

SOIL NAIL WALL - TYPICAL SECTION

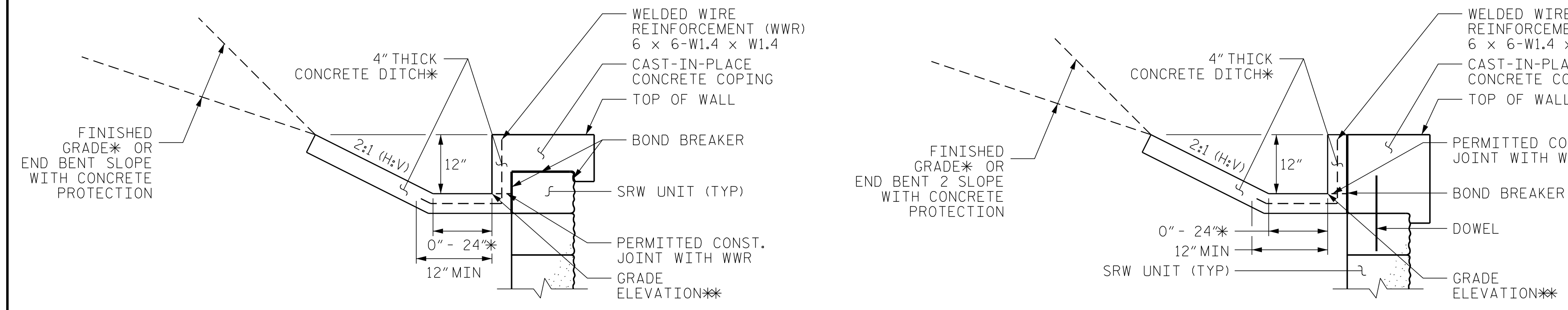
* SEE CONCRETE DITCH BEHIND WALL DETAILS.
** SEE PLANS FOR END BENT SLOPE DETAILS.

NOTES:

- FOR SOIL NAIL RETAINING WALLS, SEE SOIL NAIL RETAINING WALLS PROVISION.
- FOR SINGLE FACED PRECAST CONCRETE BARRIER, SEE ROADWAY PLANS AND SECTION 857 OF THE STANDARD SPECIFICATIONS.
- BEFORE BEGINNING SOIL NAIL WALL DESIGN FOR RETAINING WALL NO. 3, 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. 3 FOR THE FOLLOWING:
 - 1) H = DESIGN HEIGHT + EMBEDMENT
 - 2) DESIGN LIFE = 100 YEARS
 - 3) MINIMUM EMBEDMENT DEPTH = 1 FT
 - 4) IN-SITU ASSUMED MATERIAL PARAMETERS ABOVE BOTTOM OF WALL:
 - UNIT WEIGHT, $\gamma = 120$ LB/CF
 - FRICTION ANGLE, $\phi = 30$ DEGREES
 - COHESION, $c = 0$ LB/SF
 - 5) IN-SITU ASSUMED MATERIAL PARAMETERS BELOW BOTTOM OF WALL:
 - UNIT WEIGHT, $\gamma = 120$ LB/CF
 - FRICTION ANGLE, $\phi = 30$ DEGREES
 - COHESION, $c = 0$ LB/SF
- EXISTING OR FUTURE OBSTRUCTIONS SUCH AS FOUNDATIONS, GUARDRAIL, FENCE OR HANDRAIL POSTS, PAVEMENTS, PIPES, INLETS OR UTILITIES MAY INTERFERE WITH SOIL NAILS FOR RETAINING WALL NO. 3.
- FOUNDATIONS FOR THE EXISTING END BENTS MAY INTERFERE WITH SOIL NAILS FOR RETAINING WALL NO. 3.

ESTIMATED SOIL NAIL WALL QUANTITIES

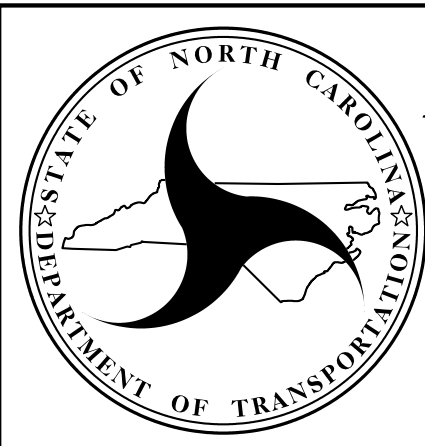
RETAINING WALL NO.	SOIL NAIL RETAINING WALLS (SQUARE FEET)	SOIL NAIL VERIFICATION TESTS	SOIL NAIL PROOF TESTS
3	1,455	2	1



CONCRETE DITCH BEHIND WALL WITH BACK SLOPE

* SEE ROADWAY PLANS FOR CONCRETE DITCH AND FINISHED GRADE DETAILS.
** SEE WALL ENVELOPE FOR GRADE ELEVATIONS.

PROJECT NO.: R-3830
COUNTY: LEE
SHEET 6 OF 6



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT

SOIL NAIL WALL WITH BACK SLOPE-TYPICAL & NOTES