

## SOLDIER PILE WALL WITH PRECAST PANEL - TYPICAL SECTIONS

AT THE CONTRACTOR'S OPTION, CONNECT COPING TO PANELS WITH DOWELS OR EXTEND COPING DOWN BACK OF PANELS AND PILES. \*\*SEE CONCRETE DITCH BEHIND WALL DETAILS. \*\*SEE PLANS FOR FINISHED GRADE OR END BENT SLOPE DETAILS.

## NOTES:

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

FOR SINGLE FACED PRECAST CONCRETE BARRIER, SEE ROADWAY PLANS AND SECTION 857 OF THE STANDARD SPECIFICATIONS.

A FENCE OR HANDRAIL MAYBE REQUIRED ON TOP OF RETAINING WALL NO.6. SEE ROADWAY PLANS FOR FENCE OR HANDRAIL ATTACHMENT DETAILS.

DRILLED-IN H-PILES ARE REQUIRED FOR RETAINING WALL NO.6.

USE A SOLDIER PILE RETAINING WALL WITH PRECAST CONCRETE PANELS THAT MEET SECTION 1077 OF THE STANDARD SPECIFICATIONS OR CONSTRUCT A CAST-IN-PLACE REINFORCED CONCRETE FACE FOR RETAINING WALL NO.6.

IF PILES ARE EXPOSED, PAINT GALVANIZED H-PILES BLACK IN ACCORDANCE WITH ARTICLE 442-12 OF THE STANDARD SPECIFICATIONS FOR RETAINING WALL NO.6.

BEFORE BEGINNING SOLDIER PILE WALL DESIGN FOR RETAINING WALL NO.6, 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.6 FOR THE FOLLOWING:

1) H = DESIGN HEIGHT + WALL EMBEDMENT

2) DESIGN LIFE = 100 YEARS

3) MINIMUM WALL EMBEDMENT ELEVATION = 1 FT

4) MINIMUM PILE PENETRATION INTO ROCK = 5 FT

5) IN-SITU ASSUMED MATERIAL PARAMETERS ABOVE THE BOTTOM OF THE WALL:
UNIT WEIGHT, g = 120 LB/CF
FRICTION ANGLE, f = 30 DEGREES

COHESION, c = 0 LB/SF

6) IN-SITU ASSUMED MATERIAL PARAMETERS BELOW THE BOTTOM OF THE WALL:
UNIT WEIGHT, g = 120 LB/CF
FRICTION ANGLE, f = 30 DEGREES

NO SEPARATE RETAINING WALL INVENTORIES WERE PRODUCED FOR THIS PROJECT, SEE ROADWAY INVENTORY FOR SUBSURFACE INFORMATION

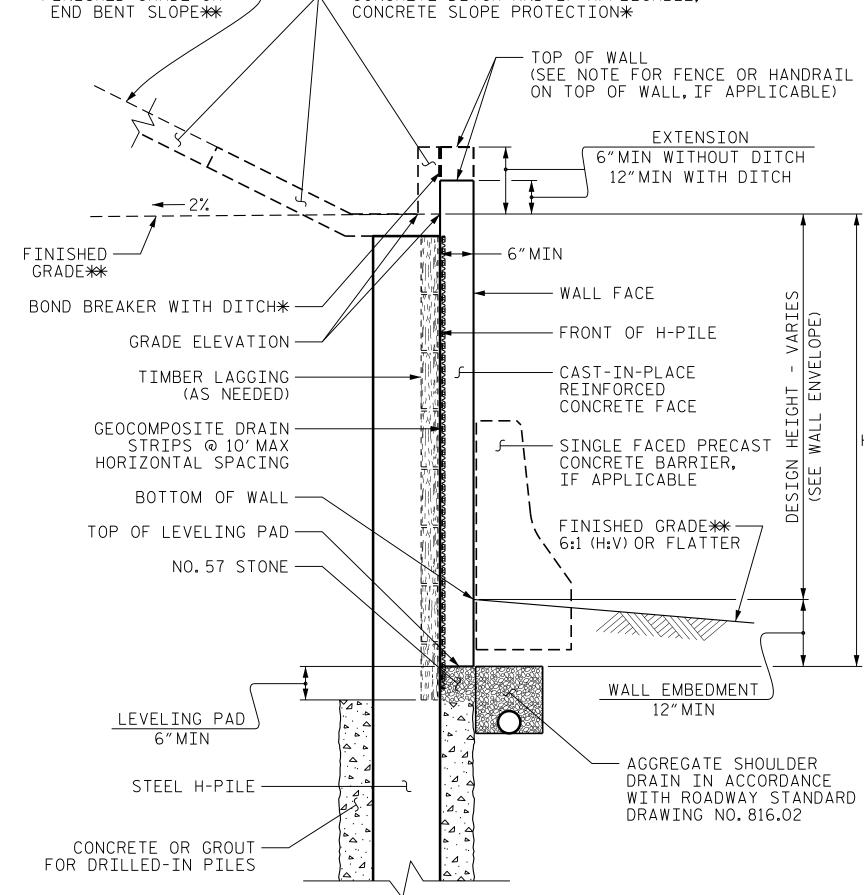
PREPARED BY: EJS

REVIEWED BY: SCC

DATE: 10/15

DATE: 10/15

COHESION, c = 0 LB/SF



SOLDIER PILE WALL WITH

CAST-IN-PLACE FACE - TYPICAL SECTION

\*\*SEE CONCRETE DITCH BEHIND WALL DETAILS.

\*\*\*SEE PLANS FOR FINISHED GRADE OR END BENT SLOPE DETAILS.

PROJECT NO.: R-2409C

GEOTECHNICAL ENGINEER

> SEAL 29869

CONCRETE DITCH AND IF APPLICABLE,

10/27/2015

**ENGINEER** 

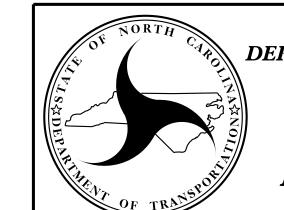
SIGNATURE

DATE

TRANSYLVANIA COUNTY

STATION: 67+53.00 -L- to 68+66.61 -L-

SHEET 2 OF 2



NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

FINISHED GRADE OR —

GEOTECHNICAL ENGINEERING UNIT SOLDIER PILE WALL WALL #6

REVISIONS						SHEET
	BY	DATE	NO.	BY	DATE	NO.
			3			W-10
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