

NOTES:

FOR MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALLS, SEE MECHANICALLY STABILIZED EARTH RETAINING WALLS PROVISION.

AT THE CONTRACTOR'S OPTION, USE AN MSE WALL SYSTEM WITH SEGMENTAL RETAINING WALL (SRW) UNITS THAT MEET ARTICLE 1040-4 OF THE STANDARD SPECIFICATIONS FOR RETAINING WALL NO.1.

USE AN MSE WALL SYSTEM WITH SEGMENTAL RETAINING WALL UNITS (SRW) UNITS THAT MEET ARTICLE 1040-4 OF THE STANDARD SPECIFICATIONS FOR RETAINING WALL NO.1.
WHEN USING AN MSE WALL SYSTEM WITH SRW UNITS FOR RETAINING WALL NO.1, FREEZE-THAW DURABLE SRW UNITS THAT MEET ARTICLE 1040-4 OF THE STANDARD SPECIFICATIONS ARE REQUIRED.

AT THE CONTRACTOR'S OPTION, USE FINE AGGREGATE IN THE REINFORCED ZONE OF RETAINING WALL NO.1.

A SEPARATION GEOTEXTILE IS REQUIRED AT THE BACK OF THE REINFORCED ZONE FOR RETAINING WALL NO.1.

A DRAIN IS REQUIRED FOR RETAINING WALL NO.1.

BEFORE BEGINNING MSE WALL DESIGN FOR RETAINING WALL NO.1, SURVEY WALL LOCATION AND SUBMIT A REVISED WALL PROFILE VIEW (WALL ENVELOPE) FOR REVIEW. DO NOT START WALL DESIGN OR CONSTRUCTION UNTIL THE REVISED WALL ENVELOPE IS ACCEPTED.

DESIGN RETAINING WALL NO.1 FOR THE FOLLOWING:

1) H = DESIGN HEIGHT + EMBEDMENT

2) DESIGN LIFE = 100 YEARS

3) MAXIMUM FACTORED VERTICAL PRESSURE ON FOUNDATION MATERIAL = 2.5 LB/SF

4) MINIMUM REINFORCEMENT LENGTH (L) = 1 H OR 6 FT, WHICHEVER IS LONGER

5) MINIMUM EMBEDMENT ELEVATION = 1 FT

6) RETNEORCED ZONE AGGREGATE PARAMETERS:

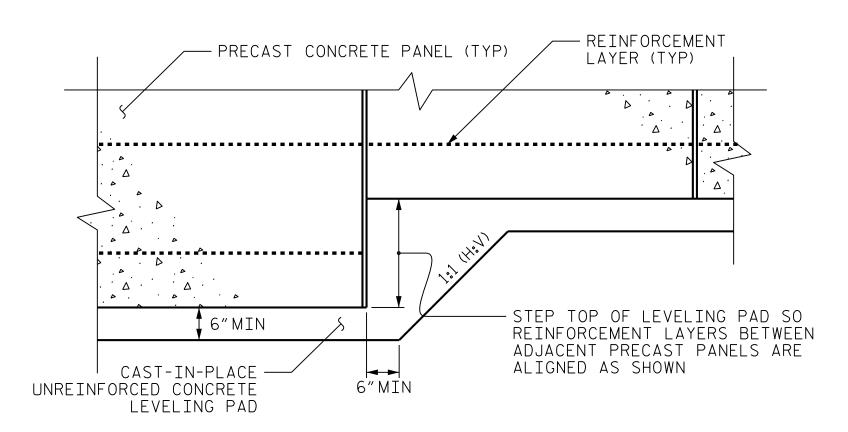
OTHERNORCED ZONE AGGINEGATE TANAMIETENS:							
	AGGREGATE TYPE*	UNIT WEIGHT (γ) LB/CF	FRICTION ANGLE (\$\phi\$) DEGREES	COHESION (c) LB/SF			
	COARSE	110	38	0			
	FINE	115	34	0			
	SEE MSE RETAINING WALLS PROVISION FOR COARSE AND FINE AGGREGATE MATERIAL REQUIREMENTS.						

7) IN-SITU ASSUMED MATERIAL PARAMETERS:

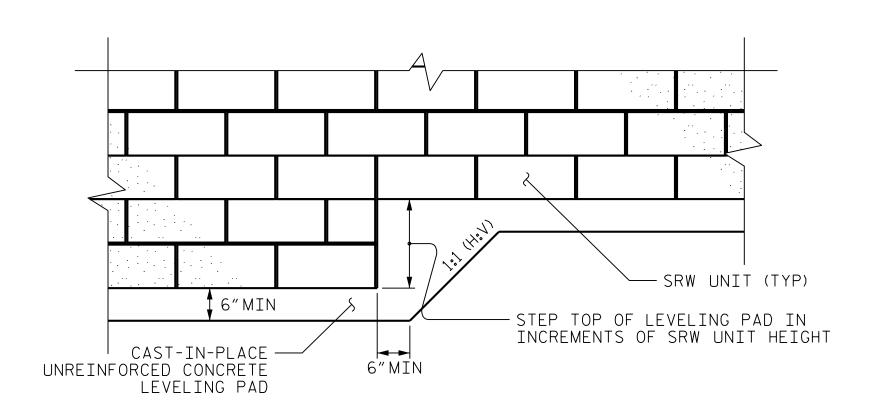
7, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,						
MATERIAL TYPE	UNIT WEIGHT (γ) LB/CF	FRICTION ANGLE (φ) DEGREES	COHESION (c) LB/SF			
BACKFILL	120	30	0			
FOUNDATION	120	30	0			

DESIGN RETAINING WALL NO.1 FOR A LIVE LOAD (TRAFFIC) SURCHARGE.

DO NOT PLACE LEVELING PAD CONCRETE, AGGREGATE OR REINFORCEMENT FOR RETAINING WALL NO.1 UNTIL EXCAVATION DIMENSIONS AND FOUNDATION MATERIAL ARE APPROVED.



PRECAST PANELS LEVELING PAD STEP DETAIL



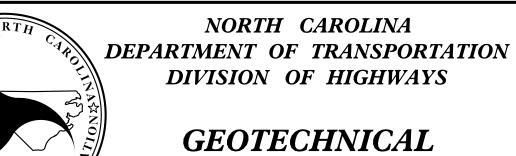
SRW UNITS LEVELING PAD STEP DETAIL

PROJECT NO.: 40325.1.46 (Y-4810K)

CABARRUS COUNTY

STATION: 38+50 -L-

SHEET 4 OF 4



ENGINEERING UNIT

MSE RETAINING WALL RETAINING WALL NO. 1

REVISIONS

D. BY DATE NO. BY DATE NO. 3

4 W-4

PREPARED BY: MHS

REVIEWED BY: SCC

DATE: 4/3/19