

ESTIMATED SMSE WALL #18 QUANTITIES

SHORED MSE RETAINING WALL #18 5,550 SQ. FT.

ESTIM	ATED SOIL NAIL	WALL QUAN	TITIES
RETAINING WALL #	SOIL NAIL RETAINING WALLS (SQUARE FEET)	SOIL NAIL VERIFICATION TESTS	SOIL NAIL PROOF TESTS
18	5 <b>,</b> 000*	4	15

\*INCLUDES RETAINING WALL EMBEDMENT

SMSE RETAINING WALL #18 INFORMATION									
STAL-	OFFSET RT FROM CL TO WALL FACE	TOP OF WALL	BOTTOM OF WALL	MINIMUM TOP OF LEVELING PAD	ESTIMATED MINIMUM SMSE WALL EMBEDMENT	* DESIGN SMSE WALL HEIGHT "H"	TOP OF SOIL NAIL WALL	APPROX. SOIL NAIL WALL HEIGHT	WALL REINFORCEMENT (MSE STRAP) LENGTH 'L'
375+25.00	48.00	3094.50	3094.00	3089.00	5.00	5.00	3094.00	5.00	LOWER: 0.5XH OR 6 FT (MIN) UPPER: 0.7XH OR 10 FT (MIN)
375+50.00	48.00	3101.25	3086.19	3081.19	5.00	19.56	3098.66	17.47	LOWER: 0.5XH OR 6 FT (MIN) UPPER: 0.7XH OR 10 FT (MIN)
376 • 00.00	48.00	3105.09	3086.16	3081.16	5.00	23.43	3102.57	21.41	LOWER: 0.5XH OR 6 FT (MIN) UPPER: 0.7XH OR 10 FT (MIN)
376+50.00	48.00	3108.89	3090.69	3085.69	5.00	22.70	3106.45	20.76	LOWER: 0.5XH OR 6 FT (MIN) UPPER: 0.7XH OR 10 FT (MIN)
377+00.00	48.00	3112.44	3097.72	3092.72	5.00	19.22	3110.76	18.04	LOWER: 0.5XH OR 6 FT (MIN) UPPER: 0.7XH OR 10 FT (MIN)
377+50.00	48.00	3115.59	3103.77	3098.77	5.00	16.32	3113.85	15.08	LOWER: 0.5XH OR 6 FT (MIN) UPPER: 0.7XH OR 10 FT (MIN)
378+00.00	48.00	3118.50	3108.75	3103.75	5.00	14.25	3117.03	13.28	LOWER: 0.5XH OR 6 FT (MIN) UPPER: 0.7XH OR 10 FT (MIN)
378 • 15.00	48.00	3118.34	3117.84	3112.84	5.00	5.00	3117.84	5.00	LOWER: 0.5XH OR 6 FT (MIN) UPPER: 0.7XH OR 10 FT (MIN)

\* FOR DESIGN WALL HEIGHT "H" AND ADDITIONAL CONSTRUCTION DETAILS, SEE SHEETS 3 AND 4

ALL TABLE DIMENSIONS ARE GIVEN IN FEET

FRONT SLOPE WALL EMBEDMENT						
SLOPE IN FRONT	MINIMUM EMBEDMENT DEPTH					
LIODIZONITAL	FOR WALLS	H/20				
HORIZONTAL	FOR ABUTMENTS	H/10				
3.0H:1.0V	WALLS	H/10				
2.5H:1.0V	WALLS	H/8.5				
2.0H:1.0V	WALLS	H/7				
1.5H:1.0V	WALLS	H/5				
1.25H:1.0V	WALLS	H/4				
1.0H:1.0V	WALLS	H/3				

NOTE:

- 1) MAINTAIN A MINIMUM BENCH WIDTH OF 4.0 FT IN FRONT OF THE WALL FOR ITS ENTIRE LENGTH.
- 2) MINIMUM EMBEDMENT DEPTH OF 5 FT, UNLESS LARGER DEPTHS DICTATED BY ABOVE TABLE.
- 3) MAXIMUM SLOPE OF 1.5H:1V WILL BE MAINTAINED ON FRONT SLOPES FOR THE ENTIRE LENGTH OF THE WALL.
- 4) SUBMIT WITH THE WALL DESIGN INTERNAL, EXTERNAL, AND GLOBAL STABILITY ANALYSES.

REFERENCE SPECIAL PROVISION GT-7 FOR SMSE WALL.

PREPARED BY: DMB

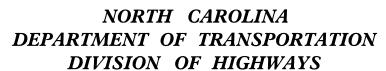
DATE: 7/14/2022

REVIEWED BY: REK

DATE: 7/14/2022



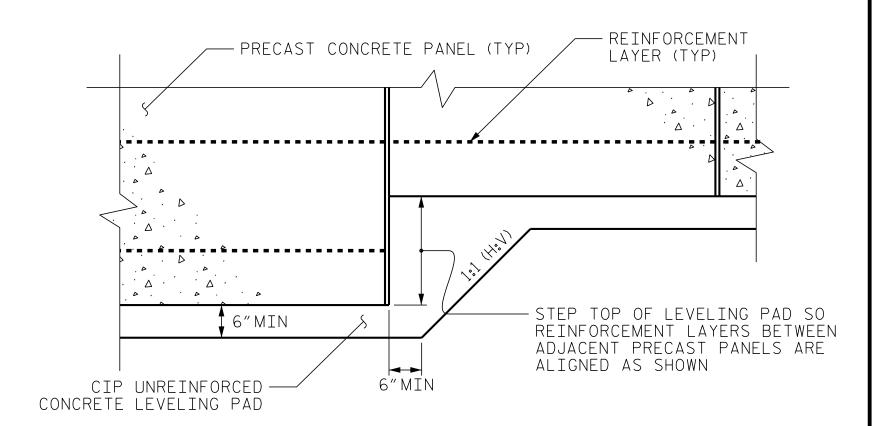




GEOTECHNICAL ENGINEERING UNIT Docusigned by:

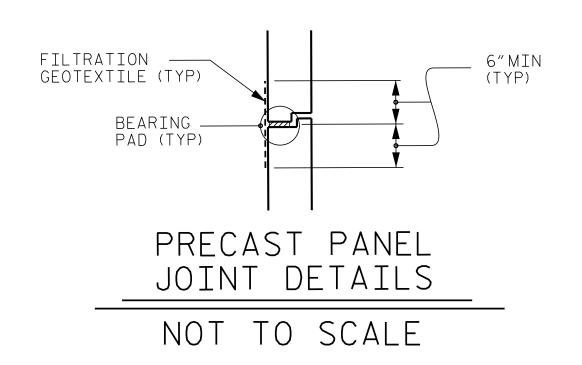
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## PRECAST PANELS LEVELING PAD STEP DETAIL

NOT TO SCALE



PROJECT NO.: A-0009CB

GRAHAM COUNTY STATION: -L-375+25, 48' RT TO 378+15, 48' RT

SHEET 2 OF 6

RETAINING WALL #18 SHORED MECHANICALLY STABILIZED EARTH (SMSE) WALL

REVISIONS						
9.	BY	DATE	NO.	BY	DATE	SHEET NO.
1			3			W18 <b>-</b> 2
2			4			VV10-2