

July 13, 2026

WBS Number: 46978.1.1
TIP Number: R-5810
County: Martin
Description: US 17 from North of SR 1205 (Holly Creek Blvd) to SR 1119 (Ralph Taylor Rd)

Subject: Temporary Shoring Recommendations

For the referenced project, the following locations have temporary shoring proposed:

Table 1: Temporary Shoring Locations

Shoring Location No.	Begin Station & Offset	End Station & Offset	Average Shoring Height (ft)	Estimated Maximum Height (ft)	Shoring Location, Type, Traffic Control Plan
1	-L- STA 23+90 30.2 FT RT	-L- STA 24+40 30.0 FT RT	5.9	9.0	Roadway -L- Pipe Installation (Cut, TC Phase I, TMP-05A)
2	-L- STA 23+90 26.4 FT RT	-L- STA 24+40 26.0 FT RT	5.9	9.0	Roadway -L- Pipe Installation (Cut, TC Phase I, TMP-05A)

The following notes on plans are recommended for the proposed shoring locations:

Shoring Location No. 1:

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

TEMPORARY SHORING IS REQUIRED FOR THE PIPE INSTALLATION FROM STATION -L- STA 23+90±, 30.2 FT RT TO STATION -L- 24+40±, 30.0 FT RT.

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 FROM STATION -L- STA 23+90±, 30.2 FT RT TO STATION -L- 24+40±, 30.0 FT RT FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT (γ): 120 PCF

FRICTION ANGLE (ϕ): 30 DEGREES

COHESION (c): 0 PSF

GROUNDWATER ELEVATION: VARIES, USE 2 FT BELOW THE GROUND SURFACE ELEVATION

NO SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF TEMPORARY SHORING FROM STATION -L- STA 23+90±, 30.2 FT RT TO STATION -L- 24+40±, 30.0 FT RT. THE INFORMATION PROVIDED FOR TEMPORARY SHORING DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- STA 23+90±, 30.2 FT RT TO STATION -L- 24+40±, 30.0 FT RT.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -L- STA 23+90±, 30.2 FT RT TO STATION -L- 24+40±, 30.0 FT RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION -L- STA 23+90±, 30.2 FT RT TO STATION -L- 24+40±, 30.0 FT RT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.



Shoring Location No. 2:

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

TEMPORARY SHORING IS REQUIRED FOR THE PIPE INSTALLATION FROM STATION -L- STA 23+90±, 26.4 FT RT TO -L- STA 24+40±, 26.0 FT RT.

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 FROM STATION -L- STA 23+90±, 26.4 FT RT TO -L- STA 24+40±, 26.0 FT RT FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT (γ): 120 PCF

FRICTION ANGLE (ϕ): 30 DEGREES

COHESION (c): 0 PSF

GROUNDWATER ELEVATION: VARIES, USE 2 FT BELOW THE GROUND SURFACE ELEVATION

NO SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF TEMPORARY SHORING FROM STATION -L- STA 23+90±, 26.4 FT RT TO -L- STA 24+40±, 26.0 FT RT. THE INFORMATION PROVIDED FOR TEMPORARY SHORING DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- STA 23+90±, 26.4 FT RT TO -L- STA 24+40±, 26.0 FT RT.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -L- STA 23+90±, 26.4 FT RT TO -L- STA 24+40±, 26.0 FT RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION -L- STA 23+90±, 26.4 FT RT TO -L- STA 24+40±, 26.0 FT RT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.

Include the attached NCDOT Geotechnical Standard Detail No. 1801.01, Standard Shoring Provision, Temporary Soil Nail Wall Provision, and Temporary Shoring Special Provision (SP11 R002) in the contract for the referenced project.

Prepared by,

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7/13/2026

ATTACHMENTS:

- Temporary Shoring Provision
- Temporary Soil Nail Walls Provision
- Temporary Shoring Special Provision
- NCDOT Standard Detail 1801.01