

END BENT 1

FOUNDATION NOTES:

FOR DRILLED PIERS. SEE SECTION 411 OF THE STANDARD SPECIFICATIONS.

DRILLED PIERS AT BENT 1 ARE DESIGNED FOR A FACTORED RESISTANCE OF 470 TONS PER PIER. CHECK FIELD CONDITIONS FOR THE REQUIRED TIP RESISTANCE OF 30 TSF.

INSTALL DRILLED PIERS AT BENT 1 TO A TIP ELEVATION NO HIGHER THAN 607.0, 596.0, 604.0 FT (L,C,R) AND WITH THE REQUIRED TIP RESISTANCE.

SPT MAY BE REQUIRED FOR DRILLED PIERS. THE ENGINEER WILL DETERMINE THE NEED FOR SPT. FOR SPT TESTING, SEE SECTION 411 OF THE STANDARD SPECIFICATIONS.

DO NOT USE SLURRY CONSTRUCTION FOR DRILLED PIERS AT BENT 1.

SID INSPECTION MAY BE REQUIRED FOR DRILLED PIERS. THE

ENGINEER WILL DETERMINE THE NEED FOR SID INSPECTIONS. FOR SID INSPECTIONS, SEE SECTION 411 OF THE STANDARD SPECIFICATIONS. CSL TUBES ARE REQUIRED AND CSL TESTING MAY BE REQUIRED FOR DRILLED PIERS AT BENT 1. THE ENGINEER WILL DETERMINE THE NEED FOR CSL TESTING. FOR CSL TESTING, SEE SECTION 411 OF THE STANDARD SPECIFICATIONS.

FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

 					
$\dot{\circ}$	DRAWN BY: CHECKED BY:	S.D.COOPER		DATE:	5-15
\sum	CHECKED BY:	B.S. COX		DATE:	5-15
	DESIGN ENGINE	ER OF RECORD:	T.J. BEACH	DATE:	5-15
					-

END BENT 2

53 STEEL PILES

Y PILES

0/12

 $\sqrt{\phi}$

17

P 12 X 53 STEEL BRACE PILES P 12 X 53 STEEL BRACE PILES

BENT 1

FOUNDATION LAYOUT

(DIMENSIONS LOCATING PILES ARE TO THE PILE CENTERLINE AT THE BOTTOM OF THE END BENT CAP)

FOUNDATION NOTES (CONTINUED):

PILES AT END BENT 1 ARE DESIGNED FOR A FACTORED RESISTANCE OF 110 TONS PER PILE. PILES AT END BENT 2 ARE DESIGNED FOR A FACTORED RESISTANCE

OF 115 TONS PER PILE.

DRIVE PILES AT END BENT 1 TO A REQUIRED DRIVING RESISTANCE OF 185 TONS PER PILE.

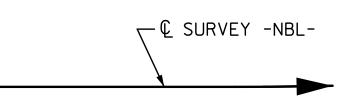
DRIVE PILES AT END BENT 2 TO A REQUIRED DRIVING RESISTANCE OF 195 TONS PER PILE.

IT HAS BEEN ESTIMATED THAT A HAMMER WITH AN EQUIVALENT RATED ENERGY IN THE RANGE OF 43,240 FT-LBS PER BLOW WILL BE REQUIRED TO DRIVE PILES AT END BENT 1 AND END 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.

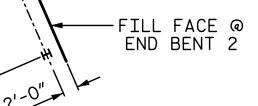
TESTING THE PRODUCTION PILES WITH THE PDA DURING DRIVING, RESTRIKING OR REDIVING IS REQUIRED. FOR PDA TESTING, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS (AND FOR PILE DRIVING CRITERIA, SEE PILE DRIVING CRITERIA PROVISION).



W.P. #3 STA.27+65.23 -NBL-



\66°-27'-00"



		PROJECT NO. <u>U-3109</u> <u>ALAMANCE</u> CO STATION: 26+54.73 -N SHEET 2 OF 3				UNTY	
		STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
PARED BY:		GENERAL DRAWING					
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