# Standard PRECAST 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 PRECAST GRAVITY RETAINING WALLS, SEE SECTION 455 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.

A CONCRETE BARRIER RAIL WITH MOMENT SLAB IS REQUIRED ABOVE RETAINING WALL NO. \_\_\_\_. SEE PLANS FOR CONCRETE BARRIER RAIL WITH MOMENT SLAB DETAILS. (When using this note, add a concrete barrier rail with moment slab plan sheet from the geotechnical design cell library to the wall plans.)

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

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

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

BEFORE BEGINNING PRECAST 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 precast gravity 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 LIVE LOAD (TRAFFIC) SURCHARGE.

DESIGN RETAINING WALL NO. \_\_\_\_ FOR THE *POINT, LINE or STRIP* SURCHARGE LOAD SHOWN.

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

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

“TEMPORARY SHORING” *IS or MAY BE* REQUIRED FOR RETAINING WALL NO. \_\_\_\_ IN ACCORDANCE WITH THE TEMPORARY SHORING PROVISION. SEE *ROADWAY, STRUCTURE or TRAFFIC CONTROL* PLANS.

AT THE CONTRACTOR’S OPTION, “TEMPORARY SHORING FOR WALL CONSTRUCTION” MAY BE USED TO CONSTRUCT RETAINING WALL NO. \_\_\_\_. SEE PRECAST GRAVITY RETAINING WALLS PROVISION FOR TEMPORARY SHORING FOR WALL CONSTRUCTION. (Use this note when temporary shoring is not shown in the plans or required by the Engineer but may be used for OSHA reasons or the Contractor’s convenience. For example, when constructing a precast gravity wall in a cut and traffic is diverted away or the location is a new alignment, the Contractor may choose to use temporary shoring for wall construction instead of temporary slopes to excavate for the wall.)