

1 TEMPORARY SHORING LOCATION No. 1

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

TEMPORARY SHORING IS REQUIRED FOR THE BRIDGE END BENT CONSTRUCTION FROM STA 32+53.2+/- -L-, 6.3' RT TO STA 33+19.5+/- -L-, 6.3' RT.

BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.

TEMPORARY SHORING FROM STA 32+53.2+/- -L-, 6.3' RT TO STA 33+19.5+/- -L-, 6.3' RT SHALL BE DESIGNED BY MSE WALL DESIGNER USING THE SOIL PARAMETERS IDENTIFIED IN THE MSE WALL PLANS. SUBMIT SHORING DESIGN WITH THE MSE WALL DESIGN PACKAGE FOR REVIEW.

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

2 TEMPORARY SHORING LOCATION No. 2

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

TEMPORARY SHORING IS REQUIRED FOR THE BRIDGE END BENT CONSTRUCTION FROM STA 32+64.9+/- -L-, 11.4' RT TO STA 33+18.9+/- -L-, 12.8' RT.

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 STA 32+64.9+/- -L-, 11.4' RT TO STA 33+18.9+/- -L-, 12.8' RT FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT (γ) = 120 LB/CF
FRICTION ANGLE (ϕ) = 30 DEGREES
COHESION (c) = 0 LB/SF
GROUNDWATER ELEVATION = 865 FT

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STA 32+64.9+/- -L-, 11.4' RT TO STA 33+18.9+/- -L-, 12.8' RT.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STA 32+64.9+/- -L-, 11.4' RT TO STA 33+18.9+/- -L-, 12.8' RT. SEE STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STA 32+64.9+/- -L-, 11.4' RT TO STA 33+18.9+/- -L-, 12.8' RT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.

3 TEMPORARY SHORING LOCATION No. 3

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

TEMPORARY SHORING IS REQUIRED FOR THE BRIDGE END BENT CONSTRUCTION FROM STA 35+20.5+/- -L-, 6.3' RT TO STA 35+77.9+/- -L-, 5.4' RT.

BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.

TEMPORARY SHORING FROM STA 35+20.5+/- -L-, 6.3' RT TO STA 35+77.9+/- -L-, 5.4' RT SHALL BE DESIGNED BY MSE WALL DESIGNER USING THE SOIL PARAMETERS IDENTIFIED IN THE MSE WALL PLANS. SUBMIT SHORING DESIGN WITH THE MSE WALL DESIGN PACKAGE FOR REVIEW.

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

4 TEMPORARY SHORING LOCATION No. 4

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

TEMPORARY SHORING IS REQUIRED FOR THE BRIDGE END BENT CONSTRUCTION FROM STA 34+61.5+/- -L-, 11.4' RT TO STA 35+71.9+/- -L-, 9.7' RT.

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 STA 32+64.9+/- -L-, 11.4' RT TO STA 33+18.9+/- -L-, 12.8' RT FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT (γ) = 120 LB/CF
FRICTION ANGLE (ϕ) = 30 DEGREES
COHESION (c) = 0 LB/SF
GROUNDWATER ELEVATION = 870 FT

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STA 32+64.9+/- -L-, 11.4' RT TO STA 33+18.9+/- -L-, 12.8' RT.

IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STA 32+64.9+/- -L-, 11.4' RT TO STA 33+18.9+/- -L-, 12.8' RT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.

5 TEMPORARY SHORING LOCATION No. 5

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

TEMPORARY SHORING IS REQUIRED FOR THE BRIDGE INTERIOR BENT CONSTRUCTION FROM STA 65+55.5+/- -Y4-, 5.8' RT TO STA 66+14.6+/- -Y4-, 5.8' RT.

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 STA 65+55.5+/- -Y4-, 5.8' RT TO STA 66+14.6+/- -Y4-, 5.8' RT FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT (γ) = 120 LB/CF
FRICTION ANGLE (ϕ) = 30 DEGREES
COHESION (c) = 0 LB/SF
GROUNDWATER ELEVATION = 865 FT

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STA 65+55.5+/- -Y4-, 5.8' RT TO STA 66+14.6+/- -Y4-, 5.8' RT.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STA 65+55.5+/- -Y4-, 5.8' RT TO STA 66+14.6+/- -Y4-, 5.8' RT. SEE STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

6 TEMPORARY SHORING LOCATION No. 6

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

TEMPORARY SHORING IS REQUIRED FOR THE BRIDGE INTERIOR BENT CONSTRUCTION FROM STA 65+55.5+/- -Y4-, 5.8' LT TO STA 66+14.6+/- -Y4-, 5.8' LT.

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 STA 65+55.5+/- -Y4-, 5.8' LT TO STA 66+14.6+/- -Y4-, 5.8' LT FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT (γ) = 120 LB/CF
FRICTION ANGLE (ϕ) = 30 DEGREES
COHESION (c) = 0 LB/SF
GROUNDWATER ELEVATION = 865 FT

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STA 65+55.5+/- -Y4-, 5.8' LT TO STA 66+14.6+/- -Y4-, 5.8' LT.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STA 65+55.5+/- -Y4-, 5.8' LT TO STA 66+14.6+/- -Y4-, 5.8' LT. SEE 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 WZTC SECTION ON MARCH 9, 2023 AND SEALED BY A PROFESSIONAL ENGINEER, SHIPING YANG, Ph.D., P.E. LICENSE #031361.

APPROVED: *Lori D. Stouchko*
DATE: _____

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

