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| PROJ. REFERENCE NO. | SHEET NO. |
| I-5987B | TMP-2TS18 |

SEE SHEET TMP-227

TEMPORARY SHORING LOCATION NO. **UE-19** ESTIMATED QUANTITY = 3792 SF

-L- STA. 803+76±, 80.0' RT TO -L- STA. 808+75±, 80.0' RT
LENGTH = 499' AVERAGE HEIGHT = 7.6 FT MAXIMUM HEIGHT = 10.2 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+76±, 80' RT, TO STATION -L- 808+75±, 80' RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:
UNIT WEIGHT (γ) = 90 PCF (EL.≥133 FT),
120 PCF (EL.<133 FT)
FRICTION ANGLE (ϕ) = 25 DEGREES (EL.=133 FT),
30 DEGREES (EL. <133 FT)
COHESION (C) = 0 PSF
GROUNDWATER ELEVATION = 142 FT±

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 803+76±, 80' RT, TO STATION -L- 808+75±, 80' RT.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -L- 803+76±, 80' RT, TO STATION -L- 808+75±, 80' RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

SEE SHEET TMP-227

TEMPORARY SHORING LOCATION NO. **UE-20** ESTIMATED QUANTITY = 3593 SF

-L- STA. 803+76±, 130.0' RT TO -L- STA. 808+75±, 125.0' RT
LENGTH = 499' AVERAGE HEIGHT = 7.2 FT MAXIMUM HEIGHT = 10.9 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+76±, 130' RT, TO STATION -L- 808+75±, 125' RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:
UNIT WEIGHT (γ) = 90 PCF (EL.≥133 FT),
120 PCF (EL.<133 FT)
FRICTION ANGLE (ϕ) = 25 DEGREES (EL.=133 FT),
30 DEGREES (EL. <133 FT)
COHESION (C) = 0 PSF
GROUNDWATER ELEVATION = 142 FT±

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 803+76±, 130' RT, TO STATION -L- 808+75±, 125' RT.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -L- 803+76±, 130' RT, TO STATION -L- 808+75±, 125' RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

SEE SHEET TMP-274

TEMPORARY SHORING LOCATION NO. **UE-21** ESTIMATED QUANTITY = 4730 SF

-L- STA. 804+25±, 100.0' LT TO -L- STA. 809+75±, 100.0' LT
LENGTH = 550' AVERAGE HEIGHT = 8.6 FT MAXIMUM HEIGHT = 10.5 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- 804+25±, 100' LT, TO STATION -L- 809+75±, 100' LT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:
UNIT WEIGHT (γ) = 90 PCF (EL.≥133 FT),
120 PCF (EL.<133 FT)
FRICTION ANGLE (ϕ) = 25 DEGREES (EL.=133 FT),
30 DEGREES (EL. <133 FT)
COHESION (C) = 0 PSF
GROUNDWATER ELEVATION = 142 FT±

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 804+25±, 100' LT, TO STATION -L- 809+75±, 100' LT.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -L- 804+25±, 100' LT, TO STATION -L- 809+75±, 100' LT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

SEE SHEET TMP-274

TEMPORARY SHORING LOCATION NO. **UE-22** ESTIMATED QUANTITY = 4510 SF

-L- STA. 804+25±, 141.0' LT TO -L- STA. 809+75±, 127.0' LT
LENGTH = 550' AVERAGE HEIGHT = 8.2 FT MAXIMUM HEIGHT = 9.8 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- 804+25±, 141' LT, TO STATION -L- 809+75±, 127' LT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:
UNIT WEIGHT (γ) = 90 PCF (EL.≥133 FT),
120 PCF (EL.<133 FT)
FRICTION ANGLE (ϕ) = 25 DEGREES (EL.=133 FT),
30 DEGREES (EL. <133 FT)
COHESION (C) = 0 PSF
GROUNDWATER ELEVATION = 142 FT±

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 804+25±, 141' LT, TO STATION -L- 809+75±, 127' LT.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -L- 804+25±, 141' LT, TO STATION -L- 809+75±, 127' LT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

SEE SHEET TMP-235

TEMPORARY SHORING LOCATION NO. **UE-23** ESTIMATED QUANTITY = 2040 SF

-L- STA. 898+25±, 87.0' RT TO -L- STA. 902+25±, 80.0' RT
LENGTH = 400' AVERAGE HEIGHT = 5.1 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 -L- 898+25±, 87' RT, TO STATION -L- 902+25±, 80' RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:
UNIT WEIGHT (γ) = 105 PCF (EL.≥152 FT),
120 PCF (EL.<152 FT)
FRICTION ANGLE (ϕ) = 27 DEGREES (EL.=152 FT),
30 DEGREES (EL. <152 FT)
COHESION (C) = 0 PSF
GROUNDWATER ELEVATION = 159 FT±

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 898+25±, 87' RT, TO STATION -L- 902+25±, 80' RT.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -L- 898+25±, 87' RT, TO STATION -L- 902+25±, 80' RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

SEE SHEET TMP-235

TEMPORARY SHORING LOCATION NO. **UE-24** ESTIMATED QUANTITY = 1290 SF

-L- STA. 898+25±, 109.0' RT TO -L- STA. 901+25±, 113.0' RT
LENGTH = 300' AVERAGE HEIGHT = 4.3 FT MAXIMUM HEIGHT = 5.1 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- 898+25±, 109' RT, TO STATION -L- 901+25±, 113' RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:
UNIT WEIGHT (γ) = 105 PCF (EL.≥152 FT),
120 PCF (EL.<152 FT)
FRICTION ANGLE (ϕ) = 27 DEGREES (EL.=152 FT),
30 DEGREES (EL. <152 FT)
COHESION (C) = 0 PSF
GROUNDWATER ELEVATION = 159 FT±

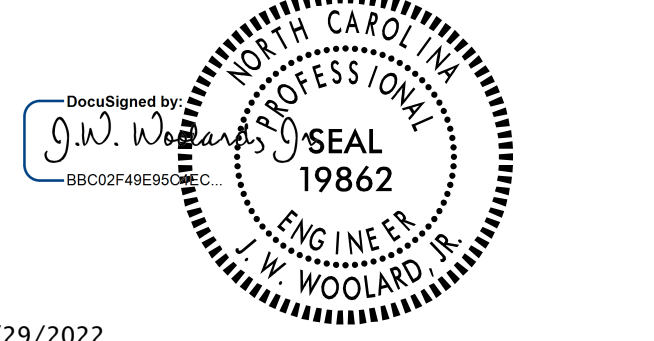
DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 898+25±, 109' RT, TO STATION -L- 901+25±, 113' RT.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -L- 898+25±, 109' RT, TO STATION -L- 901+25±, 113' RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

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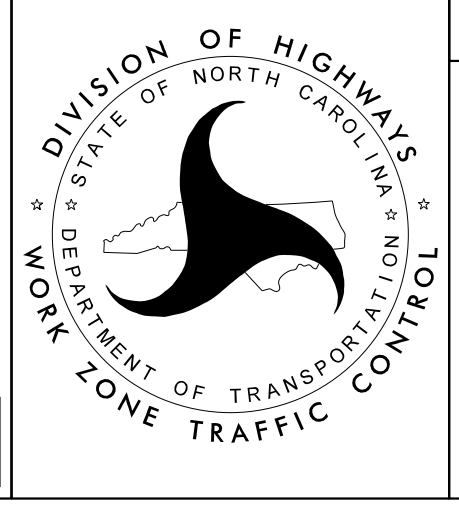


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4/29/2022

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SECTION 2

TEMPORARY SHORING NOTES
SECTION 2
LOCATIONS UE-19
THRU UE-24