

PROJ. REFERENCE NO.	SHEET NO.
I-5987B	TMP-2TS10

SEE SHEET TMP-175

TEMPORARY SHORING LOCATION NO. (B2-13) ESTIMATED QUANTITY = 144 SF

-Y1BRPA- STA. 22+00±, 24.0' LT TO -Y1BRPA- STA. 22+35±, 24.0' LT  
LENGTH = 35' AVERAGE HEIGHT = 4.1 FT MAXIMUM HEIGHT = 7.0 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 -Y1BRPA- 22+00±, 24 FT LT, TO STATION -Y1BRPA- 22+35±, 24 FT LT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:  
UNIT WEIGHT ( $\gamma$ ) = 120 PCF  
FRICTION ANGLE ( $\phi$ ) = 30 DEGREES  
COHESION (C) = 0 PSF  
GROUNDWATER ELEVATION = 165 FT±

DO NOT USE CANTILEVER, BRACED AND/OR ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION -Y1BRPA- 22+00±, 24 FT LT, TO STATION -Y1BRPA- 22+35±, 24 FT LT.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -Y1BRPA- 22+00±, 24 FT LT, TO STATION -Y1BRPA- 22+35±, 24 FT LT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.

SEE SHEET TMP-183

TEMPORARY SHORING LOCATION NO. (B2-14) ESTIMATED QUANTITY = 826 SF

-Y6- STA. 28+92±, 31.0' RT TO -Y6- STA. 29+56±, 31.0' RT  
LENGTH = 64' AVERAGE HEIGHT = 12.9 FT MAXIMUM HEIGHT = 18.0 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 -Y6- 28+92±, 31 FT RT, TO STATION -Y6- 29+56±, 31 FT RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:  
UNIT WEIGHT ( $\gamma$ ) = 120 PCF  
FRICTION ANGLE ( $\phi$ ) = 30 DEGREES  
COHESION (C) = 0 PSF  
GROUNDWATER ELEVATION = 157 FT±

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -Y6- 28+92±, 31 FT RT, TO STATION -Y6- 29+56±, 31 FT RT.

IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION -Y6- 28+92±, 31 FT RT, TO STATION -Y6- 29+56±, 31 FT RT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.

SEE SHEET TMP-183

TEMPORARY SHORING LOCATION NO. (B2-15) ESTIMATED QUANTITY = 1152 SF

-Y6- STA. 28+92±, 26.0' RT TO -Y6- STA. 29+56±, 26.0' RT  
LENGTH = 64' AVERAGE HEIGHT = 18.0 FT MAXIMUM HEIGHT = 25.0 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 -Y6- 28+92±, 26 FT RT, TO STATION -Y6- 29+56±, 26 FT RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:  
UNIT WEIGHT ( $\gamma$ ) = 120 PCF  
FRICTION ANGLE ( $\phi$ ) = 30 DEGREES  
COHESION (C) = 0 PSF  
GROUNDWATER ELEVATION = 157 FT±

DO NOT USE CANTILEVER, BRACED AND/OR ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION -Y6- 28+92±, 26 FT RT, TO STATION -Y6- 29+56±, 26 FT RT.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -Y6- 28+92±, 26 FT RT, TO STATION -Y6- 29+56±, 26 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.

SEE SHEET TMP-183

TEMPORARY SHORING LOCATION NO. (B2-16) ESTIMATED QUANTITY = 826 SF

-Y6- STA. 31+32±, 31.0' RT TO -Y6- STA. 31+96±, 31.0' RT  
LENGTH = 64' AVERAGE HEIGHT = 12.9 FT MAXIMUM HEIGHT = 18.0 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 -Y6- 31+32±, 31 FT RT, TO STATION -Y6- 31+96±, 31 FT RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:  
UNIT WEIGHT ( $\gamma$ ) = 120 PCF  
FRICTION ANGLE ( $\phi$ ) = 30 DEGREES  
COHESION (C) = 0 PSF  
GROUNDWATER ELEVATION = 157 FT±

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -Y6- 31+32±, 31 FT RT, TO STATION -Y6- 31+96±, 31 FT RT.

IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION -Y6- 31+32±, 31 FT RT, TO STATION -Y6- 31+96±, 31 FT RT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.

SEE SHEET TMP-183

TEMPORARY SHORING LOCATION NO. (B2-17) ESTIMATED QUANTITY = 1152 SF

-Y6- STA. 31+32±, 26.0' RT TO -Y6- STA. 31+96±, 26.0' RT  
LENGTH = 64' AVERAGE HEIGHT = 18.0 FT MAXIMUM HEIGHT = 25.0 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 -Y6- 31+32±, 26 FT RT, TO STATION -Y6- 31+96±, 26 FT RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:  
UNIT WEIGHT ( $\gamma$ ) = 120 PCF  
FRICTION ANGLE ( $\phi$ ) = 30 DEGREES  
COHESION (C) = 0 PSF  
GROUNDWATER ELEVATION = 157 FT±

DO NOT USE CANTILEVER, BRACED AND/OR ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION -Y6- 31+32±, 26 FT RT, TO STATION -Y6- 31+96±, 26 FT RT.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -Y6- 31+32±, 26 FT RT, TO STATION -Y6- 31+96±, 26 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.

SEE SHEETS TMP-186, 187

TEMPORARY SHORING LOCATION NO. (B2-18) ESTIMATED QUANTITY = 6200 SF

-Y6- STA. 33+25±, 33.0' RT TO -Y6- STA. 43+25±, 14.0' LT  
LENGTH = 1000' AVERAGE HEIGHT = 6.2 FT MAXIMUM HEIGHT = 11.4 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 -Y6- 33+25±, 33 FT RT, TO STATION -Y6- 43+25±, 14 FT LT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:  
UNIT WEIGHT ( $\gamma$ ) = 120 PCF  
FRICTION ANGLE ( $\phi$ ) = 30 DEGREES  
COHESION (C) = 0 PSF  
GROUNDWATER ELEVATION = 158 FT±

DO NOT USE CANTILEVER, BRACED AND/OR ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION -Y6- 33+25±, 33 FT RT, TO STATION -Y6- 43+25±, 14 FT LT.

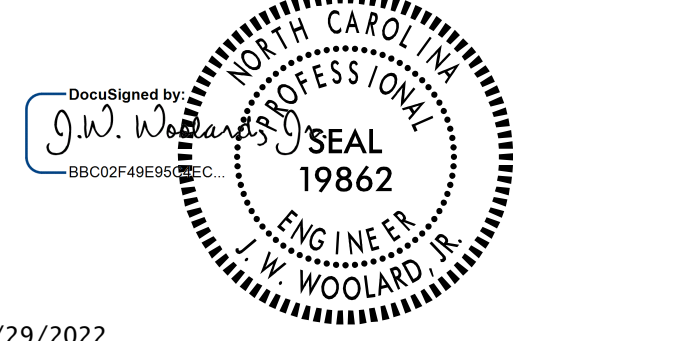
AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -Y6- 33+25±, 33 FT RT, TO STATION -Y6- 43+25±, 14 FT LT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.

3/15/2022  
U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\I-5987B\_TMP-2TS10\_TEMPORARY\_SHORING\_NOTES.dgn  
angood

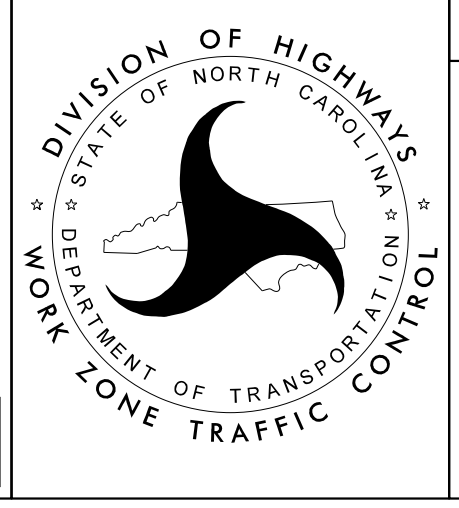
THE TEMPORARY SHORING NOTES SHOWN ON THIS SHEET WERE PROVIDED THROUGH A SEALED DOCUMENT FROM THE GEOTECHNICAL ENGINEER. THE DOCUMENT WAS SUBMITTED TO STANTEC CONSULTING ON (FEB 10, 2022) AND SEALED BY A PROFESSIONAL ENGINEER, (JINYOUNG PARK, Ph.D., P.E.), LICENSE #032171.



Stantec Consulting Services Inc.  
801 Jones Franklin Road  
Suite 300  
Raleigh, NC 27606  
Tel. 919.851.6866  
Fax. 919.851.7024  
www.stantec.com  
License No. F-0672



4/29/2022  
DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



SECTION 2

TEMPORARY SHORING NOTES  
SECTION 2  
LOCATIONS B2-13  
THRU B2-18