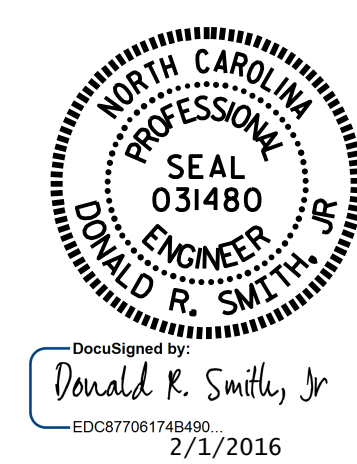


FOUNDATION LAYOUT
PILE LOCATION IS TO THE CENTERLINE PILE.

NOTES

- FOR PILES, SEE SPECIAL PROVISIONS.
- OBSERVE A 2 MONTH WAITING PERIOD AFTER CONSTRUCTING THE EMBANKMENT TO WITHIN 2 FEET OF FINISHED GRADE BEFORE BEGINNING END BENT CONSTRUCTION AT END BENT 1 AND END BENT 2.
- PILES AT END BENT 1 AND END BENT 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 105 TONS PER PILE.
- DRIVE PILES AT END BENT 1 AND END BENT 2 TO A REQUIRED DRIVING RESISTANCE OF 175 TONS PER PILE.
- PILES AT BENT 1 AND BENT 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 250 TONS PER PILE.
- DRIVE PILES AT BENT 1 TO A TIP ELEVATION NO HIGHER THAN 710 FEET AND SATISFY THE REQUIRED DRIVING RESISTANCE OF 417 TONS PER PILE.
- DRIVE PILES AT BENT 2 TO A TIP ELEVATION NO HIGHER THAN 714 FEET AND SATISFY THE REQUIRED DRIVING RESISTANCE OF 417 TONS PER PILE.
- THE SCOUR CRITICAL ELEVATION FOR BENT 1 AND BENT 2 IS EL. 732.00. SCOUR CRITICAL ELEVATIONS ARE USED TO MONITOR POSSIBLE SCOUR PROBLEMS DURING THE LIFE OF THE STRUCTURE.
- IT HAS BEEN ESTIMATED THAT A HAMMER WITH AN EQUIVALENT RATED ENERGY IN THE RANGE OF 80,000 FT-LBS 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 EQUIPMENT IN ACCORDANCE WITH SUBARTICLE 450-3(D)(2) OF THE STANDARD SPECIFICATIONS.
- TESTING PILES WITH THE PDA DURING DRIVING, RESTRIKING OR REDRIVING MAY BE REQUIRED AT BENT 1 AND BENT 2. THE ENGINEER WILL DETERMINE THE NEED FOR PDA TESTING. FOR PDA TESTING, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS AND FOR PILE DRIVING CRITERIA, SEE "PILES" SPECIAL PROVISION.

PROJECT NO. B-5142
IREDELL COUNTY
 STATION: 22+06.00 -L-
 SHEET 2 OF 3



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

GENERAL DRAWING
 FOR BRIDGE OVER CORNELIUS
 CREEK ON SR 1302
 (CORNELIUS RD.)
 BETWEEN SR 1303 AND I-77

DRAWN BY : J.D. HAWK DATE : 6-29-15
 CHECKED BY : K.D. LAYNE DATE : 8-13-15
 DESIGN ENGINEER OF RECORD: T.H. CARROLL DATE : 8/18/15

DOCUMENT NOT CONSIDERED
 FINAL UNLESS ALL
 SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-2
1			3			TOTAL SHEETS
2			4			38