PROJECT REFERENCE NO.	SHEET NO.
34605.1.2(R-4060)	W-5

GEOTECHNICAL ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 028893 ENGINEER MICHAEL H. STEPHENS

DocuSigned by: Michael H. Stephens C44768209314CC...

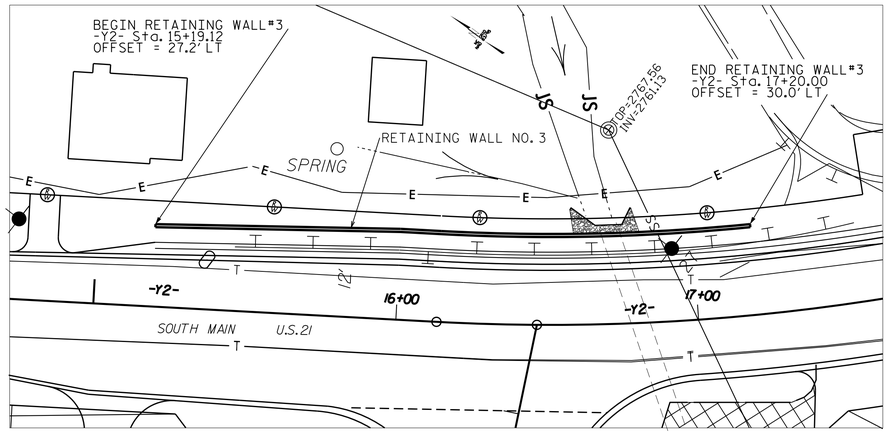
5/13/2016

SIGNATURE DATE

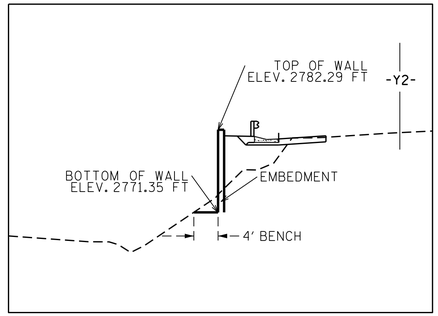
_ ENGINEER

SIGNATURE DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



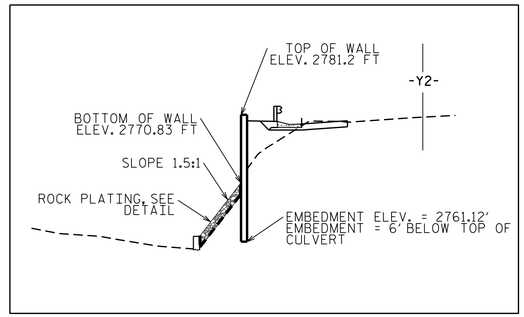
WALL NO. 3 PLAN VIEW



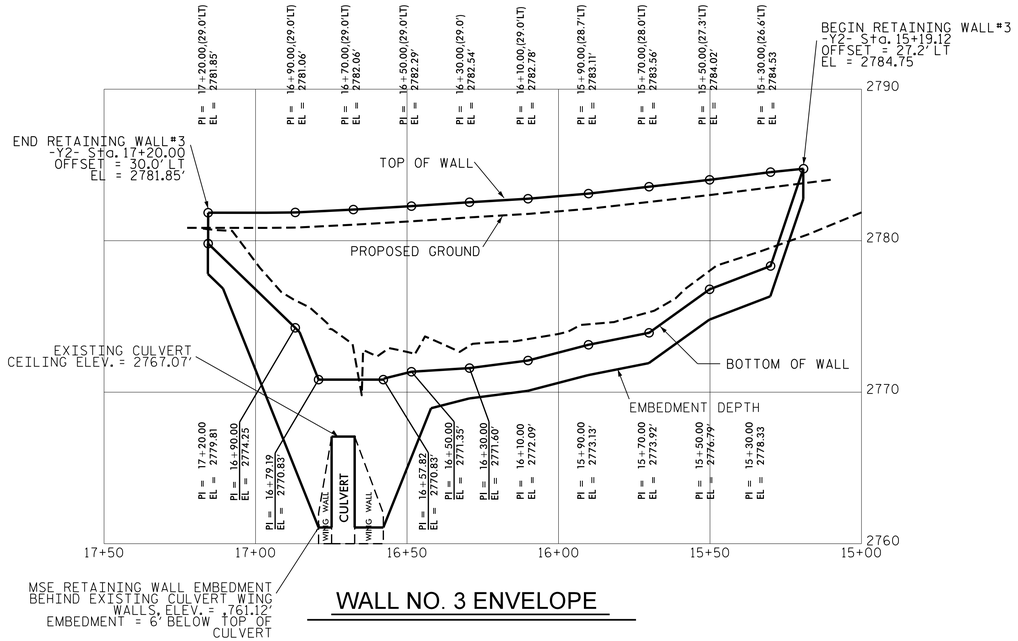
CROSS SECTION @ STA 16+50 -Y2-
MSE RETAINING WALL

FRONT SLOPE WALL EMBEDMENT		
SLOPE IN FRONT OF STRUCTURES		MINIMUM EMBEDMENT DEPTH
HORIZONTAL	FOR WALLS	H/20
	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 IN FRONT OF THE WALL FOR ITS ENTIRE LENGTH, EXCEPT AT EXISTING CULVERT (SEE CROSS SECTIONS).
2) MINIMUM EMBEDMENT DEPTH OF 2 FT, UNLESS LARGER DEPTHS DICTATED BY THE ABOVE TABLE.
3) MAXIMUM SLOPE OF 1H:1V WILL BE MAINTAINED ON FRONT SLOPES FOR THE ENTIRE LENGTH OF THE WALL.
4) SUBMITT WITH THE WALL DESIGN INTERNAL, EXTERNAL, AND GLOBAL STABILITY ANALYSISES.



CROSS SECTION @ STA 16+57.82 -Y2-
CULVERT WING WALL
MSE RETAINING WALL

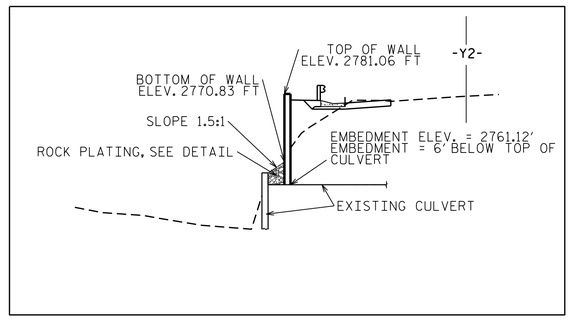


WALL NO. 3 ENVELOPE

ESTIMATED WALL QUANTITY	
RETAINING WALL NO. 3	* 2,440 SQUARE FEET

* WALL AREA IS MEASURED USING THE TOTAL HEIGHT "H"

ESTIMATED ROCK PLATING	
RETAINING WALL NO. 3	* 35 SQUARE YARDS



CROSS SECTION @ STA 16+70 -Y2-
EXISTING CULVERT
MSE RETAINING WALL

PREPARED BY: MHS	DATE: 5/12/16
REVIEWED BY: SCC	DATE: 5/12/16

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT

RETAINING WALL NO. 3
MSE RETAINING WALL

REVISIONS

NO.	BY	DATE	NO.	BY	DATE
1	_	_	3	_	_
2	_	_	4	_	_