

### FOUNDATION LAYOUT

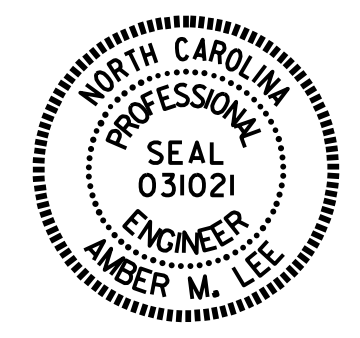
DIMENSIONS LOCATING PILES AND PIPE PILES ARE SHOWN TO THE CENTERLINE.

#### NOTES:

- FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.
- PILES AT END BENT 1 ARE DESIGNED FOR A FACTORED RESISTANCE TO 85 TONS PER PILE.
- DRIVE PILES AT END BENT 1 TO A REQUIRED DRIVING RESISTANCE OF 142 TONS PER PILE.
- PILES AT BENT 1 ARE DESIGNED FOR A FACTORED RESISTANCE OF 120 TONS PER PILE.
- DRIVE PILES AT BENT 1 TO A REQUIRED DRIVING RESISTANCE OF 225 TONS PER PILE. THIS REQUIRED DRIVING RESISTANCE INCLUDES ADDITIONAL RESISTANCE FOR SCOUR.
- INSTALL PILES AT BENT 1 TO A TIP ELEVATION NO HIGHER THAN 840 FT.
- THE SCOUR CRITICAL ELEVATION FOR BENT 1 IS 862 FEET. THE SCOUR CRITICAL ELEVATIONS ARE USED TO MONITOR SCOUR PROBLEMS DURING THE LIFE OF THE STRUCTURE.
- PILES AT END BENT 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 60 TONS PER PILE.
- DRIVE PILES AT END BENT 2 TO A REQUIRED DRIVING RESISTANCE OF 100 TONS PER PILE.

PROJECT NO. B-5407  
POLK COUNTY  
 STATION: 13+52.00 -L-

SHEET 2 OF 3



DocuSigned by:  
 Amber M. Lee  
 3/6/2018

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
**GENERAL DRAWING**  
 FOR BRIDGE OVER  
 WALNUT CREEK  
 ON SR 1311 BETWEEN  
 SR 1310 AND SR 1161

DRAWN BY : D.V. JOYNER DATE : 10/2016  
 CHECKED BY : GHOLAMREZA KOUCHEKI DATE : 12/2016  
 DESIGN ENGINEER OF RECORD: A. M. LEE DATE : 02/2018

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-2
1			3			TOTAL SHEETS
2			4			24