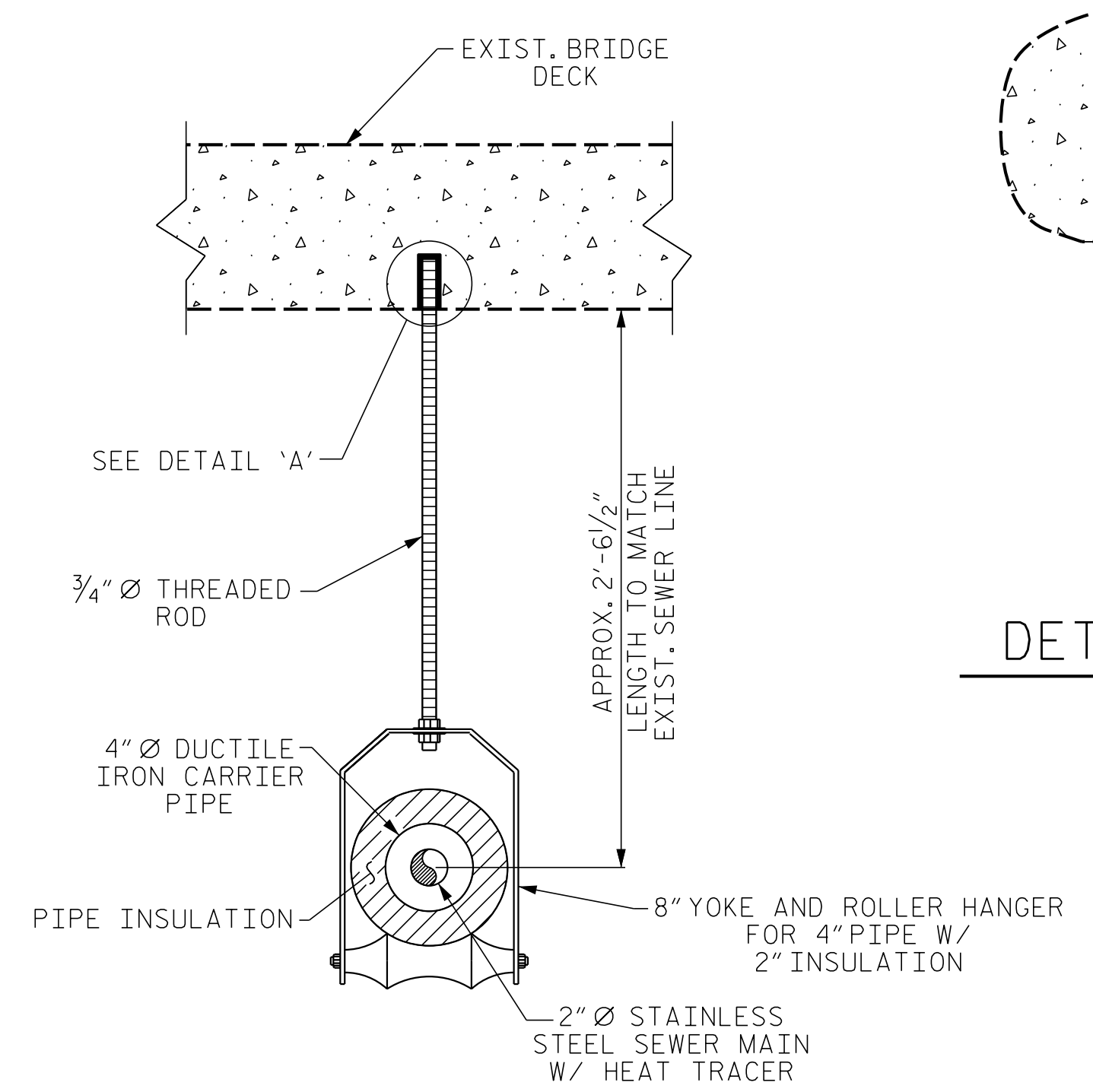


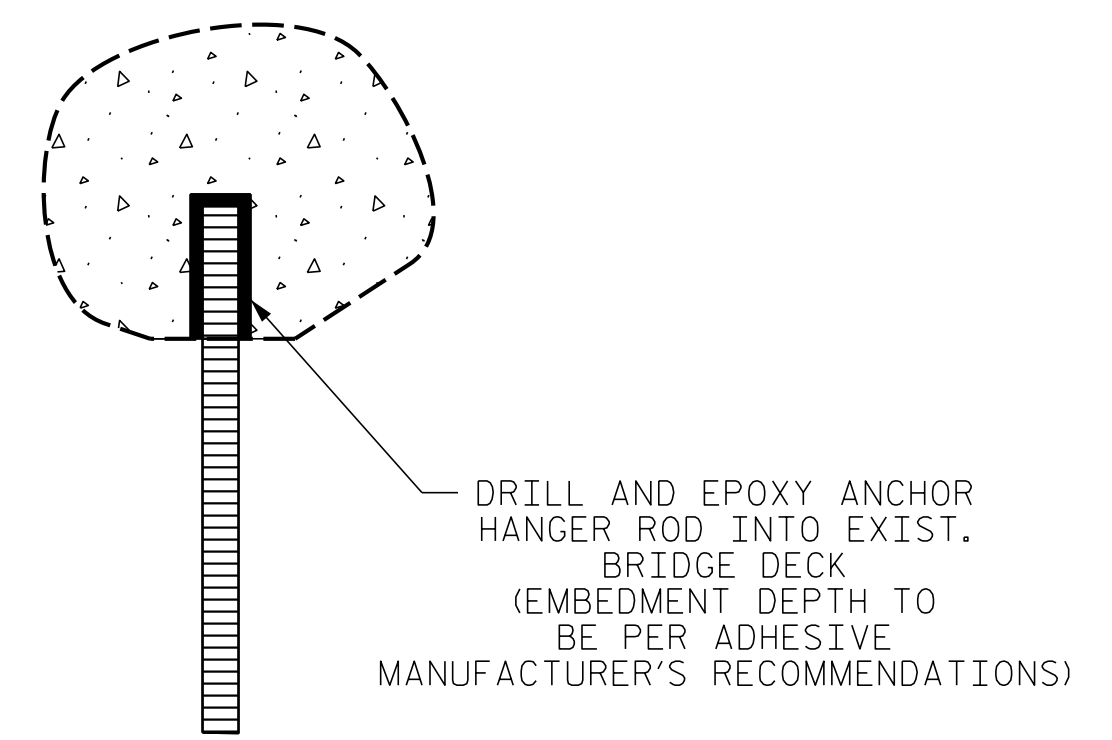
EXISTING TYPICAL SECTION

LOOKING TOWARDS TENDER HOUSE
SPANS A THRU F SHOWN
OTHER SPANS SIMILAR



TYPICAL HANGER ASSEMBLY DETAIL

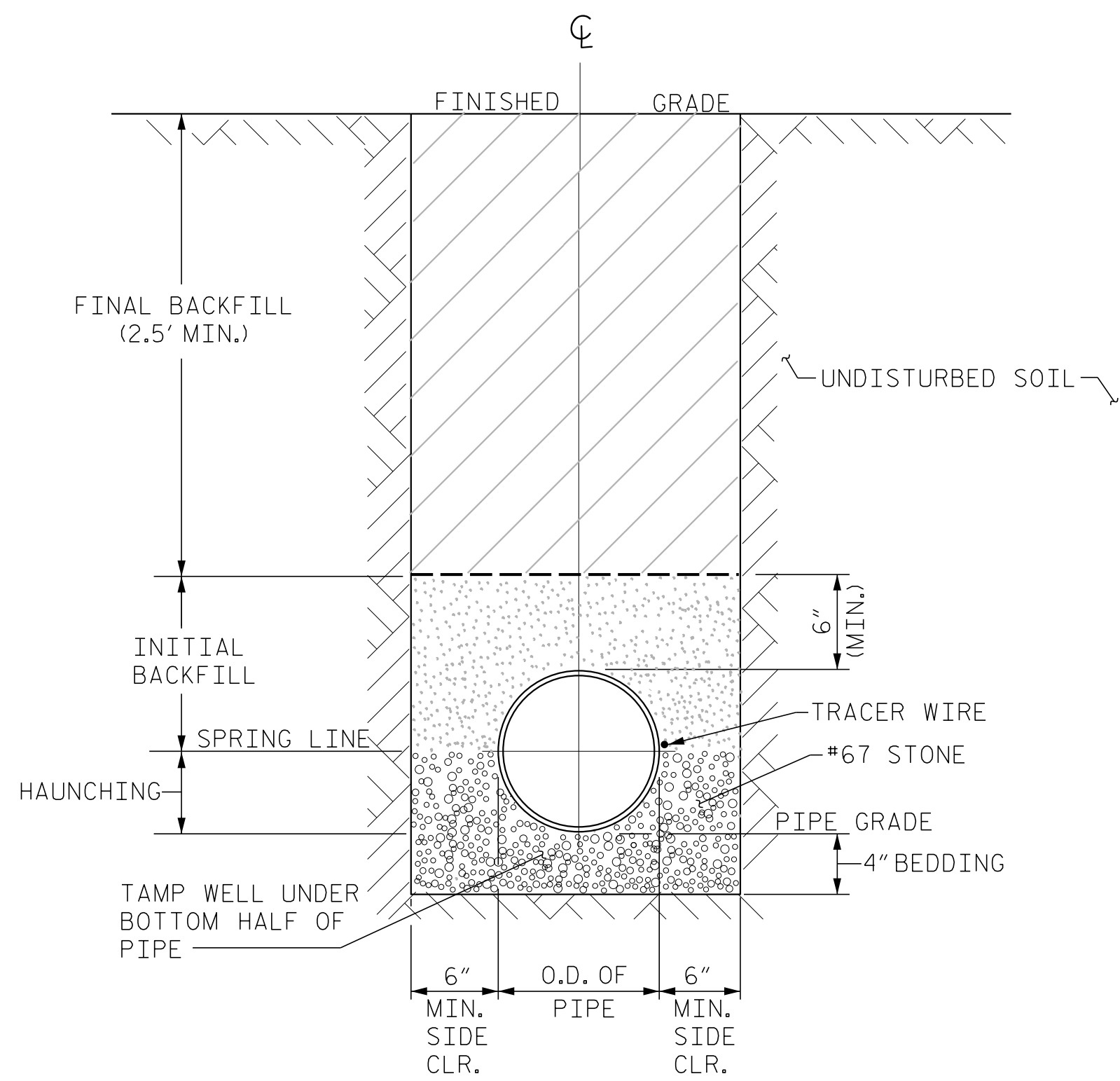
ALL HANGER MATERIAL SHALL BE STAINLESS STEEL



DETAIL 'A'

NOTES:

1. THE PROPOSED UTILITY CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NC DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2018.
2. SEWER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT QUALITY, DIVISION OF WATER RESOURCES, WATER QUALITY SECTION. PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODES.
3. CONTRACTOR SHALL PROVIDE FINAL DETAILED PIPING SCHEMATICS FOR SHOP DRAWING APPROVAL PRIOR TO INSTALLATION.
4. ALL UTILITY MATERIALS SHALL BE APPROVED PRIOR TO DELIVERY TO THE PROJECT. SEE 1500-7, "SUBMITTALS AND RECORDS" IN SECTION 1500 OF THE STANDARD SPECIFICATIONS.
5. JOINTS IN DUCTILE IRON CARRIER PIPE SHALL BE MEGALUG, SERIES 1100 BY EBAA IRON OR APPROVED EQUAL.
6. MAXIMUM PIPE BEND SHALL BE 45° UNLESS APPROVED BY THE ENGINEER.
7. BURIED SECTION OF SEWER LINE SHALL BE 2" DIAMETER SCHEDULE 40 PVC PIPE AND FITTINGS MEETING THE REQUIREMENTS OF ASTM D2665.
8. A HEAT TRACING HEATING CABLE SHALL BE PROVIDED ALONG THE BRIDGE ATTACHED PORTION OF THE SEWER LINE. HEAT CABLE SHALL BE INDUSTRIAL SERIES (IN) BY DELTA-THERM OR APPROVED EQUAL. HEAT TRACING CABLE ACCESSORIES, INCLUDING CONTROL BOX, SHALL BE BY SAME MANUFACTURER AS TRACING CABLE UNLESS OTHERWISE APPROVED.
9. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING SEWER PIPING.
10. ALL WORK SHOWN ON SHEETS U-1 THROUGH U-4 SHALL BE PAID FOR UNDER THE LUMP SUM PRICE BID FOR 'BRIDGE TENDER HOUSE SEWER LINE REPLACEMENT', SEE PROJECT SPECIAL PROVISION.
11. HEAT CONDUIT MAY BE OMITTED IF ENOUGH ELECTRICAL INSULATION PROVIDED TO COMPLY WITH NATIONAL ELECTRICAL CODE, AND AS APPROVED BY THE ENGINEER.
12. ANY OTHER IMPROVEMENTS SHALL BE MADE AS APPROVED BY ENGINEER.



SEWER LINE TRENCH DETAIL

- NOTES:
1. FOR TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND BRACING.
 2. NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN INITIAL BACKFILL.
 3. ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL.
 4. BACKFILL SHALL BE TAMPED IN 6" LIFTS IN TRAFFIC AREAS, 12" IN NON-TRAFFIC AREAS.
 5. CONTRACTOR WILL FURNISH AND INSTALL METALLIC WIRING TAPE 24-INCHES ABOVE THE PIPE AND COPPER TRACING WIRE.
 6. PROVIDE SILT FENCE ON DOWN SLOPE SIDE OF TRENCH. (CONTRACTOR SHALL COMPLY WITH ALL NC DEQ EROSION AND SEDIMENT CONTROL RULES AND REGULATIONS.)

PROJECT NO. 15BPR.14
NEW HANOVER COUNTY
STATION: _____

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

**BRIDGE TENDER HOUSE
SEWER LINE
DETAILS**

BCSC
BATEMAN CIVIL SURVEY COMPANY
2524 RELIANCE AVENUE
APEX, NC 27539
NC LICENSE NO. C-2378

THOMAS S. SPEIGHT JR.
NORTH CAROLINA
PROFESSIONAL
SEAL
20234
ENGINEER
THOMAS S. SPEIGHT JR.

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	U-4
1			3			TOTAL SHEETS
2			4			213

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

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