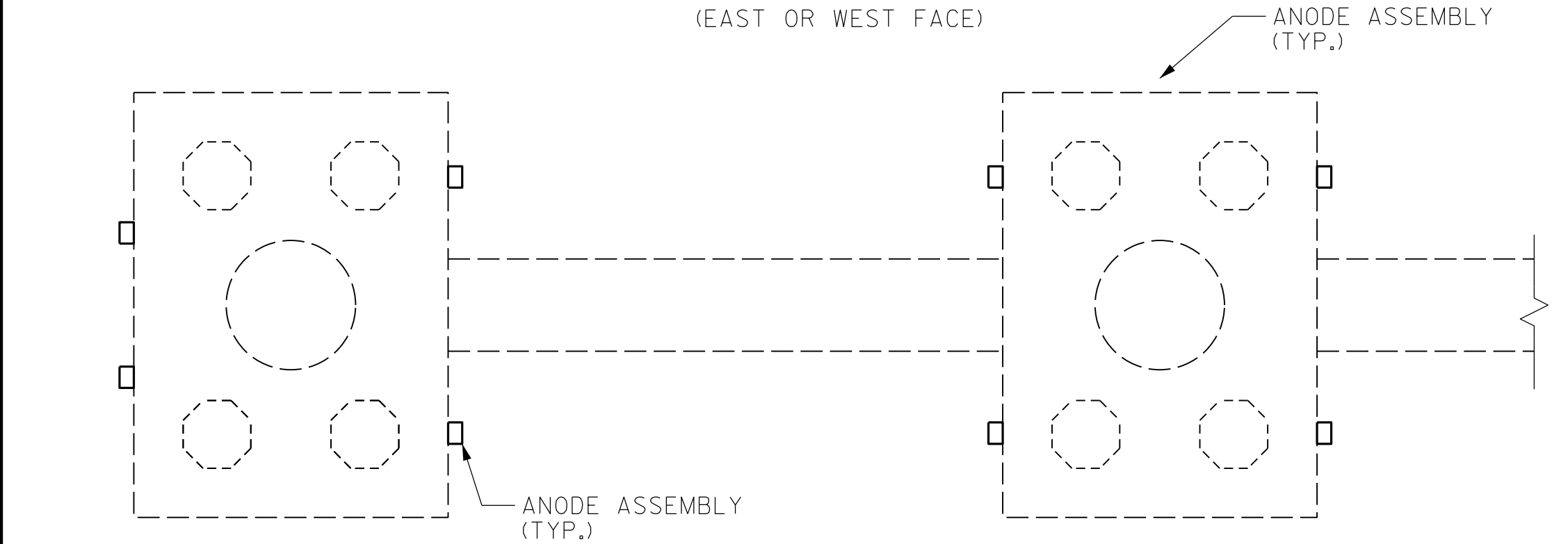
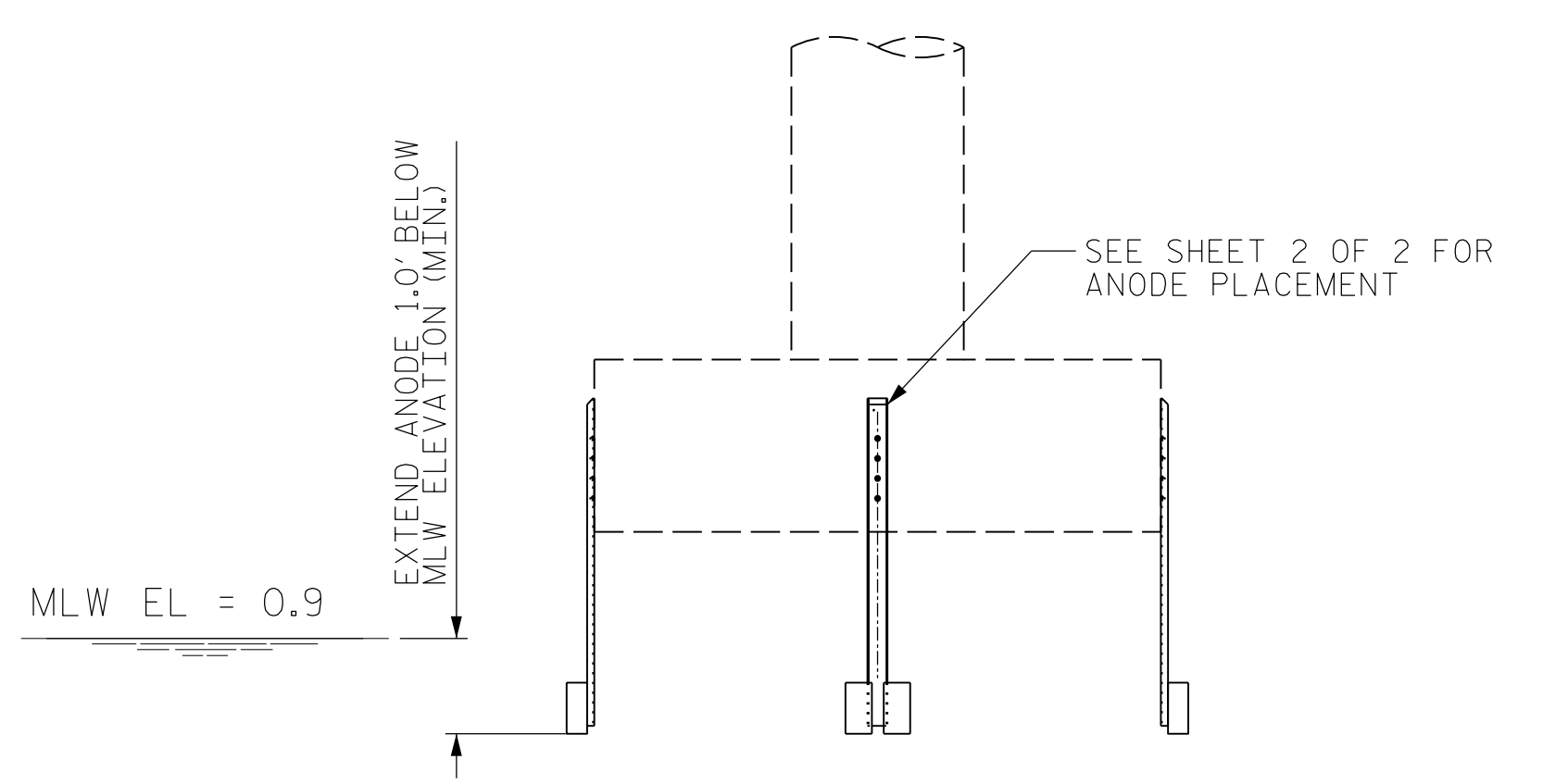


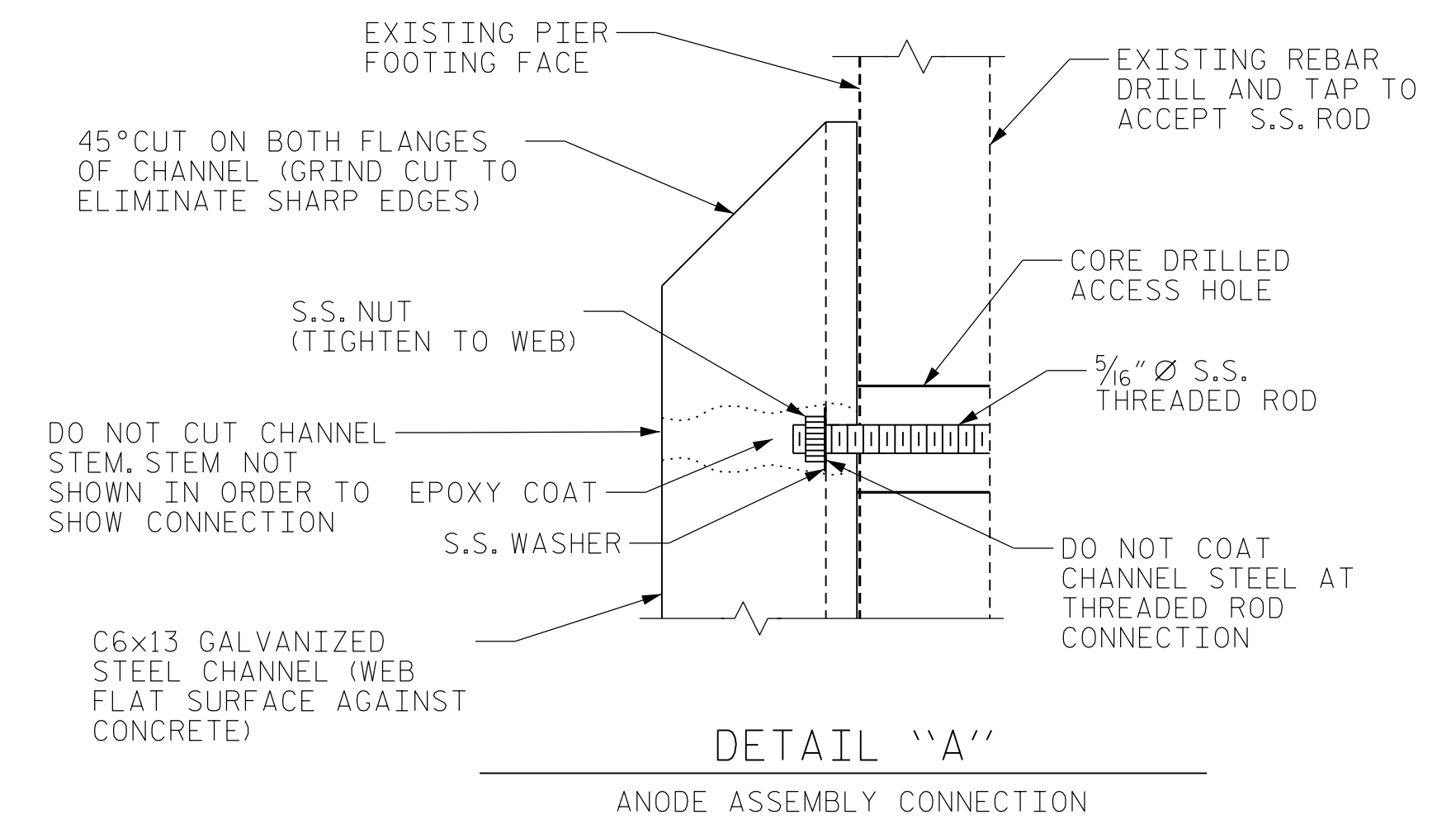
ELEVATION
(EAST OR WEST FACE)



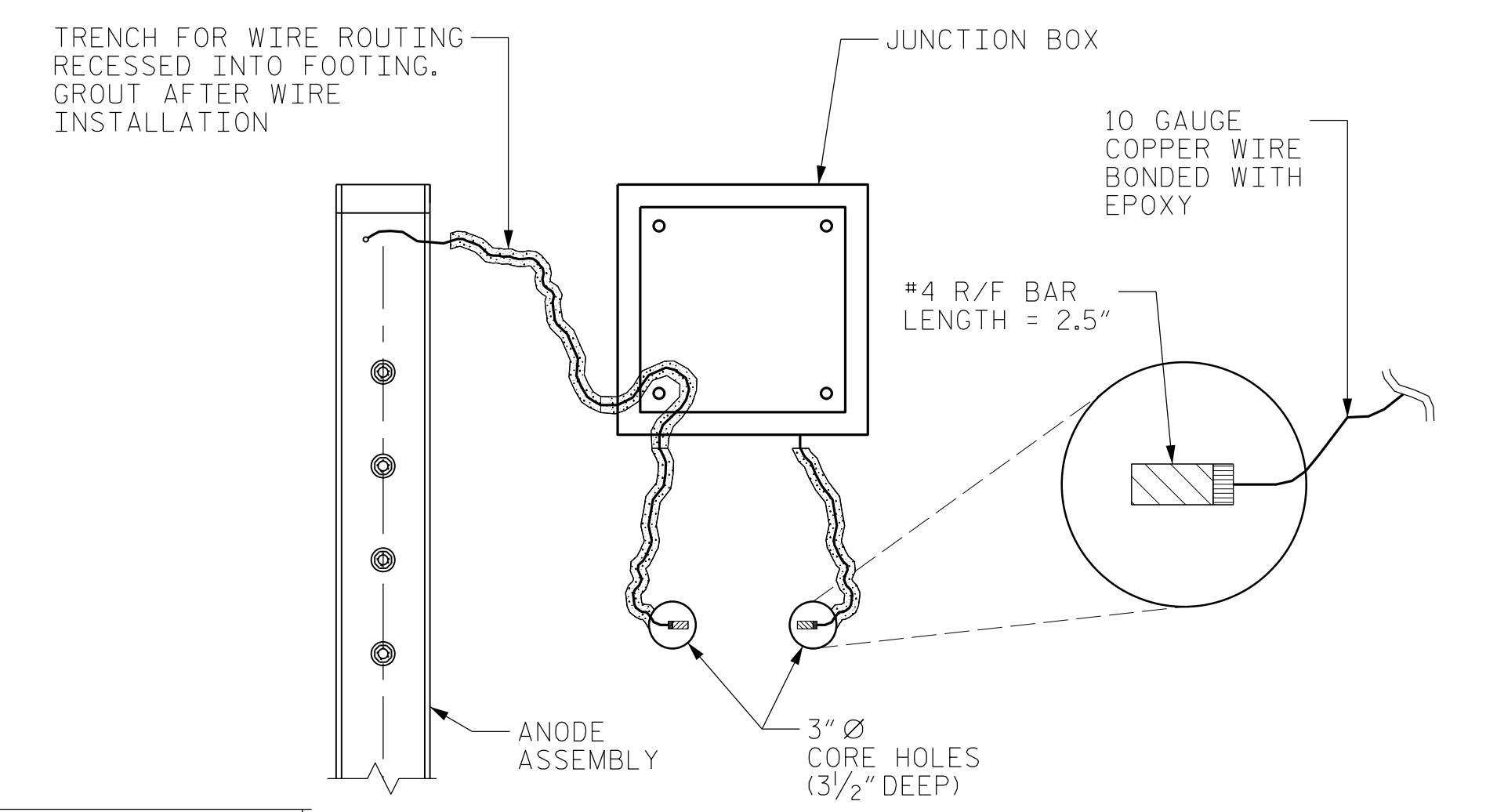
PLAN
(FOR LOCATIONS OF ANODE ASSEMBLIES
SEE SHEET 2 OF 2)



ELEVATION
(NORTH OR SOUTH FACE)



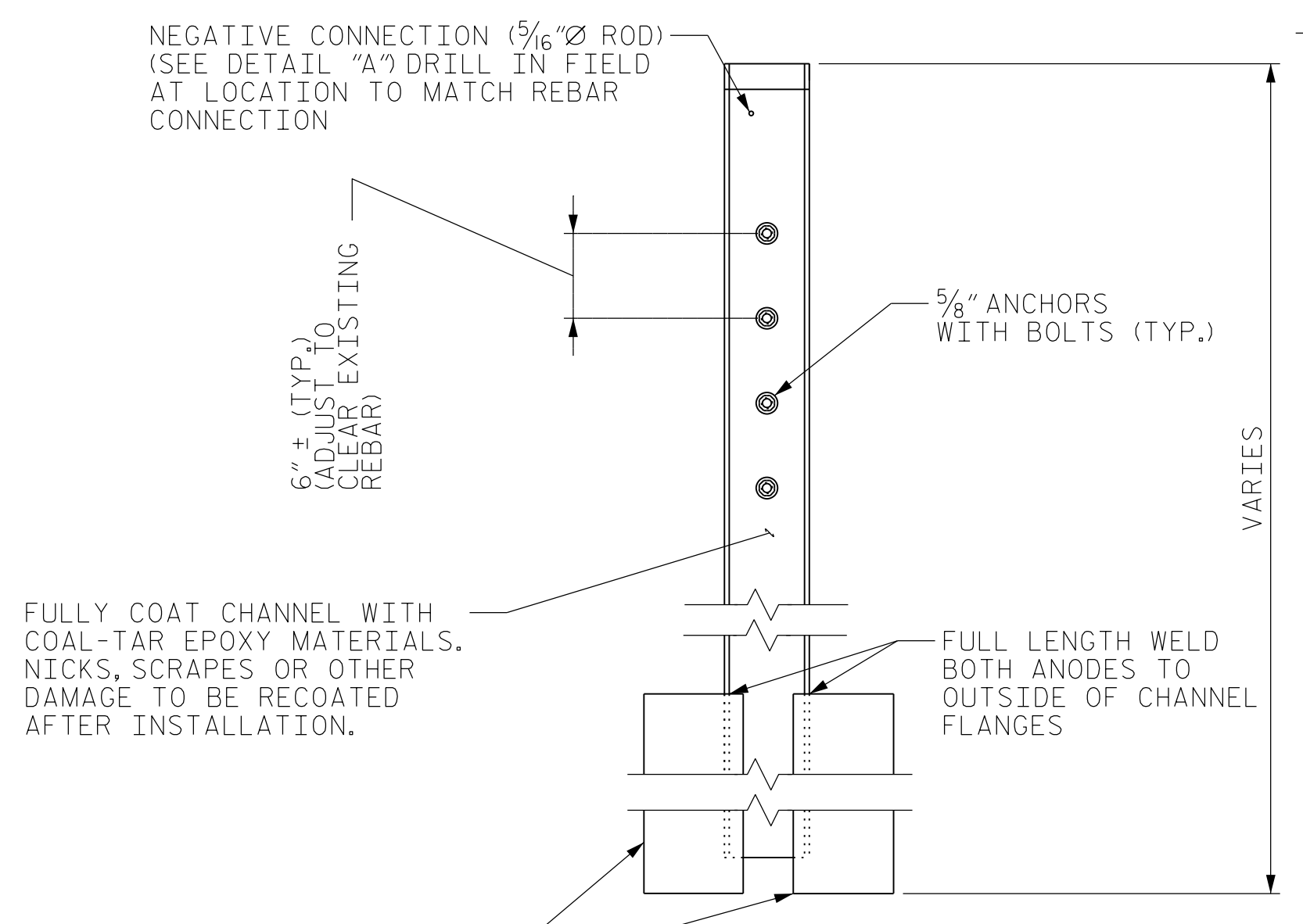
DETAIL "A"
ANODE ASSEMBLY CONNECTION



DETAIL "B"
MONITORING JUNCTION BOX DETAIL
(FRONT VIEW)

NOTES:

1. THOROUGHLY CLEAN THE FOOTINGS OF MARINE GROWTH AND DEBRIS BEFORE PERFORMING ANY WORK ASSOCIATED WITH THE INSTALLATION OF THE PROPOSED BULK ANODES.
2. ANODES SHALL BE ASTM B418-01 TYPE I.
3. EXCEPT FOR ANODE WELDING, ALL CHANNEL MANUFACTURING SHALL BE PERFORMED PRIOR TO GALVANIZING.
4. ANCHORS TO BE DROP-IN TYPE 5/8" x 2 7/32" GALVANIZED HILTI HDI 243262 OR APPROVED EQUAL.
5. SEAL ACCESS HOLE WITH APPROVED EPOXY GROUT MATERIAL AFTER S.S. ROD INSTALLATION.
6. ANODE ASSEMBLIES SHALL BE PLACED SUCH THAT THE ANODE BE SUBMERGED A MINIMUM OF 1'-0" BELOW MEAN LOW WATER ELEVATION AT ALL TIMES. SPACING AND ELEVATION ADJUSTMENTS SHALL BE APPROVED BY THE ENGINEER.
7. WELDING OF S.S. ROD TO THE REBAR IN LIEU OF DRILL AND TAP MAY BE APPROVED AT THE DISCRETION OF THE ENGINEER.
8. ELECTRICAL CONTINUITY OF REINFORCING STEEL BETWEEN AT LEAST TWO OTHER CONNECTIONS SHALL BE PERFORMED PER CONNECTION PRIOR TO AND AFTER ANODE ASSEMBLY INSTALLATION.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE REINFORCING STEEL AND PATCH ALL CORES WITH APPROVED CONCRETE REPAIR MATERIAL.
10. DIMENSIONS AND ELEVATIONS SHOWN ON THIS SHEET ARE BASED ON LIMITED AVAILABLE DATA. DIFFERENT DIMENSIONS AND TYPES OF ANODE SYSTEM MAY BE USED BASED ON ACTUAL FIELD CONDITIONS.
11. PAYMENT FOR ALL WORK AND HARDWARE DESCRIBED ASSOCIATED WITH FURNISHING AND INSTALLING OF THE ZINC ANODES SHALL BE INCIDENTAL TO THE PAY ITEM FOR "CATHODIC PROTECTION SYSTEM - SUBMERGED ZINC BULK ANODES".
12. SEE PROJECT SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS AND ACCEPTANCE CRITERIA. (PSP: CATHODIC PROTECTION - SUBMERGED BULK ANODE)
13. 1 OUT OF EVERY 3 FOOTINGS WILL REQUIRE PLACEMENT OF DETAIL "B" AS SHOWN ON THIS SHEET.
14. SEE SHEET 2 OF 2 FOR ANODE LOCATIONS FOR EACH BENT FOOTING TYPE.

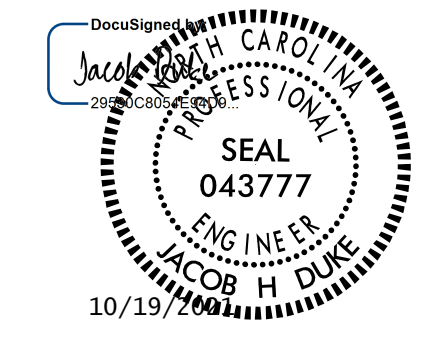


ANODE ASSEMBLY DETAIL
(FRONT VIEW)

TWO 50 LB ZINC ANODES, CONTRACTOR SHOULD MEASURE WATER DEPTH PRIOR TO ADDING ANODES

PROJECT NO. 15BPR.46
DARE COUNTY
BRIDGE NO. 270012

SHEET 1 OF 2



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
CATHODIC PROTECTION
BULK ANODE
FOR BENTS 10-35

DRAWN BY : JACOB H. DUKE DATE : 9/30/2020
CHECKED BY : DIEGO A. AGUIRRE DATE : 10/1/2020
DESIGN ENGINEER OF RECORD: JACOB H. DUKE DATE : 10/1/2020

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-58
1			3			TOTAL SHEETS
2			4			137