

USE THE FOLLOWING FORMULA TO CALCULATE RETAINING WALL QUANTITIES-
 Qty (sq. ft) = WallEnvelope Qty from Others (sq. ft) +
 [Min Extension (ft) + Min Embedment (ft)] x WallLength (ft)

ESTIMATED _____ WALL QUANTITIES	
RETAINING WALL NO.	RETAINING WALLS (SQUARE FEET)
1 OF 2 OR...	----
2 OF 3 OR...	----
3 OF 4 OR...	----
TOTAL QUANTITY = ____ SF	

WALL QUANTITY TABLE (FOR ALL WALL TYPES EXCEPT MSE AND SOIL NAIL WALLS):

- Change "QUANTITIES" to "QUANTITY" in "ESTIMATED _____ WALL QUANTITIES" and delete last row with "TOTAL QUANTITY = ____ SF" if there is only one wall for the retaining wall pay item for the project.
- Add or subtract rows for more or less than 3 walls.
- Edit table title "ESTIMATED _____ WALL QUANTITIES", pay item name "_____ RETAINING WALLS" and retaining wall no. and quantity data fields for each wall and total quantity data field if there is more than one wall for the retaining wall pay item for the project. Use wall numbers from the Roadway Plans and note that wall numbers may not be consecutive.
- Use a separate table for each retaining wall pay item.

ESTIMATED MSE WALL QUANTITIES (SQUARE FEET)	
MSE RETAINING WALL NO. #	SF
MSE RETAINING WALL NO. #	____ SF
MSE RETAINING WALL NO. #	____ SF
MSE RETAINING WALL NO. #	____ SF

MSE WALL QUANTITY TABLE (ONLY FOR MSE WALLS):

- Change "QUANTITIES" to "QUANTITY" in "ESTIMATED MSE WALL QUANTITIES" if there is only one MSE wall for the project.
- Add or subtract rows for more or less than 3 MSE walls.
- Edit pay item name "MSE RETAINING WALL NO. #" and wall quantity data field for each MSE wall. Use wall numbers from the Roadway Plans and note that wall numbers may not be consecutive.

ESTIMATED SOIL NAIL WALL QUANTITIES			
RETAINING WALL NO.	SOIL NAIL RETAINING WALLS (SQUARE FEET)	SOIL NAIL VERIFICATION TESTS	SOIL NAIL PROOF TESTS
1 OF 2 OR...	----	--	--
2 OF 3 OR...	----	--	--
3 OF 4 OR...	----	--	--
TOTAL QUANTITIES	____ SF	--	--

SOIL NAIL WALL QUANTITY TABLE (ONLY FOR SOIL NAIL WALLS):

- Delete last row with "TOTAL QUANTITIES" if there is only one soil nail wall for the project.
- Add or subtract rows for more or less than 3 soil nail walls.
- Edit retaining wall no. and quantity data fields for each soil nail wall and total quantity data fields if there is more than one soil nail wall for the project. Use wall numbers from the Roadway Plans and note that wall numbers may not be consecutive.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**GEOTECHNICAL
ENGINEERING UNIT**

STD CELL Wall Qty Tables

ESTIMATED WALL QUANTITY
TABLES WITH INSTRUCTIONS