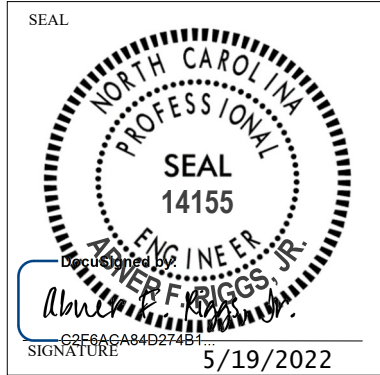


# FOUNDATION RECOMMENDATIONS

PROJECT: BP8.R013  
 TIP NO.: SF-760140  
 COUNTY: RICHMOND  
 STATION: 19+73 -L-

DESCRIPTION: BRIDGE NO. 140 ON  
SR 1971 (SANDHILL RD.) OVER SOLOMONS CREEK

	INITIALS	DATE
DESIGN:	KRP	4/8/2022
CHECKED:	APR	4/8/2022
FINAL:	AKR	5/19/2022
REVISED:		



2401 Brentwood Road, Suite 107  
 Raleigh, North Carolina 27604  
**P** (919) 873-2211  
**F** (919) 873-9555  
 North Carolina Registered F-0869  
**Terracon.com**

	STATION	FOUNDATION TYPE	FACTORED RESISTANCE	MISCELLANEOUS DETAILS
END BENT 1	19+36.87 -L-	Cap on HP 12 x 53 Steel Piles	81 tons/pile	Bottom of Cap Elevation = 207.8 ± ft Estimated Average Pile Length = 50 ± ft Number of Piles = 7 Pile Spacing = 6' - 0"
END BENT 2	20+09.13 -L-	Cap on HP 12 x 53 Steel Piles	81 tons/pile	Bottom of Cap Elevation = 207.2 ± ft Estimated Average Pile Length = 50 ± ft Number of Piles = 7 Pile Spacing = 6' - 0"

COMMENTS & NOTES (See Following Page)

FOUNDATION RECOMMENDATION NOTE ON PLANS AND COMMENTS

PROJECT: BP8.R013 TIP: SF-760140 COUNTY: RICHMOND  
DESCRIPTION: BRIDGE NO. 140 ON SR 1971 (SANDHILL ROAD) OVER SOLOMONS CREEK

**FOUNDATION RECOMMENDATION NOTE ON PLANS:**

1. FOR PILES, SEE SECTION PILES PROVISION AND SECTION 450 OF THE STANDARD SPECIFICATIONS.

**FOUNDATION RECOMMENDATION COMMENTS:**

1. USE 1.5 : 1 (H:V) END BENT SLOPES WITH CLASS II RIP-RAP SLOPE PROTECTION.
2. USE TYPE II MODIFIED BRIDGE APPROACH FILLS, SEE STANDARD DRAWING 422.02 OF THE ROADWAY STANDARD DRAWINGS (JANUARY 2012).
3. A WAITING PERIOD IS NOT REQUIRED PRIOR TO THE CONSTRUCTION OF END BENT NO.1 AND END BENT NO.2.
4. THE FACTORED AXIAL LOAD FOR END BENTS NO. 1 AND 2 IS 81 TONS PER PILE.
5. USE VERTICAL PILES AT END BENTS.