

PRECAST GRAVITY WALL - TYPICAL SECTION

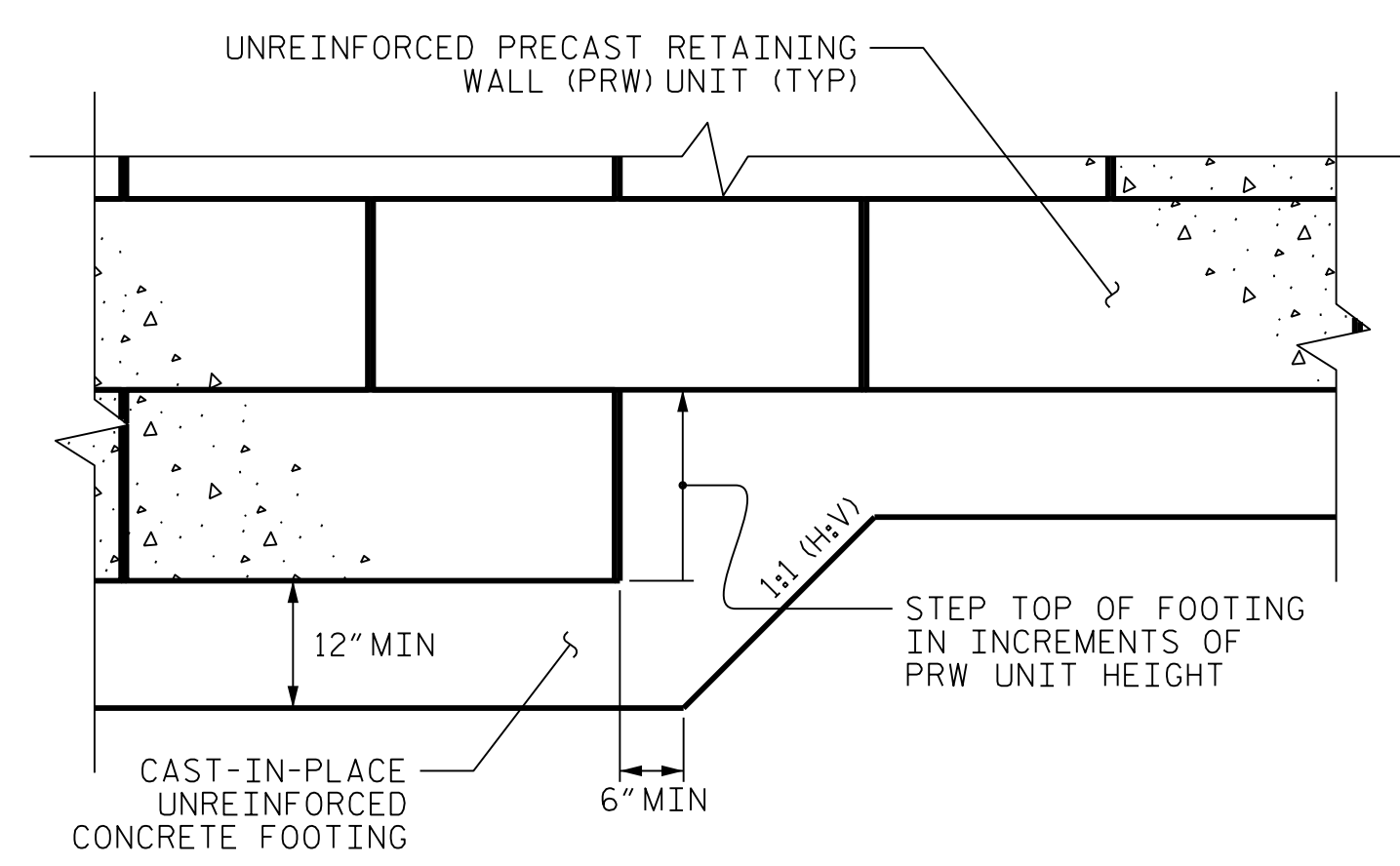
*SEE ROADWAY PLANS FOR FINISHED GRADE DETAILS.

NOTES:

- FOR PRECAST GRAVITY RETAINING WALLS, SEE PRECAST GRAVITY RETAINING WALLS PROVISION.
- FOR SINGLE FACED PRECAST CONCRETE BARRIER, SEE ROADWAY PLANS AND SECTION 857 OF THE STANDARD SPECIFICATIONS.
- USE PRW UNITS WITH A SIMULATED STONE FACE FOR RETAINING WALL NO. 1.
- USE PRW UNITS WITH A GRAY COLOR FOR RETAINING WALL NO. 1.
- A DRAIN PIPE IS REQUIRED FOR RETAINING WALL NO. 1.
- BEFORE BEGINNING PRECAST GRAVITY WALL DESIGN FOR RETAINING WALL NO. 1, 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. 1 FOR WALL HEIGHTS EQUAL TO THE DESIGN HEIGHT PLUS DEPTH TO TOP OF FOOTING (DIFFERENCE BETWEEN GRADE ELEVATION AND TOP OF FOOTING ELEVATION).
- DESIGN RETAINING WALL NO. 1 FOR THE FOLLOWING:
 - 1) MAXIMUM FACTORED VERTICAL PRESSURE ON FOUNDATION MATERIAL = 5800 LB/SF
 - 2) MINIMUM EMBEDMENT ELEVATION = 2 FT. BELOW FINISHED GRADE
 - 3) IN-SITU ASSUMED MATERIAL PARAMETERS:

MATERIAL TYPE	UNIT WEIGHT (γ) LB/CF	FRICTION ANGLE (ϕ) DEGREES	COHESION (c) LB/SF
BACKFILL	120	32	0
FOUNDATION	120	32	0

- DESIGN RETAINING WALL NO. 1 FOR A LIVE LOAD (TRAFFIC) SURCHARGE.
- DO NOT PLACE CONCRETE FOR FOOTINGS FOR RETAINING WALL NO. 1 UNTIL EXCAVATION DIMENSIONS AND FOUNDATION MATERIAL ARE APPROVED.
- *TEMPORARY SHORING* MAY BE REQUIRED FOR RETAINING WALL NO. 1 IN ACCORDANCE WITH THE TEMPORARY SHORING PROVISION. SEE TRAFFIC CONTROL PLANS.



FOOTING STEP DETAIL

PROJECT NO.: R-2603

 WILKES COUNTY

STATION: 14+84.73 -L- TO 16+00.00 -L-

SHEET 2 OF 2

PREPARED BY: EJS DATE: 7/21/15

REVIEWED BY: SCC DATE: 7/21/15

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GEOTECHNICAL
ENGINEERING UNIT

PRECAST GRAVITY RETAINING WALL #1					
REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

SHEET NO. W2