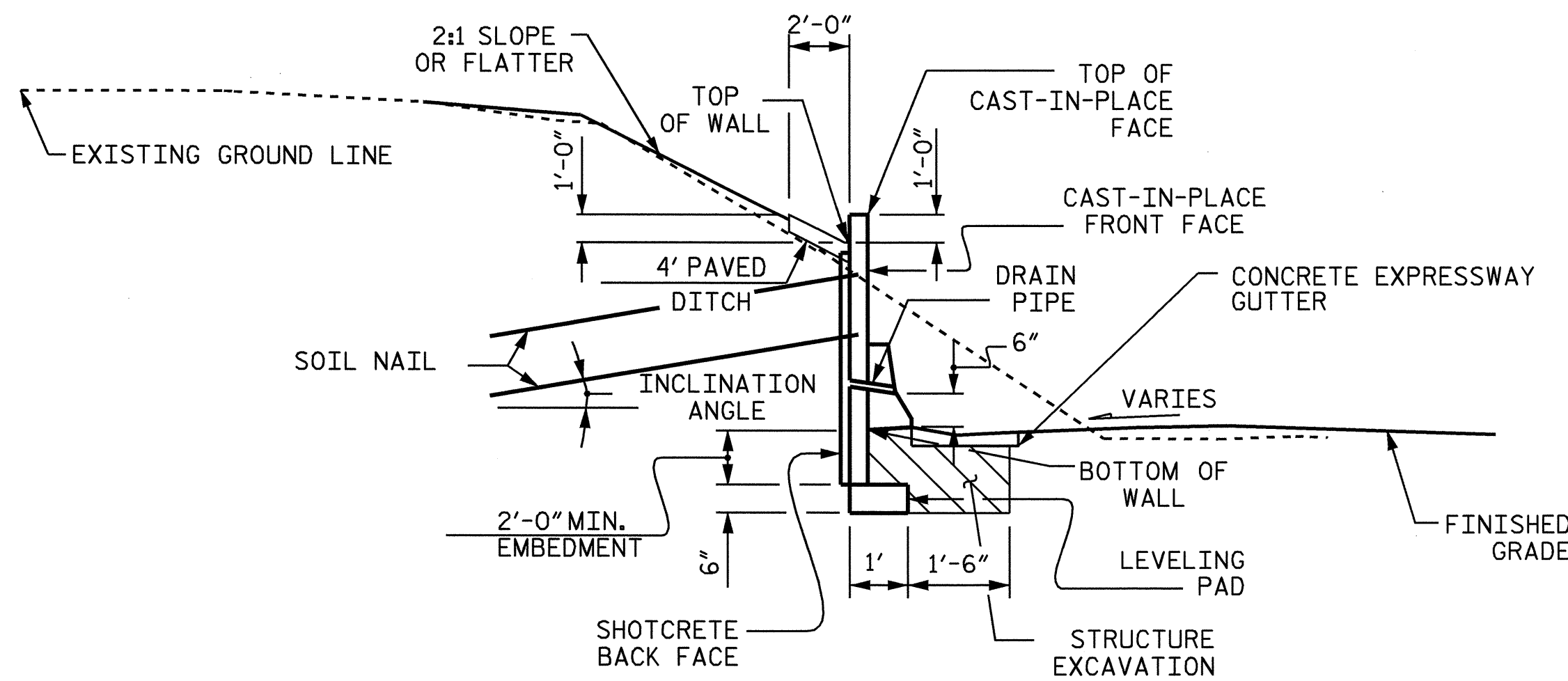
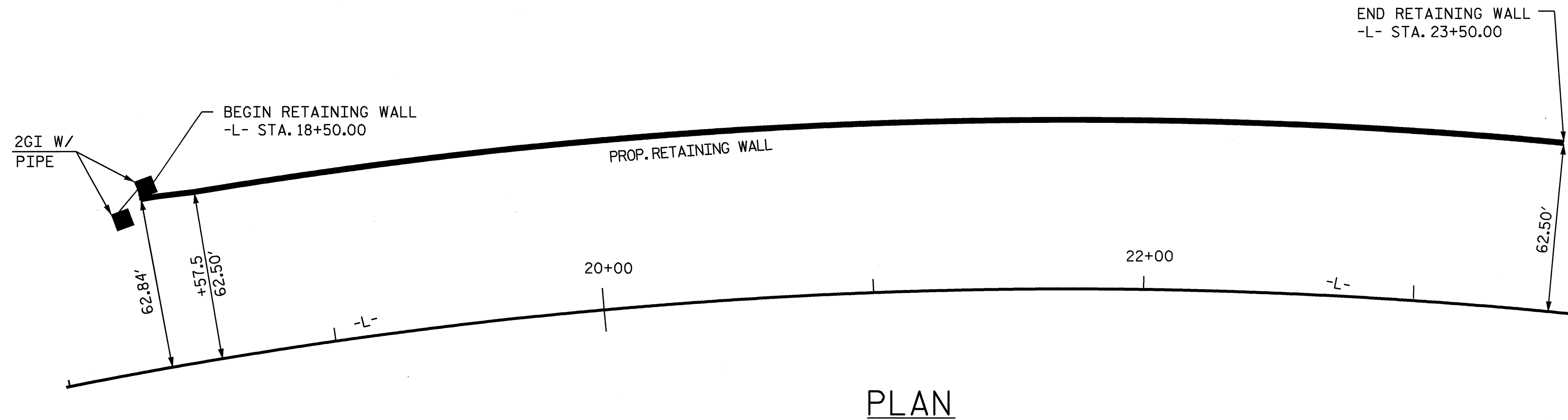


RETAINING WALL ELEVATIONS				
-L- STA.	OFFSET FROM CL	ELEV. @ TOP OF WALL *	ELEV. @ BOTTOM OF WALL **	WALL HEIGHT
18+50.00	62.84' LT.	741.35'	741.35'	0.00'
19+00.00	62.50' LT.	745.03'	741.25'	3.78'
19+50.00	62.50' LT.	747.33'	740.93'	6.40'
20+00.00	62.50' LT.	748.13'	740.73'	7.40'
20+50.00	62.50' LT.	747.39'	740.34'	7.05'
21+00.00	62.50' LT.	746.61'	739.95'	6.66'
21+50.00	62.50' LT.	746.23'	739.57'	6.66'
22+00.00	62.50' LT.	745.39'	739.12'	6.27'
22+50.00	62.50' LT.	743.87'	738.72'	5.15'
23+00.00	62.50' LT.	740.63'	738.59'	2.04'
23+50.00	62.50' LT.	738.58'	738.58'	0.00'

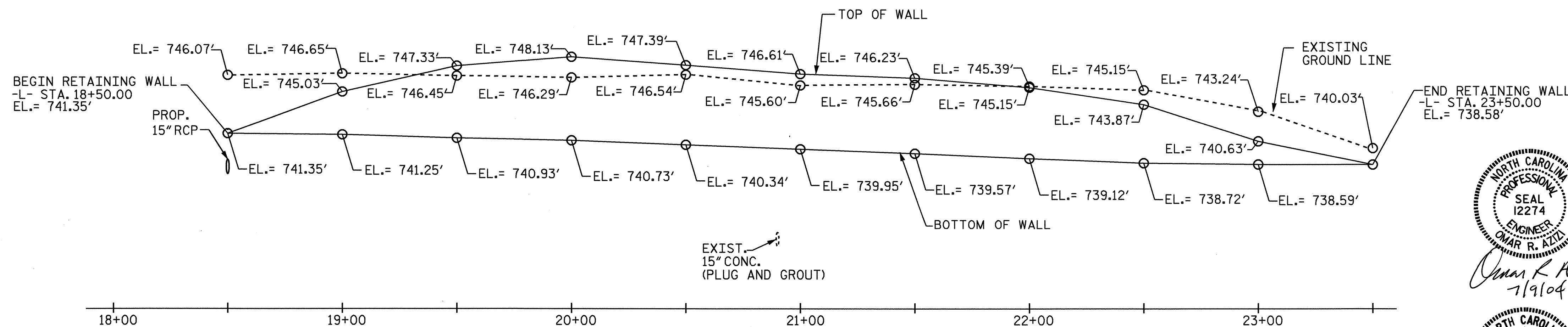
* DOES NOT INCLUDE 1 FOOT CAP & COPING.
 ** TO BERM OR EXISTING GROUND



TYPICAL SECTION THROUGH WALL



PLAN



WALL ELEVATION

NOTES

SUBMIT COMPLETE WORKING DRAWINGS/SHOP PLANS, ERECTION PLANS AND DESIGN CALCULATIONS FOR REVIEW AND APPROVAL PRIOR TO BEGINNING THE "SOIL NAIL RETAINING WALL", SEE SOIL NAIL RETAINING WALLS SPECIAL PROVISION.

THE SERVICE LIFE FOR DESIGN IS 75 YEARS.

USE THE FOLLOWING VALUES FOR WALL DESIGN:
 A. ALL SOIL AND ROCK:
 $\gamma = 120 \text{ lbs/cu. ft.}, \phi = 30^\circ, c = 0 \text{ psf.}$

THE MINIMUM WALL EMBEDMENT IS 2.0 FEET. THIS EMBEDMENT IS NOT SHOWN ON THE WALL ELEVATION. THE BOTTOM OF WALL ON THE WALL ELEVATION IS WHERE THE FINISHED GRADE INTERSECTS THE FRONT OF THE CAST-IN-PLACE FACE.

THE TOP OF THE WALL ELEVATION IS WHERE THE DITCH SLOPE BEHIND THE WALL EXTENDS TO THE BACK OF THE CAST-IN-PLACE FACE. THE TOP OF CAST-IN-PLACE FACE IS 1 FOOT ABOVE THE TOP OF WALL.

FOR THE SOIL NAIL RETAINING WALL, SEE SOIL NAIL RETAINING WALLS SPECIAL PROVISION.

INCLUDE THE FOLLOWING ON PLANS SUBMITTED FOR REVIEW: PLAN VIEW, ELEVATION VIEWS, TYPICAL SECTIONS AND OBSTRUCTION AVOIDANCE DETAILS.

DESIGN THE SOIL NAIL RETAINING WALL TO MEET ALL THE CRITERIA OF THE LATEST VERSION OF AASHTO ALLOWABLE STRENGTH DESIGN STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES AND ITS INTERIMS, THE FHWA MANUAL FOR "DESIGN & CONSTRUCTION MONITORING OF SOIL NAIL WALLS", REPORT NO. FHWA-SA-96-069, THE SPECIAL PROVISIONS AND THE PLANS.

ALL STRUCTURE EXCAVATION AND BACKFILL NECESSARY FOR THE CONSTRUCTION OF THE SOIL NAIL RETAINING WALL WILL BE CONSIDERED INCIDENTAL TO THE COST OF THE WALL.

FOR QUANTITIES AND PAYMENT OF CONCRETE BARRIER AND EXPRESSWAY GUTTER IN FRONT OF THE WALL, SEE ROADWAY PLANS.

THE MINIMUM CENTER TO CENTER SPACING OF THE SOIL NAILS IS 3.0 FEET.

FOR CONCRETE DITCH QUANTITIES AND PAYMENT, SEE ROADWAY PLANS.

PROJECT NO. B-3157
 DAVIDSON COUNTY
 STATION: 18+50.00 -L-

SHEET 1 OF 2

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SOIL NAIL
 RETAINING WALL



Omar R. Aziz
 7/9/04
Emily E. Murray
 7/9/04

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

DRAWN BY: W. C. SMITH DATE: 6-4-03
 CHECKED BY: W. D. CRUTCHER DATE: 6-4-03