NOTES:

FOR MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALLS, SEE MECHANICALLY STABILIZED EARTH RETAINING WALLS PROVISION. FOR 4'CHAIN LINK FENCE, SEE ROADWAY PLANS AND SECTION 866 OF THE STANDARD SPECIFICATIONS. FOR STEEL BEAM GUARDRAIL, SEE ROADWAY PLANS AND SECTION 862 OF THE STANDARD SPECIFICATIONS. FOR SINGLE FACED PRECAST CONCRETE BARRIER, SEE ROADWAY PLANS AND SECTION 857 OF THE STANDARD SPECIFICATIONS. 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.

MSE WALL SYSTEM WITH RECTANGULAR PANELS WITH VERTICAL JOINTS LINED UP FROM TOP TO BOTTOM SHALL BE USED FOR RETAINING WALL NO.1. BEFORE BEGINNING MSE WALL DESIGN FOR RETAINING WALL NO., 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. FOR THE FOLLOWING: 1) DESIGN HEIGHT (H) = WALL HEIGHT + WALL EMBEDMENT

2) DESIGN LIFE = 100 YEARS 3) MAXIMUM FACTORED VERTICAL PRESSURE ON FOUNDATION MATERIAL = 4,500 PSF 4) MINIMUM REINFORCEMENT LENGTH (L) = 1.0H. 5) MINIMUM EMBEDMENT ELEVATION = 4 FT

6) REINFORCED ZONE AGGREGATE PARAMETERS:

AGGREGATE TIPE*	(γ) PCF	FRICTION ANGLE (φ) DEGREES	COHESION (c) PSF
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:

MATERIAL TYPE	UNIT WEIGHT (_y) PCF	FRICTION ANGLE (q) Degrees	COHESION (c) PSF
RETAINED	120	30	0
FOUNDATION	115	26	0

THE MINIMUM WALL EMBEDMENT ELEVATION FOR RETAINING WALL NO.1 INCLUDES EMBEDMENT FOR SCOUR. DESIGN RETAINING WALL NO.1 FOR A LIVE LOAD (TRAFFIC) SURCHARGE.

EXISTING OR FUTURE OBSTRUCTIONS SUCH AS FOUNDATIONS, GUARDRAIL, FENCE OR HANDRAIL POSTS, PAVEMENTS, PIPES, INLETS OR UTILITIES MAY INTERFERE WITH REINFORCEMENT FOR RETAINING WALL NO.1. DO NOT PLACE LEVELING PAD CONCRETE, AGGREGATE OR REINFORCEMENT FOR RETAINING WALL NO.1 UNTIL EXCAVATION DIMENSIONS AND FOUNDATION MATERIAL ARE APPROVED.

AT THE CONTRACTOR'S OPTION, "TEMPORARY SHORING FOR WALL CONSTRUCTION" MAY BE USED TO CONSTRUCT RETAINING WALL NO.1. SEE MSE RETAINING WALLS PROVISION FOR TEMPORARY SHORING FOR WALL CONSTRUCTION.

PREPARED BY:	DATE:
REVIEWED BY:	DATE:



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NORTH CAROLINA MENT OF TRANSPORTATION	RETAINING \ MSF V	VALL NO. 1
VISION OF HIGHWAYS	NOTES AND PRE	CAST PANELS
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GINEERING UNIT	NO. BY DATE NO.	BY DATE NO.
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