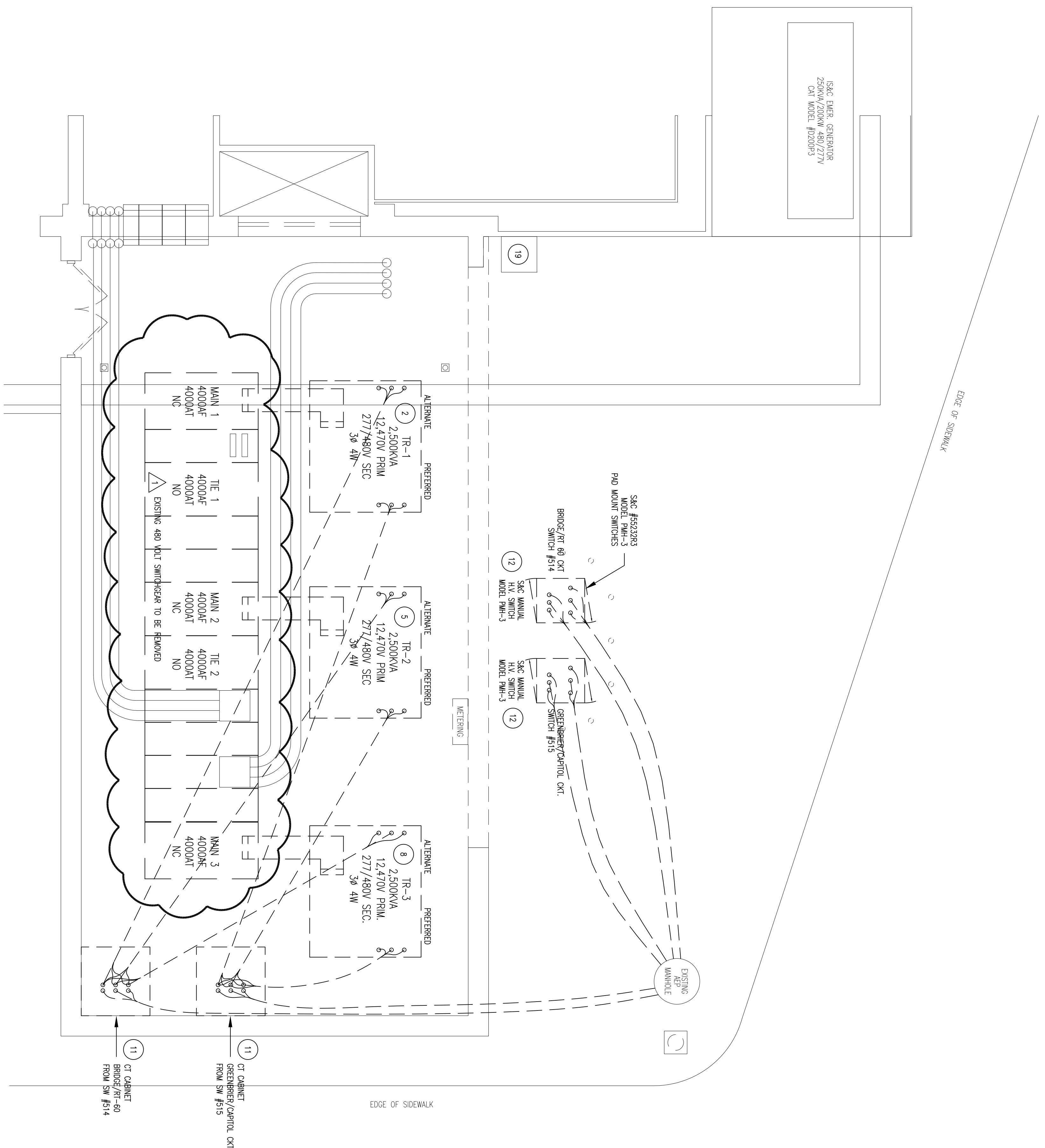


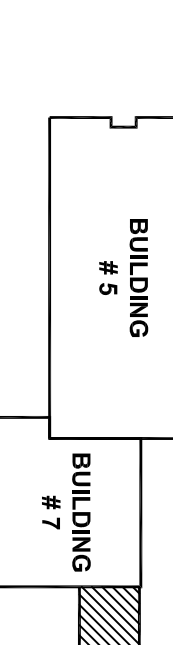
ELECTRICAL COURTYARD - DEMOLITION PLAN

SCALE : 3/4" = 1'-0"



- ### PRE-CONSTRUCTION NOTES
1. THE FOLLOWING SEQUENCE IS A GUIDE TO ASSIST THE NEW INSULATION AND REMOVAL OF EXISTING EQUIPMENT FOR CONSTRUCTION OF THE ENCLOSED ELECTRICAL COURTYARD. THE CONTRACTOR MAY REQUEST OR DERIVE FROM THIS SEQUENCE AS NEEDED IN ORDER TO START CONSTRUCTION, WITH ALL ERRORS AND OMISSIONS BEING THE RESPONSIBILITY OF THE CONTRACTOR AND THE OWNER.
 2. PRIOR TO ANY WORK, VERIFY THE FACILITY'S TWO (2) POWER BUSSES, BUSES #10 (ALTERNATE) AND BUSES #11 (ALTERNATE), SWITCH #14 (ALTERNATE) AND BUSES #12 (ALTERNATE) ARE THE INTENDED BUSSES FOR THE ENCLOSED ELECTRICAL COURTYARD. VERIFY THE LOCATION AND IDENTIFICATION OF ALL BUSES AND SWITCHES WITH THE UTILITY COMPANY AND THE OWNER.
 3. THE FACILITY MUST REMAIN IN OPERATION THROUGHOUT THE DURATION OF DEMOLITION AND NEW CONSTRUCTION, WHICH OCCURS SIMULTANEOUSLY. ANY POWER OUTAGE MUST BE KEPT TO AN ABSOLUTE MINIMUM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING EQUIPMENT AND CONDUITS. ALL PHASES OF CONSTRUCTION ACCORDING TO THE SEQUENCE SHALL BE PRE-APPROVED BY THE OWNER AND COORDINATED WITH THE UTILITY COMPANY. SUBMIT A QUALIFIED FACTORY SERVICE TECHNICIAN TO FIELD MEASURE THE EXISTING BUS DUCT NEW BUS TRANSMISSION TO THE GRID TO THE REMAINING BUS FROM THE 480V DISTRIBUTION GEAR.
 4. THE CONTRACTOR SHALL SUBMIT A PROPOSED 480 VOLT DISTRIBUTION SWITCHGEAR SEQUENCE OF DEMOLITION AND INSTALLATION TO THE ARCHITECT AND THE OWNER FOR REVIEW AT THE TIME OF SUBMITTAL.
 5. SCHEDULE A QUALIFIED FACTORY SERVICE TECHNICIAN TO FIELD MEASURE THE EXISTING BUS DUCT NEW BUS TRANSMISSION TO THE GRID TO THE REMAINING BUS FROM THE 480V DISTRIBUTION GEAR.

- ### KEYED CONSTRUCTION NOTES
1. INSTALL NEW SWITCHGEAR AND CONCRETE PAD COMPLETE WITH UNDERGROUND CONDUITS STUBBED INTO EXISTING TRANSFORMER TR-1, TR-2, TR-3 AND TR-4. VERIFY THE LOCATION AND IDENTIFICATION OF ALL BUSES AND SWITCHES WITH THE UTILITY COMPANY AND THE OWNER. COORDINATE ALL WORK WITH THE OWNER AND UTILITY COMPANY.
 2. REMOVE EXISTING TRANSFORMER TR-1, TR-2, TR-3 AND TR-4. REMOVE EXISTING TRANSFORMER TR-1 ALONE WITH ITS ASSOCIATED OVERHEAD BUS DUCT CONCRETE PAD AND TWO SETS OF FEEDERS. BUS DUCT TO REMAIN BORED IN PLACE WITHIN THE 480V DISTRIBUTION GEAR AT MAIN #1, BUT REMOVED ELSEWHERE AS INDICATED IN THE CONSTRUCTION NOTE #4 ABOVE.
 3. PROVIDE CONCRETE BASE FOR NEW TRANSFORMER TR-1. INSTALL NEW TRANSFORMER ONTO BASE AND PROVIDE NEW TRANSFORMER TR-1. REMOVE EXISTING TRANSFORMER TR-1 ALONE WITH ITS ASSOCIATED OVERHEAD BUS DUCT CONCRETE PAD AND TWO SETS OF FEEDERS. BUS DUCT TO REMAIN BORED IN PLACE WITHIN THE 480V DISTRIBUTION GEAR AT MAIN #1, BUT REMOVED ELSEWHERE AS INDICATED IN THE CONSTRUCTION NOTE #4 ABOVE.
 4. VERIFY ALL WORK AND CONNECTIONS ASSOCIATED WITH NEW TRANSFORMER TR-1 ARE COMPLETE. OPEN THE-BREAK #1, CLOSE MAIN BREAKER #1, ENERGIZE EQUIPMENT AND PLACE ONLINE.
 5. OPEN MAIN BREAKER #2 IN EXISTING 480V DISTRIBUTION GEAR. CLOSE EITHER THE-BREAKER #1 OR THE-BREAKER #2. THE EXTERIOR SECTION OF THE 480V GEAR LAY EITHER BE POWERED FROM THE NEW TRANSFORMER TR-1 OR THE EXISTING TRANSFORMER TR-3. CONDUCTORS CHOICE VERIFY WITH OWNER AND TWO SETS OF FEEDERS. BUS DUCT TO REMAIN BORED IN PLACE WITHIN THE 480V DISTRIBUTION GEAR AT MAIN #2, BUT REMOVED ELSEWHERE AS INDICATED IN THE CONSTRUCTION NOTE #4 ABOVE.
 6. PROVIDE CONCRETE BASE FOR NEW TRANSFORMER TR-2. INSTALL NEW TRANSFORMER ONTO BASE AND PROVIDE NEW TRANSFORMER TR-2. REMOVE EXISTING TRANSFORMER TR-2 ALONE WITH ITS ASSOCIATED OVERHEAD BUS DUCT CONCRETE PAD AND TWO SETS OF FEEDERS. BUS DUCT TO REMAIN BORED IN PLACE WITHIN THE 480V DISTRIBUTION GEAR AT MAIN #2, BUT REMOVED ELSEWHERE AS INDICATED IN THE CONSTRUCTION NOTE #4 ABOVE.
 7. VERIFY ALL WORK AND CONNECTIONS ASSOCIATED WITH NEW TRANSFORMER TR-2 ARE COMPLETE. OPEN THE-APPROPRIATE THE-BREAK SWITCH, CLOSE MAIN BREAKER #2, ENERGIZE EQUIPMENT AND PLACE ONLINE.
 8. OPEN MAIN BREAKER #3 IN EXISTING 480V DISTRIBUTION GEAR. CLOSE THE-BREAKER #2 BETWEEN MAIN BREAKER #2 AND MAIN BREAKER #3 REMOVE EXISTING TRANSFORMER TR-3 ALONE WITH ITS ASSOCIATED OVERHEAD BUS DUCT CONCRETE PAD AND TWO SETS OF FEEDERS. BUS DUCT TO REMAIN BORED IN PLACE WITHIN THE 480V DISTRIBUTION GEAR AT MAIN #3, BUT REMOVED ELSEWHERE AS INDICATED IN THE CONSTRUCTION NOTE #4 ABOVE.
 9. PROVIDE CONCRETE BASE FOR NEW TRANSFORMER TR-3. INSTALL NEW TRANSFORMER ONTO BASE AND PROVIDE NEW TRANSFORMER TR-3. REMOVE EXISTING TRANSFORMER TR-3 ALONE WITH ITS ASSOCIATED OVERHEAD BUS DUCT CONCRETE PAD AND TWO SETS OF FEEDERS. BUS DUCT TO REMAIN BORED IN PLACE WITHIN THE 480V DISTRIBUTION GEAR AT MAIN #3, BUT REMOVED ELSEWHERE AS INDICATED IN THE CONSTRUCTION NOTE #4 ABOVE.
 10. VERIFY ALL WORK AND CONNECTIONS ASSOCIATED WITH NEW TRANSFORMER TR-3 ARE COMPLETE. OPEN THE-BREAKER #2, CLOSE MAIN BREAKER #2, ENERGIZE EQUIPMENT AND PLACE ONLINE.
 11. REMOVE THE TWO EXISTING CT CABINETS, CONCRETE PAD, AND ALL ASSOCIATED WIRING AND UNDERGROUND CONDUITS.
 12. REMOVE THE TWO EXISTING SAC DISCONNECT SWITCHES AND ALL ASSOCIATED WIRING AND UNDERGROUND CONDUITS. SALVAGE SWITCHES AND RETURN TO OWNER.
 13. FOUR NEW CONCRETE FLOOR IN COURTYARD. REFER TO ARCHITECTURAL PLANS FOR INFORMATION.
 14. REMOVE EXISTING WALL MOUNTED EXHAUST FAN. EXTERIOR CIRCUITING TO ROOF AND PROVIDE ROOF SPACE. SALVAGE CIRCUIT #11. BREAKER IN PANEL-1E ON LOADING DOCK AND REMOVE A NEW 200A BREAKER IN ITS PLACE TO FEED NEW LIGHTING. INSTALL CIRCUIT BREAKER. BLANKS IN UNUSED SPACES. CONDUIT MAY BE SURFACE MOUNTED WITHIN NEW SWITCHGEAR ROOM.
 15. PROVIDE NEW 20A 1P CIRCUIT BREAKER IN PANEL-1E ON LOADING DOCK TO FEED NEW GFI RECEPTACLES. CONDUIT AND BOXES SHALL BE SURFACE MOUNTED WITHIN NEW SWITCHGEAR ROOM.
 16. 4" RIGID PVC CONDUIT WITH (3) 1/2" (200A) 15KV COPPER WIRE COMPACT STAMPED CONDUCTORS. E-F-1 ON ROOF 3Ø 480V/270V WITH COMBINATION MOUNTED STARTER/FEED DISCONNECT SWITCH AND CONDUCTOR. CIRCUIT TO EXISTING PANEL-F1 CIRCUIT #10, 15A 3Ø SHUNT CIRCUIT BREAKER. OVERHEAD BUS RISES FROM STRUCTURE ABOVE.
 17. PROPOSED BLOCK MOUNTED DAMPER WITH DISCONNECT AND CONDUITS PROVIDED AND INSTALLED BY OWNER'S CONTRACTOR.
 18. REMOVE EXISTING WALL MOUNTED EXHAUST FAN. EXTERIOR CIRCUITING TO ROOF AND PROVIDE ROOF SPACE. SALVAGE CIRCUIT #11. BREAKER IN PANEL-1E ON LOADING DOCK AND REMOVE A NEW 200A BREAKER IN ITS PLACE TO FEED NEW LIGHTING. INSTALL CIRCUIT BREAKER. BLANKS IN UNUSED SPACES. CONDUIT MAY BE SURFACE MOUNTED WITHIN NEW SWITCHGEAR ROOM.
 19. (2) 5" RIGID PVC CONDUITS ENCASED IN CONCRETE WITH (3) #799 KVM (600A) 15KV COPPER WIRE COMPACT STAMPED CONDUCTORS. PROVIDE ONE SPACE 3 RIGID PVC CONDUIT PER EACH MAIN FEEDER FROM MAIN #1.
 20. PROVIDE CONDUIT AND WIRING AS REQUIRED BY UTILITY COMPANY. COORDINATE LOADINGS WITH UTILITY COMPANY.
 21. PROVIDE NEW FIVE ALARM MANUAL PULL STATION AND COMBINATION HORN/STROBE DEVICE AT EXISTING TRANSFORMER TR-1, TR-2, TR-3 AND TR-4. PROVIDE NEW FIVE ALARM MANUAL PULL STATION AND COMBINATION HORN/STROBE DEVICE AT EXISTING TRANSFORMER TR-1, TR-2, TR-3 AND TR-4. PROVIDE NEW FIVE ALARM MANUAL PULL STATION AND COMBINATION HORN/STROBE DEVICE AT EXISTING TRANSFORMER TR-1, TR-2, TR-3 AND TR-4. PROVIDE NEW FIVE ALARM MANUAL PULL STATION AND COMBINATION HORN/STROBE DEVICE AT EXISTING TRANSFORMER TR-1, TR-2, TR-3 AND TR-4. PROVIDE NEW FIVE ALARM MANUAL PULL STATION AND COMBINATION HORN/STROBE DEVICE AT EXISTING TRANSFORMER TR-1, TR-2, TR-3 AND TR-4.
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 26. PROVIDE AN SHARDED RED PLASTIC PLaque ON THE FRONT OF EACH EXHAUST MEDIA VOLTAGE BREAKER IN THE 480 VOLT SWITCHGEAR ROOM TO MANUALLY CLOSE THE SWITCH. ONCE THE TRANSFORMER IS ENERGIZED, THE SECONDARY MAIN BREAKER MAY BE CLOSED. PLaque WRITING SHALL BE MINIMUM 1" HIGH TEXT AND PROVIDED BY THE ARCHITECT DURING THE SHOP DRAWING SUBMITTAL. CIRCUIT BREAKER APPROXIMATELY.



KEY PLAN

NOT TO SCALE

REVISIONS NO.	DATE	DESCRIPTION
2/3/09		GENERAL REVISION - ADDED NEW 480V VOLT DISTRIBUTION SWITCHGEAR REPLACEMENT

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CONSTRUCTION DOCUMENTS

ELECTRICAL DEMOLITION PLAN

DRAWN CASOPRH ABERNETHY	CHECKED CASOPRH
DATE 08.08.08	COMM. NO. 0807

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