PROJ. REFERENCE NO.	SHEET NO.
I-5987B	TMP-2TS8

TEMPORARY SHORING LOCATION NO. B2-01

SEE SHEETS TMP-146, 147

ESTIMATED QUANTITY = 3510 SF

-L- STA. 797+00±, 33.0′ RT TO -L- STA. 802+40±, 33.0′ RT
LENGTH = 540′ AVERAGE HEIGHT = 6.5 FT MAXIMUM HEIGHT = 7.8 FT

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- 797+00±, 33 FT RT, TO STATION -L- 802+40±, 33 FT RT, 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 = 144 FT±

DO NOT USE CANTILEVER, BRACED AND/OR ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION -L- 797+00±, 33 FT RT, TO STATION -L- 802+40±, 33 FT RT.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 797+00±, 33 FT RT, TO STATION -L- 802+40±, 33 FT RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.

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

TEMPORARY SHORING LOCATION NO. B2-02

SEE SHEET TMP-147

ESTIMATED QUANTITY = 3791 SF

-L- STA. 803+92±, 33.0′ RT TO -L- STA. 808+60±, 33.0′ RT
LENGTH = 468′ AVERAGE HEIGHT = 8.1 FT MAXIMUM HEIGHT = 8.5 FT

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- 803+92±, 33 FT RT, TO STATION -L- 808+60±, 33 FT RT, 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 = 144 FT±

DO NOT USE CANTILEVER, BRACED AND/OR ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION -L- 803+92±, 33 FT RT, TO STATION -L- 808+60±, 33 FT RT.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 803+92±, 33 FT RT, TO STATION -L- 808+60±, 33 FT RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.

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

TEMPORARY SHORING LOCATION NO. B2-03

SEE SHEET TMP-157

ESTIMATED QUANTITY = 732 SF

-Y1B- STA. 27+50±, 32.0′ LT TO -Y1B- STA. 28+09±, 32.0′ LT
LENGTH = 59′ AVERAGE HEIGHT = 12.4 FT MAXIMUM HEIGHT = 17.0 FT

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 -Y1B- 27+50±, 32 FT LT, TO STATION -Y1B- 28+09±, 32 FT 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 = 161 FT±

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -Y1B- 27+50±, 32 FT LT, TO STATION -Y1B- 28+09±, 32 FT LT.

IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION -Y1B- 27+50±, 32 FT LT, TO STATION -Y1B- 28+09±, 32 FT LT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.

TEMPORARY SHORING LOCATION NO. B2-04

SEE SHEET TMP-157

ESTIMATED QUANTITY = 1701 SF

-Y1B- STA. 26+20±, 27.0′ LT TO -Y1B- STA. 28+09±, 27.0′ LT
LENGTH = 189′ AVERAGE HEIGHT = 9.0 FT MAXIMUM HEIGHT = 22.0 FT

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 -Y1B- 26+20±, 27 FT LT, TO STATION -Y1B- 28+09±, 27 FT 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 = 161 FT±

DO NOT USE CANTILEVER, BRACED AND/OR ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION -Y1B- 26+20±, 27 FT LT, TO STATION -Y1B- 28+09±, 27 FT LT.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -Y1B- 26+20±, 27 FT LT, TO STATION -Y1B- 28+09±, 27 FT LT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.

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

TEMPORARY SHORING LOCATION NO. B2-05

SEE SHEET TMP-158

ESTIMATED QUANTITY = 656 SF

-Y1B- STA. 30+28±, 32.0′ LT TO -Y1B- STA. 30+85±, 32.0′ LT
LENGTH = 57′ AVERAGE HEIGHT = 11.5 FT MAXIMUM HEIGHT = 16.0 FT

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 -Y1B- 30+28±, 32 FT LT, TO STATION -Y1B- 30+85±, 32 FT 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 = 162 FT±

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -Y1B- 30+28±, 32 FT LT, TO STATION -Y1B- 30+85±, 32 FT LT.

IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION -Y1B- 30+28±, 32 FT LT, TO STATION -Y1B- 30+85±, 32 FT LT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.

TEMPORARY SHORING LOCATION NO. B2-06

SEE SHEET TMP-158

ESTIMATED QUANTITY = 4273 SF

-Y1B- STA. 30+28±, 27.0′ LT TO -Y1B- STA. 32+75±, 27.0′ LT
LENGTH = 247′ AVERAGE HEIGHT = 17.3 FT MAXIMUM HEIGHT = 23.0 FT

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 -Y1B- 30+28±, 27 FT LT, TO STATION -Y1B- 32+75±, 27 FT 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 = 162 FT±

DO NOT USE CANTILEVER, BRACED AND/OR ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION -Y1B- 30+28±, 27 FT LT, TO STATION -Y1B- 32+75±, 27 FT LT.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -Y1B- 30+28±, 27 FT LT, TO STATION -Y1B- 32+75±, 27 FT LT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.

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

THE TEMPORARY SHORING NOTES SHOWN ON THIS SHEET WERE PROVIDED THROUGH A SEALED DOCUMENT FROM THE GEOTECHNICAL ENGINEER. THE DOCUMENT WAS SUBMITTED TO STANTEC CONSULTING ON (FEB 10, 2022) AND SEALED BY A PROFESSIONAL ENGINEER, (JINYOUNG PARK, Ph.D., P.E.), LICENSE #032171.

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DocuSigned by: J.W. Woolard Jr. BBC02F49E95E4C...

4/29/2022

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

SECTION 2

TEMPORARY SHORING NOTES
SECTION 2
LOCATIONS B2-01
THRU B2-06

3/15/2022
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