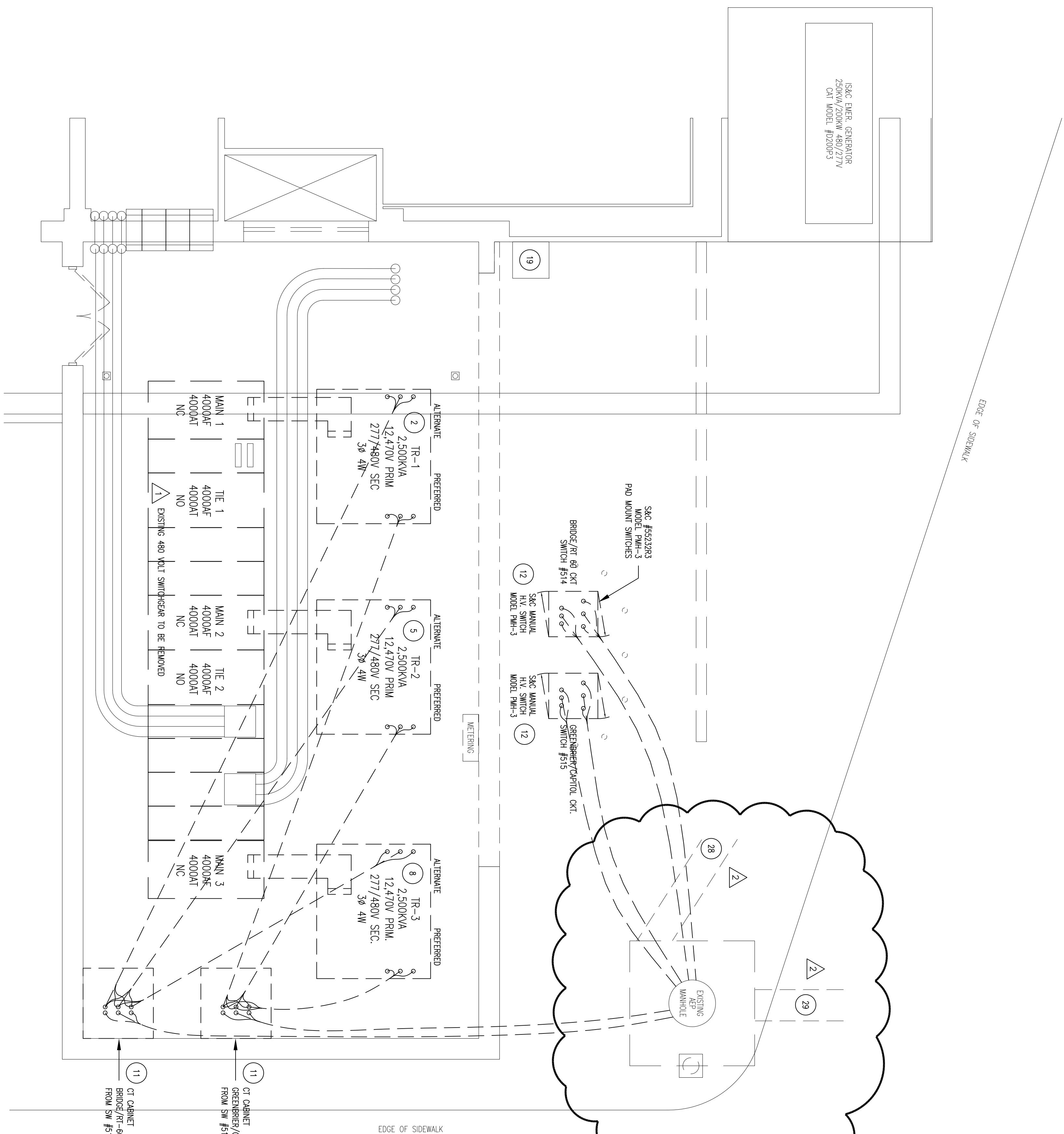


PRE-CONSTRUCTION NOTES

1. THE FOLLOWING SEQUENCE IS A GUIDE TO ASSIST THE NEW INSTALLATION AND REMOVAL OF EXISTING EQUIPMENT FOR CONSTRUCTION OF THE EXPANDED ELECTRICAL SYSTEM. THE CONTRACTOR MAY MODIFY THE SEQUENCE AS NECESSARY TO ACCOMMODATE SCHEDULING CONSTRAINTS, PROVIDED THAT ALL SCHEDULING MILESTONES OR PERFORM TASKS UNDER STRICT CONSTRUCTION AFTER COMMENCING ALL ERECTIONS AND DURING APPROVAL FROM BOTH THE UTILITY COMPANY AND THE OWNER.
2. PRIOR TO ANY WORK, VERIFY THE FACILITY'S TWO (2) POWER SOURCES, BREAKER/FEED, 60 ALTERNATE (CIRCUIT FEED THRU SWITCH #514 AND GREENBERRY/CENTRAL (PREFERRED) CIRCUIT FEED THRU SWITCH #315) COMPARE THE FACILITY SOURCE AND CORRELATE ALL PHASES OF CONSTRUCTION ACCORDINGLY.
3. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING AND NEW ELECTRICAL EQUIPMENT AND CONDUITS. VERIFY THE LOCATION OF ALL EXISTING AND NEW ELECTRICAL EQUIPMENT AND CONDUITS. VERIFY THE LOCATION OF ALL EXISTING AND NEW ELECTRICAL EQUIPMENT AND CONDUITS. VERIFY THE LOCATION OF ALL EXISTING AND NEW ELECTRICAL EQUIPMENT AND CONDUITS.
4. THE CONTRACTOR SHALL SUBMIT A PROPOSED AND VOLT DISTRIBUTION SWITCHGEAR SEQUENCE OF OPERATION AND INSTALLATION TO THE ARCHITECT AND THE OWNER FOR REVIEW AT THE TIME OF SUBMISSION OF SHOP DRAWINGS.
5. SCHEDULE A QUALIFIED FACTORY SERVICE TECHNICIAN TO FIELD VERIFY THE EXISTING BUS DUCT AND CONDUIT SYSTEMS. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING AND NEW ELECTRICAL EQUIPMENT AND CONDUITS. VERIFY THE LOCATION OF ALL EXISTING AND NEW ELECTRICAL EQUIPMENT AND CONDUITS. VERIFY THE LOCATION OF ALL EXISTING AND NEW ELECTRICAL EQUIPMENT AND CONDUITS.

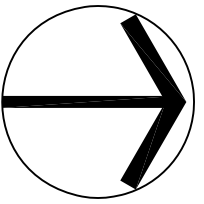
KEYED CONSTRUCTION NOTES

1. INSTALL NEW SWITCHGEAR AND CONCRETE PAD COMPLETE WITH UNDERGROUND CONDUITS STUBBED INTO ALTERNATE AND PREFERRED SWITCHGEAR TRANSFER SECTIONS. UTILITY COMPANY SHALL PROVIDE CONDUITS FOR BREAKER/FEED 60 (ALTERNATE) CIRCUIT AND GREENBERRY/CENTRAL (PREFERRED) CIRCUIT OVERHEAD BUS DUCT, CONCRETE PAD AND TWO SETS OF FEEDERS.
2. OPEN MAIN BREAKER #1 IN EXISTING 480V DISTRIBUTION GEAR. CLOSE BREAKER #1 BETWEEN MAIN BREAKER #1 AND MAIN BREAKER #2. REMOVE EXISTING TRANSFORMER TR-1 ALONG WITH ITS ASSOCIATED OVERHEAD BUS DUCT, CONCRETE PAD AND TWO SETS OF FEEDERS.
3. REMOVE CONCRETE BASE FOR NEW TRANSFORMER TR-1. INSTALL NEW TRANSFORMER ONTO BASE AND REMOVE UNDERGROUND CONDUIT AND FEEDER CONDUCTORS FROM LOAD BREAK SWITCH #1 TO PRIMARY SIDE OF TRANSFORMER. INSTALL NEW 480V BUS DUCT FROM SECONDARY SIDE OF TRANSFORMER TO NEW MAIN #1 IN NEW 480V SWITCHGEAR. SUPPORT OVERHEAD BUS BRESS FROM STRUCTURE ABOVE.
4. VERIFY ALL WORK AND CONNECTIONS ASSOCIATED WITH NEW TRANSFORMER TR-1 ARE COMPLETE. OPEN BREAKER #1. CLOSE MAIN BREAKER #1. ENERGIZE EQUIPMENT AND PLACE ONLINE.
5. REMOVE UNDERGROUND CONDUIT AND FEEDER CONDUCTORS FROM LOAD BREAK SWITCH #2 TO BREAKER #2. REMOVE EXISTING TRANSFORMER TR-2 ALONG WITH ITS ASSOCIATED OVERHEAD BUS DUCT, CONCRETE PAD AND TWO SETS OF FEEDERS.
6. REMOVE CONCRETE BASE FOR NEW TRANSFORMER TR-2. INSTALL NEW TRANSFORMER ONTO BASE AND REMOVE UNDERGROUND CONDUIT AND FEEDER CONDUCTORS FROM LOAD BREAK SWITCH #2 TO PRIMARY SIDE OF TRANSFORMER. INSTALL NEW 480V BUS DUCT FROM SECONDARY SIDE OF TRANSFORMER TO NEW MAIN #2 IN NEW 480V SWITCHGEAR. SUPPORT OVERHEAD BUS BRESS FROM STRUCTURE ABOVE.
7. VERIFY ALL WORK AND CONNECTIONS ASSOCIATED WITH NEW TRANSFORMER TR-2 ARE COMPLETE. OPEN BREAKER #2. CLOSE MAIN BREAKER #2. ENERGIZE EQUIPMENT AND PLACE ONLINE.
8. REMOVE CONCRETE BASE FOR NEW TRANSFORMER TR-3. INSTALL NEW TRANSFORMER ONTO BASE AND REMOVE UNDERGROUND CONDUIT AND FEEDER CONDUCTORS FROM LOAD BREAK SWITCH #3 TO PRIMARY SIDE OF TRANSFORMER. INSTALL NEW 480V BUS DUCT FROM SECONDARY SIDE OF TRANSFORMER TO NEW MAIN #3 IN NEW 480V SWITCHGEAR. SUPPORT OVERHEAD BUS BRESS FROM STRUCTURE ABOVE.
9. VERIFY ALL WORK AND CONNECTIONS ASSOCIATED WITH NEW TRANSFORMER TR-3 ARE COMPLETE. OPEN BREAKER #3. CLOSE MAIN BREAKER #3. ENERGIZE EQUIPMENT AND PLACE ONLINE.
10. REMOVE CONCRETE BASE FOR NEW TRANSFORMER TR-4. INSTALL NEW TRANSFORMER ONTO BASE AND REMOVE UNDERGROUND CONDUIT AND FEEDER CONDUCTORS FROM LOAD BREAK SWITCH #4 TO PRIMARY SIDE OF TRANSFORMER. INSTALL NEW 480V BUS DUCT FROM SECONDARY SIDE OF TRANSFORMER TO NEW MAIN #4 IN NEW 480V SWITCHGEAR. SUPPORT OVERHEAD BUS BRESS FROM STRUCTURE ABOVE.
11. REMOVE CONCRETE BASE FOR NEW TRANSFORMER TR-5. INSTALL NEW TRANSFORMER ONTO BASE AND REMOVE UNDERGROUND CONDUIT AND FEEDER CONDUCTORS FROM LOAD BREAK SWITCH #5 TO PRIMARY SIDE OF TRANSFORMER. INSTALL NEW 480V BUS DUCT FROM SECONDARY SIDE OF TRANSFORMER TO NEW MAIN #5 IN NEW 480V SWITCHGEAR. SUPPORT OVERHEAD BUS BRESS FROM STRUCTURE ABOVE.
12. REMOVE CONCRETE BASE FOR NEW TRANSFORMER TR-6. INSTALL NEW TRANSFORMER ONTO BASE AND REMOVE UNDERGROUND CONDUIT AND FEEDER CONDUCTORS FROM LOAD BREAK SWITCH #6 TO PRIMARY SIDE OF TRANSFORMER. INSTALL NEW 480V BUS DUCT FROM SECONDARY SIDE OF TRANSFORMER TO NEW MAIN #6 IN NEW 480V SWITCHGEAR. SUPPORT OVERHEAD BUS BRESS FROM STRUCTURE ABOVE.
13. REMOVE CONCRETE BASE FOR NEW TRANSFORMER TR-7. INSTALL NEW TRANSFORMER ONTO BASE AND REMOVE UNDERGROUND CONDUIT AND FEEDER CONDUCTORS FROM LOAD BREAK SWITCH #7 TO PRIMARY SIDE OF TRANSFORMER. INSTALL NEW 480V BUS DUCT FROM SECONDARY SIDE OF TRANSFORMER TO NEW MAIN #7 IN NEW 480V SWITCHGEAR. SUPPORT OVERHEAD BUS BRESS FROM STRUCTURE ABOVE.
14. REMOVE CONCRETE BASE FOR NEW TRANSFORMER TR-8. INSTALL NEW TRANSFORMER ONTO BASE AND REMOVE UNDERGROUND CONDUIT AND FEEDER CONDUCTORS FROM LOAD BREAK SWITCH #8 TO PRIMARY SIDE OF TRANSFORMER. INSTALL NEW 480V BUS DUCT FROM SECONDARY SIDE OF TRANSFORMER TO NEW MAIN #8 IN NEW 480V SWITCHGEAR. SUPPORT OVERHEAD BUS BRESS FROM STRUCTURE ABOVE.
15. REMOVE CONCRETE BASE FOR NEW TRANSFORMER TR-9. INSTALL NEW TRANSFORMER ONTO BASE AND REMOVE UNDERGROUND CONDUIT AND FEEDER CONDUCTORS FROM LOAD BREAK SWITCH #9 TO PRIMARY SIDE OF TRANSFORMER. INSTALL NEW 480V BUS DUCT FROM SECONDARY SIDE OF TRANSFORMER TO NEW MAIN #9 IN NEW 480V SWITCHGEAR. SUPPORT OVERHEAD BUS BRESS FROM STRUCTURE ABOVE.
16. REMOVE CONCRETE BASE FOR NEW TRANSFORMER TR-10. INSTALL NEW TRANSFORMER ONTO BASE AND REMOVE UNDERGROUND CONDUIT AND FEEDER CONDUCTORS FROM LOAD BREAK SWITCH #10 TO PRIMARY SIDE OF TRANSFORMER. INSTALL NEW 480V BUS DUCT FROM SECONDARY SIDE OF TRANSFORMER TO NEW MAIN #10 IN NEW 480V SWITCHGEAR. SUPPORT OVERHEAD BUS BRESS FROM STRUCTURE ABOVE.
17. REMOVE CONCRETE BASE FOR NEW TRANSFORMER TR-11. INSTALL NEW TRANSFORMER ONTO BASE AND REMOVE UNDERGROUND CONDUIT AND FEEDER CONDUCTORS FROM LOAD BREAK SWITCH #11 TO PRIMARY SIDE OF TRANSFORMER. INSTALL NEW 480V BUS DUCT FROM SECONDARY SIDE OF TRANSFORMER TO NEW MAIN #11 IN NEW 480V SWITCHGEAR. SUPPORT OVERHEAD BUS BRESS FROM STRUCTURE ABOVE.
18. REMOVE CONCRETE BASE FOR NEW TRANSFORMER TR-12. INSTALL NEW TRANSFORMER ONTO BASE AND REMOVE UNDERGROUND CONDUIT AND FEEDER CONDUCTORS FROM LOAD BREAK SWITCH #12 TO PRIMARY SIDE OF TRANSFORMER. INSTALL NEW 480V BUS DUCT FROM SECONDARY SIDE OF TRANSFORMER TO NEW MAIN #12 IN NEW 480V SWITCHGEAR. SUPPORT OVERHEAD BUS BRESS FROM STRUCTURE ABOVE.
19. REMOVE CONCRETE BASE FOR NEW TRANSFORMER TR-13. INSTALL NEW TRANSFORMER ONTO BASE AND REMOVE UNDERGROUND CONDUIT AND FEEDER CONDUCTORS FROM LOAD BREAK SWITCH #13 TO PRIMARY SIDE OF TRANSFORMER. INSTALL NEW 480V BUS DUCT FROM SECONDARY SIDE OF TRANSFORMER TO NEW MAIN #13 IN NEW 480V SWITCHGEAR. SUPPORT OVERHEAD BUS BRESS FROM STRUCTURE ABOVE.
20. REMOVE CONCRETE BASE FOR NEW TRANSFORMER TR-14. INSTALL NEW TRANSFORMER ONTO BASE AND REMOVE UNDERGROUND CONDUIT AND FEEDER CONDUCTORS FROM LOAD BREAK SWITCH #14 TO PRIMARY SIDE OF TRANSFORMER. INSTALL NEW 480V BUS DUCT FROM SECONDARY SIDE OF TRANSFORMER TO NEW MAIN #14 IN NEW 480V SWITCHGEAR. SUPPORT OVERHEAD BUS BRESS FROM STRUCTURE ABOVE.
21. REMOVE CONCRETE BASE FOR NEW TRANSFORMER TR-15. INSTALL NEW TRANSFORMER ONTO BASE AND REMOVE UNDERGROUND CONDUIT AND FEEDER CONDUCTORS FROM LOAD BREAK SWITCH #15 TO PRIMARY SIDE OF TRANSFORMER. INSTALL NEW 480V BUS DUCT FROM SECONDARY SIDE OF TRANSFORMER TO NEW MAIN #15 IN NEW 480V SWITCHGEAR. SUPPORT OVERHEAD BUS BRESS FROM STRUCTURE ABOVE.
22. REMOVE CONCRETE BASE FOR NEW TRANSFORMER TR-16. INSTALL NEW TRANSFORMER ONTO BASE AND REMOVE UNDERGROUND CONDUIT AND FEEDER CONDUCTORS FROM LOAD BREAK SWITCH #16 TO PRIMARY SIDE OF TRANSFORMER. INSTALL NEW 480V BUS DUCT FROM SECONDARY SIDE OF TRANSFORMER TO NEW MAIN #16 IN NEW 480V SWITCHGEAR. SUPPORT OVERHEAD BUS BRESS FROM STRUCTURE ABOVE.
23. REMOVE CONCRETE BASE FOR NEW TRANSFORMER TR-17. INSTALL NEW TRANSFORMER ONTO BASE AND REMOVE UNDERGROUND CONDUIT AND FEEDER CONDUCTORS FROM LOAD BREAK SWITCH #17 TO PRIMARY SIDE OF TRANSFORMER. INSTALL NEW 480V BUS DUCT FROM SECONDARY SIDE OF TRANSFORMER TO NEW MAIN #17 IN NEW 480V SWITCHGEAR. SUPPORT OVERHEAD BUS BRESS FROM STRUCTURE ABOVE.
24. REMOVE CONCRETE BASE FOR NEW TRANSFORMER TR-18. INSTALL NEW TRANSFORMER ONTO BASE AND REMOVE UNDERGROUND CONDUIT AND FEEDER CONDUCTORS FROM LOAD BREAK SWITCH #18 TO PRIMARY SIDE OF TRANSFORMER. INSTALL NEW 480V BUS DUCT FROM SECONDARY SIDE OF TRANSFORMER TO NEW MAIN #18 IN NEW 480V SWITCHGEAR. SUPPORT OVERHEAD BUS BRESS FROM STRUCTURE ABOVE.
25. REMOVE CONCRETE BASE FOR NEW TRANSFORMER TR-19. INSTALL NEW TRANSFORMER ONTO BASE AND REMOVE UNDERGROUND CONDUIT AND FEEDER CONDUCTORS FROM LOAD BREAK SWITCH #19 TO PRIMARY SIDE OF TRANSFORMER. INSTALL NEW 480V BUS DUCT FROM SECONDARY SIDE OF TRANSFORMER TO NEW MAIN #19 IN NEW 480V SWITCHGEAR. SUPPORT OVERHEAD BUS BRESS FROM STRUCTURE ABOVE.
26. REMOVE CONCRETE BASE FOR NEW TRANSFORMER TR-20. INSTALL NEW TRANSFORMER ONTO BASE AND REMOVE UNDERGROUND CONDUIT AND FEEDER CONDUCTORS FROM LOAD BREAK SWITCH #20 TO PRIMARY SIDE OF TRANSFORMER. INSTALL NEW 480V BUS DUCT FROM SECONDARY SIDE OF TRANSFORMER TO NEW MAIN #20 IN NEW 480V SWITCHGEAR. SUPPORT OVERHEAD BUS BRESS FROM STRUCTURE ABOVE.
27. REMOVE CONCRETE BASE FOR NEW TRANSFORMER TR-21. INSTALL NEW TRANSFORMER ONTO BASE AND REMOVE UNDERGROUND CONDUIT AND FEEDER CONDUCTORS FROM LOAD BREAK SWITCH #21 TO PRIMARY SIDE OF TRANSFORMER. INSTALL NEW 480V BUS DUCT FROM SECONDARY SIDE OF TRANSFORMER TO NEW MAIN #21 IN NEW 480V SWITCHGEAR. SUPPORT OVERHEAD BUS BRESS FROM STRUCTURE ABOVE.
28. REMOVE CONCRETE BASE FOR NEW TRANSFORMER TR-22. INSTALL NEW TRANSFORMER ONTO BASE AND REMOVE UNDERGROUND CONDUIT AND FEEDER CONDUCTORS FROM LOAD BREAK SWITCH #22 TO PRIMARY SIDE OF TRANSFORMER. INSTALL NEW 480V BUS DUCT FROM SECONDARY SIDE OF TRANSFORMER TO NEW MAIN #22 IN NEW 480V SWITCHGEAR. SUPPORT OVERHEAD BUS BRESS FROM STRUCTURE ABOVE.
29. REMOVE CONCRETE BASE FOR NEW TRANSFORMER TR-23. INSTALL NEW TRANSFORMER ONTO BASE AND REMOVE UNDERGROUND CONDUIT AND FEEDER CONDUCTORS FROM LOAD BREAK SWITCH #23 TO PRIMARY SIDE OF TRANSFORMER. INSTALL NEW 480V BUS DUCT FROM SECONDARY SIDE OF TRANSFORMER TO NEW MAIN #23 IN NEW 480V SWITCHGEAR. SUPPORT OVERHEAD BUS BRESS FROM STRUCTURE ABOVE.



ELECTRICAL COURTYARD - DEMOLITION PLAN

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



DESIGNED CASBORNH ASBERNETHY	CHECKED CASBORNH
DATE 08.08.08	COMM. NO. 0807
ED1-R2	

ELECTRICAL DEMOLITION PLAN

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**ELECTRICAL COURTYARD EXPANSION
STATE OFFICE BUILDINGS 5, 6, AND 7
WEST VIRGINIA STATE CAPITAL COMPLEX
Charleston, West Virginia**

CONSTRUCTION DOCUMENTS

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REVISIONS NO.	DATE	DESCRIPTION
2/3/09		GENERAL REVISION - ADDED NEW 480V VOLT DISTRIBUTION SWITCHGEAR REPLACEMENT
2/11/09		GENERAL REVISION - REVISED MANHOLE AND ADDED DUCTBANKS, REVISED KEYED NOTES (ADDENDUM#4)