



FOUNDATION LAYOUT

DIMENSIONS LOCATING PILES ARE SHOWN TO THE CENTERLINE OF PILES.

FOUNDATION NOTES

1. FOR PILES, SEE GEOTECHNICAL SPECIAL PROVISIONS AND SECTION 450 OF THE STANDARD SPECIFICATIONS.
2. PILES AT END BENT NO.1 ARE DESIGNED FOR A FACTORED RESISTANCE OF 170 TONS PER PILE.
3. PILES AT END BENT NO.2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 165 TONS PER PILE.
4. PILES AT BENT NO.1 ARE DESIGNED FOR A FACTORED RESISTANCE OF 150 TONS PER PILE.
5. DRIVE PILES AT END BENT NO.1 AND END BENT NO.2 TO A REQUIRED DRIVING RESISTANCE OF 225 TONS PER PILE.
6. DRIVE PILES AT BENT NO.1 TO A REQUIRED DRIVING RESISTANCE OF 200 TONS PER PILE.
7. TESTING TWO PRODUCTION PILES WITH THE PILE DRIVING ANALYZER (PDA) DURING DRIVING, RESTRIKING OR REDRIVING IS REQUIRED AT END BENT NO.1, END BENT NO.2 AND BENT NO.1. FOR PDA TESTING, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.
8. IT HAS BEEN ESTIMATED THAT A HAMMER WITH AN EQUIVALENT RATED ENERGY IN THE RANGE OF 55 TO 60 FT.-KIPS PER BLOW WILL BE REQUIRED TO DRIVE PILES AT END BENT NO.1, END BENT NO.2 AND BENT NO.1. THIS ESTIMATED ENERGY RANGE DOES NOT RELEASE THE CONTRACTOR FROM PROVIDING EQUIPMENT IN ACCORDANCE WITH THE PILE PROVISION.

PROJECT NO. R-2707C
CLEVELAND COUNTY
 STATION: 24+07.99 -Y9- POT

SHEET 2 OF 4



DocuSigned by:
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STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

FOUNDATION LAYOUT

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S6-2
1			3			TOTAL SHEETS
2			4			37

STR. #6

DRAWN BY: <u>J. LOFTUS</u>	DATE: <u>07-16</u>
CHECKED BY: <u>H. ASSFOURA</u>	DATE: <u>11-16</u>
DESIGN ENGINEER OF RECORD: <u>J. LOFTUS</u>	DATE: <u>07-16</u>

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 2/2/2017
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