DocuSign Envelope ID: 3B2F8F0D-22DC-4008-B948-8CB03EAEAA69

PROJ. REFERENCE NO.	SHEET NO.
B-4654	TMP-02A

TEMPORARY SHORING & WALL NOTES

TEMPORARY SHORING NO. 1A (SEE SHEET TMP-05 AND TMP-05A)

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- 21+46±, 19.0 FT. RIGHT, TO STATION -L- 21+80±, 19.0 FT. RIGHT, 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 = 335.0 FT ±

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 21+46±, 19.0 FT. RIGHT, TO STATION -L- 21+80±, 19.0 FT. RIGHT.

AT THE CONTRACTOR*S OPTION, USE STANDARD SHORING, GEOTECHNICAL STANDARD DETAIL NO. 1801.01, FOR TEMPORARY SHORING FROM STATION -L- 21+46±, 19.0 FT. RIGHT, TO STATION -L- 21+80±, 19.0 FT. RIGHT EXCEPT FOR TEMPORARY SHORING HEIGHTS ABOVE 12 FEET. ENGINEERED CANTILEVERED SHORING WILL BE REQUIRED FOR SHORING HEIGHTS EXCEEDING 12 FEET.

IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION -L- 21+46±, 19.0 FT. RIGHT, TO STATION -L- 21+80±, 19.0 FT. RIGHT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.

TEMPORARY WALL NO. 1B (SEE SHEET TMP-05 AND TMP-05A)

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

BEFORE BEGINNING TEMPORARY WALL DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL WALL HEIGHTS.

DESIGN TEMPORARY WALL FROM STATION -L- 21+33±, 19.0 FT. RIGHT, TO STATION -L- 21+80±, 19.0 FT. RIGHT, 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 = 335.0 FT ±

DO NOT USE CANTILEVER, BRACED AND/OR ANCHORED SHORING FOR TEMPORARY WALL FROM STATION -L- 21+33±, 19.0 FT. RIGHT, TO STATION -L- 21+80±, 19.0 FT. RIGHT.

WHEN BACKFILL FOR RETAINING WALLS AND BRIDGE APPROACH FILLS OVERLAPS WITH THE REINFORCED ZONE OF TEMPORARY WALLS, USE SHORING BACKFILL OR BACKFILL MATERIAL REQUIRED FOR RETAINING WALLS AND BRIDGE APPROACH FILLS, WHICHEVER IS BETTER, IN THE REINFORCED ZONE OF TEMPORARY WALLS.

AT THE CONTRACTOR*S OPTION, USE A STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 21+33±, 19.0 FT. RIGHT, TO STATION -L- 21+80±, 19.0 FT. RIGHT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.

WHEN BACKFILL FOR RETAINING WALLS AND BRIDGE APPROACH FILLS OVERLAPS WITH THE REINFORCED ZONE OF TEMPORARY WALLS, USE SHORING BACKFILL OR BACKFILL MATERIAL REQUIRED FOR RETAINING WALLS AND BRIDGE APPROACH FILLS, WHICHEVER IS BETTER, IN THE REINFORCED ZONE OF TEMPORARY WALLS.

TEMPORARY SHORING NO. 2A (SEE SHEET TMP-05 AND TMP-05A)

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- 23+27±, 19.0 FT. RIGHT, TO STATION -L- 23+82±, 19.0 FT. RIGHT, 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 = 341.0 FT ±

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 23+27±, 19.0 FT. RIGHT, TO STATION -L- 23+82±, 19.0 FT. RIGHT.

AT THE CONTRACTOR*S OPTION, USE STANDARD SHORING, GEOTECHNICAL STANDARD DETAIL NO. 1801.01, FOR TEMPORARY SHORING FROM STATION -L- 23+27±, 19.0 FT. RIGHT, TO STATION -L- 23+82±, 19.0 FT. RIGHT EXCEPT FOR TEMPORARY SHORING HEIGHTS ABOVE 12 FEET. ENGINEERED CANTILEVERED SHORING WILL BE REQUIRED FOR SHORING HEIGHTS EXCEEDING 12 FEET.

IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION -L- 23+27±, 19.0 FT. RIGHT, TO STATION -L- 23+82±, 19.0 FT. RIGHT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.

APPROVED: _____

DATE: 1/11/2024

NORTH CAROLINA PROFESSIONAL SEAL 18122 ENGINEER JEFFREY K. EDMONTZ

Digitally signed by Jeffrey K. Edmontz
B4EBFECCD23B4F7...

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

AECOM
NC FIRM LICENSE No: F-3042
5438 Wade Park Blvd., Ste 200
Raleigh, NC 27607
919.854.6200

TEMPORARY SHORING NOTES

1/11/2024
L:\Legacy\Projects\60436195-B-4654\900_Work\90_CAD\70_NCDOT_TIP\Traffic\TrafficControl\TCP\current files\B4654_TC_TMP_02A_TempShoringNotes.dgn
patrick.mcpherson