NOTES:

FOR MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALLS, SEE MECHANICALLY STABILIZED EARTH RETAINING WALLS PROVISION. FOR TYPE III REINFORCED BRIDGE APPROACH FILL, SEE BRIDGE APPROACH FILLS PROVISION AND ROADWAY DETAIL DRAWING NO. 422D10. 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&2. A SEPARATION GEOTEXTILE IS REQUIRED AT THE BACK OF THE REINFORCED ZONE FOR RETAINING WALL NOS.1&2.

A DRAIN IS REQUIRED FOR RETAINING WALL NOS.1&2.

BEFORE BEGINNING MSE WALL DESIGN FOR RETAINING WALL NOS.1&2, 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) H = DESIGN HEIGHT + EMBEDMENT

2) DESIGN LIFE = 100 YEARS

3) MAXIMUM FACTORED VERTICAL PRESSURE ON FOUNDATION MATERIAL = 9000 PSF 4) MINIMUM REINFORCEMENT LENGTH (L) = 0.8H OR 6 FT, WHICHEVER IS LONGER 5) MINIMUM EMBEDMENT ELEVATION = 3.0 FT BELOW FINISHED GRADE 6) REINFORCED ZONE AGGREGATE PARAMETERS:

| AGGREGATE TYPE* | UNIT WEIGHT (y) PCF | FRICTION ANGLE (ф) DEGREES | COHESIO (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 | COHESIO (c) PSF |
|---------------|--|----------------------------------|-----------------------|
| BACKFILL | 120 | 30 | 0 |
| FOUNDATION | 125 | 22 | 500 |

DESIGN RETAINING WALL NOS.1&2 FOR A LIVE LOAD (TRAFFIC) SURCHARGE.

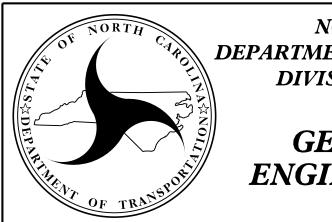
DESIGN REINFORCEMENT CONNECTED TO END BENT CAPS FOR FACTORED LOAD AND LENGTH OF REINFORCEMENT IN ACTIVE ZONE (La) SHOWN. CAST REINFORCEMENT OR CONNECTORS INTO CAP BACKWALL FOR END BENT NO.1 LOCATED AT STATION 14+25.05 -Y2-. MAINTAIN A CLEARANCE OF AT LEAST 3"BETWEEN REINFORCEMENT OR CONNECTORS AND REINFORCING STEEL IN CAP. DESIGN REINFORCEMENT CONNECTED TO END BENT CAPS FOR FACTORED LOAD AND LENGTH OF REINFORCEMENT IN ACTIVE ZONE (L) SHOWN. CAST REINFORCEMENT OR CONNECTORS INTO CAP BACKWALL FOR END BENT NO. 2 LOCATED AT STATION 12+89.51 -Y2-. MAINTAIN A CLEARANCE OF AT LEAST 3"BETWEEN REINFORCEMENT OR CONNECTORS AND REINFORCING STEEL IN CAP. EXISTING OR FUTURE OBSTRUCTIONS SUCH AS FOUNDATIONS, GUARDRAIL, FENCE OR HANDRAIL POSTS, PAVEMENTS, PIPES, INLETS OR UTILITIES MAY INTERFERE WITH REINFORCEMENT FOR RETAINING WALL NOS.1&2. FOUNDATIONS FOR END BENT NOS.1&2 LOCATED AT STATION WILL INTERFERE WITH REINFORCEMENT FOR RETAINING WALL NOS.1&2. SEE "FOUNDATION LAYOUT" SHEET FOR FOUNDATION LOCATIONS. DO NOT PLACE LEVELING PAD CONCRETE, AGGREGATE OR REINFORCEMENT FOR RETAINING WALL NOS. 1&2 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&2. SEE MSE RETAINING WALLS PROVISION FOR TEMPORARY SHORING FOR WALL CONSTRUCTION.

SUBSURFACE INFORMATION CAN BE FOUND IN THE SUBSURFACE INVESTIGATION FOR THE BRIDGE.

| PREPARED BY: SCC | DATE: 4/20/20 | |
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| REVIEWED BY: ENW | DATE: 4/24/20 | |



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