# STANDARD TEMPORARY SHORING NOTES ON PLANS (3-17-15)

(Instructions for use are in parentheses after each note, if applicable and choices are in italics. Stations are optional if there is only one shoring location.)

USE A 1.5:1 (H:V) SLOPE OR FLATTER INSTEAD OF TEMPORARY SHORING FROM STATION \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_FT \_\_\_\_\_\_\_\_\_\_, TO STATION \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_FT \_\_\_\_\_\_\_\_\_\_ AS SHOWN IN THE PLANS.

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

TEMPORARY SHORING IS REQUIRED FOR THE *PIPE, INLET or UTILITY* INSTALLATION FROM STATION \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_FT \_\_\_\_\_\_\_\_\_\_, TO STATION \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_FT \_\_\_\_\_\_\_\_\_\_.

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 \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_FT \_\_\_\_\_\_\_\_\_\_, TO STATION \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_FT \_\_\_\_\_\_\_\_\_\_, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

 UNIT WEIGHT ($γ)$ = \_\_\_ LB/CF

 FRICTION ANGLE ($ϕ)$ = \_\_ DEGREES

 COHESION (c) = \_\_\_ LB/SF

 GROUNDWATER ELEVATION = \_\_\_\_ FT

*NO or LIMITED* SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF TEMPORARY SHORING FROM STATION \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_FT \_\_\_\_\_\_\_\_\_\_, TO STATION \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_FT \_\_\_\_\_\_\_\_\_\_. THE INFORMATION PROVIDED FOR TEMPORARY SHORING DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

DRIVEN PILING FOR TEMPORARY SHORING FROM STATION \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_FT \_\_\_\_\_\_\_\_\_\_, TO STATION \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_FT \_\_\_\_\_\_\_\_\_\_ *WILL or MAY* NOT PENETRATE BELOW ELEVATION \_\_\_\_\_\_\_\_ FT DUE TO OBSTRUCTIONS, VERY DENSE OR HARD SOIL, BOULDERS OR WEATHERED OR HARD ROCK.

DO NOT USE *CANTILEVER, BRACED and/or ANCHORED* SHORING FOR TEMPORARY SHORING FROM STATION \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_FT \_\_\_\_\_\_\_\_\_\_, TO STATION \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_FT \_\_\_\_\_\_\_\_\_\_. (Use this note when cantilever, braced and/or anchored shoring is not allowed.)

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_FT \_\_\_\_\_\_\_\_\_\_, TO STATION \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_FT \_\_\_\_\_\_\_\_\_\_. (Use this note when a temporary wall is not allowed.)

AT THE CONTRACTOR’S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_FT \_\_\_\_\_\_\_\_\_\_, TO STATION \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_FT \_\_\_\_\_\_\_\_\_\_. SEE STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING. (Use this note when standard temporary shoring is an option and a standard temporary wall is not allowed. When using this note, recommend geotechnical Standard Detail No. 1801.01 and the Standard Shoring provision.)

AT THE CONTRACTOR’S OPTION, USE A STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_FT \_\_\_\_\_\_\_\_\_\_, TO STATION \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_FT \_\_\_\_\_\_\_\_\_\_. SEE STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS. (Use this note when a standard temporary wall is an option and standard temporary shoring is not allowed. When using this note, recommend geotechnical Standard Detail No. 1801.02 and the Standard Shoring provision.)

AT THE CONTRACTOR’S OPTION, USE STANDARD SHORING FOR TEMPORARY SHORING FROM STATION \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_FT \_\_\_\_\_\_\_\_\_\_, TO STATION \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_FT \_\_\_\_\_\_\_\_\_\_. SEE STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING AND 1801.02 FOR STANDARD TEMPORARY WALLS. (Use this note when standard shoring is an option. When using this note, recommend geotechnical Standard Detail No. 1801.01 and 1801.02 and the Standard Shoring provision.)

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.

IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_FT \_\_\_\_\_\_\_\_\_\_, TO STATION \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_FT \_\_\_\_\_\_\_\_\_\_. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION. (When using this note, recommend the Temporary Soil Nail Walls provision.)