



### FOUNDATION LAYOUT

- I = VERTICAL PILE
- ⊥ = BRACED PILE

ALL PILES ARE HP12X53 STEEL PILES.  
 BRACED PILES ARE BATTERED AT 3:12.  
 DIMENSIONS LOCATING DRILLED PIERS SHOWN TO THE CENTERLINE OF DRILLED PIERS.  
 DIMENSIONS LOCATING PILES SHOWN TO THE CENTERLINE OF PILES AT BOTTOM OF CAP ELEVATION.

#### NOTES:

- FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.
- PILES AT END BENT NO.1 ARE DESIGNED FOR A FACTORED RESISTANCE OF 135 TONS PER PILE.
- DRIVE PILES AT END BENT NO.1 TO A REQUIRED DRIVING RESISTANCE OF 225 TONS PER PILE.
- FOR DRILLED PIERS, SEE SECTION 411 OF THE STANDARD SPECIFICATIONS.
- DRILLED PIERS AT BENT NO.1 ARE DESIGNED FOR A FACTORED RESISTANCE OF 910 TONS/PIER. CHECK FIELD CONDITIONS FOR THE REQUIRED TIP RESISTANCE OF 40 TSF.
- INSTALL DRILLED PIERS AT BENT NO.1 TO A TIP ELEVATION NO HIGHER THAN 862.0 FT (1 LT); 873.0 FT (2 CTS); AND 862.0 FT (1 RT), SATISFY THE REQUIRED TIP RESISTANCE, AND HAVE A PENETRATION OF AT LEAST 9 FT INTO ROCK AS DEFINED BY ARTICLE 411-1 OF THE STANDARD SPECIFICATIONS.
- CSL TUBES ARE REQUIRED AND CSL TESTING MAY BE REQUIRED FOR THE DRILLED PIERS, THE ENGINEER WILL DETERMINE THE NEED FOR CSL TESTING, FOR CSL TESTING, SEE SECTION 411 OF THE STANDARD SPECIFICATIONS.
- PILES AT END BENT NO.2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 126 TONS PER PILE.
- DRIVE PILES AT END BENT NO.2 TO A REQUIRED DRIVING RESISTANCE OF 210 TONS PER PILE.

PROJECT NO. U-2579AB  
FORSYTH COUNTY  
 STATION: 23+43.03 -Y16-

SHEET 2 OF 3



STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

**GENERAL DRAWING**  
 FOR BRIDGE ON SR 2679  
 OVER WINSTON-SALEM  
 NORTHERN BELTWAY BETWEEN  
 SR 1003 AND SR 2643

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	SHEET NO.
1			3			57-2
2			4			TOTAL SHEETS 48

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DRAWN BY :	TRM	DATE :	10/2019
CHECKED BY :	MRA	DATE :	12/2019
DESIGN ENGINEER OF RECORD:	JMR	DATE :	12/2019

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED