NEW PULL-BOX AND RECONNECT EXISTING LOAD CABLES FROM EXISTING ATS-5. MAINTAIN TEMPORARY LOAD CABLES TO BE USED IN THE REPLACEMENT OF ATS-6.
3. DISCONNECT AND MAINTAIN TEMPORARY ATS, INCLUDING NORMAL FEEDER TO BE USED IN THE REPLACEMENT OF ATS-6.
4. PROVIDE A DEDICATED ETHERNET CABLE IN A 3/4" CONDUIT FOR REMOTE MONITORING. TERMINATE CONDUIT AT NEW ATS REMOTE ANNUNCIATOR PANEL. COORDINATE LOCATION AND FINAL ROUTING IN THE FIELD. CONFIRM FINAL REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.

**ATS REPLACEMENT SEQUENCE**

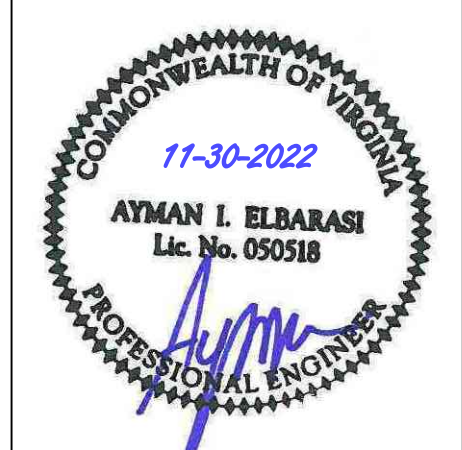
1. ATS-1
2. ATS-2
3. ATS-3
4. ATS-4
5. ATS-6
6. ATS-4



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PERMIT SET			7/09/21
ISSUE FOR BID			9/30/22

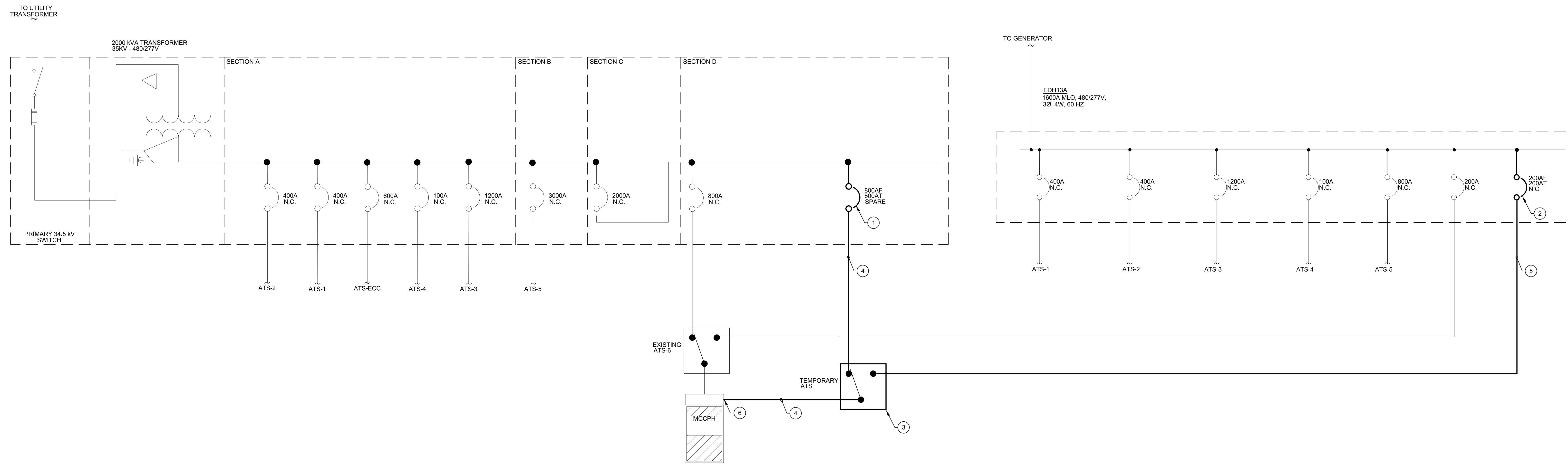


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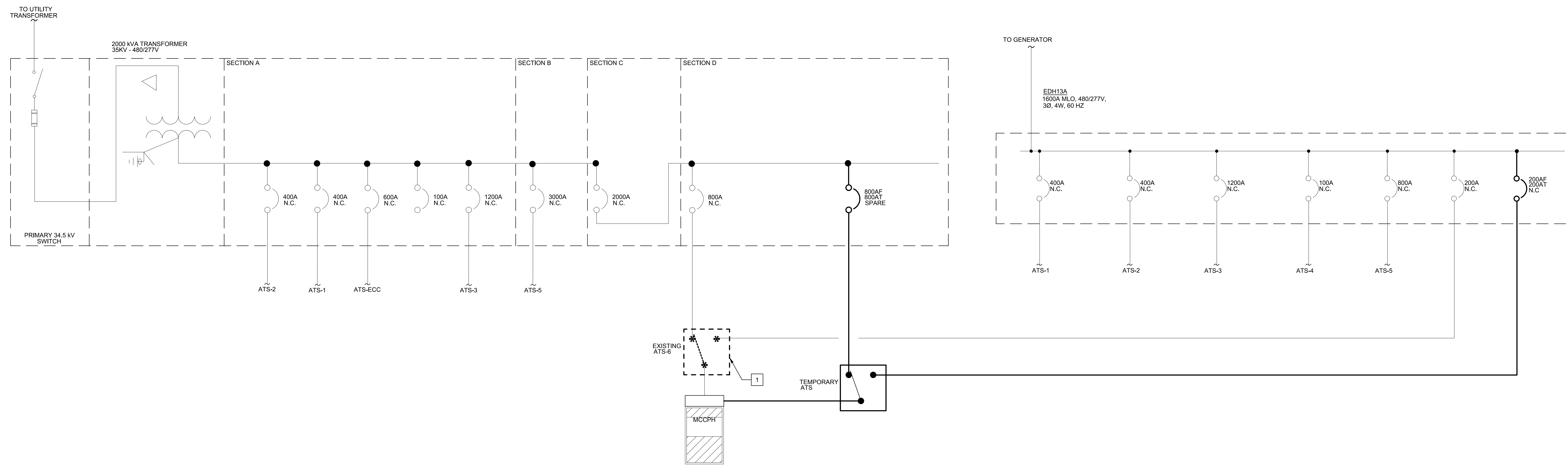
E503





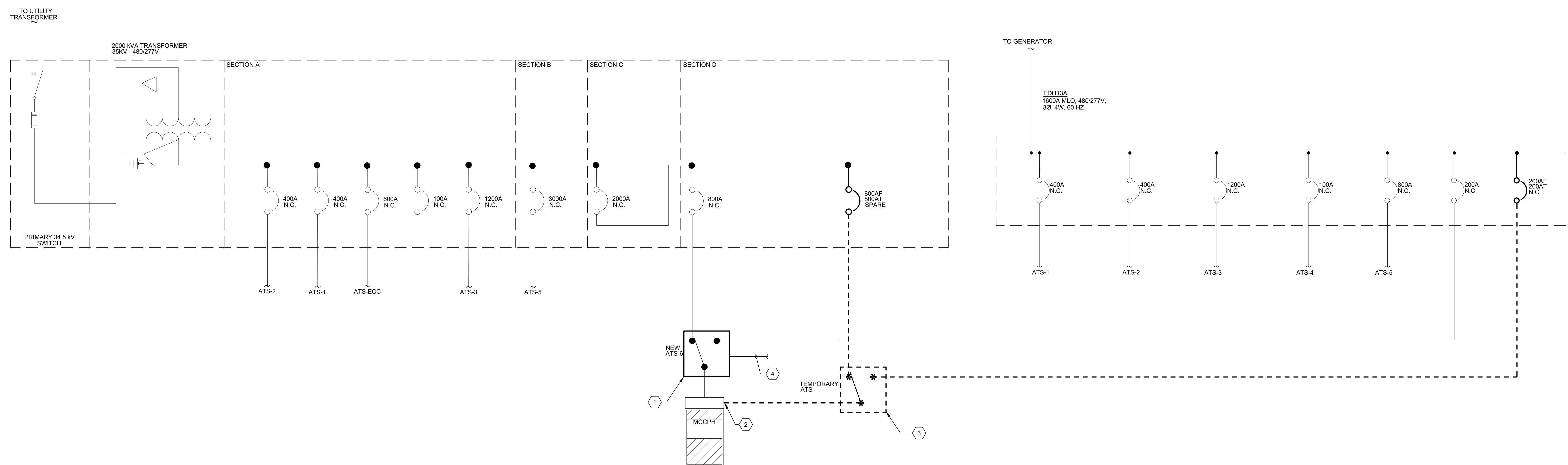
ATS-6 - ONE-LINE DIAGRAM - TEMPORARY WORK

SCALE: NO SCALE



ATS-6 - ONE-LINE DIAGRAM - DEMOLITION WORK

SCALE: NO SCALE



ATS-6 - ONE-LINE DIAGRAM - NEW WORK

SCALE: NO SCALE

GENERAL NOTES

- ELECTRICAL CONTRACTOR SHALL SUBMIT ATS REPLACEMENT SEQUENCE REPORT AS INDICATED ON THE DIV 26 SPECIFICATIONS AND COVERSHEET.
- ELECTRICAL CONTRACTOR SHALL COORDINATE ALL SHUTDOWNS WITH OWNER PRIOR TO PROCEEDING WITH THE WORK.
- ELECTRICAL CONTRACTOR SHALL MINIMIZE THE NUMBER AND LENGTH OF SHUTDOWNS TO MINIMIZE NORMAL POWER DOWNTIME.
- REFER TO COVERSHEET FOR SCHEDULE OF EXISTING TO BE REPLACED ATS.
- ELECTRICAL CONTRACTOR SHALL ENSURE POWER IS ONLINE TO LOAD DOWNSTREAM OF ATS DURING THE TEMPORARY PHASE PRIOR TO PROCEEDING WITH THE NEW WORK.

TEMPORARY WORK KEY NOTES

- NOTE: ELECTRICAL CONTRACTOR SHALL REUSE TEMPORARY ATS USED FOR THE REPLACEMENT OF ATS-1/2/3 AND 5 TO COMPLETE THE REPLACEMENT OF ATS-4. REFER TO SHEETS E500-E503 FOR ADDITIONAL INFORMATION.
- SET TRIP SETTING OF EXISTING 800A/3P SPARE CIRCUIT BREAKER TO 800A.
  - INSTALL A TEMPORARY 200A/3P CIRCUIT BREAKER AT PANEL EDH13A. CIRCUIT BREAKER SHALL MATCH AIC RATING OF PANEL.
  - INSTALL A TEMPORARY 800A, 480/277V, 4P OPEN TRANSITION AUTOMATIC TRANSFER SWITCH. COORDINATE TEMPORARY LOCATION IN THE FIELD.
  - INSTALL TEMPORARY CABLES TO POWER NORMAL AND LOAD SIDES OF TEMPORARY ATS. PROVIDE 2-SETS OF 4-#500KCMIL, 1-#10 AWG GROUND, COPPER CABLES. CABLES SHALL BE TYPE DLO, SE, OR APPROVED EQUAL.
  - INSTALL TEMPORARY CABLES TO POWER EMERGENCY SIDE OF TEMPORARY ATS. PROVIDE 4-#35 AWG, 1-#6 AWG GROUND, COPPER CABLES. CABLES SHALL BE TYPE DLO, SE, OR APPROVED EQUAL.
  - SPlice TEMPORARY CABLES FROM LOAD SIDE OF TEMPORARY ATS TO EXISTING LOAD SIDE CABLES OF EXISTING ATS-6 AT MOTOR CONTROL CENTER MCCPH. CONFIRM ATS-6 SHUTDOWN PRIOR TO PROCEEDING WITH THE SPlicing OF CABLES.

DEMOLITION WORK KEY NOTES

- DEMOLISH EXISTING ATS-6. MAINTAIN EXISTING NORMAL, EMERGENCY LOAD SIDE, AND ENGINE START CIRCUIT CABLES TO CONNECT TO NEW ATS.

NEW WORK KEY NOTES

- INSTALL NEW ATS IN PLACE OF ATS-6. RECONNECT EXISTING NORMAL, EMERGENCY, LOAD, AND ENGINE STARTUP, CABLES TO NEW ATS (S). EXTEND CABLES AS REQUIRED WITH SIZES AND TYPE THAT MATCH EXISTING CONDITIONS. EXTEND EXISTING CONCRETE PADS AS REQUIRED. REFER TO COVERSHEET FOR ATS RATING AND ADDITIONAL INFORMATION.
- DISCONNECT TEMPORARY LOAD CABLES FROM EXISTING MOTOR CONTROL CENTER MCCPH AND RECONNECT EXISTING LOAD CABLES FROM EXISTING ATS-6.
- DISCONNECT AND REMOVE TEMPORARY ATS. DEMOLISH AND REMOVE ALL ASSOCIATED TEMPORARY CABLE BACK TO THE CIRCUIT BREAKER. LABEL CIRCUIT BREAKERS AS SPARES.
- PROVIDE A DEDICATED ETHERNET CABLE IN A 3/4" CONDUIT FOR REMOTE MONITORING. TERMINATE CONDUIT AT NEW ATS REMOTE ANNUNCIATOR PANEL. COORDINATE LOCATION AND FINAL ROUTING IN THE FIELD. CONFIRM FINAL REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.

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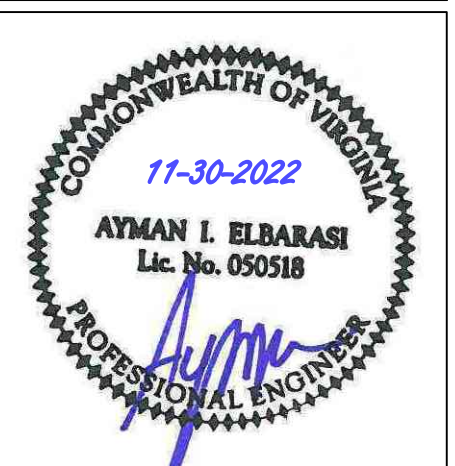
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- ATS-2
- ATS-3
- ATS-4
- ATS-5
- ATS-6
- ATS-4



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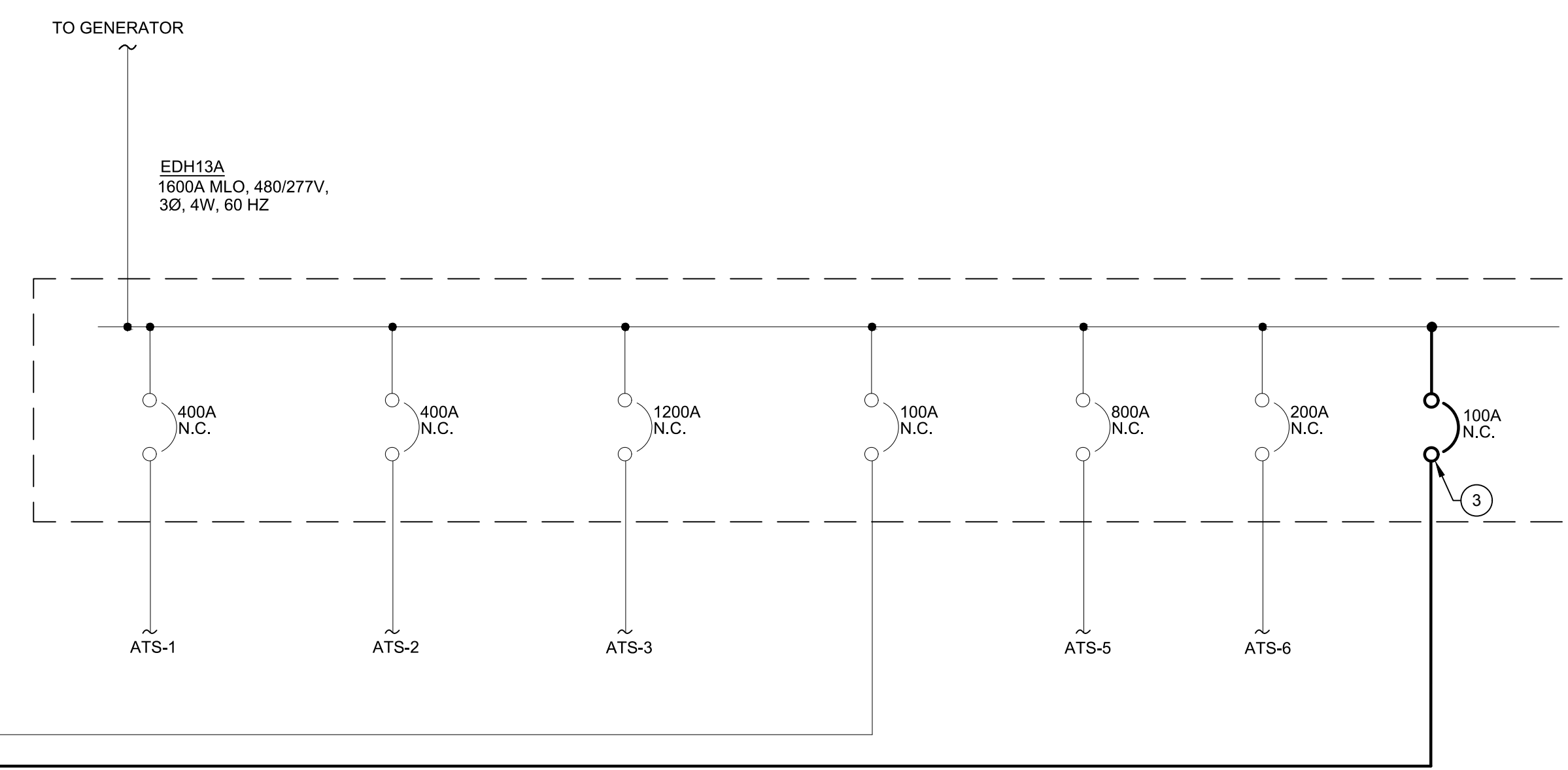
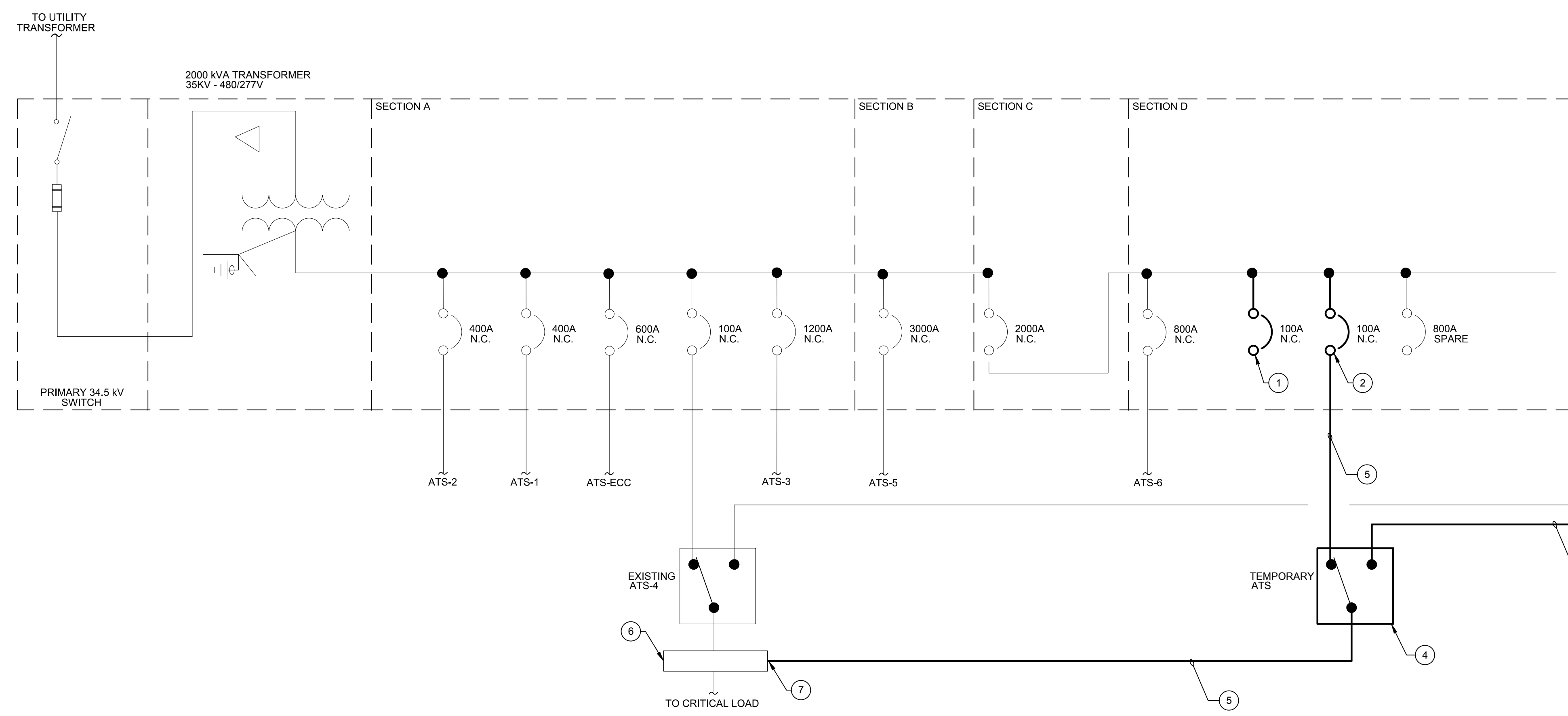
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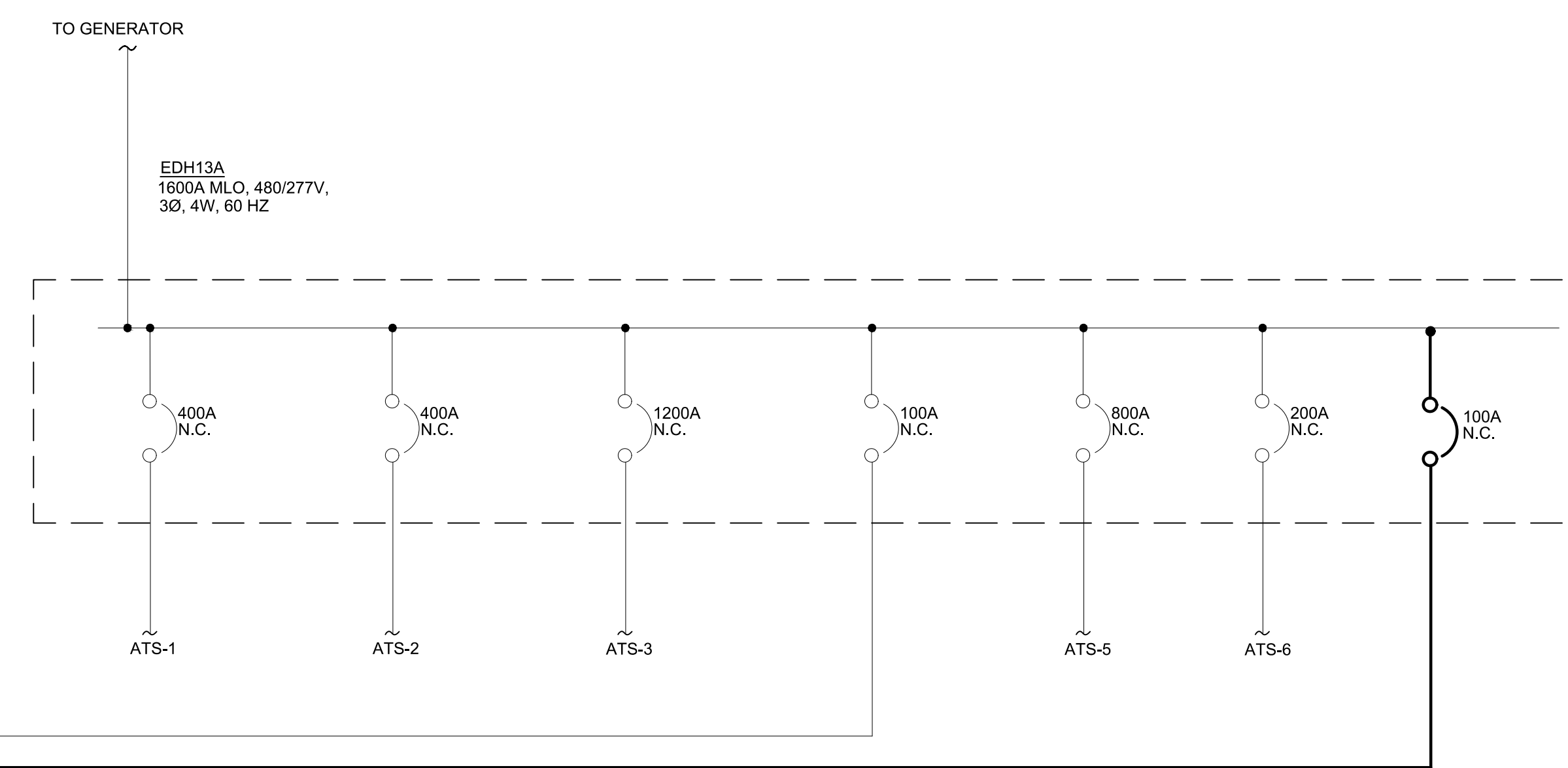
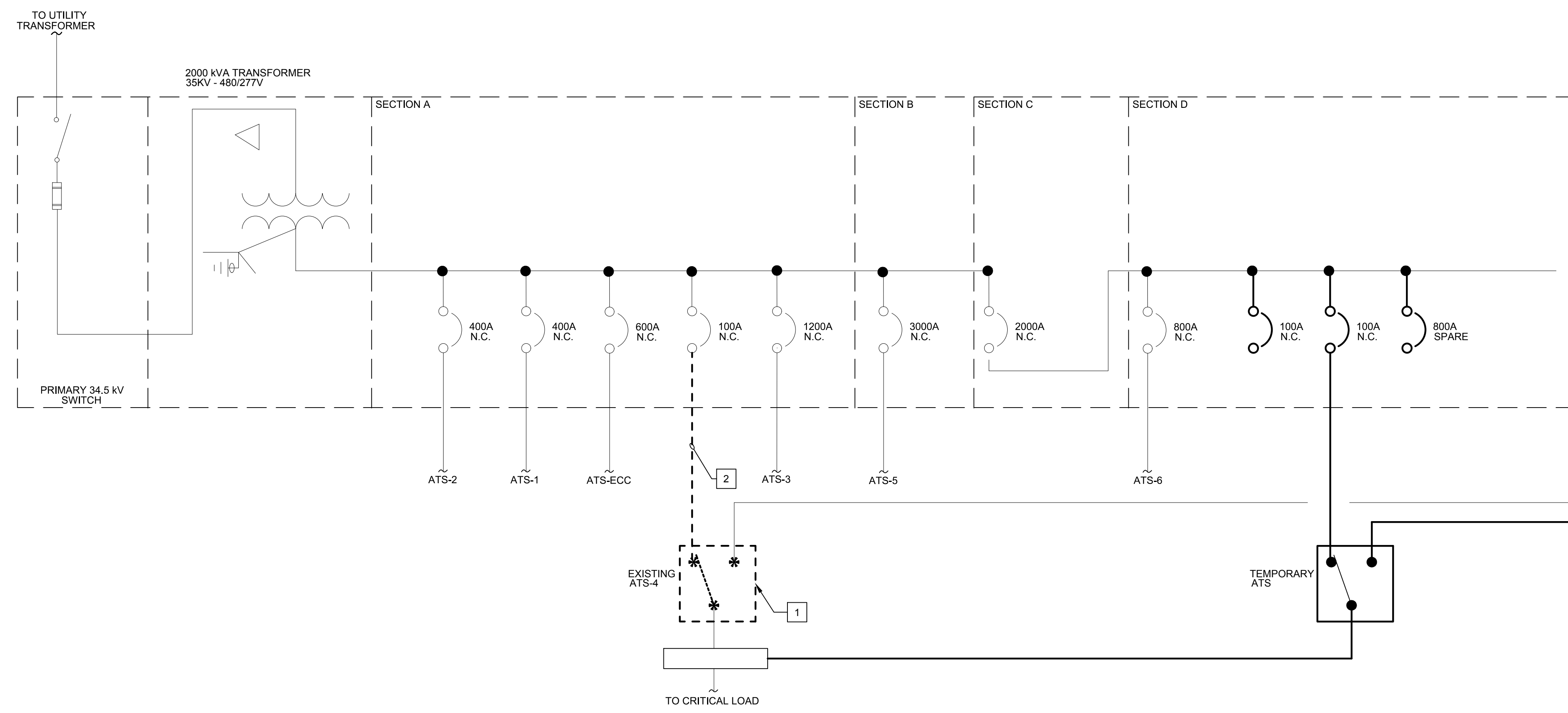
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ATS-6 ONE-LINE DIAGRAMS - ELECTRICAL

E504



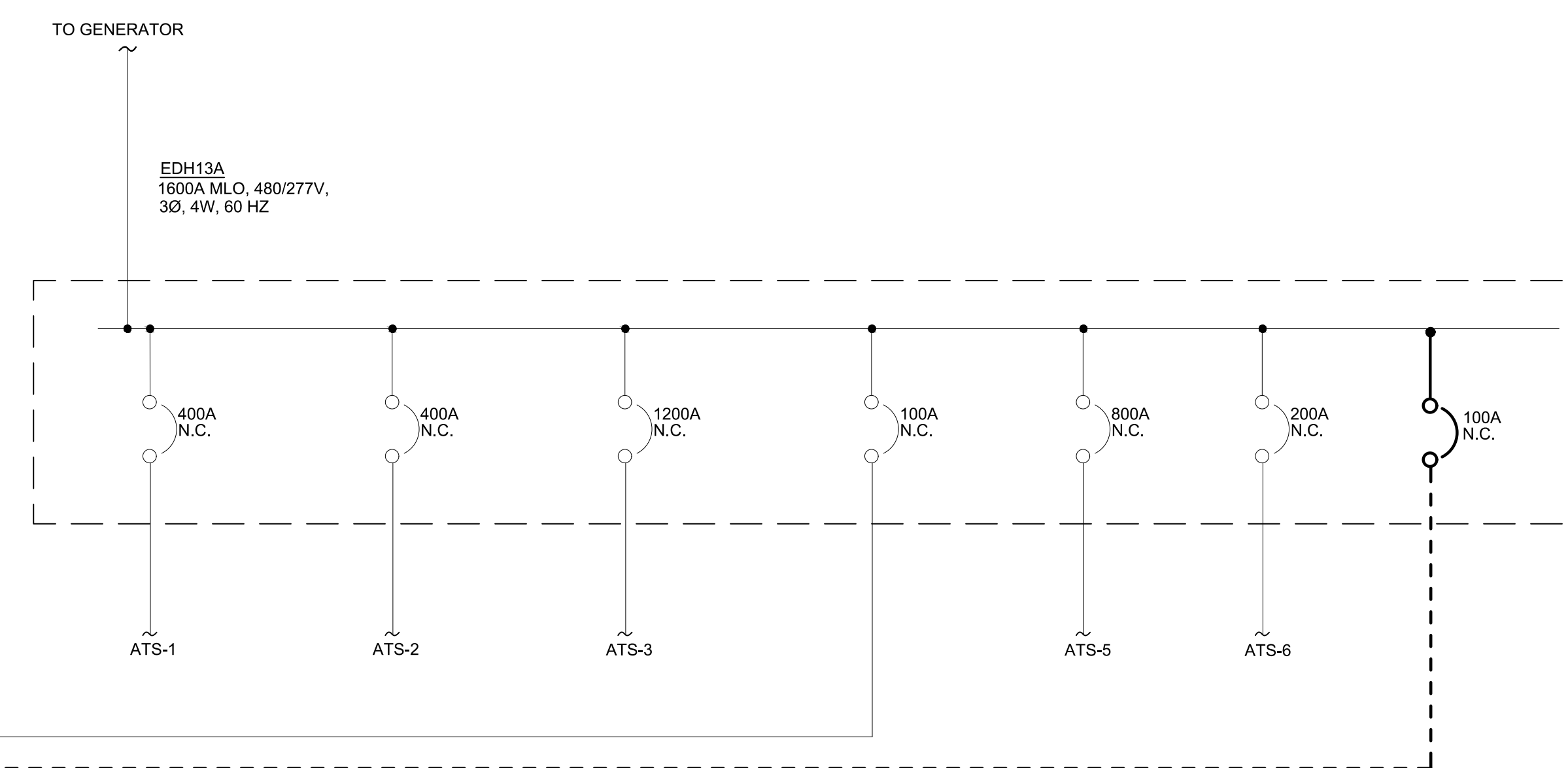
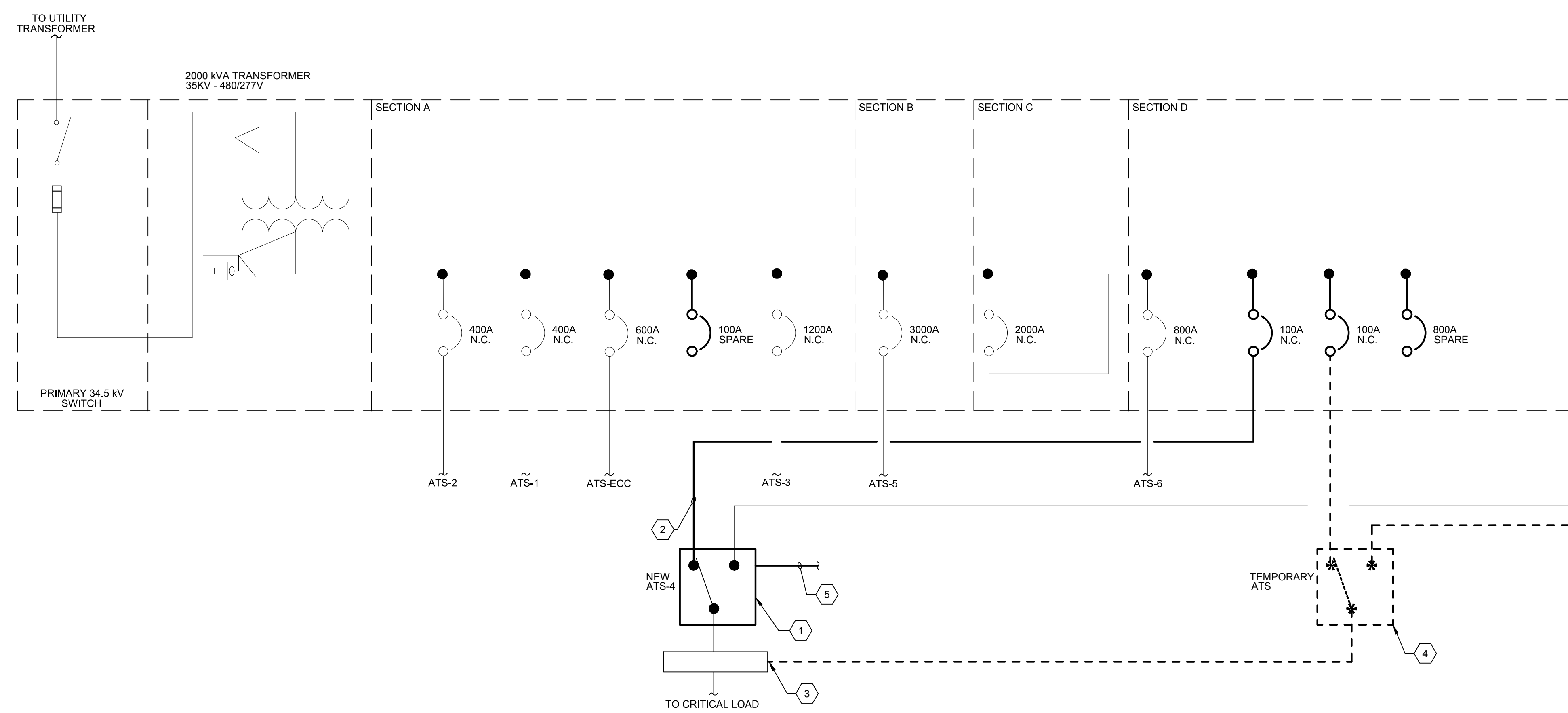
ATS-4 - ONE-LINE DIAGRAM - TEMPORARY WORK

SCALE: NO SCALE



ATS-4 - ONE-LINE DIAGRAM - DEMOLITION WORK

SCALE: NO SCALE



ATS-4 - ONE-LINE DIAGRAM - NEW WORK

SCALE: NO SCALE

GENERAL NOTES

- ELECTRICAL CONTRACTOR SHALL SUBMIT ATS REPLACEMENT SEQUENCE REPORT AS INDICATED ON THE DIV 26 SPECIFICATIONS AND COVERSHEET.
- ELECTRICAL CONTRACTOR SHALL COORDINATE ALL SHUTDOWNS WITH OWNER PRIOR TO PROCEEDING WITH THE WORK.
- ELECTRICAL CONTRACTOR SHALL MINIMIZE THE NUMBER AND LENGTH OF SHUTDOWNS TO MINIMIZE NORMAL POWER DOWNTIME.
- REFER TO COVERSHEET FOR SCHEDULE OF EXISTING TO BE REPLACED ATS.
- ELECTRICAL CONTRACTOR SHALL ENSURE POWER IS ONLINE TO LOAD DOWNSTREAM OF ATS DURING THE TEMPORARY PHASE PRIOR TO PROCEEDING WITH THE NEW WORK.

TEMPORARY WORK KEY NOTES

- NOTE: ELECTRICAL CONTRACTOR SHALL REUSE TEMPORARY ATS USED FOR THE REPLACEMENT OF ATS-1/2/3/5 AND 6 TO COMPLETE THE REPLACEMENT OF ATS-4. REFER TO SHEETS E500-E504 FOR ADDITIONAL INFORMATION.
- INSTALL ONE (1) 100A/3P CIRCUIT BREAKER AT UNIT SUBSTATION FOR PERMANENT USE. CIRCUIT BREAKER SHALL MATCH AIC RATING OF UNIT SUBSTATION. INSTALL NEW PERMANENT FEEDER AS INDICATED ON THE NEW WORK RISER ON THIS SHEET.
  - INSTALL ONE (1) 100A/3P CIRCUIT BREAKER AT UNIT SUBSTATION FOR TEMPORARY USE. CIRCUIT BREAKER SHALL MATCH AIC RATING OF UNIT SUBSTATION.
  - INSTALL A TEMPORARY 100A/3P CIRCUIT BREAKER AT PANEL EDH13A. CIRCUIT BREAKER SHALL MATCH AIC RATING OF PANEL.
  - INSTALL A TEMPORARY 800A, 480/277V, 4P OPEN TRANSITION AUTOMATIC TRANSFER SWITCH. COORDINATE TEMPORARY LOCATION IN THE FIELD.
  - INSTALL TEMPORARY CABLES TO POWER NORMAL, EMERGENCY AND LOAD SIDES OF TEMPORARY ATS. PROVIDE 4-#1 AWG, 1-#6 AWG GROUND COPPER CABLES. CABLES SHALL BE TYPE DLO, SE, OR APPROVED EQUAL.
  - EXISTING CRITICAL SYSTEM PULLBOX LOCATED BEHIND ATS-4.
  - SPlice TEMPORARY CABLES FROM LOAD SIDE OF TEMPORARY ATS TO EXISTING LOAD SIDE CABLES OF EXISTING ATS-4 AT CRITICAL SYSTEM PULLBOX. CONFIRM ATS-4 SHUTDOWN PRIOR TO PROCEEDING WITH THE SPLICING OF CABLES.

DEMOLITION WORK KEY NOTES

- DEMOLISH EXISTING ATS-4. MAINTAIN EXISTING EMERGENCY LOAD SIDE, AND ENGINE START CIRCUIT CABLES TO CONNECT TO NEW ATS.
- DEMOLISH EXISTING NORMAL FEEDER AND CONDUIT FROM ATS-4 BACK TO THE UNIT SUBSTATION. LABEL FREED CIRCUIT BREAKER AS SPARE.

NEW WORK KEY NOTES

- INSTALL NEW ATS IN PLACE OF ATS-4. RECONNECT EXISTING EMERGENCY, LOAD, AND ENGINE STARTUP CABLES TO NEW ATS. EXTEND CABLES AS REQUIRED WITH SIZES AND TYPE THAT MATCH EXISTING CONDITIONS. EXTEND EXISTING CONCRETE PAD AS REQUIRED. REFER TO COVERSHEET FOR ATS RATING AND ADDITIONAL INFORMATION.
- INSTALL NEW FEEDER FROM NEW 100A/3P CIRCUIT BREAKER AT UNIT SUBSTATION TO NEW ATS-4 NORMAL SIDE. FEEDER SHALL BE 4-#1AWG, 1-#6 AWG GROUND IN 1.25-INCH CONDUIT. ELECTRICAL CONTRACTOR SHALL CONFIRM NEW FEEDER SIZE MATCH EXISTING.
- DISCONNECT TEMPORARY LOAD CABLES FROM EXISTING CRITICAL SYSTEM PULLBOX AND RECONNECT EXISTING LOAD CABLES FROM EXISTING ATS-4.
- DISCONNECT AND MAINTAIN TEMPORARY ATS TO BE USED IN THE REPLACEMENT OF ATS-5. REFER TO SHEET E504 FOR ADDITIONAL INFORMATION.
- PROVIDE A DEDICATED ETHERNET CABLE IN A 3/4" CONDUIT FOR REMOTE MONITORING. TERMINATE CONDUIT AT NEW ATS REMOTE ANNUNCIATOR PANEL. COORDINATE LOCATION AND FINAL ROUTING IN THE FIELD. CONFIRM FINAL REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.

ATS REPLACEMENT SEQUENCE

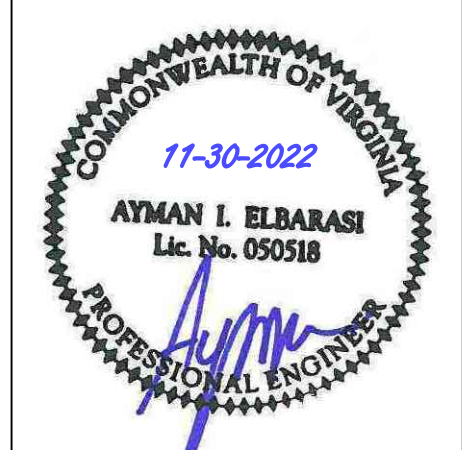
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Sheet Name:  
ATS-4 ONE-LINE DIAGRAMS - ELECTRICAL

E505