

stv

STV Engineers, Inc.
2121 RDU Center Dr.
Suite 210
Morrisville, NC 27560
NC License Number F-0991

PROJ. REFERENCE NO.	SHEET NO.
U-5797	TMP-2B

SHORING AREA No.	SHORING LOCATION No.	BEGIN STATION & OFFSET	END STATION & OFFSET	ESTIMATED AVERAGE HEIGHT	ESTIMATED MAXIMUM HEIGHT	SHORING LOCATION TYPE
AREA 1	No. 1	-L- 68+37 12.7' LT	-L- 68+93 12.2' LT	11.9'	12.1'	STRUCTURE
	No. 2	-L- 68+38 18.1' LT	68+94 17.0' LT	11.7'	11.8'	STRUCTURE
	No. 3	-L- 68+28 21.8' RT	68+94 21.9' RT	12.5'	12.5'	STRUCTURE
	No. 4	-L- 68+29 16.7' RT	-L- 68+69 17.0' RT	12.4'	12.4'	STRUCTURE
AREA 2	No. 5	-Y4- 10+18 8.1' RT	-Y4- 11+44 28.9 RT	11.8'	12.2'	STRUCTURE
	No. 6	-Y4- 13+50 28.2' RT	-Y4- 17+06 22.9 RT	9.8'	10.3'	STRUCTURE
	No. 7	THIS LOCATION HAS BEEN ELIMINATED FROM THE PLANS.				
AREA 3	No. 8	-Y2- 19+55 91.2' LT	-Y2- 20+16 89.8' LT	9.4'	11.2'	STRUCTURE
	No. 9	-Y2- 20+02 22.6' LT	-Y2- 21+15 23.2' LT	16.1'	16.3'	STRUCTURE
AREA 4	No. 10	-L- 42+89 5.4' LT	-L- 43+66 6.7' LT	13.7'	13.7'	STRUCTURE
AREA 5	No. 11	-Y2- 19+94 30.7' LT	-Y2- 21+08 31.0' LT	16.3'	16.6'	STRUCTURE
	No. 12	THIS LOCATION HAS BEEN ELIMINATED FROM THE PLANS.				
	No. 13	-Y2-19+47 83.3' LT	-Y2- 20+04 58.1' LT	14.9'	15.2'	STRUCTURE
	No. 14	-Y2- 20+39 60.2 LT	-Y2- 20+51 84.7' LT	15.3'	15.6'	STRUCTURE
AREA 4	No. 15	-L- 42+89 7.5' LT	-L- 43+63 7.8' LT	14.0'	14.1'	STRUCTURE

SHORING AREA 3 - LOCATIONS 8 AND 9

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 AREA NOS. 3 FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

GROUNDWATER ELEVATION = 120 FT
FROM GOUND SURFACE TO ELEVATION 112 FT:
UNIT WEIGHT (γ)= 115 PCF
FRICTION ANGLE (φ)= 28 DEGREES
COHESION (c) = 0 PSF
BELOW ELEVATION 112 FT:
UNIT WEIGHT (γ)= 125 PCF
FRICTION ANGLE (φ)= 32 DEGREES
COHESION (c) = 0 PSF

SHORING AREA 4 - LOCATIONS 10 AND 15

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

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DESIGN TEMPORARY SHORING AREA NOS. 4 FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT (γ)= 115 PCF
FRICTION ANGLE (φ)= 28 DEGREES
COHESION (c) = 0 PSF
GROUNDWATER ELEVATION = 120.0 FT

SHORING AREA 5 - LOCATIONS 11, 13, AND 14

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

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DESIGN TEMPORARY SHORING AREA NOS. 5 FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

GROUNDWATER ELEVATION = 120 FT
FROM GOUND SURFACE TO ELEVATION 112 FT:
UNIT WEIGHT (γ)= 115 PCF
FRICTION ANGLE (φ)= 28 DEGREES
COHESION (c) = 0 PSF

BELOW ELEVATION 112 FT:
UNIT WEIGHT (γ)= 125 PCF
FRICTION ANGLE (φ)= 32 DEGREES
COHESION (c) = 0 PSF

SHORING AREA 1 - LOCATIONS 1, 2, 3, AND 4

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

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DESIGN TEMPORARY SHORING AREA NOS. 1 FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT (γ)= 115 PCF
FRICTION ANGLE (φ)= 28 DEGREES
COHESION (c) = 0 PSF
GROUNDWATER ELEVATION = 126.0 FT

SHORING AREA 2 - LOCATIONS 5, AND 6

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

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DESIGN TEMPORARY SHORING AREA NOS. 2 FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

GROUNDWATER ELVATTION = 125 FT
FROM GROUND SURFACE ELEVATION 108 FT:
UNIT WEIGHT (γ)= 115 PCF
FRICTION ANGLE (φ)= 28 DEGREES
COHESION (c) = 0 PSF
BELOW ELEVATION 108 FT:
UNIT WEIGHT (γ)= 120 PCF
FRICTION ANGLE (φ)= 30 DEGREES
COHESION (c) = 0 PSF

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

Signed by: Weston Murphy DATE 1/30/2025

APPROVED: 1F1C830A2F7A488

SEAL
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PROFESSIONAL
SEAL
049235
ENGINEER
WESTON D. MURPHY



TEMPORARY
SHORING
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