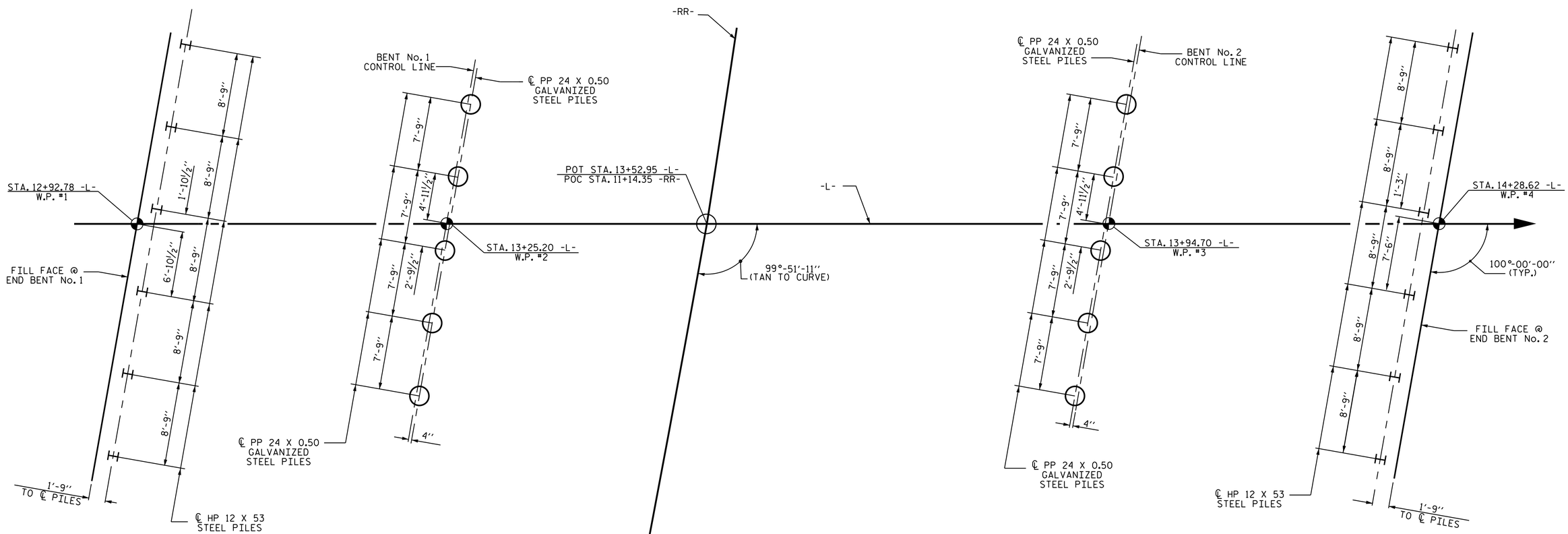


# FOUNDATION LAYOUT

## NOTES

FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

PILES AT END BENT No. 1 & 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 75 & 80 TONS PER PILE, RESPECTIVELY.

DRIVE PILES AT END BENT No. 1 & 2 TO A REQUIRED DRIVING RESISTANCE OF 125 & 135 TONS PER PILE, RESPECTIVELY.

PILES AT BENT No. 1 & 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 180 & 185 TONS PER PILE, RESPECTIVELY.

DRIVE PILES AT BENT No. 1 & 2 TO A REQUIRED DRIVING RESISTANCE OF 300 & 310 TONS PER PILE, RESPECTIVELY.

INSTALL PILES AT BENT No. 1 & 2 TO A TIP ELEVATION NO HIGHER THAN 1145 FT.

IT HAS BEEN ESTIMATED THAT A HAMMER WITH AN EQUIVALENT RATED ENERGY IN THE RANGE OF 90 TO 110 FT-KIPS PER BLOW WILL BE REQUIRED TO DRIVE PILES AT BENT No. 1 & 2. THIS ESTIMATED ENERGY RANGE DOES NOT RELEASE THE CONTRACTOR FROM PROVIDING DRIVING EQUIPMENT IN ACCORDANCE WITH SUBARTICLE 450-3(D)(2) OF THE STANDARD SPECIFICATIONS.

TESTING THE FIRST PRODUCTION PILE WITH THE PDA DURING DRIVING, RESTRIKING OR REDRIVING IS REQUIRED. FOR PDA TESTING, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

PIPE PILE PLATES ARE NOT REQUIRED FOR STEEL PIPE PILES AT BENT No. 1 & 2.

THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THE CENTERLINE OF THE PP 24 X 0.50 GALVANIZED STEEL PILES IS OFFSET 4" FROM THE BENT CONTROL LINE AT BENT No. 1 & 2.

PROJECT NO. B-4983
BURKE COUNTY
STATION: 13+52.95 -L-

SHEET 2 OF 3

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING
FOR BRIDGE OVER NORFOLK SOUTHERN RAILROAD ON SR 1618 BETWEEN US 70 AND SR 2333

NORTH CAROLINA PROFESSIONAL SEAL 20125 ENGINEER MARSHALL G. CHEEK, JR.
Marshall G. Cheek, Jr.
6549D6EBAA3B405... 4/25/2014

| REVISIONS | | | | | | SHEET NO. |
|---|---|---|---|---|---|---|
| NO. | BY: | DATE: | NO. | BY: | DATE: | S-2 |
| 1 | | | 3 | | | TOTAL SHEETS |
| 2 | | | 4 | | | 36 |

| | | | |
|---|---|---|---|
| DRAWN BY : | M. POOLE | DATE : | 12/13 |
| CHECKED BY : | B.N. GRADY | DATE : | 02/14 |
| DESIGN ENGINEER OF RECORD: | W. J. HARRIS | DATE : | 4/14 |

$$$$$$$SYSTIME$$$$$
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$$$$USERNAME$$$$