

# TEMPORARY SHORING DATA

**HDR** 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

PROJ. REFERENCE NO.	SHEET NO.
B-5639	TMP-2B

Shoring Location No. 1  (SEE SHEET TMP-4)

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 FROM STATION -L- 22+55±, 24' RT, TO STATION -L- 23+00±, 24' RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT ( $\gamma$ ) = 120 LB/CF  
FRICTION ANGLE ( $\phi$ ) = 30 DEGREES  
COHESION (c) = 0 LB/SF  
GROUNDWATER ELEVATION = 55.0 FT ±

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 22+55±, 24' RT, TO STATION -L- 23+00±, 24' RT.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -L- 22+55±, 24' RT, TO STATION -L- 23+00±, 24' RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

Shoring Location No. 2  (SEE SHEET TMP-4)

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 FROM STATION -L- 24+13±, 24' RT, TO STATION -L- 24+55±, 24' RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT ( $\gamma$ ) = 120 LB/CF  
FRICTION ANGLE ( $\phi$ ) = 30 DEGREES  
COHESION (c) = 0 LB/SF  
GROUNDWATER ELEVATION = 55.0 FT ±

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 24+13±, 24' RT, TO STATION -L- 24+55±, 24' RT.

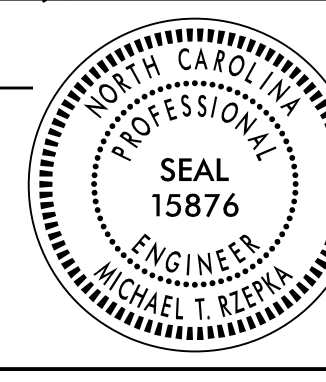
AT THE CONTRACTOR'S OPTION AND WHEN APPLICABLE, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -L- 24+13±, 24' RT, TO STATION -L- 24+55±, 24' RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

THE TEMPORARY SHORING NOTES SHOWN ON THIS SHEET WERE PROVIDED THROUGH A SEALED DOCUMENTS FROM THE GEO TECHNICAL ENGINEERING UNIT. THE DOCUMENT WAS DATED AND SEALED ON 02/19/2020 BY A PROFESSIONAL ENGINEER, JINYOUNG PARK, LICENSE #032171.

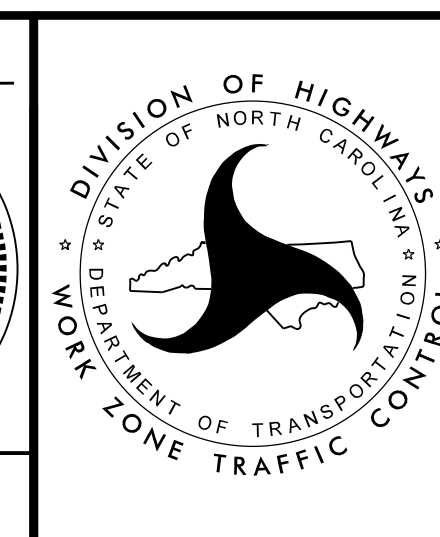
PLOT DRIVER: NCDOT\_pdf\_mono\_eng\_50.plt  
USER: MRZEPKA  
FILE: p:\w\h\users\01\HDR-US\_East\_01\Documents\5705\10127505\6.0\_CAD\_BIM\6.2\_WIP\Division\_03\B-5639\_TrafficControl\TCP\B5639\_tmp\_02b\_shoring\_doto.dgn  
PENTABLE: NCDOT\_tcp.tbl  
DATE: 3/27/2020  
TIME: 9:14:50 AM

APPROVED: *Michael T. Ryepka*

DATE: 1/6/2021



**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**



TEMPORARY SHORING DATA