

NOTES FOR TEMPORARY SHORING NO. 1

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

TEMPORARY SHORING IS REQUIRED FOR THE BRIDGE END BENT CONSTRUCTION FROM STATION -L1- STA. 12+50.72±, 14.30’ LT, TO STATION -L1- 12+57.02±, 20.70 LT, TO STATION -L1- STA. 12+77.63±, 20.38’ 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 -L1- STA. 12+50.72±, 14.30’ LT, TO STATION -L1- 12+57.02±, 20.70 LT, TO STATION -L1- STA. 12+77.63±, 20.38’ LT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

- UNIT WEIGHT (γ) = 120 PCF
- FRICTION ANGLE (ϕ) = 28 DEGREES
- COHESION (c) = 0 PSF
- GROUNDWATER ELEVATION = 1,458 FT

DRIVEN PILING FOR TEMPORARY SHORING FROM STATION -L1- STA. 12+50.72±, 14.30’ LT, TO STATION -L1- 12+57.02±, 20.70 LT, TO STATION -L1- STA. 12+77.63±, 20.38’ LT MAY NOT PENETRATE BELOW ELEVATION 1,453 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 -L1- STA. 12+50.72±, 14.30’ LT, TO STATION -L1- 12+57.02±, 20.70 LT, TO STATION -L1- STA. 12+77.63±, 20.38’ LT.

AT THE CONTRACTOR’S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -L1- STA. 12+50.72±, 14.30’ LT, TO STATION -L1- 12+57.02±, 20.70 LT, TO STATION -L1- STA. 12+77.63±, 20.38’ LT. SEE 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 -L1- STA. 12+50.72±, 14.30’ LT, TO STATION -L1- 12+57.02±, 20.70 LT, TO STATION -L1- STA. 12+77.63±, 20.38’ LT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.

NOTES FOR TEMPORARY SHORING NO. 2

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

TEMPORARY SHORING IS REQUIRED FOR THE BRIDGE END BENT CONSTRUCTION FROM STATION -L1- STA. 14+04.78±, 21.83’ LT, TO STATION -L1- STA. 14+10.16±, 33.37’ LT, TO STATION -L1- STA. 14+18.98±, 29.15’ LT , TO STATION -L1- STA. 14+30.31±, 20.61’ LT, TO STATION -L1- STA. 14+57.25±, 17.11’ 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 -L1- STA. 14+04.78±, 21.83’ LT, TO STATION -L1- STA. 14+10.16±, 33.37’ LT, TO STATION -L1- STA. 14+18.98±, 29.15’ LT , TO STATION -L1- STA. 14+30.31±, 20.61’ LT, TO STATION -L1- STA. 14+57.25±, 17.11’ RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

- UNIT WEIGHT (γ) = 120 PCF
- FRICTION ANGLE (ϕ) = 28 DEGREES
- COHESION (c) = 0 PSF
- GROUNDWATER ELEVATION = 1,452 FT

DRIVEN PILING FOR TEMPORARY SHORING FROM STATION -L1- STA. 14+04.78±, 21.83’ LT, TO STATION -L1- STA. 14+10.16±, 33.37’ LT, TO STATION -L1- STA. 14+18.98±, 29.15’ LT , TO STATION -L1- STA. 14+30.31±, 20.61’ LT, TO STATION -L1- STA. 14+57.25±, 17.11’ RT MAY NOT PENETRATE BELOW ELEVATION 1,451 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 -L1- STA. 14+04.78±, 21.83’ LT, TO STATION -L1- STA. 14+10.16±, 33.37’ LT, TO STATION -L1- STA. 14+18.98±, 29.15’ LT , TO STATION -L1- STA. 14+30.31±, 20.61’ LT, TO STATION -L1- STA. 14+57.25±, 17.11’ RT.

AT THE CONTRACTOR’S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -L1- STA. 14+04.78±, 21.83’ LT, TO STATION -L1- STA. 14+10.16±, 33.37’ LT, TO STATION -L1- STA. 14+18.98±, 29.15’ LT , TO STATION -L1- STA. 14+30.31±, 20.61’ LT, TO STATION -L1- STA. 14+57.25±, 17.11’ RT. SEE 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 -L1- STA. 14+04.78±, 21.83’ LT, TO STATION -L1- STA. 14+10.16±, 33.37’ LT, TO STATION -L1- STA. 14+18.98±, 29.15’ LT , TO STATION -L1- STA. 14+30.31±, 20.61’ LT, TO STATION -L1- STA. 14+57.25±, 17.11’ RT. 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 DIVISION 14 ON OCTOBER 24, 2025, AND SEALED BY A PROFESSIONAL ENGINEER, SHIPING YANG, LICENSE #031361.

BP14-R038


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NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

ROLE COUNTY



WORK ZONE TRAFFIC CONTROL UNIT

Division 14

Professional Engineer's Seal


SHIPING YANG

031533

ENGINEER

11/21/2025

PREPARED BY



VHB Engineering NC, P.C. (C-3705)

5400 Main Campus Drive, Suite 500

Raleigh, NC 27606

TEMPORARY SHORING DATA

TIP PROJECT: BP14-R038