


TEMPORARY SHORING DATA

PROJ. REFERENCE NO.	SHEET NO.
BP7.R006	TMP-2B
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

SHORING LOCATION NO. 7

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 -Y- STA. 14+46 +/-, 12.20' RT, TO -Y- STA. 14+95 +/-, 12.20' RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT (γ) = 120 PCF
 FRICTION ANGLE (ϕ) = 32 DEGREES
 COHESION (c) = 0 PSF
 GROUNDWATER ELEVATION = 773 FT

LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF TEMPORARY SHORING FROM -Y- STA. 14+46 +/-, 12.20' RT, TO -Y- STA. 14+95 +/-, 12.20' RT. 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 FROM -Y- STA. 14+46 +/-, 12.20' RT, TO -Y- STA. 14+95 +/-, 12.20' RT MAY NOT PENETRATE BELOW ELEVATION 775 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 -Y- STA. 14+46 +/-, 12.20' RT, TO -Y- STA. 14+95 +/-, 12.20' RT.

AT THE CONTRACTOR'S OPTION, USE A STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM -Y- STA. 14+46 +/-, 12.20' RT, TO -Y- STA. 14+95 +/-, 12.20' RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY WALLS.

SHORING LOCATION NO. 8

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 -Y- STA. 14+22 +/-, 76.65' RT, TO -Y- STA. 14+71 +/-, 76.65' RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT (γ) = 120 PCF
 FRICTION ANGLE (ϕ) = 32 DEGREES
 COHESION (c) = 0 PSF
 GROUNDWATER ELEVATION = 773 FT

LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF TEMPORARY SHORING FROM -Y- STA. 14+22 +/-, 76.65' RT, TO -Y- STA. 14+71 +/-, 76.65' RT. 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 FROM -Y- STA. 14+22 +/-, 76.65' RT, TO -Y- STA. 14+71 +/-, 76.65' RT MAY NOT PENETRATE BELOW ELEVATION 765 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 -Y- STA. 14+22 +/-, 76.65' RT, TO -Y- STA. 14+71 +/-, 76.65' RT.

AT THE CONTRACTOR'S OPTION, USE A STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM -Y- STA. 14+22 +/-, 76.65' RT, TO -Y- STA. 14+71 +/-, 76.65' RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY WALLS.

SHORING LOCATION NO. 9

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 -Y- STA. 14+35 +/-, 76.56' LT, TO -Y- STA. 14+84 +/-, 76.56' LT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT (γ) = 120 PCF
 FRICTION ANGLE (ϕ) = 32 DEGREES
 COHESION (c) = 0 PSF
 GROUNDWATER ELEVATION = 773 FT

LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF TEMPORARY SHORING FROM -Y- STA. 14+35 +/-, 76.56' LT, TO -Y- STA. 14+84 +/-, 76.56' LT. 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 FROM -Y- STA. 14+35 +/-, 76.56' LT, TO -Y- STA. 14+84 +/-, 76.56' LT MAY NOT PENETRATE BELOW ELEVATION 775 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 -Y- STA. 14+35 +/-, 76.56' LT, TO -Y- STA. 14+84 +/-, 76.56' LT.

AT THE CONTRACTOR'S OPTION, USE A STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM -Y- STA. 14+35 +/-, 76.56' LT, TO -Y- STA. 14+84 +/-, 76.56' LT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY WALLS.

SHORING LOCATION NO. 10

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 -Y- STA. 14+08 +/-, 12.42' LT, TO -Y- STA. 14+57 +/-, 12.42' LT, 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 = 773 FT

LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF TEMPORARY SHORING FROM -Y- STA. 14+08 +/-, 12.42' LT, TO -Y- STA. 14+57 +/-, 12.42' LT. 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 FROM -Y- STA. 14+08 +/-, 12.42' LT, TO -Y- STA. 14+57 +/-, 12.42' LT MAY NOT PENETRATE BELOW ELEVATION 775 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 -Y- STA. 14+08 +/-, 12.42' LT, TO -Y- STA. 14+57 +/-, 12.42' LT.

AT THE CONTRACTOR'S OPTION, USE A STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM -Y- STA. 14+08 +/-, 12.42' LT, TO -Y- STA. 14+57 +/-, 12.42' LT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY WALLS.

SHORING LOCATION NO. 11

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 -Y- STA. 14+08 +/-, 12.20' RT, TO -Y- STA. 14+57 +/-, 12.20' RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT (γ) = 120 PCF
 FRICTION ANGLE (ϕ) = 32 DEGREES
 COHESION (c) = 0 PSF
 GROUNDWATER ELEVATION = 773 FT

LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF TEMPORARY SHORING FROM -Y- STA. 14+08 +/-, 12.20' RT, TO -Y- STA. 14+57 +/-, 12.20' RT. 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 FROM -Y- STA. 14+08 +/-, 12.20' RT, TO -Y- STA. 14+57 +/-, 12.20' RT MAY NOT PENETRATE BELOW ELEVATION 775 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 -Y- STA. 14+08 +/-, 12.20' RT, TO -Y- STA. 14+57 +/-, 12.20' RT.

AT THE CONTRACTOR'S OPTION, USE A STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM -Y- STA. 14+08 +/-, 12.20' RT, TO -Y- STA. 14+57 +/-, 12.20' RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY WALLS.

SHORING LOCATION NO. 12

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 -Y- STA. 13+87 +/-, 76.65' RT, TO -Y- STA. 14+33 +/-, 76.65' RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

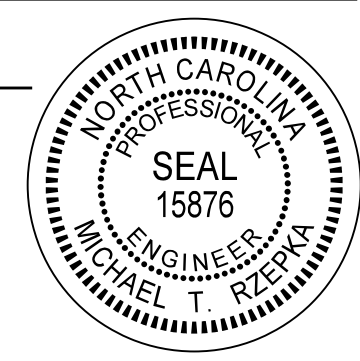

UNIT WEIGHT (γ) = 120 PCF
 FRICTION ANGLE (ϕ) = 32 DEGREES
 COHESION (c) = 0 PSF
 GROUNDWATER ELEVATION = 773 FT

LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF TEMPORARY SHORING FROM -Y- STA. 13+87 +/-, 76.65' RT, TO -Y- STA. 14+33 +/-, 76.65' RT. 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 FROM -Y- STA. 14+22 +/-, 76.65' RT, TO -Y- STA. 14+71 +/-, 76.65' RT MAY NOT PENETRATE BELOW ELEVATION 765 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 -Y- STA. 14+22 +/-, 76.65' RT, TO -Y- STA. 14+71 +/-, 76.65' RT.

AT THE CONTRACTOR'S OPTION, USE A STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM -Y- STA. 14+22 +/-, 76.65' RT, TO -Y- STA. 14+71 +/-, 76.65' RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY WALLS.

APPROVED: <i>Michael T. Rzepka</i> DATE: 1/20/2023 SEAL 		TEMPORARY SHORING DATA
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

PLOT DRIVER: NCDOT_pdf_color_eng_50.pit
 USER: CHARNDEN
 FILE: p:\pwhdr\usesd01\HDR_US_East_01\Documents\5705\10121116\6.0_CAD_BITMAP\6.2_WIP\TrafficControl\TCP\400225-TC_TMP02A&B.dgn
 PENTABLE: NCDOT_tcp.tbl
 TIME: 10:42:37 AM
 DATE: 1/17/2023
 REVISIONS