NOTES FOR TEMPORARY SHORING NO. B1-01

SEE TMP-10

SEE TMP-10

SEE TMP-10

SEE TMP-10

SEE TMP-10

NOTES FOR TEMPORARY SHORING NO. B1-03

I-5987B TMP-2TS2 PLANS PREPARED FOR THE NCDOT BY

PROJ. REFERENCE NO.

MACDONALD

MOTT MACDONALD I & E, LLC 1101 HAYNES STREET, SUITE 101 RALEIGH, NC 27604 NC LICENSE NO. F-0669

SHEET NO.

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- 572+64±, 96.4 FT LT, TO STATION -L-573+38±, 85 FT LT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT $(\gamma) = 120$ PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION(C) = 0 PSFGROUNDWATER ELEVATION = 148 FT ±

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L-572+64±, 96.4 FT LT, TO STATION -L- 573+38±, 85 FT LT.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -L- 572+64±, 96.4 FT LT, TO STATION -L-573+38±, 85 FT LT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING. SEE PLANS AND TEMPORARY SHORING PROVISION.

NOTES FOR TEMPORARY SHORING NO. B1-02

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 -Y4- 23+31.50±, 25.75 FT RT, TO STATION -Y4- 24+00±, 25.75 FT RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS

AND GROUNDWATER ELEVATION: UNIT WEIGHT $(\gamma) = 120$ PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (C) = 0 PSFGROUNDWATER ELEVATION = 148 FT ±

DO NOT USE CANTILEVER, BRACED AND/OR ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION -Y4- 23+31.50±, 25.75 FT RT, TO STATION -Y4- 24+00±, 25.75 FT RT.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -Y4- 23+31.50±, 25.75 FT RT, TO STATION -Y4-24+00±, 25.75 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.

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 -Y4- 23+31.50±, 29.75 FT RT. TO STATION -Y4- 24+18±, 29.75 FT RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT $(\gamma) = 120$ PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (C) = 0 PSFGROUNDWATER ELEVATION = 148 FT ±

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -Y4-23+31.50±, 29.75 FT RT, TO STATION -Y4- 24+18±, 29.75 FT RT.

IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION -Y4- 23+31.50±, 29.75 FT RT, TO STATION -Y4- 24+18±, 29.75 FT RT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.

NOTES FOR TEMPORARY SHORING NO. B1-04

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 -Y4- 25+24.50±, 29.75 FT RT, TO STATION -Y4- 26+09±, 29.75 FT RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT $(\gamma) = 120$ PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (C) = 0 PSFGROUNDWATER ELEVATION = 148 FT ±

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -Y4-25+24.50±, 29.75 FT RT, TO STATION -Y4- 26+09±, 29.75 FT RT.

IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION -Y4- 25+24.50±, 29.75 FT RT, TO STATION -Y4- 26+09±, 29.75 FT RT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.

NOTES FOR TEMPORARY SHORING NO. B1-05

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 -Y4- 25+54±, 25.75 FT RT, TO STATION -Y4- 26+09±, 25.75 FT RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT $(\gamma) = 120 \text{ PCF}$ FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (C) = 0 PSFGROUNDWATER ELEVATION = 148 FT ±

DO NOT USE CANTILEVER, BRACED AND/OR ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION -Y4- 25+54±, 25.75 FT RT, TO STATION -Y4- 26+09±, 25.75 FT

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -Y4- 25+54±, 25.75 FT RT, TO STATION -Y4-26+09±, 25.75 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.

NOTES FOR TEMPORARY SHORING NO. B1-06

SEE TMP-11

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- 585+04.50±, 30 FT RT, TO STATION -L- 585+61±, 30 FT RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT $(\gamma) = 120$ PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (C) = 0 PSFGROUNDWATER ELEVATION = 142 FT ±

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L-585+04.50±, 30 FT RT, TO STATION -L- 585+61±, 30 FT RT.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -L- 585+04.50±, 30 FT RT. TO STATION -L-585+61±, 30 FT 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 DOCUMENT FROM THE GEOTECHNICAL ENGINEERING UNIT. THE DOCUMENT WAS SUBMITTED TO THE NCDOT DIVISION ENGINEER ON FEBRUAY 10, 2022 AND SEALED BY A PROFESSIONAL ENGINEER JINYOUNG PARK, LICENSE # 032171.

Lori D. Stouchko APPROVED: 4/29/2022 DATE:

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



SECTION 1

TEMPORARY SHORING NOTES SECTION 1 LOCATIONS B1-1 THRU B1-6