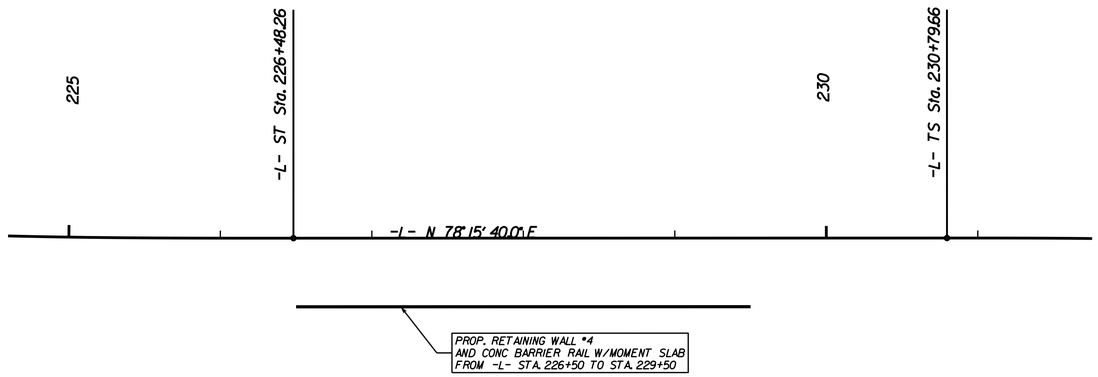
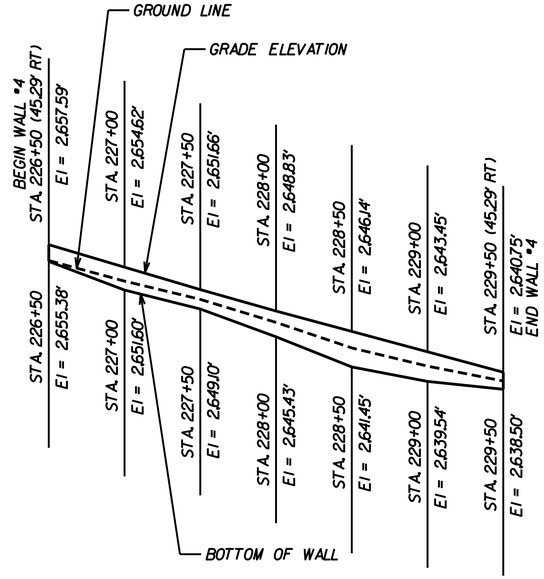
GEOTECHNICAL ENGINEER	ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 027869 ENGINEER DAVID L. TEAGUE	
DocuSigned by: David Teague — SIGNATURE — DATE 8/29/2014	SIGNATURE — DATE





NOTES:

FOR SOLDIER PILE RETAINING WALLS, SEE SOLDIER PILE RETAINING WALLS PROVISION.

A CONCRETE BARRIER RAIL WITH MOMENT SLAB IS REQUIRED ABOVE RETAINING WALL NO. 4. SEE PLANS FOR CONCRETE BARRIER RAIL WITH MOMENT SLAB DETAILS.

DRILLED IN PILES ARE REQUIRED FOR RETAINING WALL NO. 4.

BEFORE BEGINNING SOLDIER PILE WALL DESIGN FOR RETAINING WALL NO. 4, 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. 4 FOR WALL HEIGHTS EQUAL TO THE DESIGN HEIGHT (DIFFERENCE BETWEEN GRADE ELEVATION AND BOTTOM OF WALL ELEVATION) PLUS EMBEDMENT (DIFFERENCE BETWEEN BOTTOM OF WALL ELEVATION AND TOP OF LEVELING PAD ELEVATION).

DESIGN RETAINING WALL NO. 4 FOR THE FOLLOWING:
1) MINIMUM DESIGN LIFE = 100 YEARS
2) IN-SITU ASSUMED MATERIAL PARAMETERS:
   UNIT WEIGHT, γ = 120 PCF
   FRICTION ANGLE, ϕ = 30 DEGREES
   COHESION, c = 0 PSF

DESIGN RETAINING WALL NO. 4 FOR A LIVE LOAD (TRAFFIC) SURCHARGE.

USE TYPICAL SECTION D OR E FOR RETAINING WALL NO. 4

SOLDIER PILE RETAINING WALLS
QUANTITY = 1,000 SQ.FT.

PROJECT NO.: R-2519B (35609JJ)
YANCEY/MITCHELL **COUNTY**
STATION: 226+50.00 -L- TO 229+50.00 -L-
SHEET 1 OF 1

GEOTECHNICAL ENGINEERING UNIT
☐ EASTERN REGIONAL OFFICE
☐ WESTERN REGIONAL OFFICE
☒ CONTRACT OFFICE
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

RETAINING WALL NO. 4
SOLDIER PILE WALL

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	W-5
1			3			TOTAL SHEETS
2			4			18

PREPARED BY:	D.TEAGUE	DATE:	6/11
REVIEWED BY:	E.WILLIAMS	DATE:	6/11