



NOTES

1. TEST GROUNDING SYSTEM USING AN APPROVED METHOD. SYSTEM SHOULD MEASURE TWENTY (20) OHMS OR LESS. ADDITIONAL GROUNDING ELECTRODES SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER TO MEET THIS REQUIREMENT.
2. MECHANICALLY CRIMP ALL CONNECTIONS TO GROUND RODS USING AN IRREVERSIBLE COMPRESSION TOOL.
3. INSTALL MARKER TAPE DIRECTLY ABOVE ALL GROUNDING ELECTRODES AND CONDUCTORS AT A DEPTH OF 12 INCHES.
4. REMOVE BONDING JUMPER IN EQUIPMENT CABINET IF INSTALLED BETWEEN AC NEUTRAL AND EQUIPMENT GROUND.
5. BOND ALL RIGID GALVANIZED STEEL CONDUITS ENTERING THE CABINET TO "EQUIPMENT GROUND".
6. INSTALL CONDUIT BETWEEN DISCONNECT AND CABINET.
7. ENSURE EQUIPMENT GROUND IS ELECTRICALLY BONDED TO CABINET.

RGC FOR DMS FEEDER CONDUCTORS

RGC WITH DMS SIGNAL/CONTROL/ COMMUNICATION WIRES

1/4 INCH GROUNDING LUG

#4 AWG MIN. SOLID BARE COPPER WIRE

24" MIN. DEPTH

SEE NOTES 1, 2, 3, & 4

5/8" X 10' MIN. COPPER CLAD STEEL GROUNDING ELECTRODE

EXISTING METER

BASEMOUNT CABINET WITH 12" BASE EXTENDER

MODIFY EXISTING ELECTRICAL SERVICE WITH NEW 50 AMP DOUBLE POLE BREAKER AND NEW LIGHTNING ARRESTER

EXISTING CONDUIT AND SERVICE CONDUCTORS

EXISTING CONDUIT WITH FEEDER CONDUCTORS

CONDUIT FOR EXISTING COMM. CABLE

| | <p>Prepared in the Offices of:</p> <p>DYNAMIC MESSAGE SIGN WITH UNDERGROUND ELECTRICAL SERVICE TYPICAL DETAIL</p> | | <p>SEAL</p> <p>NORTH CAROLINA PROFESSIONAL ENGINEER</p> <p>SEAL 050152</p> <p>ENGINEER ANDREW J. SKUCE</p> <p>DocuSigned by: Andrew J. Skuce 8/31/2021</p> | | | | | |
|-----------|--|----------------------------------|---|--|-----------|-------|------|--|
| | <p>DIVISION 04 JOHNSTON COUNTY NEAR KENLY</p> <p>PLAN DATE: AUGUST 2021 REVIEWED BY: A. J. SKUCE, PE</p> <p>PREPARED BY: L. E. NEAL REVIEWED BY:</p> | <p>SCALE</p> <p>0</p> <p>N/A</p> | | <table border="1"> <thead> <tr> <th>REVISIONS</th> <th>INIT.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <p>CADD Filename:</p> | REVISIONS | INIT. | DATE | |
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