

**NOTES FOR TEMPORARY SHORING NO. A2-17**

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- 365+81±, 4 FT LT, TO STATION -L- 366+71±, 4 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 = 149 FT ±

DO NOT USE CANTILEVER, BRACED AND/OR ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION -L- 365+81±, 4 FT LT, TO STATION -L- 366+71±, 4 FT LT.

AT THE CONTRACTOR'S OPTION, USE A STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 365+81±, 4 FT LT, TO STATION -L- 366+71±, 4 FT LT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.

**NOTES FOR TEMPORARY SHORING NO. A2-18**

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- 365+81±, 9 FT LT, TO STATION -L- 366+71±, 9 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 = 149 FT ±

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 365+81±, 9 FT LT, TO STATION -L- 366+71±, 9 FT LT.

IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION -L- 365+81±, 9 FT LT, TO STATION -L- 366+71±, 9 FT LT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.

**NOTES FOR TEMPORARY SHORING NO. A2-19**

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

TEMPORARY SHORING IS REQUIRED FOR THE PIPE REMOVAL FROM STATION -L- 385+34±, 4 FT LT, TO STATION -L- 385+95±, 4 FT 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 STATION -L- 385+34±, 4 FT LT, TO STATION -L- 385+95±, 4 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 = 152 FT ±

DO NOT USE CANTILEVER, BRACED AND/OR ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION -L- 385+34±, 4 FT LT, TO STATION -L- 385+95±, 4 FT LT.

AT THE CONTRACTOR'S OPTION, USE A STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 385+34±, 4 FT LT, TO STATION -L- 385+95±, 4 FT LT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.

**NOTES FOR TEMPORARY SHORING NO. A2-20**

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

TEMPORARY SHORING IS REQUIRED FOR THE PIPE INSTALLATION FROM STATION -L- 385+34±, 9 FT LT, TO STATION -L- 385+95±, 9 FT 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 STATION -L- 385+34±, 9 FT LT, TO STATION -L- 385+95±, 9 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 = 152 FT ±

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 385+34±, 9 FT LT, TO STATION -L- 385+95±, 9 FT LT.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -L- 385+34±, 9 FT LT, TO STATION -L- 385+95±, 9 FT LT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

**NOTES FOR TEMPORARY SHORING NO. A2-21**

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

TEMPORARY SHORING IS REQUIRED FOR THE PIPE INSTALLATION FROM STATION -L- 414+81±, 4 FT LT, TO STATION -L- 415+36±, 4 FT 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 STATION -L- 414+81±, 4 FT LT, TO STATION -L- 415+36±, 4 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 = 159 FT ±

DO NOT USE CANTILEVER, BRACED AND/OR ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION -L- 414+81±, 4 FT LT, TO STATION -L- 415+36±, 4 FT LT.

AT THE CONTRACTOR'S OPTION, USE A STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 414+81±, 4 FT LT, TO STATION -L- 415+36±, 4 FT LT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.

**NOTES FOR TEMPORARY SHORING NO. A2-22**

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

TEMPORARY SHORING IS REQUIRED FOR THE PIPE REMOVAL FROM STATION -L- 414+81±, 9 FT LT, TO STATION -L- 415+36±, 9 FT 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 STATION -L- 414+81±, 9 FT LT, TO STATION -L- 415+36±, 9 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 = 159 FT ±

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 414+81±, 9 FT LT, TO STATION -L- 415+36±, 9 FT LT.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -L- 414+81±, 9 FT LT, TO STATION -L- 415+36±, 9 FT LT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

**NOTES FOR TEMPORARY SHORING NO. A2-23**

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

TEMPORARY SHORING IS REQUIRED FOR THE PIPE INSTALLATION FROM STATION -L- 419+29±, 4 FT LT, TO STATION -L- 419+81±, 4 FT 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 -L- 419+29±, 4 FT LT, TO STATION -L- 419+81±, 4 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 = 159 FT ±

DO NOT USE CANTILEVER, BRACED AND/OR ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION -L- 419+29±, 4 FT LT, TO STATION -L- 419+81±, 4 FT LT.

AT THE CONTRACTOR'S OPTION, USE A STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 419+29±, 4 FT LT, TO STATION -L- 419+81±, 4 FT LT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.

**NOTES FOR TEMPORARY SHORING NO. A2-24**

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

TEMPORARY SHORING IS REQUIRED FOR THE PIPE REMOVAL FROM STATION -L- 419+29±, 9 FT LT, TO STATION -L- 419+81±, 9 FT 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 STATION -L- 419+29±, 9 FT LT, TO STATION -L- 419+81±, 9 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 = 159 FT ±

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 419+29±, 9 FT LT, TO STATION -L- 419+81±, 9 FT LT.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -L- 419+29±, 9 FT LT, TO STATION -L- 419+81±, 9 FT LT. 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 DIVISION 6 ON FEBRUARY 22, 2022, AND SEALED BY A PROFESSIONAL ENGINEER, THEIN TUN ZAN, LICENSE #030943.



APPROVED: \_\_\_\_\_

DATE: 04/12/2022

5/18/2022

**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**



**TEMPORARY SHORING NOTES**

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