

ELECTRICAL SYMBOLS

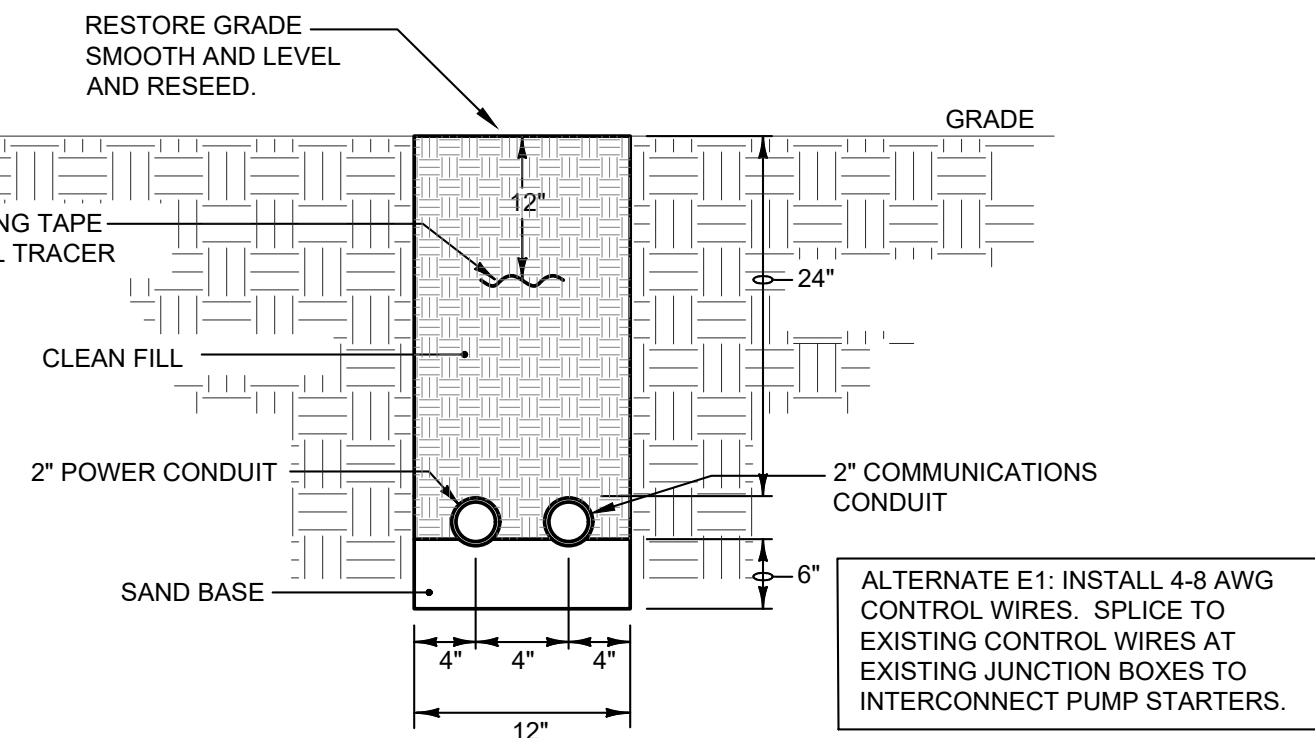
- HEAVY LINE WEIGHT INDICATES THIS EQUIPMENT IS NEW OR RELOCATED EXISTING UNLESS NOTED OTHERWISE
- LIGHT LINE WEIGHT INDICATES THIS EQUIPMENT IS EXISTING TO REMAIN, UNLESS NOTED OTHERWISE
- HEAVY DASHED LINE WEIGHT INDICATES EXISTING EQUIPMENT IS TO BE REMOVED UNLESS NOTED OTHERWISE
- ONE-LINE DIAGRAM REPRESENTATION OF A FUSED SWITCH - "60AS" INDICATES 60 AMPERE FUSIBLE SWITCH RATING, "50AF" INDICATES 50 AMPERE FUSE
- ONE-LINE DIAGRAM REPRESENTATION OF A MOLDED CASE CIRCUIT BREAKER - "60/3" INDICATES 60 AMPERE CIRCUIT BREAKER RATING AND POLES
- ONE-LINE DIAGRAM REPRESENTATION OF A TRANSFORMER, SIZE AS NOTED
- ONE-LINE DIAGRAM REPRESENTATION OF A METER
- AS/AF/AT AMPERE SWITCH/AMPERE FUSE/AMPERE TRIP
- MLO MAIN LUG ONLY
- MCB MAIN CIRCUIT BREAKER

ELECTRICAL GENERAL NOTES

- A. THE ELECTRICAL INSTALLATION MUST MEET OR EXCEED THE MINIMUM REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE AND ANY APPLICABLE STATE OR LOCAL CODES, AS INTERPRETED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- B. ALL EXISTING UNUSED ELECTRICAL WIRE, CONDUIT, AND EQUIPMENT SHALL BE REMOVED.
- C. ALL WIRE SHALL BE 600 VOLT THHN-THWN, 90 DEGREE INSULATED AND SHALL BE COPPER. ALL WIRE FOR COMMUNICATIONS SYSTEMS SHALL BE COPPER.
- D. ALL ELECTRICAL EQUIPMENT SHALL BE U.L. LISTED OR LABELED.

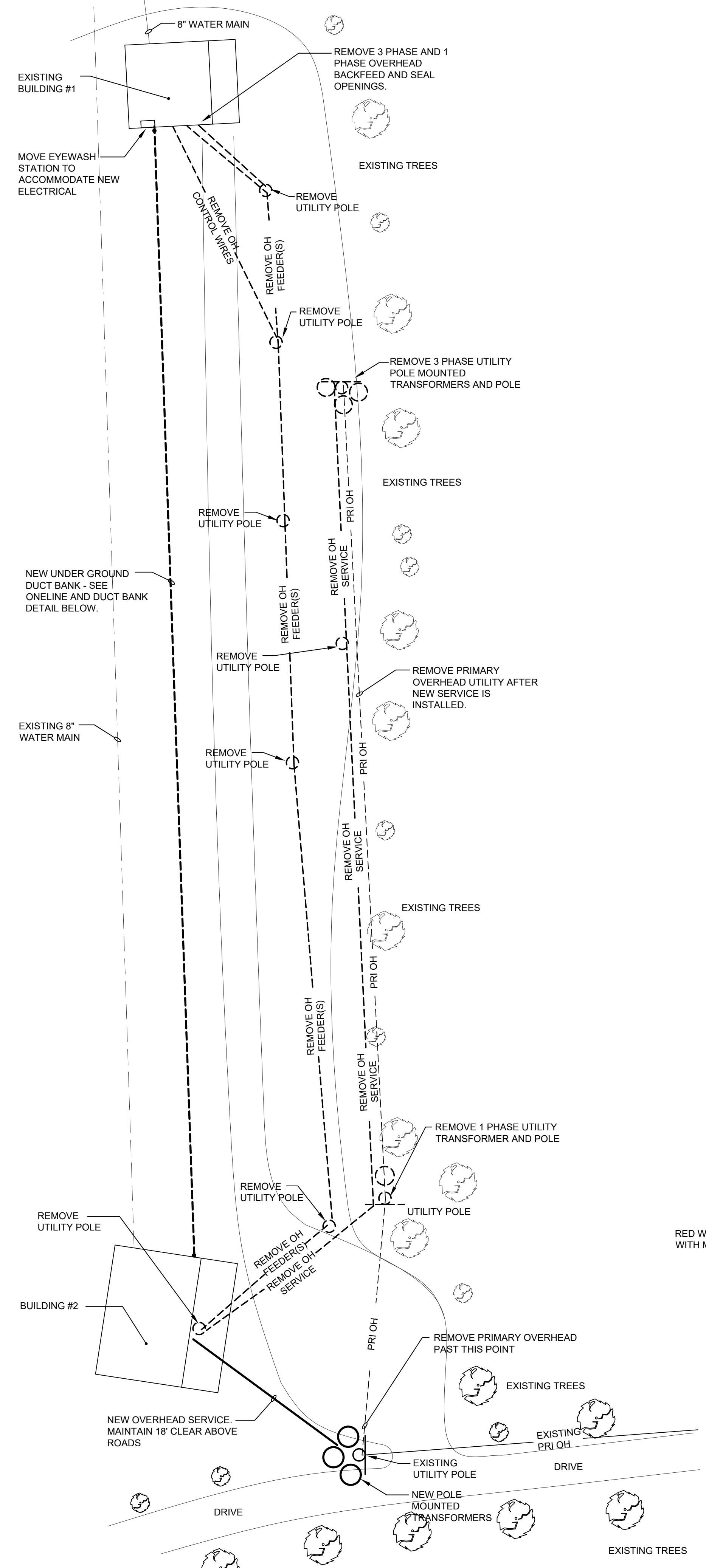
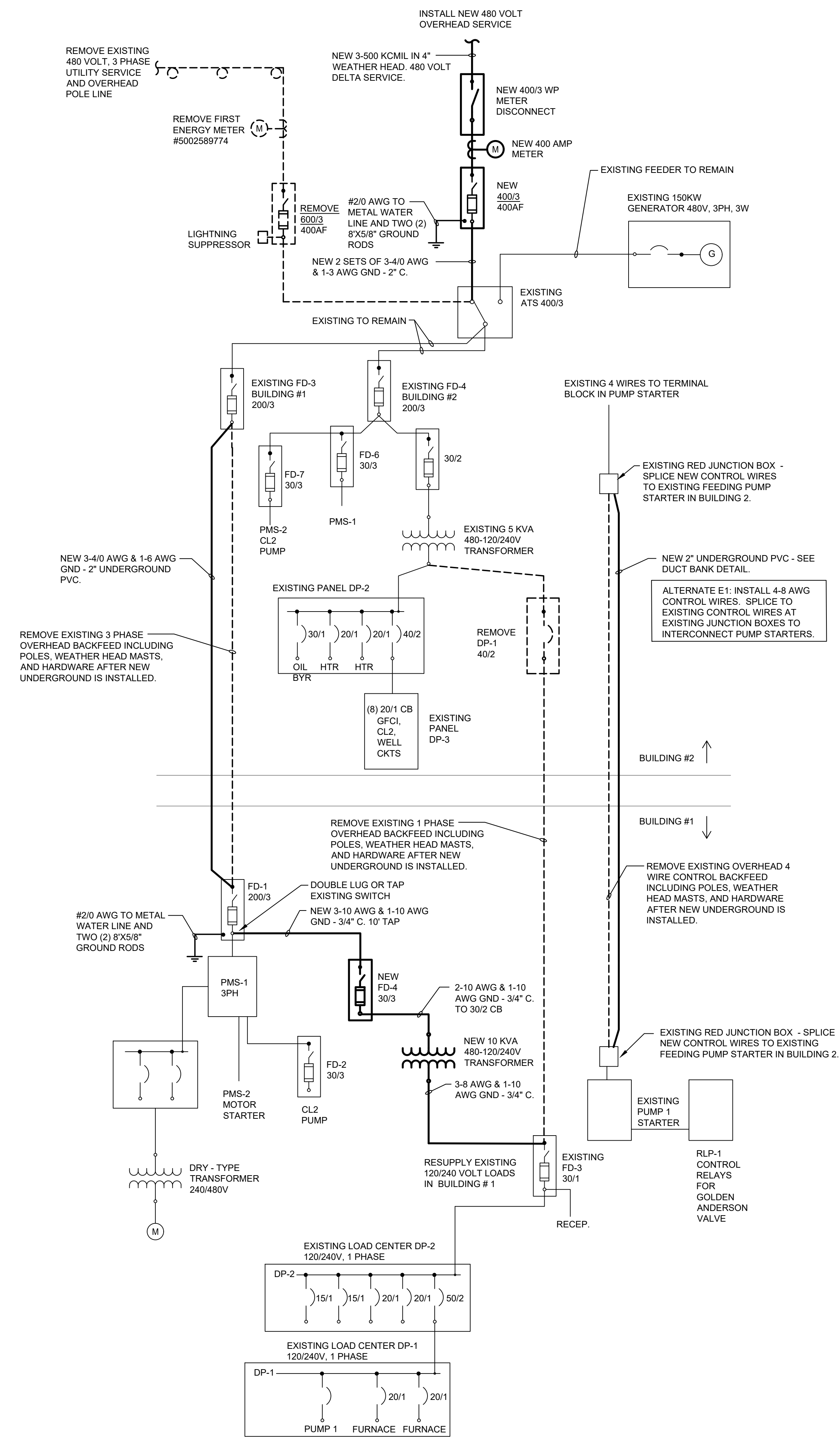
ELECTRICAL DEMOLITION NOTES

- A. DEMOLITION INDICATED IS SHOWN IN GENERAL TO INDICATE THE EXTENT OF DEMOLITION AND IS NOT TO BE CONSIDERED AS A RECORD DRAWING OF EXISTING CONDITIONS. ACCORDINGLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE DEMOLITION OF THE ELECTRICAL WORK INDICATED INCLUDING ANY CONCEALED ITEMS OR ANY EXISTING ITEMS NOT SHOWN ON THE CONTRACT DOCUMENTS. BEFORE DEMOLITION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR APPROPRIATE FIELD-TESTING TO DETERMINE THE NATURE OF THE EXISTING ELECTRICAL WORK TO BE DEMOLISHED TO PROTECT EXISTING WORK REMAINING IN PLACE AND TO PROTECT THE PUBLIC.
- B. REPAIR AND RESTORE TO ORIGINAL SOUND CONDITION ALL ITEMS OR PORTIONS OF ELECTRICAL WORK, WHICH ARE NOT NOTED TO BE DEMOLISHED, BUT ARE DAMAGED BY WORK UNDER THIS CONTRACT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND RETAIN POWER TO ALL EXISTING EQUIPMENT THAT SHALL REMAIN. RECONNECT ANY EQUIPMENT BEING DISTURBED BY THIS RENOVATION, YET REQUIRED FOR CONTINUED SERVICE TO SAME OR NEAREST AVAILABLE PANEL.
- C. WHERE WORK BY THE GENERAL CONTRACTOR (WALL REMOVAL, NEW OR RELOCATED WALL OPENING, ETC.) RESULTS IN THE REMOVAL, RELOCATION, OR REFEEDING OF ELECTRICAL DEVICES OR LUMINAIRES, THE ELECTRICAL CONTRACTOR SHALL DISCONNECT OR RECONNECT ALL ACTIVE DEVICES REMAINING ON THAT CIRCUIT SYSTEM.
- D. PHASE CONSTRUCTION TO INSTALL ALL NEW SERVICES AND FEEDS PRIOR TO DEMOLITION TO AVOID A LONG POWER OUTAGE.
- E. ARRANGE TIMING OF SHUTDOWN PERIODS OF ALL IN-SERVICE PANELS WITH THE OWNER'S REPRESENTATIVE. DO NOT SHUTDOWN ANY SERVICE WITHOUT PRIOR WRITTEN APPROVAL.
- F. ELECTRICAL CONTRACTOR SHALL COMPLETELY REMOVE ALL EXISTING ELECTRICAL EQUIPMENT AND/OR DEVICES IN THE SPACE AS REQUIRED TO ACCOMMODATE THE NEW CONSTRUCTION.



UNDERGROUND CONDUIT
NO SCALE

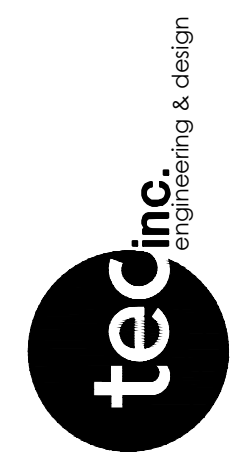
ONE LINE RECONNECTION DIAGRAM
NO SCALE



SITE PLAN
SCALE: 1" = 20'-0"

REV. NO.	DESCRIPTION	DATE	BY
08/27/24	ISSUED FOR CONST.	TGP	

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**ELECTRICAL SITE
PLAN, SYMBOL LEGEND,
ONLINE DIAGRAM AND NOTES**

DATE: 01-19-2024
DRAWN: MG
CHECKED: TGP
APPROVED: TGP
TEC PROJECT: 23365
SHEET NO.

E1

SECTION 260000 - ELECTRICAL SPECIFICATIONS

PART 1 GENERAL

- 1.1 PROVIDE ALL LABOR AND MATERIAL FOR ALL SYSTEMS AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN, OR REASONABLY IMPLIED, TESTED AND READY FOR USE BY THE OWNER.
- 1.2 REFER TO THE CIVIL AND OTHER CONTRACT DOCUMENTS FOR THE PROJECT. ELECTRICAL WORK AND/OR COORDINATION ITEMS INDICATED ON THESE DOCUMENTS ARE A PART OF THE ELECTRICAL SCOPE OF WORK.
- 1.3 DISCREPANCIES BETWEEN EACH DIVISION'S DOCUMENTS OR BETWEEN THE DOCUMENTS AND THE EXISTING BUILDING OR SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE BEFORE SUBMITTING A BID.
- 1.4 THE ELECTRICAL SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EQUIPMENT OR SYSTEMS:
 - A. SERVICE UPGRADE
 - B. UNDERGROUND FEEDER AND WIRING RECONNECTIONS
 - C. DUCT BANK EXCAVATION AND RESTORATION
 - D. TRANSFORMERS AND DISCONNECTS
 - E. PROJECT START UP, SERVICE CHARGES, AND COORDINATION WITH UTILITY COMPANY
 - F. GROUNDING AND GROUNDING SYSTEMS
 - G. DEMOLITION OF EXISTING EQUIPMENT, DEVICES AND WIRING.
- 1.5 SUBMITTALS, OR SHOP DRAWINGS ARE REQUIRED FOR THE FOLLOWING EQUIPMENT OR SYSTEMS:
 - A. UTILITY DRAWINGS
 - B. TRANSFORMERS AND DISCONNECTS
 - C. PROVIDE SUBMITTALS ONLY FOR EQUIPMENT LISTED ABOVE. ALL SUBMITTALS MUST BE REVIEWED FOR PROPER CONTENT AND ACCURACY BY THE CONTRACTOR BEFORE SUBMISSION TO THE ENGINEER.
 - D. SUBMITTALS SHALL BE REVIEWED ONLY FOR GENERAL COMPLIANCE AND NOT FOR DIMENSIONS, QUANTITIES, ETC. THE SUBMITTALS THAT ARE RETURNED SHALL BE USED FOR PROCUREMENT. THE RESPONSIBILITY OF CORRECT PROCUREMENT REMAINS SOLELY WITH THE CONTRACTOR. THE SUBMITTAL REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS OR OMISSIONS AND DEVIATIONS FROM THE CONTRACT REQUIREMENTS. ELECTRONIC COPIES ARE REQUIRED. REFER TO DIVISION 1 FOR EXACT QUANTITIES AND OTHER SUBMITTAL REQUIREMENTS.
- 1.6 RECORD DRAWINGS AND OPERATION AND MAINTENANCE MANUALS ARE REQUIRED TO BE SUBMITTED TO THE OWNER'S REPRESENTATIVE AND APPROVED BEFORE A FINAL CONTRACT PAY REQUEST. RECORD DRAWINGS INCLUDE A CLEAN SET OF CONTRACT DRAWINGS IDENTIFYING CHANGES OR DEVIATIONS MADE TO THE ORIGINAL DESIGN AND MUST INCLUDE FEEDER ROUTINGS, [OPERATION AND MAINTENANCE MANUALS (3 SETS) SHALL INCLUDE A COPY OF ALL APPROVED SUBMITTALS, EQUIPMENT MAINTENANCE INSTRUCTIONS, TEST REPORTS, INSPECTION REPORTS, EQUIPMENT WARRANTIES, AND THE CONTRACTOR'S ONE-YEAR GUARANTEE ON EQUIPMENT AND LABOR]. REFER TO DIVISION 1 FOR EXACT QUANTITIES AND OTHER SUBMITTAL REQUIREMENTS.
- 1.7 DEMOLITION OF EXISTING ELECTRICAL EQUIPMENT IS REQUIRED, AS FOLLOWS:
 - A. DEMOLITION INDICATED ON THE CONTRACT DOCUMENTS IS SHOWN IN GENERAL TO INDICATE THE EXTENT OF DEMOLITION AND IS NOT TO BE CONSIDERED AS A RECORD DRAWING OF EXISTING CONDITIONS. ACCORDINGLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE DEMOLITION OF THE ELECTRICAL WORK INDICATED INCLUDING ANY CONCEALED ITEMS OR ANY EXISTING ITEMS NOT SHOWN ON THE CONTRACT DOCUMENTS. BEFORE DEMOLITION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR APPROPRIATE FIELD-TESTING TO DETERMINE THE NATURE OF THE EXISTING ELECTRICAL WORK TO BE DEMOLISHED TO PROTECT EXISTING WORK REMAINING IN PLACE AND TO PROTECT THE PUBLIC.
 - B. REPAIR AND RESTORE TO ORIGINAL SOUND CONDITION ALL ITEMS OR PORTIONS OF ELECTRICAL WORK, WHICH ARE NOT NOTED TO BE DEMOLISHED, BUT ARE DAMAGED BY WORK UNDER THIS CONTRACT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND RETAIN POWER TO ALL EXISTING EQUIPMENT THAT SHALL REMAIN. RECONNECT ANY EQUIPMENT BEING DISTURBED BY THIS RENOVATION, YET REQUIRED FOR CONTINUED SERVICE TO SAME OR NEAREST AVAILABLE PANEL.
 - C. DO NOT PROCEED WITH DEMOLITION WITHOUT WRITTEN AUTHORITY. PROCEED WITH DEMOLITION IN A SYSTEMATIC MANNER AND COORDINATE WITH ALL TRADES INVOLVED. COORDINATE AND SEQUENCE DEMOLITION SO AS NOT TO CAUSE A SHUTDOWN OF OPERATION OF SURROUNDING AREAS.
 - D. DISCONNECT OR SHUT OFF SERVICE TO AREAS WHERE ELECTRICAL WORK IS TO BE REMOVED. REMOVE ALL ELECTRICAL LUMINARIES, EQUIPMENT, AND RELATED SWITCHES, OUTLETS, CONDUIT, AND WIRING, WHICH ARE NOT A PART OF THE FINAL PROJECT IN ALL AREAS WHERE WORK OF THIS CONTRACT IS TO BE PERFORMED. ALL REMOVED EQUIPMENT SHALL BE DISPOSED OF BY THIS CONTRACTOR UNLESS OTHERWISE DIRECTED BY THE OWNER'S REPRESENTATIVE. ABANDONED CONDUIT SHALL BE REMOVED, ALONG WITH WIRE NO LONGER IN USE FROM DEVICE OR EQUIPMENT LOCATION BACK TO PANEL.
 - E. SALVAGEABLE ITEMS AND DISPOSAL REQUIREMENTS ARE AS FOLLOWS:
 - 1. ITEMS OF SALVAGEABLE VALUE TO THE OWNER SHALL BE REMOVED AND PROTECTED BY THE CONTRACTOR AND TURNED OVER TO THE OWNER AS DIRECTED.
 - 2. ALL REMOVED EQUIPMENT SHALL BE DISPOSED OF BY THIS CONTRACTOR UNLESS DIRECTED TO DO OTHERWISE BY THE OWNER'S REPRESENTATIVE. DISPOSAL RESPONSIBILITIES INCLUDE:
 - F. ARRANGE ITEMS OF SHUTDOWN PERIODS OF ALL IN-SERVICE PANELS WITH THE OWNER'S REPRESENTATIVE. DO NOT SHUTDOWN ANY SERVICE WITHOUT PRIOR WRITTEN APPROVAL.
- 1.8 OBTAIN AND PAY FOR LOCAL PERMITS, LICENSES, AND INSPECTION FEES NECESSARY FOR THE WORK. PERMANENT AND TEMPORARY UTILITY SERVICE INSTALLATION CHARGES ARE NOT INCLUDED IN THE BASE-BID WORK; SUCH CHARGES ARE TO BE INCLUDED BY THE BIDDING CONTRACTOR AS AN ALLOWANCE OF \$25,000 IN THE CONTRACT. THE UNUSED PORTION OF THIS ALLOWANCE SHALL BE RETURNED TO THE OWNER AT THE COMPLETION OF THE PROJECT. THIS CONTRACTOR IS RESPONSIBLE FOR THE PRIMARY CONTACTS AND SERVICE UPGRADE COORDINATION WITH UTILITY COMPANIES, AND FOR THE ARRANGEMENT OF WORK ORDERS.
- 1.9 SUBMISSION OF A BID ASSUMES KNOWLEDGE OF ALL DOCUMENTS AVAILABLE RELATED TO THE WORK, AS WELL AS EXISTING CONDITIONS MADE AVAILABLE FOR REVIEW AND INSPECTION DURING THE BIDDING PERIOD. THIS CONTRACTOR SHALL INFORM THE OWNER'S REPRESENTATIVE OF ANY UNKNOWN AND/OR CONCEALED CONDITIONS AFFECTING THE NEW WORK, AS THEY ARE DISCOVERED.
- 1.10 WHEREVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN: FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- 1.11 THE ELECTRIC SERVICE, THE EXTENSION OF THE EXISTING ELECTRICAL DISTRIBUTION SYSTEM AND ALL NON-CURRENT CARRYING METAL PARTS OF THE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, AND ALL OTHER APPLICABLE CODES AND STANDARDS. ALL BRANCH CIRCUITS AND FEEDERS SHALL BE GROUNDED BY MEANS OF AN INSULATED GROUNDING CONDUCTOR INSTALLED WITHIN EACH RACEWAY. THE ENTIRE GROUNDING SYSTEM SHALL BE TESTED FOR CONTINUITY AT THE COMPLETION OF THE WORK.
- 1.12 THE NEW MATERIAL AND LABOR SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE ACCEPTANCE BY THE OWNERS' REPRESENTATIVE. NOTE THAT CERTAIN SPECIFIED ITEMS OF EQUIPMENT MAY CARRY A LONGER PERIOD OF WARRANTY.

1.13 PROVIDE A PERMANENT NAMEPLATE OR PLAQUE TO IDENTIFY THE MAXIMUM FAULT CURRENT AMPERES AVAILABLE AT THE MAIN SERVICE DISCONNECTING MEANS, IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE ARTICLE 110.

PART 2 PRODUCTS

- 2.1 ALL MATERIAL, EQUIPMENT INSTALLATION AND LABOR SHALL BE IN ACCORDANCE WITH THE LATEST APPLICABLE NATIONAL, STATE AND LOCAL CODES AND NFPA PUBLICATIONS, AS INTERPRETED BY THE AUTHORITY HAVING JURISDICTION. THIS CONTRACTOR MUST ADHERE TO PROPER INSTALLATION TECHNIQUES IN ACCORDANCE WITH INDUSTRY STANDARDS AS DEFINED BY ANSI AND NECA. IN ADDITION, OSHA REQUIREMENTS AND ANY SITE-SPECIFIC SAFETY STANDARDS SHALL BE FOLLOWED FOR SAFETY OF PERSONNEL ON SITE. NEW EQUIPMENT SHALL BE UL AND/OR CSA LISTED.
- 2.2 ALL WIRING SHALL BE COPPER, 90 DEGREE C. RATED, TYPE THHN, THWN OR XHHW, WITH 600-VOLT INSULATION UNLESS INDICATED OTHERWISE ON THE DRAWINGS. THE MINIMUM WIRE SIZE IS #12 FOR 120- AND 277-VOLT BRANCH CIRCUITS; #10 SHALL BE USED FOR CIRCUIT LENGTHS GREATER THAN 150 FEET.
 - A. COLOR CODE BRANCH CIRCUIT AND FEEDER CONDUCTORS AS FOLLOWS:
 - 1. 120/240 VOLT, 1 PHASE, 3 WIRE SYSTEM
 - A. PHASE A-BLACK
 - B. PHASE B-RED
 - C. NEUTRAL-WHITE
 - D. GROUND-GREEN
 - 2. 480 VOLT, 3 PHASE, 3 WIRE SYSTEM
 - A. PHASE A-BROWN
 - B. PHASE B-ORANGE
 - C. PHASE C-YELLOW
 - D. GROUND-GREEN
 - 3. IN ADDITION TO THESE REQUIREMENTS, ALSO PROVIDE COLOR CODING OF CONDUCTORS AT ALL JUNCTION OR PULLBOXES.
- 2.3 ALL INTERIOR WIRING SHALL BE INSTALLED IN EMT WHERE NOT SUBJECT TO PHYSICAL DAMAGE AND AS PERMITTED BY THE NATIONAL ELECTRICAL CODE. PVC SCHEDULE 40 CONDUIT SHALL BE USED FOR UNDERGROUND CIRCUITS BURIED 24" OR MORE BELOW GRADE. PVC SCHEDULE 80 CONDUIT SHALL BE USED ABOVE GROUND ON BUILDING EXTERIORS. PROVIDE SUITABLE EXPANSION FITTINGS. FLEXIBLE LIQUIDTITE CONDUIT SHALL BE USED FOR CONNECTIONS TO MOTORS, EQUIPMENT, AND TRANSFORMERS WHERE VIBRATION OR FLEXIBILITY IS REQUIRED. EXPOSED CONDUIT IN HIGH TRAFFIC AREAS OR AREAS WHERE SUBJECT TO PHYSICAL DAMAGE SHALL BE RIGID GALVANIZED RMC OR IMC, FROM THE FLOOR TO A LEVEL OF 8'-0" ABOVE THE FLOOR.
- 2.4 TRANSFORMERS, DISCONNECTS, AND OTHER POWER DISTRIBUTION EQUIPMENT SHALL BE PROVIDED FROM ONE MANUFACTURER WHEREVER POSSIBLE. APPROVED MANUFACTURERS ARE SQUARE D, ABB, SIEMENS OR EATON.
- 2.5 FUSIBLE AND NON-FUSED DISCONNECT SWITCHES SHALL BE HEAVY DUTY WITH QUICK MAKE/ QUICK BREAK OPERATION, WITH A NEMA 1 RATING (INTERIOR) OR NEMA 3R RATING (EXTERIOR) UNLESS OTHERWISE NOTED OR REQUIRED BY CODE. PROVIDE DIFFERENT ENCLOSURES IF NEEDED, BASED ON THE CONDITIONS AFFECTING THE EQUIPMENT. FUSES SHALL BE DUAL ELEMENT - TIME DELAY, BUSSMAN TYPE LPN-RK (250 VOLT) OR LPS-RK (600 VOLT) FOR 600 AMPERES AND BELOW, AND BUSSMAN TYPE KRP-C ABOVE 600 AMPERES. EQUIVALENT FUSES BY FERRAZ-SHAWMUT OR LITTELFUSE ARE ACCEPTABLE.
- 2.6 NAMEPLATES SHALL BE PROVIDED FOR IDENTIFICATION OF ALL POWER DISTRIBUTION EQUIPMENT AND SHALL BE ENGRAVED PHENOLIC WITH WHITE LETTERING AND BLACK BACKGROUND, UNLESS DIRECTED OTHERWISE BY THE OWNER'S REPRESENTATIVE. PANELBOARD BRANCH CIRCUITS SHALL BE IDENTIFIED WITH TYPEWRITTEN DIRECTORIES.

PART 3 EXECUTION

- 3.1 COORDINATE THE ELECTRICAL WORK, EQUIPMENT LOCATIONS, AND DUCT BANK ROUTING WITH OWNERS' REPRESENTATIVE, INCLUDING CORE DRILL LOCATIONS.
- 3.2 CUTTING AND PATCHING OF WALLS, FLOORS AND CEILINGS SHALL BE PROVIDED BY SKILLED MECHANICS IN THE TRADE. FINAL FINISHING AND PAINTING IS BY THE GENERAL TRADES CONTRACTOR.
- 3.3 SHUTDOWNS SHALL BE SCHEDULED WITH THE OWNER'S REPRESENTATIVE AT LEAST ONE WEEK IN ADVANCE. COORDINATE SERVICE OUTAGE TO LIMIT OUTAGE TO 4 HOURS OR LESS OR PROVIDE PORTABLE GENERATOR BACKUP.
- 3.4 IT IS THE PURPOSE OF THE CONTRACT DOCUMENTS TO INDICATE THE APPROXIMATE LOCATIONS OF ALL EQUIPMENT, ETC. THE EXACT LOCATION OF EQUIPMENT MAY BE ADJUSTED FROM TIME TO TIME AS THE WORK PROGRESSES. THIS CONTRACTOR SHALL CONFIRM THE EXACT LOCATIONS AND ARRANGE THE WORK ACCORDINGLY. THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO EFFECT REASONABLE CHANGES IN THE LOCATION OF EQUIPMENT UP TO THE TIME OF ROUGH-IN WITHOUT ADDITIONAL COST.
- 3.5 LOCATE AND PROVIDE ALL OPENINGS IN FLOORS, CEILINGS, AND WALLS TO ALLOW FOR CONDUIT PENETRATIONS.
 - A. SUBMIT TO THE OWNER'S REPRESENTATIVE ALL LOCATIONS AND SIZES OF OPENINGS WHICH MUST BE PROVIDED FOR THE WORK BEFORE DRILLING OR SETTING ANY SLEEVES.
 - B. FINAL LOCATIONS AND SIZES OF ALL OPENINGS SHALL BE SUBJECT TO THE OWNER'S REPRESENTATIVE FINAL APPROVAL.
 - C. SEAL EXTERNAL WALL PENETRATIONS WHERE CONDUIT PASSES FROM A COLDER AREA TO A WARMER AREA.
- 3.6 NEW ELECTRICAL EQUIPMENT SHALL BE STORED IN A HEATED AND VENTILATED SPACE UNTIL READY FOR DELIVERY TO THE FINISHED EQUIPMENT SPACE ON THE SITE.

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