



END BENT No. 1

**BENT No. 1**  
FOOTING DIMENSIONS AND PILE LAYOUT  
ARE TYPICAL FOR EACH FOOTING

END BENT No. 2

**FOUNDATION NOTES**

FOR PILES, SEE GEOTECHNICAL SPECIAL PROVISIONS AND SECTION 450 OF THE STANDARD SPECIFICATIONS.

PILES AT END BENT NO.1 AND END BENT NO.2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 100 TONS PER PILE. PILES AT BENT 1 ARE DESIGNED FOR A FACTORED RESISTANCE OF 145 TONS PER PILE.

DRIVE PILES AT END BENT NO.1 TO A REQUIRED DRIVING RESISTANCE OF 135 TONS PER PILE. DRIVE PILES AT END BENT NO.2 TO A REQUIRED DRIVING RESISTANCE OF 295 TONS PER PILE. THE REQUIRED DRIVING RESISTANCE AT END BENT NO.2 INCLUDES ADDITIONAL RESISTANCE FOR DOWNDRAW. DRIVE PILES AT BENT NO.1 TO A REQUIRED DRIVING RESISTANCE OF 195 TONS PER PILE.

TESTING THE FIRST PRODUCTION PILE WITH THE PILE DRIVING ANALYZER (PDA) DURING DRIVING, RESTRIKING, OR REDRIVING IS REQUIRED AT END BENT NO.1 OR END BENT NO.2 AND BENT NO.1. FOR PDA TESTING, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

OBSERVE A 1 MONTH WAITING PERIOD AT END BENT NO.1 AND 3 MONTH WAITING PERIOD AT END BENT NO.2 AFTER CONSTRUCTING THE EMBANKMENT TO WITHIN 2 FEET OF FINISHED GRADE BEFORE BEGINNING CONSTRUCTION AT END BENT NO.1 AND END BENT NO.2. FOR BRIDGE WAITING PERIODS, SEE ROADWAY PLANS AND SPECIAL PROVISIONS.

SEE ROADWAY PLANS AND SPECIAL PROVISIONS FOR THE SETTLEMENT GAUGES REQUIRED AT END BENT NO.1 AND END BENT NO.2.

BENT NO.1 BOTTOM OF FOOTING ELEVATION MAY BE BELOW GROUNDWATER TABLE AND DEWATERING MAY BE REQUIRED.

PROJECT NO. R-5311A  
HERTFORD COUNTY  
STATION: 25+47.22 -Y1-

SHEET 2 OF 3

ENGINEER OF RECORD:  
DocuSigned by:  
*Eric Charles Hunt*  
STATE OF NORTH CAROLINA  
PROFESSIONAL SEAL  
14091  
ERIC CHARLES HUNT  
12/21/2016  
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STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
GENERAL DRAWING BRIDGE ON SR 1130 OVER NC 11 BETWEEN SR 1202 & SR 1215					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
SHEET NO.					S01-2
TOTAL SHEETS					61

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

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DRAWN BY : D. HODGE DATE : 3/16  
CHECKED BY : B.C. HUNT DATE : 10/16