

FOUNDATION LAYOUT

BRACE PILES AT END BENT 1 AND END BENT 2 SHALL BE BATTERED 3:12
 BRACE PILES AT BENT 1, BENT 2, AND BENT 3 SHALL BE BATTERED 1 1/2: 12
 (DIMENSIONS LOCATING PILES ARE SHOWN TO THE CENTERLINE OF THE PILES)

NOTES

PILES FOR END BENT #1 AND #2 SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 45 TONS EACH.
 PILES AT BENT #1 AND BENT #3 SHALL BE DRIVEN TO AN ELEVATION NO HIGHER THAN -36.000 AND AT BENT #2 TO AN ELEVATION NO HIGHER THAN -51.000 AND SATISFY THE BEARING CAPACITY OF 63 TONS EACH.
 IT HAS BEEN ESTIMATED THAT A HAMMER WITH AN EQUIVALENT RATED ENERGY IN THE RANGE OF 45-90 K-FEET PER BLOW WILL BE REQUIRED TO DRIVE THE 16" SQUARE PRESTRESSED CONCRETE PILE AND 24" SQUARE PRESTRESSED CONCRETE PILES. THIS ESTIMATED ENERGY RANGE DOES NOT RELEASE THE CONTRACTOR FROM THE PROVISIONS OUTLINED IN ARTICLE 450-6 OF THE STANDARD SPECIFICATIONS.
 THE FIRST PRODUCTION 16" SQUARE PRESTRESSED CONCRETE PILE SHALL BE DRIVEN AS A DYNAMIC LOAD TEST PILE AT BENT #3, AS DIRECTED BY THE ENGINEER BEFORE DRIVING ANY 16" SQUARE PRESTRESSED CONCRETE PILE AT INTERIOR BENTS OR END BENTS. SEE PILE DRIVING ANALYZER (PDA) SPECIAL PROVISION. THE PILE DRIVING ANALYZER AND WAVE EQUATION SHALL BE USED TO DETERMINE THE STRESSES AND BEARING CAPACITY OF THE 16" PRESTRESSED CONCRETE PILE. REDRIVING MAY BE REQUIRED WITH PDA.
 THE FIRST PRODUCTION 24" SQUARE PRESTRESSED CONCRETE PILE SHALL BE DRIVEN AS A DYNAMIC LOAD TEST PILE AT BENT #1. SEE PILE DRIVING ANALYZER SPECIAL PROVISION. THE PILE DRIVING ANALYZER AND WAVE EQUATION SHALL BE USED TO DETERMINE THE STRESSES AND BEARING CAPACITY OF THE 24" PRESTRESSED CONCRETE PILES. REDRIVING MAY BE REQUIRED WITH PDA.

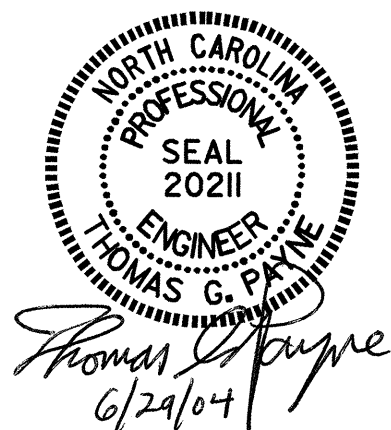
NOTES CONTINUED

THE FIRST PRODUCTION 24" SQUARE PRESTRESSED CONCRETE PILE SHALL BE DRIVEN AS A DYNAMIC LOAD TEST PILE AT BENT #2. SEE PILE DRIVING ANALYZER SPECIAL PROVISION. THE PILE DRIVING ANALYZER AND WAVE EQUATION SHALL BE USED TO DETERMINE THE STRESSES AND BEARING CAPACITY OF THE 24" PRESTRESSED CONCRETE PILES. REDRIVING MAY BE REQUIRED WITH PDA.
 WHEN DRIVING PILES, THE MAXIMUM BLOW COUNT SHALL NOT BE EXCEEDED.
 STEEL PILE TIPS ARE REQUIRED FOR THE 24" PRESTRESSED CONCRETE PILES AT BENT #1 AND BENT #2. SEE SPECIAL PROVISION FOR STEEL PILE TIPS.
 THE BATTERED PILES AT BENT #1 AND BENT #2 MAY REQUIRE TEMPORARY SUPPORT UNTIL BENT CAPS ARE POURED.
 INSTALLATION OF PILES UTILIZING JETTING WILL NOT BE ALLOWED.
 PILE QUANTITIES ARE FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR MUST PROVIDE TEST PILE LENGTHS WITH A MINIMUM OF FIVE FEET ABOVE THE PILE TEMPLATE UPON REACHING THE MINIMUM DESIGN BEARING CAPACITY WITH A FACTOR OF SAFETY OF TWO.
 FOR STEEL PILE SPLICER, SEE SPECIAL PROVISIONS.
 SEE SHEET 3 OF 3 FOR ADDITIONAL NOTES.

PROJECT NO. B-3445
CURRITUCK COUNTY
 STATION: 24+18.00 -L-

SHEET 2 OF 3

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
GENERAL DRAWING
 FOR BRIDGE ON NC 615
 OVER COREYS DITCH BETWEEN
 SR 1255 AND VIRGINIA
 STATE LINE



DRAWN BY : W.R. BRILEY/TCP DATE : 2/21/02
 CHECKED BY : K. D. LAYNE DATE : 5/14/02

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REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-2
1			3			TOTAL SHEETS
2			4			43