

SHORING LOCATION No.	BEGIN STATION & OFFSET	END STATION & OFFSET	ESTIMATED AVERAGE HEIGHT	ESTIMATED MAXIMUM HEIGHT	SHORING LOCATION TYPE
No. 1	-XSB- STA 19+80± 18.0' RT	-XSB- STA 20+22± 18.0' RT	6.3 FT	8.2 FT	STRUCTURE
No. 2	-XSB- STA 19+76± 16.8' RT	-XSB- STA 20+05± 16.8' RT	4.9 FT	8.6 FT	STRUCTURE
No. 3	-XSB- STA 21+77± 18.0' RT	-XSB- STA 22+18± 18.0' RT	6.3 FT	8.4 FT	STRUCTURE
No. 4	-XSB- STA 21+95± 16.8' RT	-XSB- STA 22+24± 16.7' RT	4.9 FT	8.6 FT	STRUCTURE
No. 5	-L- STA 19+32± 13.5' RT	-L- STA 19+74± 13.5' RT	5.8 FT	8.0 FT	STRUCTURE
No. 6	-L- STA 19+31± 9.6' RT	-L- STA 19+60± 9.6' RT	5.2 FT	9.1 FT	STRUCTURE
No. 7	-L- STA 21+28± 13.5' RT	-L- STA 21+70± 13+5' RT	6.6 FT	9.2 FT	STRUCTURE
No. 8	-L- STA 21+50± 9.6' RT	-L- STA 21+79± 9.6' RT	5.5 FT	9.6 FT	STRUCTURE

SHORING LOCATION NO. 1,3,5, & 7

FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.

BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.

DESIGN TEMPORARY SHORING LOCATION NOS. 1, 3, 5, AND 7 FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT ( $\gamma$ )= 115 PCF  
 FRICTION ANGLE ( $\phi$ )= 28 DEGREES  
 COHESION (c) = 0 PSF  
 GROUNDWATER ELEVATION = 588.0 FT

LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF TEMPORARY SHORING LOCATION NOS. 1, 3, 5, AND 7. THE INFORMATION PROVIDED FOR TEMPORARY SHORING DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

DRIVEN PILING FOR TEMPORARY SHORING LOCATION NOS. 1 AND 5 AND MAY NOT PENETRATE BELOW ELEVATION 587 FT DUE TO OBSTRUCTIONS, VERY DENSE OR HARD SOIL, BOULDERS OR WEATHERED OR HARD ROCK.

DRIVEN PILING FOR TEMPORARY SHORING LOCATION NOS. 3 AND 7 AND MAY NOT PENETRATE BELOW ELEVATION 580 FT DUE TO OBSTRUCTIONS, VERY DENSE OR HARD SOIL, BOULDERS OR WEATHERED OR HARD ROCK.

IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING LOCATION NOS. 1, 3, 5, AND 7. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.

SHORING LOCATION NO. 2,4,6, & 8

FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.

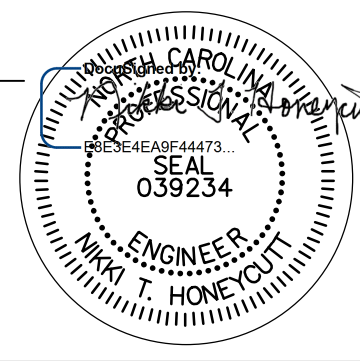
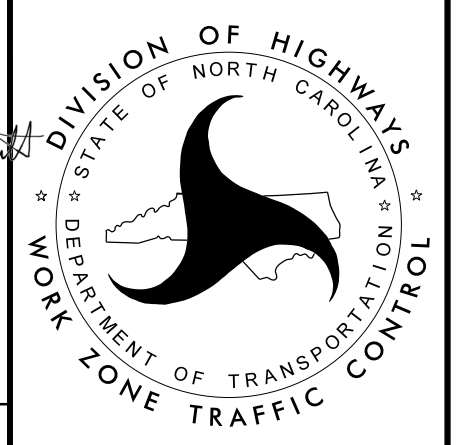
BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.

DESIGN TEMPORARY SHORING LOCATION NOS. 2, 4, 6, AND 8, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT ( $\gamma$ )= 120 PCF  
 FRICTION ANGLE ( $\phi$ )= 30 DEGREES  
 COHESION (c) = 0 PSF  
 GROUNDWATER ELEVATION = 588.1 FT

LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF TEMPORARY SHORING LOCATION NOS. 2, 4, 6, AND 8. THE INFORMATION

2/24/2023  
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 mabdelaziz

APPROVED: _____ DATE: 2/27/2023  SEAL  		<h2>TEMPORARY SHORING NOTES</h2>
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>		