

SOLDIER PILE WALL WITH CAST-IN-PLACE FACE - TYPICAL SECTION D-D

NOTES:

1. FOR SOLDIER PILE RETAINING WALLS, SEE SOLDIER PILE RETAINING WALLS PROVISION.

2. AT THE CONTRACTOR'S OPTION, USE DRIVEN H-PILES FOR RETAINING WALL NO. 3.

3. USE A SOLDIER PILE RETAINING WALL WITH A CAST-IN-PLACE REINFORCED CONCRETE FACE FOR RETAINING WALL NO.3.

4. BEFORE BEGINNING WALL DESIGN FOR RETAINING WALL NO.3, SURVEY ALL LOCATION AND SUBMIT REVISED WALL PROFILE VIEWS (WALL ENVELOPES) FOR REVIEW. DO NOT START WALL DESIGN OR CONSTRUCTION UNTIL THE REVISED WALL ENVELOPE IS ACCEPTED.

5. FOR MSE WALL SECTIONS ENTIRELY IN CUT AT THE BEGINNING AND END OF THE WALLS, IF THE WALL SURVEY SHOWS THE 2:1 WRAP AROUND SLOPE INTERFERING WITH RAILROAD DRAINAGE, OR EXTENDING MORE THAN 15 FEET FROM THE WALL FACE, SUBSTITUTE SOLDIER PILES WALLS AT RIGHT ANGLES TO THE MSE WALL, AS WITH WALL 3, FOR THE PORTION OF THE MSE WALL ENTIRELY IN CUT.

DESIGN RETAINING WALL NO.3 FOR THE FOLLOWING: A) H = DESIGN HEIGHT + WALL EMBEDMENT B) DESIGN LIFE = 100 YEARS C) IN-SITU ASSUMED MATERIAL PARAMETERS: UNIT WEIGHT, γ = 120 LB/CF FRICTION ANGLE, ϕ = 30 DEGREES COHESION, c = 0 LB/SF

GEOTECHNICAL						
ENGINEER	ENGINEER					
SEAL 028669 NG INE EN TRAINING SOUTH SEAL DocuSigned by: SUH WULL 6/6/2017						
SAGMENSEAC4D6 DATE	SIGNATURE DATE					
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED						

ESTIMATE[WALL QUANTI (square feet)	_
MSE RETAINING WALL NO.1	3100 SF
MSE RETAINING WALL NO.2	2800 SF

SOLDIER PILE WALL NO. 3

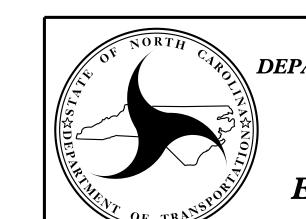
PROJECT NO.: B-4964

120 SF

ROCKINGHAM COUNTY

STATION: 18+73.69 -L-

SHEET 3 OF 3



NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT SOLDIER PILE WALL WITH OR WITHOUT BACKSLOPE TYPICAL & NOTES

REVISIONS					SHEET	
5.	BY	DATE	NO.	BY	DATE	NO.
			3			W-4
			4			V V- -

PREPARED BY: R. WEBB

Date: 5-17

REVIEWED BY: D. TEAGUE

DATE: 5-17