

NOTES

SUBMIT COMPLETE WORKING DRAWINGS/SHOP PLANS, ERECTION PLANS AND DESIGN CALCULATIONS FOR REVIEW AND APPROVAL PRIOR TO BEGINNING THE "SOIL NAIL RETAINING WALL", IN ACCORDANCE WITH THE "SUBMITTAL OF WORKING DRAWINGS" SPECIAL PROVISION WITHIN THE STRUCTURE PROJECT SPECIAL PROVISIONS.

THE SERVICE LIFE FOR DESIGN IS 75 YEARS.  
USE THE FOLLOWING SOIL VALUES FOR WALL DESIGN:  
 $\gamma = 120 \text{ lb/cu. ft.}, \phi = 30^\circ, c = 0.$

THE ESTIMATED GROUNDWATER ELEVATION IN THE VICINITY OF THE SOIL NAIL WALL IS BELOW THE BOTTOM OF WALL ELEVATION.

CONTRACTOR IS ADVISED OF THE POSSIBLE PRESENCE OF ROCK WITHIN THE WALL LOCATION.

THE MINIMUM WALL EMBEDMENT IS 2 FT. BELOW THE FINISHED GRADE.

THE TOP OF THE WALL ELEVATION IS WHERE THE DITCH SLOPE, FINISHED GRADE, OR GUTTERLINE BEHIND THE WALL EXTENDS TO THE BACK OF THE CAST-IN-PLACE FACE. THE TOP OF THE CAST-IN-PLACE FACE IS 6 INCHES ABOVE THE TOP OF WALL IN ALL LOCATIONS ALONG WALL.

SEE SOIL NAIL RETAINING WALL SPECIAL PROVISION FOR DETAILS OF MATERIAL AND CONSTRUCTION REQUIRMENTS.

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

RELOCATE ALL UTILITIES BEFORE CONSTRUCTION OF THE RETAINING WALLS. SEE UTILITY PLANS.

DESIGN THE SOIL NAIL RETAINING WALLS 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.

CONCRETE BARRIER INTEGRATED INTO THE WALL CAST-IN-PLACE FACE WILL BE CONSIDERED INCIDENTAL TO THE COST OF THE WALL. FOR DESIGN OF CONCRETE BARRIER, SEE ROADWAY STANDARD DETAIL DRAWINGS.

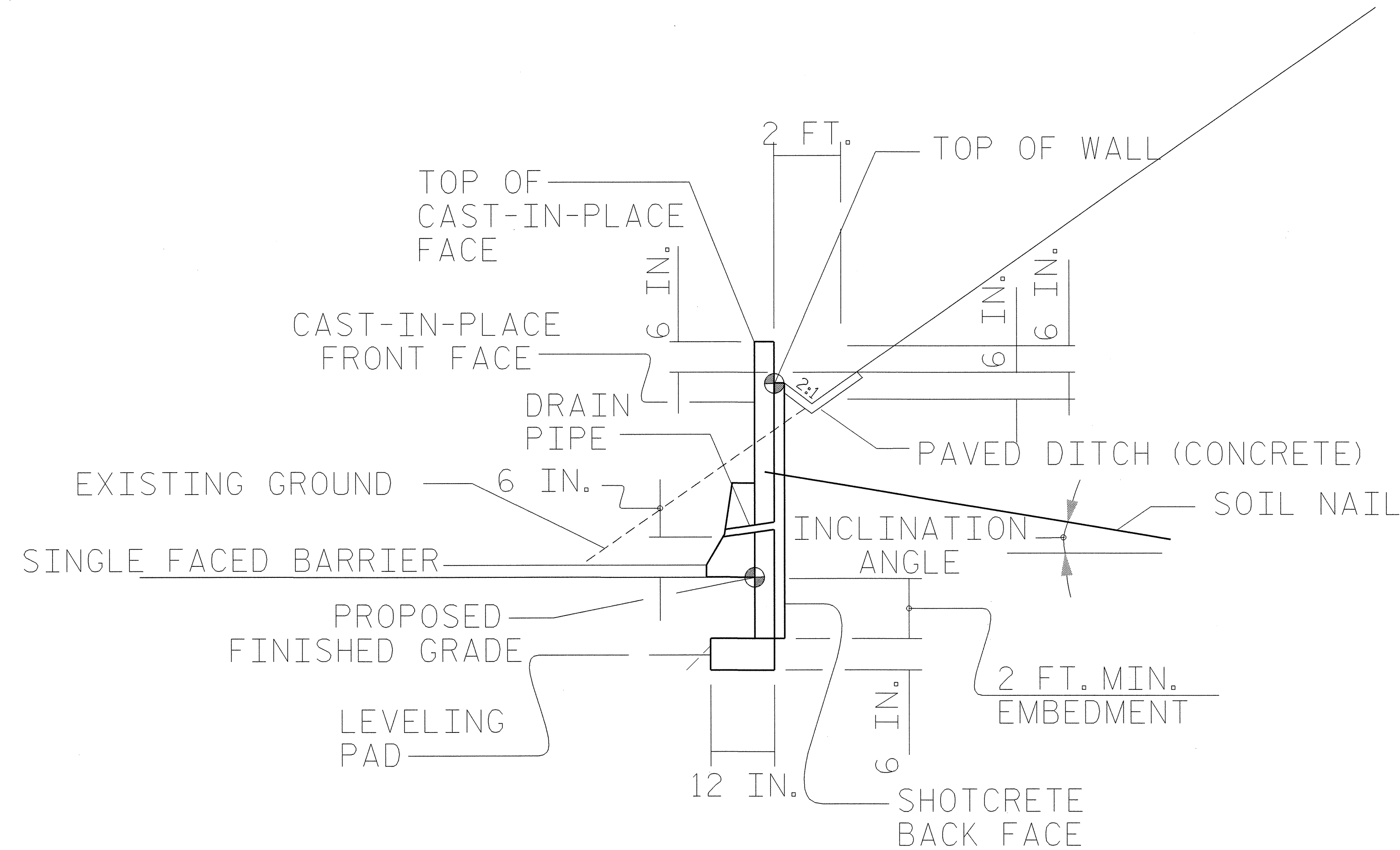
CONCRETE BARRIER SHALL BE EXTENDED BEYOND THE SOIL NAIL WALL LIMITS TO ZERO OUT THE CUT SLOPES.

DESIGN THE WALL AND CAST-IN-PLACE FACE FOR TRAFFIC IMPACT IN ACCORDANCE WITH AASHTO.

THE MINIMUM CENTER TO CENTER SPACING OF THE SOIL NAILS IS 3 FEET.

BLASTING WILL NOT BE ALLOWED ANYWHERE ON THIS PROJECT.

ESTIMATED AREA OF WALL IS 1311 FT.<sup>2</sup>



TYPICAL SECTION

STA. 12+30. -L- TO STA. 14+32 -L-

PROJECT NO. B-3694  
ROCKINGHAM COUNTY  
STATION: 12+30-L- TO  
14+32-L-  
SHEET 2 OF 2

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH

SOIL NAIL  
RETAINING WALL



DRAWN BY : WDF DATE : 2/4/05  
DESIGNED BY : DLT DATE : 2/5/05  
CHECKED BY : JRB DATE : 2/5/05

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	2-J
1			3			TOTAL SHEETS
2			4			