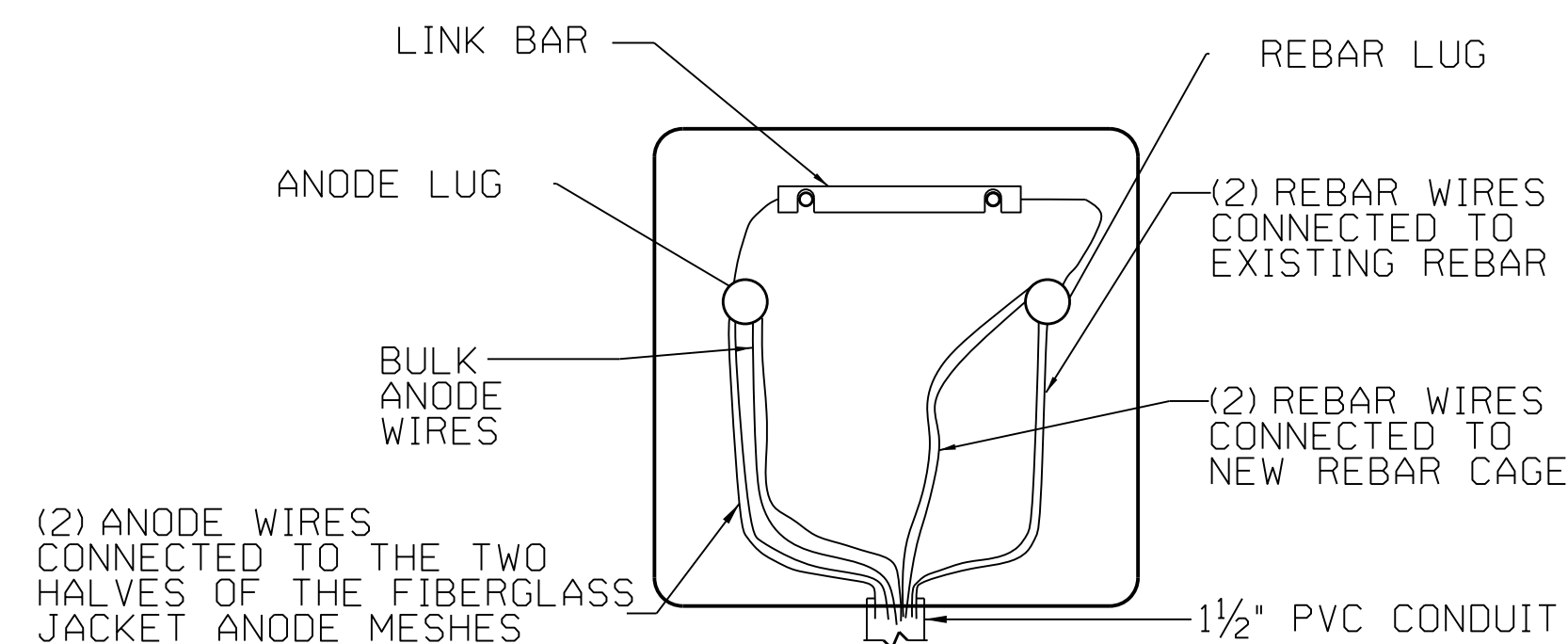
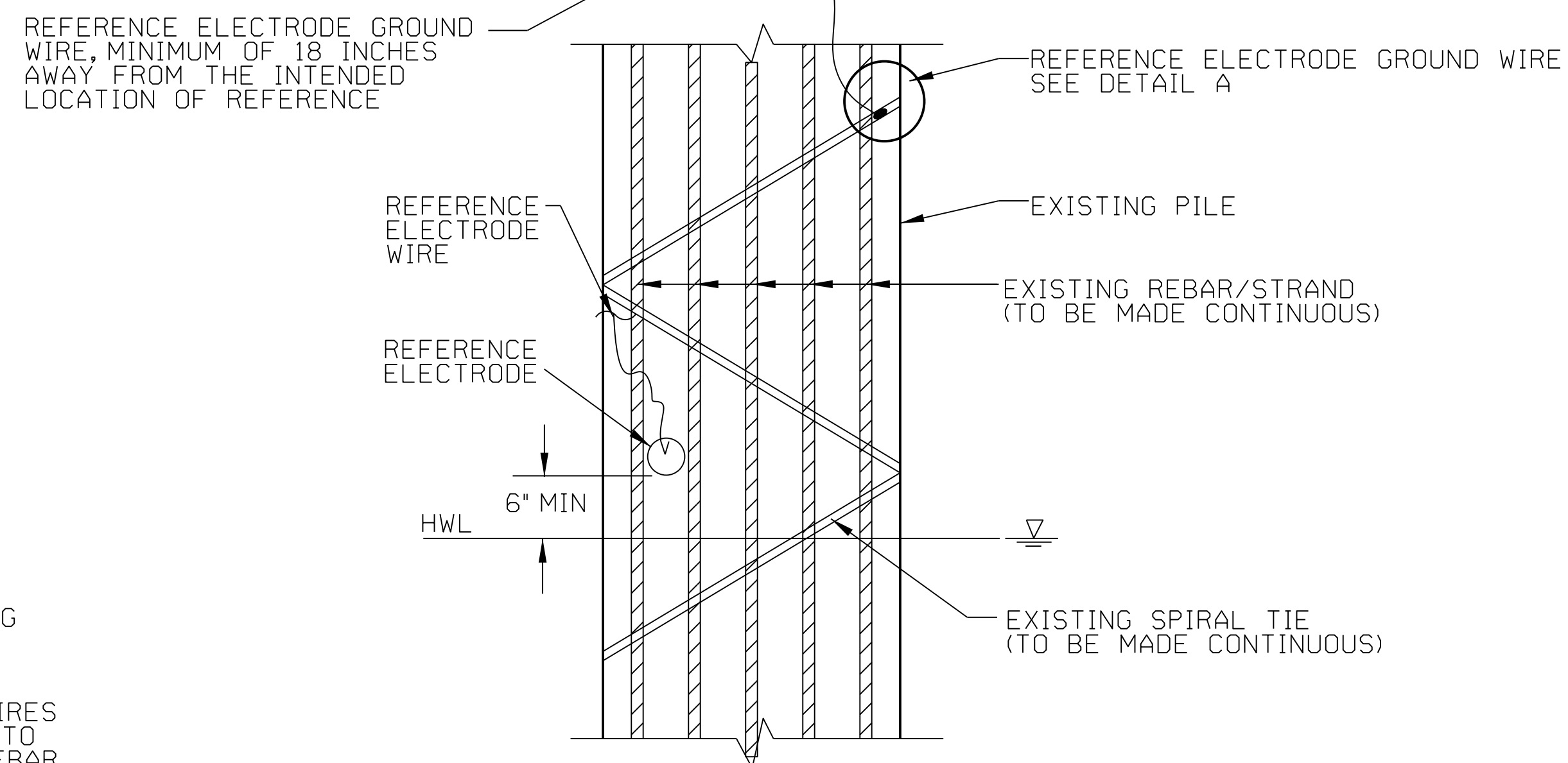


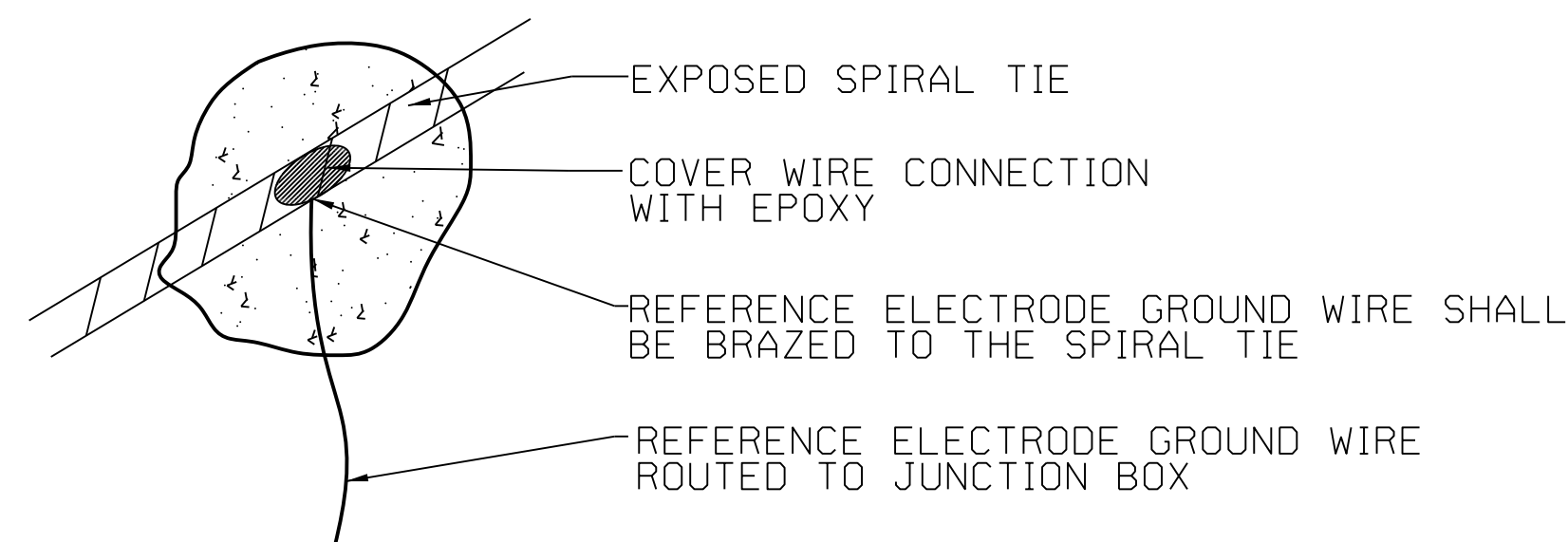
JUNCTION BOX DETAIL - MONITORING (PILES ONLY)
NTS



JUNCTION BOX DETAIL - NON MONITORING PILE
NTS



REFERENCE ELECTRODE INSTALLATION DETAIL - MONITORING PILE ONLY
NTS



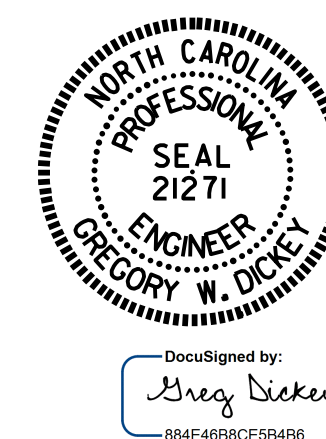
DETAIL A - REFERENCE ELECTRODE GROUND DETAIL
NTS

NOTES:

1. THE REFERENCE ELECTRODE GROUND WIRE MAY BE BRAZED TO A SPIRAL TIE INSIDE A SPALLED AREA, PROVIDED THAT A SPALL IS IN THE IMMEDIATE VICINITY OF THE CONNECTION LOCATION SHOWN IN THE CONTRACT DOCUMENTS. IF NECESSARY, ACCESS TO THE SPIRAL TIE FOR THE GROUND CONNECTION SHALL BE MADE BY CORE DRILLING A 2" DIAMETER ACCESS HOLE THROUGH THE CONCRETE USING A LIGHT WEIGHT CORING DRILL. STRANDS SHALL BE AVOIDED.
2. TO INSTALL REFERENCE ELECTRODE, CORE DRILL 2" DIAMETER HOLE THROUGH THE CONCRETE. STRANDS AND SPIRAL TIES SHALL NOT BE EXPOSED.
3. THE REFERENCE ELECTRODE SHALL BE INSTALLED PERPENDICULARLY TO CONCRETE SURFACE. FILL THE EXCAVATION HOLE WITH APPROVED PORTLAND CEMENT PATCHING GROUT WITH 15,000 OHM-CM RESISTIVITY OR LESS. THE REFERENCE ELECTRODE SHALL BE FULLY ENCAPSULATED WITH CEMENTITIOUS BACK FILL MATERIAL. NO VOIDS SHALL BE PERMITTED.
4. THE WIRES FOR THE REFERENCE ELECTRODE SHALL BE ROUTED INSIDE THE JACKET TO THE JUNCTION BOX ABOVE THE PILE JACKET WITHOUT SPLICING.

PROJECT NO. B-5939
CARTERET COUNTY
BRIDGE NO. 6

SHEET 7 OF 7



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
GALVANIC CATHODIC
PROTECTION INTEGRAL
PILE JACKET
DETAILS

| REVISIONS | | | | | | SHEET NO. |
|-----------|-----|-------|-----|-----|-------|--------------|
| NO. | BY: | DATE: | NO. | BY: | DATE: | TOTAL SHEETS |
| 1 | | | 3 | | | S2-68 |
| 2 | | | 4 | | | |

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

CHECKED BY : G.W.DICKEY DATE : 2/2017

DRAWN: KE 12/29/16
CHECKED: SV 12/29/16



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