# Standard SEGMENTAL GRAVITY WALL NOTES ON PLANS (10-19-21)

(Instructions for use are in parentheses after each note, if applicable and choices are in italics.)

FOR SEGMENTAL GRAVITY RETAINING WALLS, SEE SECTION 454 OF THE STANDARD SPECIFICATIONS.

FOR STEEL BEAM GUARDRAIL, SEE ROADWAY PLANS AND SECTION 862 OF THE STANDARD SPECIFICATIONS.

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

FREEZE-THAW DURABLE SRW UNITS THAT MEET ARTICLE 1040-4 OF THE STANDARD SPECIFICATIONS ARE REQUIRED. (Use this note for walls with SRW units exposed to repeated freeze-thaw conditions and significant use of deicing chemicals such as walls facing roads in urban areas and Divisions 11, 13 and 14.)

USE SRW UNITS WITH A \_\_\_\_\_\_\_\_\_\_\_\_ FACE FOR RETAINING WALL NO. \_\_\_\_.

USE SRW UNITS WITH A \_\_\_\_\_\_\_\_\_\_\_\_ COLOR FOR RETAINING WALL NO. \_\_\_\_.

A DRAIN PIPE *IS or IS NOT* REQUIRED FOR RETAINING WALL NO. \_\_\_\_.

BEFORE BEGINNING SEGMENTAL GRAVITY WALL DESIGN FOR RETAINING WALL NO. \_\_\_\_, 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. \_\_\_\_ FOR DESIGN HEIGHTS EQUAL TO THE WALL HEIGHT PLUS DEPTH TO TOP OF FOOTING (DIFFERENCE BETWEEN GRADE ELEVATION AND TOP OF FOOTING ELEVATION).

DESIGN RETAINING WALL NO. \_\_\_\_ FOR THE FOLLOWING:

1. MAXIMUM FACTORED VERTICAL PRESSURE ON FOUNDATION MATERIAL = \_\_\_\_ PSF
2. MINIMUM WALL EMBEDMENT ELEVATION = \_\_\_\_ FT
3. IN-SITU ASSUMED MATERIAL PARAMETERS:

|  |  |  |  |
| --- | --- | --- | --- |
| MATERIAL TYPE | UNIT WEIGHT($γ$)PCF | FRICTION ANGLE($ϕ$)DEGREES | COHESION(c)PSF |
| RETAINED | \_\_\_ | \_\_ | \_\_\_ |
| FOUNDATION | \_\_\_ | \_\_ | \_\_\_ |

(Modify No. 1, 2 and 3 as necessary for variable wall heights and conditions. No. 2 is optional. Use No. 2 when more than the minimum embedment in accordance with the provision is necessary such as block walls subject to scour. Replace “ELEVATION” with “DEPTH” in No. 2 to require a constant embedment depth below the bottom of wall elevation instead of a fixed bottom of footing elevation.)

THE MINIMUM WALL EMBEDMENT ELEVATION FOR RETAINING WALL NO. \_\_\_\_ INCLUDES EMBEDMENT FOR SCOUR.

DESIGN RETAINING WALL NO. \_\_\_\_ FOR A PIPE EXTENDING THROUGH THE WALL AS SHOWN. VERIFY PIPE LOCATION AND ELEVATION BEFORE BEGINNING SEGMENTAL GRAVITY WALL DESIGN OR CONSTRUCTION.

DO NOT PLACE NO. 57 STONE FOR FOOTINGS FOR RETAINING WALL NO. \_\_\_\_ UNTIL EXCAVATION DIMENSIONS AND FOUNDATION MATERIAL ARE APPROVED.