SEQUENCE OF OPERATIONS

PHASE 1:

A. CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE DEMOLITION/RENOVATION PLANS AND IDENTIFY ALL UNDERGROUND ROUTING OF NEW WORK ENSURING EXISTING INSTALLATION OF UNDERGROUND UTILITIES ARE NOT DISTURBED.

B. INSTALL NEW UNDERGROUND 13.8KV DUCTBANK FEEDERS FROM EXISTING SECTIONAL SWITCH (SS) #12 TO NEW ELECTRICAL MANHOLE (EMH) #26A. PREP AREA WHERE FINAL CONNECTION OF SS #12 IS TO BE MADE. DO NOT MAKE FINAL CONNECTION UNTIL SHUT DOWN OF SS #12 IS COMPLETED DURING PHASE 4. PROVIDE PULL CORD AS REQUIRED.

C. INSTALL NEW UNDERGROUND 13.8KV DUCTBANK FEEDERS FROM NEW EMH #26A TO NEW EMH#26B. PROVIDE PULL CORD AS REQUIRED.

D. INSTALL NEW UNDERGROUND 13.8KV DUCTBANK FEEDERS FROM NEW EMH #26B UP TO EXISTING BUILDING 6'S 300KVA PAD MOUNTED TRANSFORMER. PREP AREA WHERE FINAL CONNECTION OF BUILDING 6'S TRANSFORMER IS TO BE MADE. DO NOT MAKE FINAL CONNECTION UNTIL SHUT DOWN OF BUILDING 6'S TRANSFORMER IS COMPLETED DURING PHASE 4. PROVIDE PULL CORD AS REQUIRED.

E. INSTALL NEW UNDERGROUND 13.8KV DUCTBANK FEEDERS FROM NEW EMH #26A TO NEW FREESTANDING NEMA 4X ENCLOSURE, EPB #25 MOUNTED ON CONCRETE PAD AS SHOWN ON ES100. PREP AREA WHERE FINAL CONNECTION OF EMH #25 IS TO BE MADE. DO NOT MAKE FINAL CONNECTION UNIT SHUT DOWN OF LOOP C AND D ARE COMPLETED DURING PHASE 4. PROVIDE PULL CORD AS REQUIRED.

F. INSTALL NEW FREESTANDING NEMA 4X ENCLOSURE, EPB #27 MOUNTED ON CONCRETE PAD AS SHOWN ON ES100. INSTALL NEW UNDERGROUND 13.8KV DUCTBANK FEEDER ON BOTH SIDES TO CONNECT TO EXISTING AS REQUIRED.

G. INSTALL NEW UNDERGROUND 13.8KV DUCTBANK FEEDER FROM NEW EMH #26 TONEW EPB #27. PROVIDE PULL CORD AS REQUIRED.

H. INSTALL NEW UNDERGROUND 13.8KV DUCTBANK FEEDER FROM NEW EMH #26 TO NEW EMH #26A. COORDINATE WITH CIVIL PLANS AND NEW UNDERGROUND TUNNEL. PROVIDE PULL CORD AS REQUIRED.

PHASE 2:

A. INSTALL NEW UNDERGROUND DUCTBANK FROM NEW 300KVA PAD MOUNTED TRANSFORMER TO EXISTING 225KVA PAD MOUNTED TRANSFORMER PREVIOUSLY SERVICING BUILDING #25. DO NOT MAKE FINAL CONNECTION UNTIL SHUT DOWN OF SS #11 IS COMPLETED DURING PHASE 4. PROVIDE PULL CORD AS REQUIRED.

B. INSTALL CONCRETE PAD AND 300KVA TRANSFORMER WITH INTEGRAL FUSE. SEE CIVIL PLANS FOR ADDITIONAL INFORMATION. ENSURE TRANSFORMER SWITCH/FUSE ARE IN THE "OFF" POSITION UNTIL NEW CLC IS READY FOR SERVICE.

PHASE 3:

A. CONTRACTOR SHALL PROVIDE AND INSTALL A SEPARATE DIESEL GENERATOR FOR EACH BUILDING 6 AND 7 AND MAN THE OPERATIONS. GENERATOR WILL ACT AS NORMAL POWER DURING PHASE 4. VA'S EMERGENCY GENERATOR SHALL NOT BE USED FOR NORMAL WORKING ACTIVITIES. HOWEVER, MAY BE USED FOR CONTRACTOR PROVIDED GENERATOR INSPECTION PURPOSES ONLY. PROVIDE SUPERVISION, FUEL AND REQUIRED RECORD DOCUMENTATION DURING RUNTIME AND TESTING.

   1) BUILDING 6'S TEMPORARY GENERATOR SHALL BE SIZED FOR A MINIMUM OF 400KVA OR 1000A WITH AT LEAST 96 HOURS OF FUEL TIME.

   2) BUILDING 7'S TEMPORARY GENERATOR SHALL BE SIZED FOR A MINIMUM OF 720KVA OR 2000A WITH AT LEAST 96 HOURS OF FUEL TIME.

B. PREP AREA WHERE TEMPORARY CONNECTION WILL BE MADE IN BUILDING 6 UP TO THE SERVICE ENTRANCE EQUIPMENT. DO NOT MAKE CONNECTION UNTIL SHUT DOWN OF SS #12 IS COMPLETED DURING PHASE 4. PROVIDE PULL STRINGS AS REQUIRED.

C. PREP AREA WHERE TEMPORARY CONNECTION WILL BE MADE IN BUILDING 7 UP TO THE SERVICE ENTRANCE EQUIPMENT. DO NOT MAKE CONNECTION UNTIL SHUT DOWN OF SS #12 IS COMPLETED DURING PHASE 4. PROVIDE PULL STRINGS AS REQUIRED.

PHASE 4:

A. COORDINATE ELECTRICAL SERVICE SHUT DOWN OF LOOP C AND D WITH THE VA COR. CONTRACTOR SHALL PROVIDE A PLAN IN WRITTEN FORM FOR APPROVAL FROM THE COR. CONTRACTOR SHALL COORDINATE AT LEAST THREE (3) MONTHS PRIOR WITH THE VA COR FOR ACTUAL SHUT DOWN; ONLY (1) ONE SHUT DOWN WILL BE ACCEPTABLE. CONTRACTOR SHALL ENSURE SUFFICIENT STAFFS (A MINIMUM OF A TWO-MAN CREW AT EACH AFFECTED MANHOLE) SHALL BE PROVIDED ON SITE TO MINIMIZE SHUT DOWN DURATION. COMPLETION OF WORK DURING SHUT DOWN SHALL BE DONE OVER ONE WEEKEND AND MUST NOT EXCEED TWO DAYS.

B. CONTRACTOR SHALL TEMPORARILY DISCONNECT NORMAL SERVICE IN EXISTING SERVICE ENTRANCE EQUIPMENT SERVICING BUILDING 6 AND MAKE CONNECTION FROM TEMPORARY GENERATOR TO EXISTING SERVICE ENTRANCE EQUIPMENT. START UP GENERATOR, ENSURE BUILDING IS FULLY FUNCTIONING.

C. CONTRACTOR SHALL TEMPORARILY DISCONNECT NORMAL SERVICE IN EXISTING SERVICE ENTRANCE EQUIPMENT SERVICING BUILDING 7 AND MAKE CONNECTION FROM TEMPORARY GENERATOR TO EXISTING SERVICE ENTRANCE EQUIPMENT. START UP GENERATOR, ENSURE BUILDING IS FULLY FUNCTIONING.

D. SEVER LOOP C AND D AT EXISTING EMH #26A. PULL BACK 13.8KV FEEDERS FROM EXISTING EMH #26A TO EXISTING EMH #27. ON THE OTHER SIDE, PULL BACK 13.8KV FEEDERS FROM EMH #26A TO EXISTING EMH #25. DEMOLISH ASSOCIATED DUCTBANK AS REQUIRED.

E. DISCONNECT CONNECTION OF UNDERGROUND 13.8KV FEEDER FROM SS #12 AND BUILDING 6'S TRANSFORMER. DEMOLISH ASSOCIATED DUCTBANK AS REQUIRED.

F. REMOVE EXISTING 225KVA PAD MOUNTED TRANSFORMER PREVIOUSLY SERVICING DEMOLISHED BUILDING #25. REMOVE EXISTING CONDUCTORS FROM EXISTING 225KVA PAD MOUNTED TRANSFORMER TO EXISTING EXISTING SS #11 VIA EXISTING ELECTRICAL MANHOLE #28. ENSURE EXISTING CONCRETE ENCASED DUCTBANK IS PROTECTED TO BE REUSED. EXTEND EXISTING DUCTBANK TO NEW DUCTBANK AS SHOWN ON ES100. PULL NEW CONDUCTORS AS REQUIRED FROM EXISTING SS #11 TO NEW CLC'S TRANSFORMER LOCATION.

G. BORE EXISTING ELECTRICAL MANHOLES #27 AND #25 AS SHOWN ON SHEET ES100.

H. MAKE FINAL CONNECTION AND PULL NEW CONDUCTORS AT THE FOLLOWING LOCATION:

   1) EXISTING EMH #27 TO NEW EPB #27.

   2) NEW EPB #27 TO NEW EMH #26.

   3) NEW EMH #26 TO NEW EMH #26A.

   4) NEW EMH #26A TO NEW EPB #25

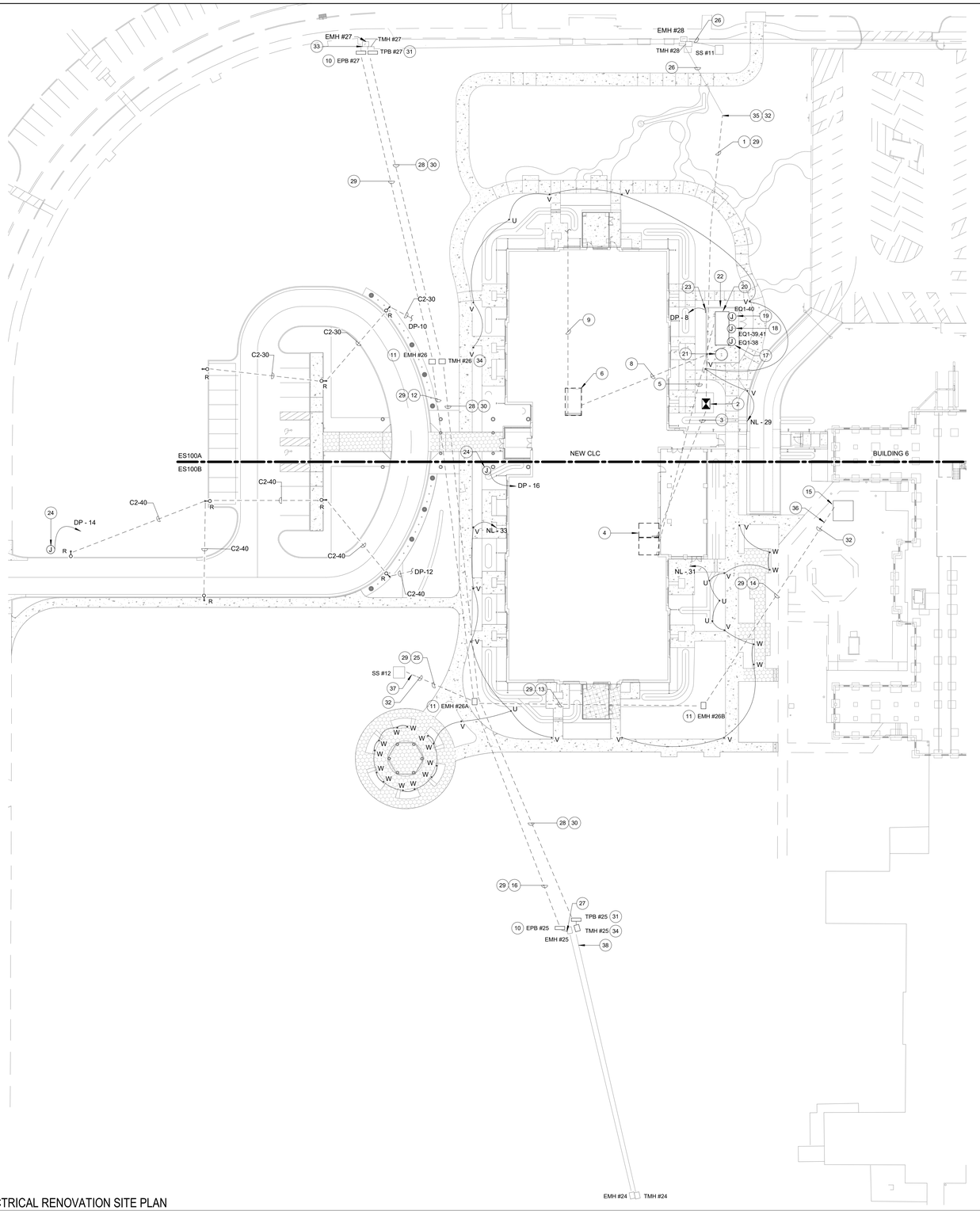
   5) NEW EPB #25 TO EXISTING EMH #25.

   6) EXISTING SS #12 TO NEW EMH #26A.

   7) NEW EMH #26A TO NEW EMH #26B.

   8) NEW EMH #26B TO EXISTING BUILDING 6'S 300KVA TRANSFORMER.

   9) EXISTING SS #11 TO NEW 300KVA PAD MOUNTED TRANSFORMER. ENSURE TRANSFORMER FUSE IS IN THE OFF POSITION UNTIL NEW CLC IS READY FOR SERVICE.



1 ELECTRICAL RENOVATION SITE PLAN
1" = 30'-0"

KEYNOTES

1 PROVIDE NEW UNDERGROUND CONCRETE ENCASED DUCTBANK SERVICE FEEDER FROM NEW PAD MOUNTED TRANSFORMER UP TO EXISTING DUCTBANK. PROVIDE NEW 13.8 KV, 3-PHASE CONDUCTORS FROM EXISTING SECTIONAL SWITCH SS#11 THROUGH EXISTING ELECTRICAL MANHOLE #28 TO NEW PAD MOUNTED TRANSFORMER. COORDINATE ALL REQUIREMENTS WITH VA. SEE CIVIL PLANS FOR ADDITIONAL INFORMATION.

2 APPROXIMATE LOCATION OF 208/120V-3PH, PAD-MOUNTED TRANSFORMER. COORDINATE FINAL LOCATION WITH VA.

3 UNDERGROUND 208/120V-3PH DIRECT BURIAL SECONDARY ELECTRIC SERVICE CONDUCTORS TO MAIN DISTRIBUTION PANEL, MDP. COORDINATE STUB-UP REQUIREMENTS IN SECONDARY COMPARTMENT OF TRANSFORMER WITH VA.

4 APPROXIMATE LOCATION OF NORMAL POWER ELECTRICAL ROOM. SEE FLOOR PLANS FOR ADDITIONAL INFORMATION.

5 36" UNDERGROUND DIRECT BURIAL EMERGENCY ELECTRIC SERVICE FEEDER FROM GENERATOR TO EMERGENCY ENCLOSED CIRCUIT BREAKERS. SEE FLOOR PLANS AND SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION.

6 APPROXIMATE LOCATION OF IT CLOSET. SEE FLOOR PLANS FOR ADDITIONAL INFORMATION.

7 APPROXIMATE LOCATION OF TELEPHONE TERMINAL BACKBOARD. SEE FLOOR PLANS FOR ADDITIONAL INFORMATION.

8 PROVIDE (2) 1" CONDUITS UNDERGROUND WITH PULL STRINGS FROM GENERATOR CONTROLS TO IT ROOM. MAA AT THE BOILER PLANT SHALL MONITOR GENERATOR.

9 PROVIDE (2) 4" CONDUITS WITH PULL STRINGS BURIED 30" B.F.G. TO EXISTING EMH #24 FOR TELEPHONE AND DATA SERVICES; CAP AND MARK FOR INSTALLATION FOR COMMUNICATION SERVICES. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL TELEPHONE REQUIREMENTS AND TERMINATION POINT WITH SERVICE PROVIDER/VA. SEE SHEET EY100 FOR ADDITIONAL INFORMATION.

10 90" X 72" X 24" (HxWxD) NEW FREESTANDING NEMA 4X ENCLOSURE WITH LOAD BREAK ELBOWS ON BOTH SIDES OF THE TERMINAL BLOCKS MOUNTED ON CONCRETE PAD FOR 13.8 KV, 3-PH POWER FEED CONNECTIONS. TERMINATE BACK TO EXISTING ELECTRICAL C AND D LOOPS. BASIS OF DESIGN IS HUBBELL WRD907224SSFSDN4.

11 NEW ELECTRICAL MANHOLE.

12 NEW UNDERGROUND 13.8 KV, 3-PH C AND D LOOP CONDUCTORS FROM NEW FREESTANDING NEMA 4X ENCLOSURE, ELECTRICAL PULL BOX EPB #27 TO NEW ELECTRICAL MANHOLE EMH #26A VIA NEW ELECTRICAL MANHOLE EMH #26.

13 NEW UNDERGROUND 13.8 KV, 3-PH CONDUCTORS FROM NEW ELECTRICAL MANHOLE EMH #26A TO NEW ELECTRICAL MANHOLE EMH #26B.

14 NEW UNDERGROUND 13.8 KV, 3-PH UTILITY SERVICE FEEDER TO EXISTING UTILITY TRANSFORMER #1 SERVICING EXISTING BUILDING #6.

15 APPROXIMATE LOCATION OF EXISTING PAD-MOUNTED UTILITY TRANSFORMER #1 SERVICING BUILDING #6.

16 NEW UNDERGROUND 13.8 KV, 3-PH C AND D LOOP CONDUCTORS FROM NEW ELECTRICAL MANHOLE EMH #26A TO NEW FREESTANDING NEMA 4X ENCLOSURE, ELECTRICAL PULL BOX EPB #25.

17 WP JUNCTION BOX FOR GENERATOR CONTROL PANEL.

18 WP JUNCTION BOX FOR JACKET WATER HEATER.

19 WP JUNCTION BOX FOR BATTERY CHARGER.

20 APPROXIMATE LOCATION OF EMERGENCY STAND-BY GENERATOR. SEE SINGLE LINE DIAGRAM, DETAILS H ON SHEET E501 AND CG503 FOR ADDITIONAL INFORMATION.

21 ABOVE GROUND 1000 GALLON DIESEL FUEL TANK WITH TANK SUPPORTS "FEET". CONTRACTOR SHALL ENSURE BOTTOM OF TANK TO BE 1" OFF OF CONCRETE CURB/PAD THAT IT SITS ON. SEE DETAIL 'H' ON SHEET E501 AND F1/CG503 FOR ADDITIONAL INFORMATION.

22 ENCLOSURE AROUND GENERATOR. SEE CIVIL PLANS FOR ADDITIONAL INFORMATION.

23 WP DUPLEX FOR IRRIGATION CONTROLLER MOUNTED ON PEDESTAL. SEE LANDSCAPE PLANS FOR ADDITIONAL INFORMATION.

24 WP JUNCTION BOX FOR MONUMENT SIGN. TIE CONTROLS TO TIME CLOCK-LCP. COORDINATE ON/OFF REQUIREMENTS WITH COR.

25 NEW C AND D LOOP CONDUCTORS FROM EXISTING SS #12 TO NEW ELECTRICAL MANHOLE #26A.

26 EXISTING UNDERGROUND DUCTBANK WITH NEW FEEDER.

27 BORE EXISTING ELECTRICAL MANHOLE #25 FOR NEW UNDERGROUND 13.8 KV, 3-PH C AND D LOOP CONDUCTORS FROM NEW FREESTANDING NEMA 4X ENCLOSURE, EPB #25. AT EXISTING MANHOLE, BREAK THE STRUCTURE WALL OUT TO THE DIMENSIONS REQUIRED AND PRESERVE THE STEEL IN THE STRUCTURAL WALL. CUT STEEL AND EXTEND INTO THE DUCT BANK ENVELOPE. CHIP THE PERIMETER SURFACE OF THE DUCT BANK OPENING TO FORM A KEY OR FLARED SURFACE. REFER TO SPECS AND CIVIL PLANS FOR ADDITIONAL INFORMATION.

28 PULL NEW TELECOMMUNICATION CABLES IN NEW CONCRETE ENCASED DUCTBANK.

29 NEW CONCRETE ENCASED DUCTBANKS - (4) 3" CONDUITS WITH 13.8KV, 3/C 2/0 PRIMARY AND 1#1 B/N AND TWO SPARE CONDUITS.

30 NEW CONCRETE ENCASED DUCTBANKS - (5) 3" CONDUITS. 1 - 30#16 RHL. 1 - 24#16 RHL AND 2-3/C #16 RHL. 1 2#12 RHL. 1 - TELEPHONE. 1 - SPARE.

31 NEW FREESTANDING NEMA 4X ENCLOSURE MOUNTED ON CONCRETE PAD FOR TELECOMMUNICATION CABLES FEED CONNECTIONS. TERMINATE BACK TO EXISTING TELEPHONE CABLES.

32 REFER TO SPEC 26 05 41 SECTION 3.3.E FOR DIRECTION ON CONNECTING NEW DUCT TO EXISTING.

33 BORE EXISTING ELECTRICAL MANHOLE #27 FOR NEW UNDERGROUND 13.8 KV, 3-PH C AND D LOOP CONDUCTORS FROM NEW FREESTANDING NEMA 4X ENCLOSURE, EPB #27. AT EXISTING MANHOLE, BREAK THE STRUCTURE WALL OUT TO THE DIMENSIONS REQUIRED AND PRESERVE THE STEEL IN THE STRUCTURAL WALL. CUT STEEL AND EXTEND INTO THE DUCT BANK ENVELOPE. CHIP THE PERIMETER SURFACE OF THE DUCT BANK OPENING TO FORM A KEY OR FLARED SURFACE. REFER TO SPECS AND CIVIL PLANS FOR ADDITIONAL INFORMATION. REMOVE AND CONSTRUCT NEW MANHOLE #27.

34 NEW TELECOMMUNICATION MANHOLE.

35 MAKE CONNECTION TO EXISTING CONCRETE DUCTBANK. SEE DETAIL F5-CG506.

36 MAKE CONNECTION TO EXISTING CONCRETE DUCTBANK 3 LF WEST OF TRANSFORMER #1. SEE DETAIL F5-CG506.

37 MAKE CONNECTION TO EXISTING CONCRETE DUCTBANK 3 LF EAST OF SS #12. SEE DETAIL F5-CG506.

38 MAKE CONNECTION TO EXISTING CONCRETE DUCTBANK 3 LF SOUTH EMH #25. SEE DETAIL F5-CG506.

GENERAL NOTES

A. ELECTRICAL CONTRACTOR SHALL MEET WITH THE VA PROJECT ENGINEER AT THE SITE TO VERIFY TERMINATION LOCATION, ROUTING OF CONDUITS AND ROUGH-IN REQUIREMENTS PRIOR TO COMMENCING ANY WORK ON THIS SITE.

B. ELECTRICAL CONTRACTOR SHALL MEET WITH LOCAL LOW VOLTAGE SYSTEM PROVIDER AT THE SITE TO VERIFY TERMINATION LOCATION, ROUTING OF CONDUITS AND ROUGH-IN REQUIREMENTS PRIOR TO COMMENCING ANY WORK ON THIS SITE.

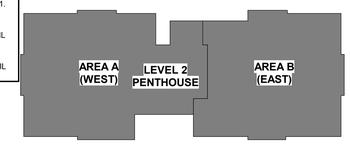
C. ELECTRICAL CONTRACTOR SHALL CONTACT LOCAL UTILITY UNDERGROUND LOCATING SERVICE COMPANY PRIOR TO DIGGING ON THIS SITE.

D. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH STRUCTURAL ENGINEER FOR CONDUIT OPENING IN STRUCTURAL SUPPORT.

E. REFER TO SINGLE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.

F. ALL EXTERIOR ELECTRICAL DEVICES AND ENCLOSURE SHALL BE RATED NEMA 3R.

G. SITE AND LANDSCAPE LIGHTING SHALL BE CONTROLLED VIA PHOTOCELL-ON AND TIMECLOCK-OFF. FIXTURES SHALL BE PROVIDED WITH INTEGRAL PHOTOCELL.



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05/09/2022

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL RENOVATION OVERALL SITE PLAN	Phase: ISSUED FOR CONSTRUCTION	Project Title: NEW COMMUNITY LIVING CENTER	Project Number: 620-334
			Building Number: CLC
Approved:	FULLY SPRINKLERED	Location: 2094 Albany Post Road, Montrose, NY 10548	Drawing Number: ES100
		Issue Date: 05/09/2022 / Checked: DK / Drawn: SC	

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