

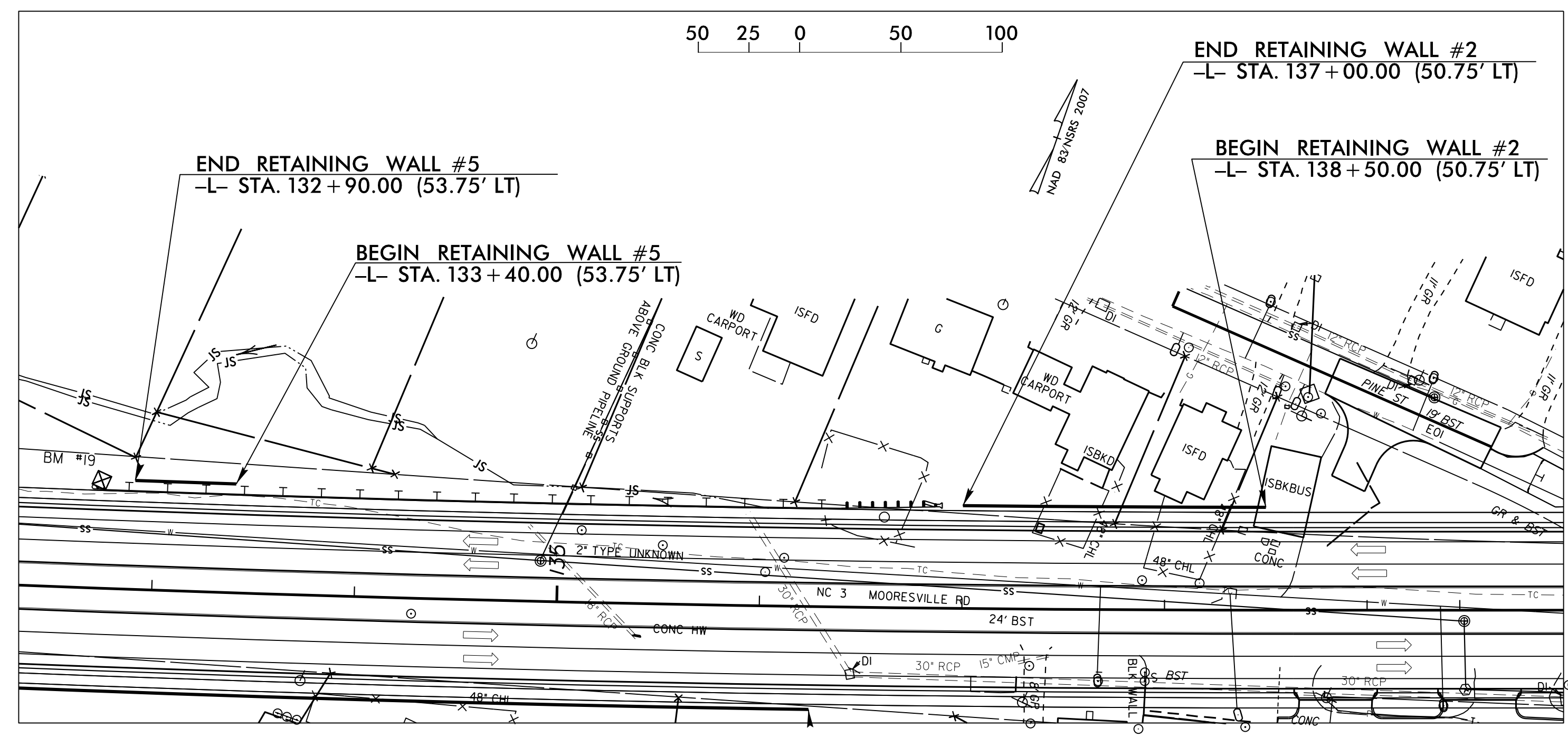
GEOTECHNICAL ENGINEER

ENGINEER

DocuSigned by: Michael Stephens 8/16/2016

DATE: 8/16/2016

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

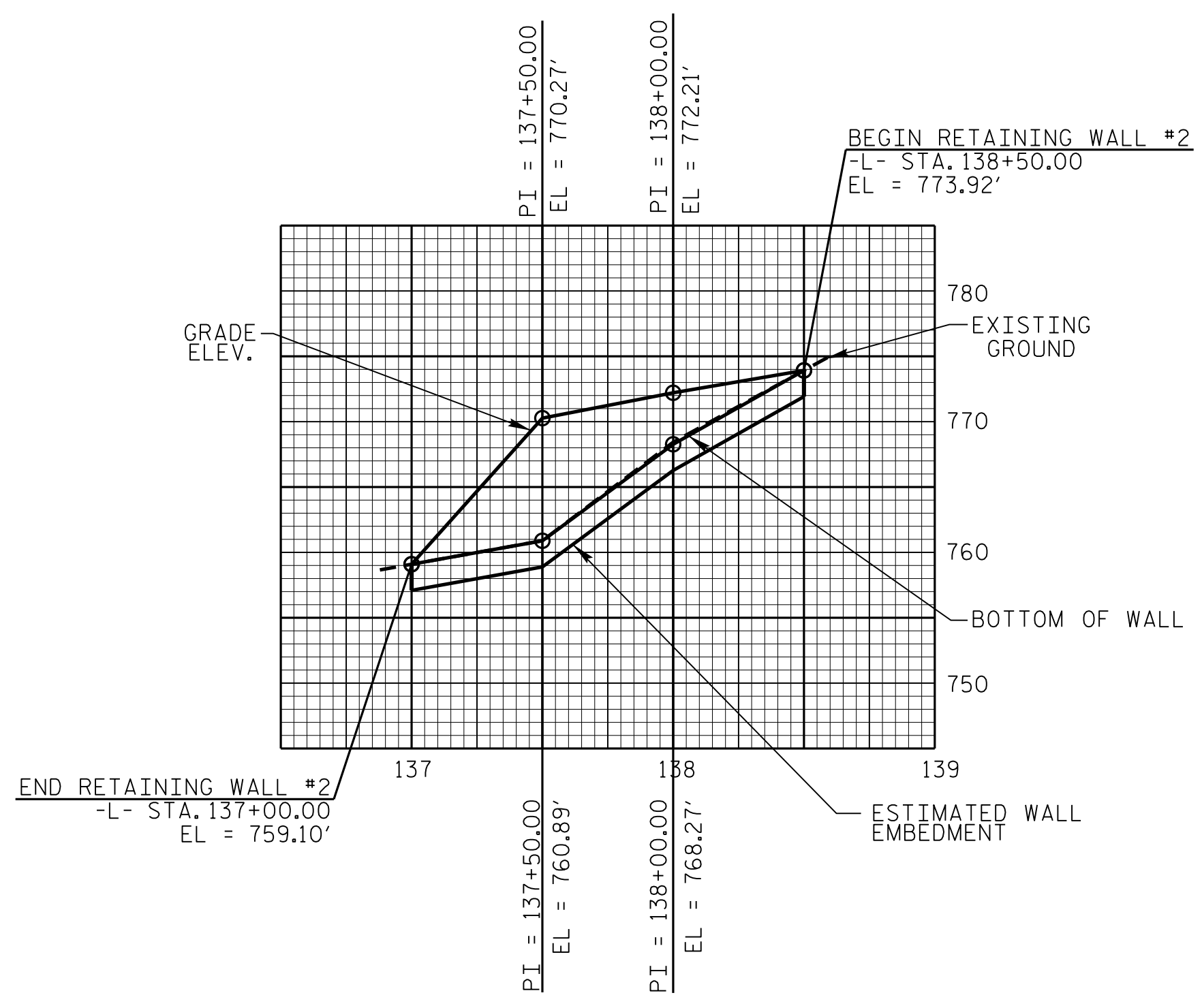


PLAN VIEW - RETAINING WALL NOS. 2 AND 5

FRONT SLOPE WALL EMBEDMENT

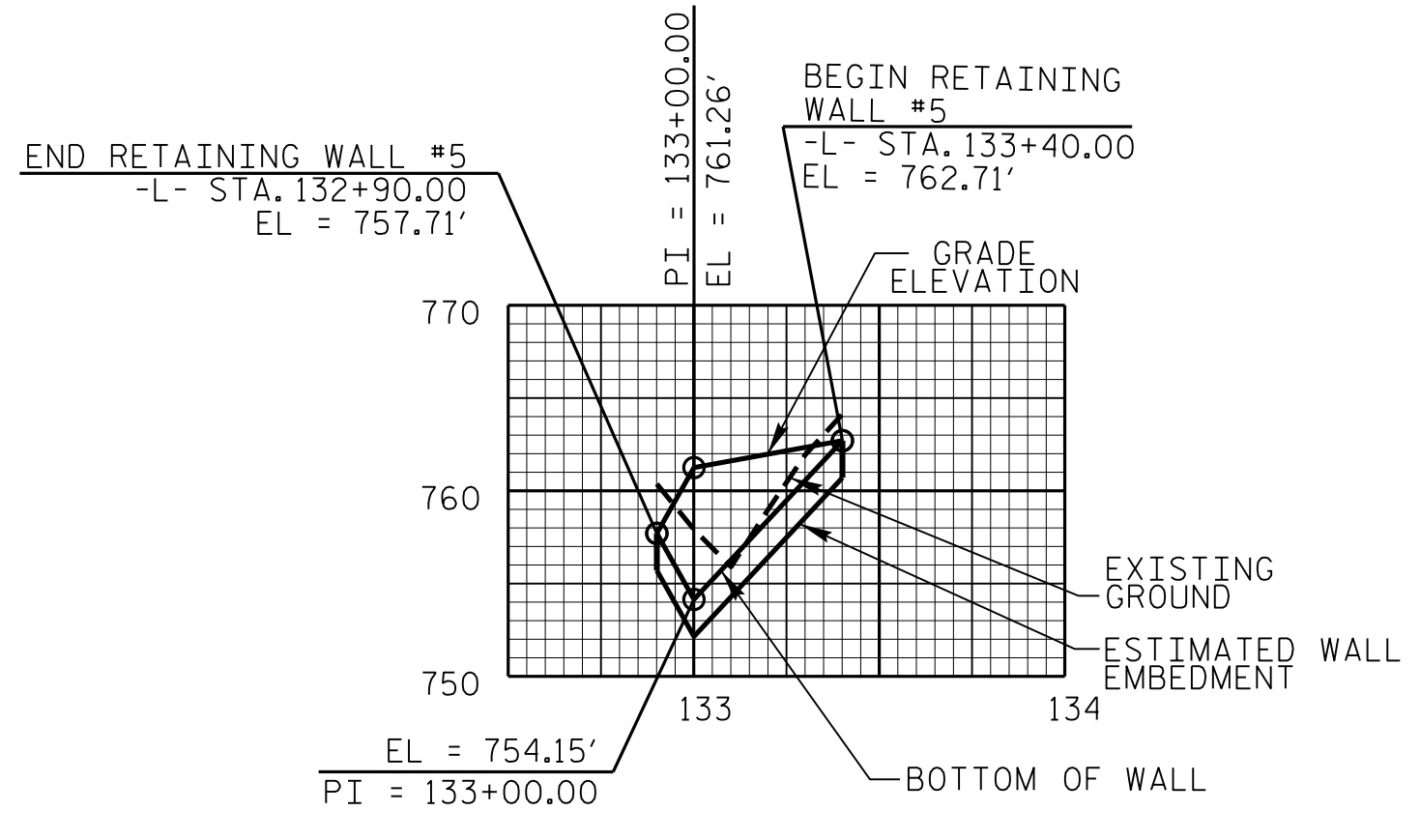
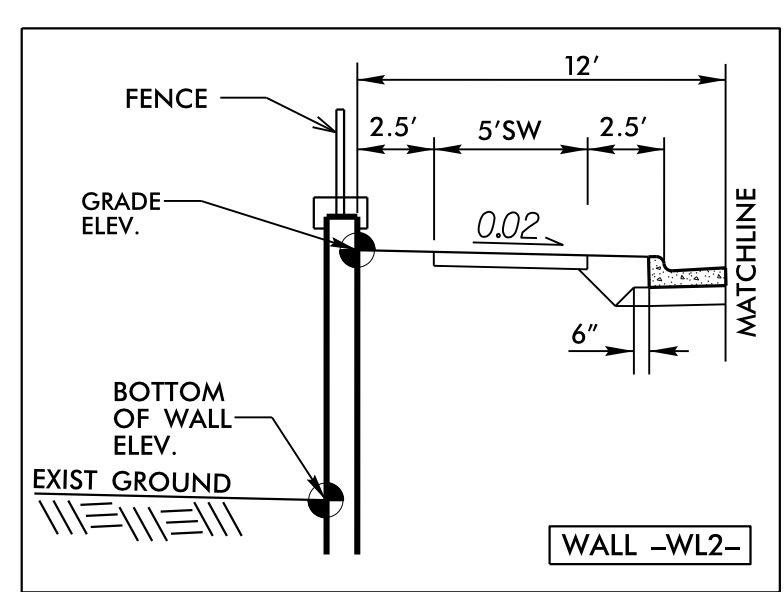
SLOPE IN FRONT OF STRUCTURES		MINIMUM EMBEDMENT DEPTH
HORIZONTAL	FOR WALLS	H/20
	FOR ABUTMENTS	H/10
3.0H:1.0V	WALLS	H/10
2.5H:1.0V	WALLS	H/8.5
2.0H:1.0V	WALLS	H/7
1.5H:1.0V	WALLS	H/5
1.25H:1.0V	WALLS	H/4
1.0H:1.0V	WALLS	H/3

NOTE:
 1) MAINTAIN A MINIMUM BENCH WIDTH OF 4.0 IN FRONT OF THE WALL FOR ITS ENTIRE LENGTH.
 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) SUBMIT WITH THE WALL DESIGN INTERNAL, EXTERNAL, AND GLOBAL STABILITY ANALYSES.



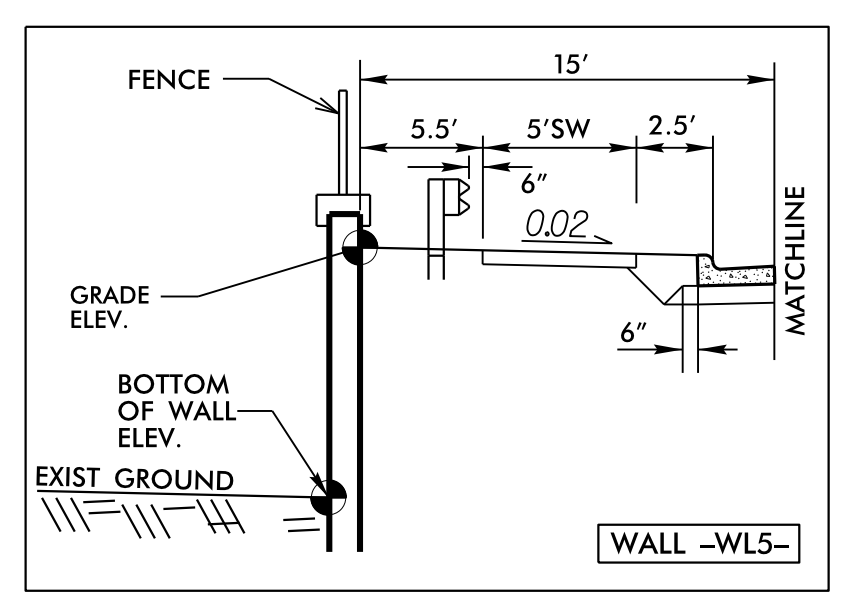
WALL ENVELOPE - RETAINING WALL NO. 2

NOTE: 1) OFFSET DIMENSIONS ARE FROM FACE OF WALL
 2) THE WALL ENVELOPE DOES NOT ACCURATELY DEPICT THE ACTUAL FACE OF THE WALL



WALL ENVELOPE - RETAINING WALL NO. 5

NOTE: 1) OFFSET DIMENSIONS ARE FROM FACE OF WALL
 2) THE WALL ENVELOPE DOES NOT ACCURATELY DEPICT THE ACTUAL FACE OF THE WALL



MSE RETAINING WALL QUANTITIES		
RETAINING WALL NO. 2	-WL2-	* 970 SQUARE FEET
RETAINING WALL NO. 5	-WL5-	* 280 SQUARE FEET

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

NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT

PROJECT NO.: 39010.1.R2 (U-3440)
 CABARRUS COUNTY
 STATION: RWALL2: 138+50 -L- TO 137+00 -L-
 RWALL5: 133+40 -L- TO 132+90 -L-
 SHEET 3 OF 9

RETAINING WALL NOS. 2 AND 5
 MSE RETAINING WALL

REVISIONS						SHEET NO. W3
NO.	BY	DATE	NO.	BY	DATE	
1			3			
2			4			