

- RETAINING WALL PROVISION.
- SPECIFICATIONS FOR END BENT 2 WALL DESIGN.
- STANDARD SPECIFICATIONS.
- NO.1.
- 5) A DRAIN IS REQUIRED FOR RETAINING WALL NO.1.
- 6) DESIGN RETAINING WALL NO.1 FOR THE FOLLOWING: 1) H = DESIGN HEIGHT + EMBENMENT 3) DESIGN LIFE = 100 YEARS
 - 5) MINIMUM EMBEDMENT DEPTH = 2 FEET
 - 6) REINFORCED AGGREGATE PARAMETERS:

			COHESION	
	UNII WEIGHI	FRICTION ANGLE	COMESTON	
AGGREGATE TYPE 米	(丫)	(Φ)	(C)	
	LB/CF	DEGREES	LB/SF	
COARSE	110	38	0	
FINE 115		34	0	
* SEE MSE RETAINING	WALLS PROVIS	ION FOR COARSE A	ND FINE AGG	

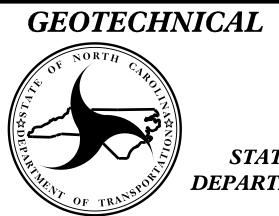
MATERIAL REQUIREMENTS.

7) IN-SITU ASSUMED MATERIAL PARAMETERS:

ſ		UNIT WEIGHT	FRICTION ANGLE	COHESION
	MATERIAL TYPE	(丫)	(Φ)	(C)
		LB/CF	DEGREES	LB/SF
	BACKFILL	120	30	0
	FOUNDATION	120	34	0

- CONNECTORS AND REINFORCING STEEL IN CAP.

- ATTACHMENT DETAILS.



GEOTECHNICAL ENGINEER	ENGINEER				
Docusigned by: Lunuetlu R. Bussey, Jr.					
SIGNATURE CONTRACTOR	SIGNATURE DATE				
7/23/2015					

1) FOR MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALLS, SEE MECHANICALLY STABILIZED EARTH

2) USE AN MSE WALL SYSTEM WITH PRECAST CONCRETE PANELS THAT MEET SECTION 1077 OF THE STANDARD

3 FOR SINGLE FACED PRECAST CONCRETE BARRIER, SEE ROADWAY PLANS AND SECTION 857 OF THE

4) A SEPARATION GEOTEXTILE IS REQUIRED AT THE BACK OF THE REINFORCED ZONE FOR RETAINING WALL

2) MINIMUM REINFORCEMENT LENGTH (L) = 0.70 * H

4) MAXIMUM FACTORED VERTICAL PRESSURE ON FOUNDATION MATERIAL = 7,900 LB/SF

GREGATE COVISION FOR COARSE AND FINE

8) DESIGN REINFORCEMENT CONNECTED TO END BENT CAPS FOR FACTORED LOAD AND LENGTH OF REINFORCEMENT IN ACTIVE ZONE (La) SHOWN. CAST REINFORCEMENT CONNECTORS INTO CAP BACKWALL FOR END BENT NO.2 LOCATED AT STATION 62+75.40. MAINTAIN CLEARANCE OF AT LEAST 3"BETWEEN

9) FOUNDATIONS FOR END BENT NO. 2 LOCATED AT STATION 62+75.40 WILL INTERFERE WITH REINFORCEMENT FOR RETAINING WALL NO.1. SEE "FOUNDATION LAYOUT" SHEET FOR FOUNDATION LOCATIONS.

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

11) A FENCE IS REQUIRED ON TOP OF RETAINING WALL NO.1. SEE ROADWAY PLANS FOR FENCE

12) FOR PILE SLEEVE, SEE "GENERAL DRAWING" SHEET 2 OF 3.

ENGINEERING UNIT EASTERN REGIONAL OFFICE WESTERN REGIONAL OFFICE CONTRACT OFFICE	MSE RETAINING WALL DETAILS						
TE OF NORTH CAROLINA	REVISIONS					SHEET NO.	
MENT OF TRANSPORTATION	NO.	BY	DATE	NO.	BY	DATE	W-4
RALEIGH	1			3			TOTAL SHEETS
KALLIGH	2			4			4