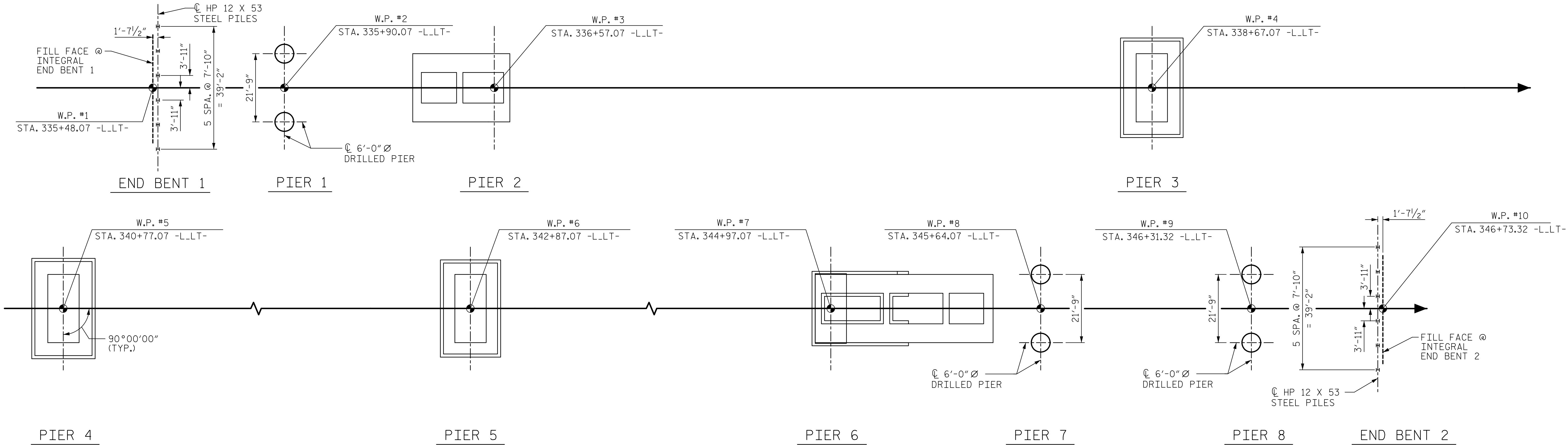


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DON: J.SLOAN



FOUNDATION LAYOUT PLAN

NOTES:

- FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.
- PILES AT END BENT NO.1 ARE DESIGNED FOR A FACTORED RESISTANCE OF 75 TONS PER PILE.
- DRIVE PILES AT END BENT NO.1 TO A REQUIRED DRIVING RESISTANCE OF 125 TONS PER PILE.
- FOR DRILLED PIERS, SEE SECTION 411 OF THE STANDARD SPECIFICATIONS.
- INSTALL DRILLED PIERS AT BENT NO.1 TO A TIP ELEVATION NO HIGHER THAN 274 FT. SATISFY THE REQUIRED TIP RESISTANCE AND HAVE A PENETRATION OF AT LEAST 7 FT. INTO ROCK AS DEFINED BY ARTICLE 411-1 OF THE STANDARD SPECIFICATIONS.
- DRILLED PIERS AT BENT NO.1 ARE DESIGNED FOR A FACTORED RESISTANCE OF 480 TONS PER PIER. CHECK FIELD CONDITIONS FOR THE REQUIRED TIP RESISTANCE OF 30.0 TSF.
- THE SCOUR CRITICAL ELEVATION FOR BENT NO.1 IS ELEVATION 285 FT. THE SCOUR CRITICAL ELEVATIONS ARE USED TO MONITOR POSSIBLE SCOUR PROBLEMS DURING THE LIFE OF THE STRUCTURE.
- TO VERIFY BEARING STRATA, STANDARD PENETRATION TESTING (SPT) IS REQUIRED FOR DRILLED PIERS AT BENT NO.1. PERFORM SPTS AT ELEVATION 291.4 FT. (LT) AND 286.6 FT. (RT) TO VERIFY TOP OF PARTIALLY WEATHERED ROCK. FOR SPT TESTING, SEE SECTION 411 OF THE STANDARD SPECIFICATIONS.
- INSTALL DRILLED PIERS AT BENT NO.7 TO A TIP ELEVATION NO HIGHER THAN 240 FT., SATISFY THE REQUIRED TIP RESISTANCE AND HAVE A PENETRATION OF AT LEAST 14 FT. INTO ROCK OR WEATHERED ROCK.
- DRILLED PIERS AT BENT NO.7 ARE DESIGNED FOR A FACTORED RESISTANCE OF 535 TONS PER PIER. CHECK FIELD CONDITIONS FOR THE REQUIRED TIP RESISTANCE OF 30.0 TSF.
- PERMANENT STEEL CASING ARE REQUIRED FOR DRILLED PIERS AT BENT NO.7. DO NOT EXTEND PERMANENT CASINGS BELOW ELEVATION 254 FT. WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- THE SCOUR CRITICAL ELEVATION FOR BENT NO.7 IS ELEVATION 252 FT. THE SCOUR CRITICAL ELEVATIONS ARE USED TO MONITOR POSSIBLE SCOUR PROBLEMS DURING THE LIFE OF THE STRUCTURE.

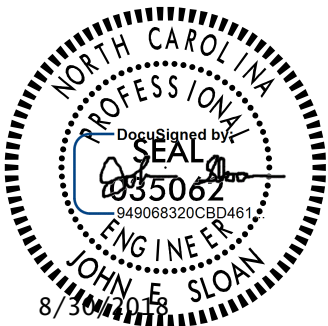
- TO VERIFY BEARING STRATA, STANDARD PENETRATION TESTING (SPT) IS REQUIRED FOR DRILLED PIERS AT BENT NO.7. PERFORM SPTS AT ELEVATION 254.2 FT. TO VERIFY TOP OF PARTIALLY WEATHERED ROCK AND AGAIN AT THE FINAL TIP ELEVATION INDICATED. FOR SPT TESTING, SEE SECTION 411 OF THE STANDARD SPECIFICATIONS.
- INSTALL DRILLED PIERS AT BENT NO.8 TO A TIP ELEVATION NO HIGHER THAN 270 FT., SATISFY THE REQUIRED TIP RESISTANCE.
- DRILLED PIERS AT BENT NO.8 ARE DESIGNED FOR A FACTORED RESISTANCE OF 480 TONS PER PIER. CHECK FIELD CONDITIONS FOR THE REQUIRED TIP RESISTANCE OF 30.0 TSF.
- THE SCOUR CRITICAL ELEVATION FOR BENT NO.8 IS ELEVATION 284 FT. THE SCOUR CRITICAL ELEVATIONS ARE USED TO MONITOR POSSIBLE SCOUR PROBLEMS DURING THE LIFE OF THE STRUCTURE.
- TO VERIFY BEARING STRATA, STANDARD PENETRATION TESTING (SPT) IS REQUIRED FOR DRILLED PIERS AT BENT NO.8. PERFORM SPTS AT ELEVATION 285.3 FT. TO VERIFY TOP OF PARTIALLY WEATHERED ROCK AND AGAIN AT THE FINAL TIP ELEVATION INDICATED. FOR SPT TESTING, SEE SECTION 411 OF THE STANDARD SPECIFICATIONS.
- SID INSPECTIONS ARE REQUIRED FOR DRILLED PIERS AT BENTS NOS 1, 7, AND 8. FOR SID INSPECTIONS, SEE SECTION 411 OF THE STANDARD SPECIFICATIONS.
- CSL TUBES ARE REQUIRED AND CSL TESTING MAY BE REQUIRED FOR THE DRILLED PIERS. THE ENGINEER WILL DETERMINE THE NEED FOR CSL TESTING. FOR CSL TESTING, SEE SECTION 411 OF THE STANDARD SPECIFICATIONS.
- PILES AT END BENT NO.2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 75 TONS PER PILE.
- DRIVE PILES AT END BENT NO.2 TO A REQUIRED DRIVING RESISTANCE OF 125 TONS PER PILE.

LEGEND

- PROPOSED
- EXISTING TO REMAIN

PROJECT NO. B-4974
STANLY/MONTGOMERY COUNTY
STATION: 339+86.39 -L-

SHEET 4 OF 6



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING

BRIDGE ON NC 24/27/73
WESTBOUND OVER
PEE DEE RIVER

REVISIONS

NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

SHEET NO.

S-4

TOTAL SHEETS

148

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED