

PROJ. REFERENCE NO.	SHEET NO.
BR-0100	TMP-02A

SHORING NOTES

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 END BENT CONSTRUCTION FROM STATION 17+30 ± -L-, 27.5' LT, TO STATION 17+85 ± -L-, 27.5' LT.

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 17+30 ± -L-, 27.5' LT, TO STATION 17+85 ± -L-, 27.5' LT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

- UNIT WEIGHT (γ) = 120 LB/CF
- FRICTION ANGLE (ϕ) = 30 DEGREES
- COHESION (c) = 0 LB/SF
- GROUNDWATER ELEVATION = 1090 FT

DRIVEN PILING FOR TEMPORARY SHORING FROM STATION 17+30 ± -L-, 27.5' LT, TO STATION 17+85 ± -L-, 27.5' LT MAY NOT PENETRATE BELOW ELEVATION 1088 FT DUE TO OBSTRUCTIONS, VERY DENSE OR HARD SOIL, BOULDERS OR WEATHERED OR HARD ROCK.

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION 17+30 ± -L-, 27.5' LT, TO STATION 17+85 ± -L-, 27.5' LT.

IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION 17+30 ± -L-, 27.5' LT, TO STATION 17+85 ± -L-, 27.5' LT. 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 END BENT CONSTRUCTION FROM STATION 18+75 ± -L-, 27.5' LT, TO STATION 19+42 ± -L-, 27.5' LT.

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 18+75 ± -L-, 27.5' LT, TO STATION 19+42 ± -L-, 27.5' LT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

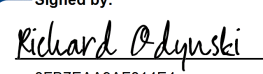
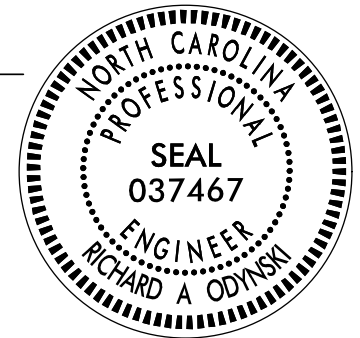
- UNIT WEIGHT (γ) = 120 LB/CF
- FRICTION ANGLE (ϕ) = 30 DEGREES
- COHESION (c) = 0 LB/SF
- GROUNDWATER ELEVATION = 1090 FT

DRIVEN PILING FOR TEMPORARY SHORING FROM STATION 18+75 ± -L-, 27.5' LT, TO STATION 19+42 ± -L-, 27.5' LT MAY NOT PENETRATE BELOW ELEVATION 1087 FT DUE TO OBSTRUCTIONS, VERY DENSE OR HARD SOIL, BOULDERS OR WEATHERED OR HARD ROCK.

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION 18+75 ± -L-, 27.5' LT, TO STATION 19+42 ± -L-, 27.5' LT.

IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION 18+75 ± -L-, 27.5' LT, TO STATION 19+42 ± -L-, 27.5' LT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.

THE TEMPORARY SHORING NOTES SHOWN ON THIS SHEET WERE PROVIDED THROUGH A SEALED DOCUMENT FROM THE GEOTECHNICAL ENGINEERING UNIT. THE DOCUMENT WAS SUBMITTED TO THE WZTC SECTION ON AUGUST 23, 2023 AND SEALED BY A PROFESSIONAL ENGINEER, SHIPING YANG, LICENSE # 031361.

<p>APPROVED:  <small>SFBTEAAAF814E4</small></p> <p>DATE: 12/17/2024</p> <p style="text-align: center;">SEAL</p>		<p style="font-size: 2em; font-weight: bold; margin: 0;">wsp</p> <p style="font-size: 0.8em; margin: 0;">1001 Morehead Square Dr. Suite 610 Charlotte NC, 28203</p> <p style="font-size: 0.8em; margin: 0;">NC LIC. NO. F-0165</p>	<p style="font-weight: bold; margin: 0;">TRANSPORTATION MANAGEMENT PLAN SHORING NOTES</p>
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>			