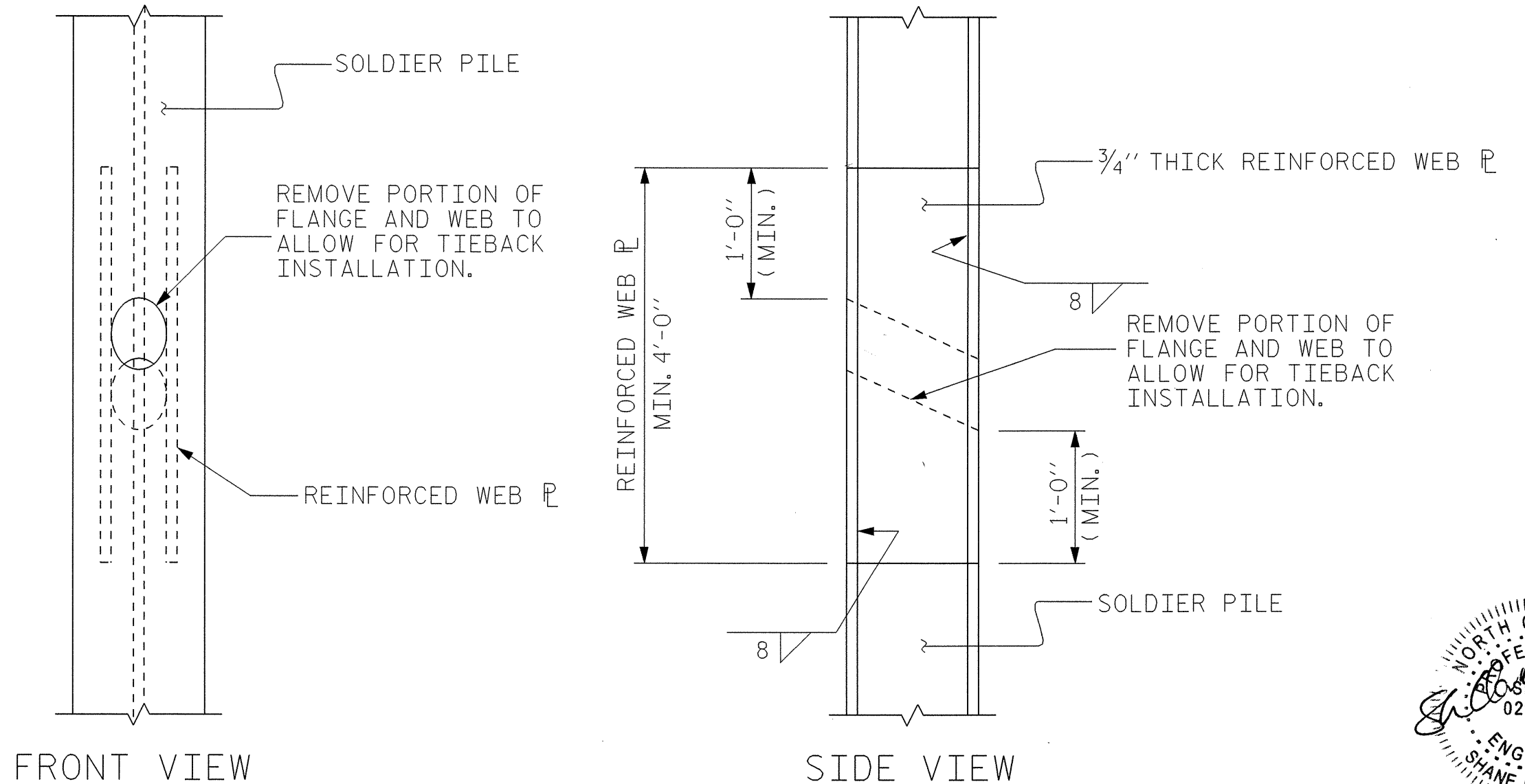


SECTION THROUGH WALL  
NTS



THROUGH PILE DETAILS  
(FOR TIEBACK INSTALLATION)

**NOTES :**

WALL DESIGN MUST BE IN ACCORDANCE WITH THE CRITERIA SET FORTH IN THE AASHTO SPECIFICATIONS FOR HIGHWAY BRIDGES AND THE FHWA MANUAL "GROUND ANCHORS AND ANCHORED SYSTEMS MANUAL", PUBLICATION No. FHWA-IF-99-015.

FOR TIEBACK RETAINING WALL, SEE "PERMANENT ANCHOR TIEBACK RETAINING WALL" SPECIAL PROVISION.

DESIGN FOR SERVICE LIFE OF 100 YEARS.

SUBMIT COMPLETE WORKING DRAWINGS AND DESIGN CALCULATIONS FOR THE TIEBACK WALL TO THE STATE BRIDGE DESIGN ENGINEER FOR REVIEW AND APPROVAL PRIOR TO EXCAVATION FOR THE WALL.

USE THE FOLLOWING SOIL PARAMETERS FOR WALL DESIGN :

ROADWAY EMBANKMENT  
 COHESION = 0 psf  
 EFFECTIVE FRICTION ANGLE = 34°  
 EFFECTIVE UNIT WT. = 130 pcf

EMBED WALL FACE A MINIMUM OF 2'-0" BELOW FINISHED GRADE.

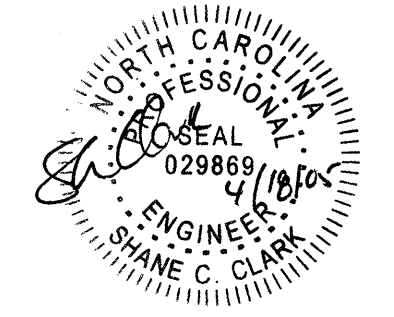
PROVIDE PRECAST CONCRETE PANELS WITH CONNECTION DETAILS IF PRECAST CONCRETE PANELS ARE SELECTED.

SUBMIT COMPLETE WORKING DRAWINGS AND DESIGN CALCULATIONS FOR ALL SYSTEM COMPONENTS AND CONNECTIONS.

EXTEND TIEBACK ANCHORS THRU BOULDER FILL INTO BEDROCK.

TIEBACK RETAINING WALL MUST BE INSTALLED PRIOR TO CONSTRUCTION OF TOE SCOUR PROTECTION.

ALL TIMBER LAGGING SHALL BE A MINIMUM THICKNESS OF 4".



PROJECT NO. 112.1044027  
 HAYWOOD COUNTY  
 STATION: 20+89.59 -EL4- TO 22+64.01 -EL4-  
 SHEET 2 OF 2

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

PERMANENT  
 ANCHOR TIEBACK  
 RETAINING WALL  
 AT SLIDE #4

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

DRAWN BY : MIKE BRITT DATE : 3-1-05  
 CHECKED BY : MIKE BRITT DATE : 3-1-05

SEE X-SECTION SHEET No.'s X-1 THRU X-25  
 SEE PLAN SHEET No. 4