

## FOUNDATION LAYOUT DIMENSIONS LOCATING PILES ARE SHOWN TO PILE CENTERLINE

## FOUNDATION NOTES

FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

PILES AT INTEGRAL END BENT 1 AND INTEGRAL END BENT 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 75 TONS PER PILE.

DRIVE PILES AT INTEGRAL END BENT 1 AND INTEGRAL END BENT 2 TO A REQUIRED DRIVING RESISTANCE OF 125 TONS PER PILE.

PILES AT BENT 1 ARE DESIGNED FOR A FACTORED RESISTANCE OF 190 TONS PER PILE.

DRIVE PILES AT BENT 1 TO A REQUIRED DRIVING RESISTANCE OF 275 TONS PER PILE. THIS REQUIRED DRIVING RESISTANCE INCLUDES ADDITIONAL RESISTANCE FOR DOWNDRAG OR SCOUR.

PILES AT BENT 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 195 TONS PER PILE.

DRIVE PILES AT BENT 2 TO A REQUIRED DRIVING RESISTANCE OF 260 TONS

INSTALL PILES AT BENT 1 AND BENT 2 TO A TIP ELEVATION NO HIGHER THAN -8.0 FEET AND -6.0 FEET, RESPECTIVELY.

THE SCOUR CRITICAL ELEVATION FOR BENT 1 IS ELEVATION 14.0 FT. SCOUR CRITICAL ELEVATIONS ARE USED TO MONITOR POSSIBLE SCOUR PROBLEMS DURING THE LIFE OF THE STRUCTURE.

TESTING THE FIRST PRODUCTION PILE WITH THE PDA DURING DRIVING, RESTRIKING OR REDRIVING IS REQUIRED AT BENT 1 OR BENT 2. FOR PDA TESTING, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

IT HAS BEEN ESTIMATED THAT A HAMMER WITH AN EQUIVALENT RATED ENERGY IN THE RANGE OF 65-120 FT-KIPS PER BLOW WILL BE REQUIRED TO DRIVE PILES AT BENT 1 AND BENT 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.

REMOVE EXISTING RIP RAP BEFORE DRIVING PILES AT INTEGRAL END BENT 1 AND INTEGRAL END BENT 2.

PROJECT NO. R-2514D

JONES & CRAVEN COUNTY

STATION: 625+23.28 -L-

SHEET 2 OF 3

STR. #18

SEAL 14045

Tim Coggins

3/26/2015

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DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING

FOR WIDENING OF BRIDGE OVER DEEP GULLY ON US 17 BETWEEN SR 1330 AND SR 1224

REVISIONS						SHEET
•	BY:	DATE:	NO.	BY:	DATE:	S18-0
			3			TOTAL SHEET
			4			39

DRAWN BY: D. G. ELY
CHECKED BY: B. N. BAROADAWALA
DESIGN ENGINEER OF RECORD: K. P. SEDAI

DATE: 1/27/15
DATE: 02/2015

26-MAR-2015 09:22
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PER PILE.