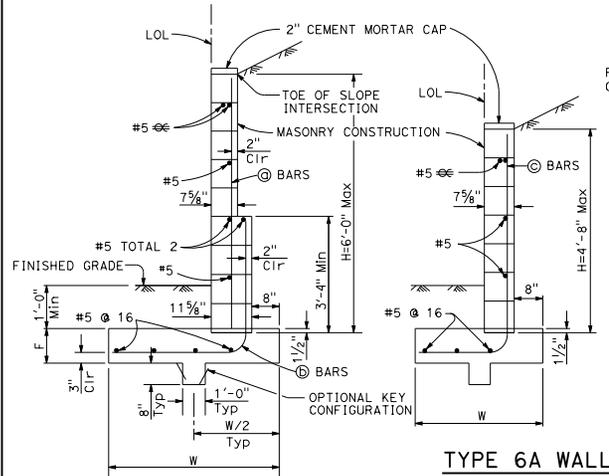
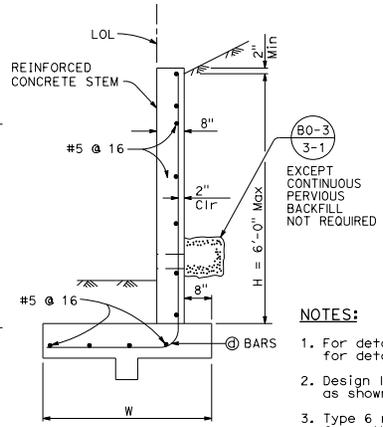


SYMBOLS:

Ser - service limit state 1
Str - strength limit state 1
Ext - extreme event limit state I
B' - effective footing width (ft)
q₀ - net bearing stress (ksf), OG assumed to be FG at toe
q_o - gross uniform bearing stress (ksf)

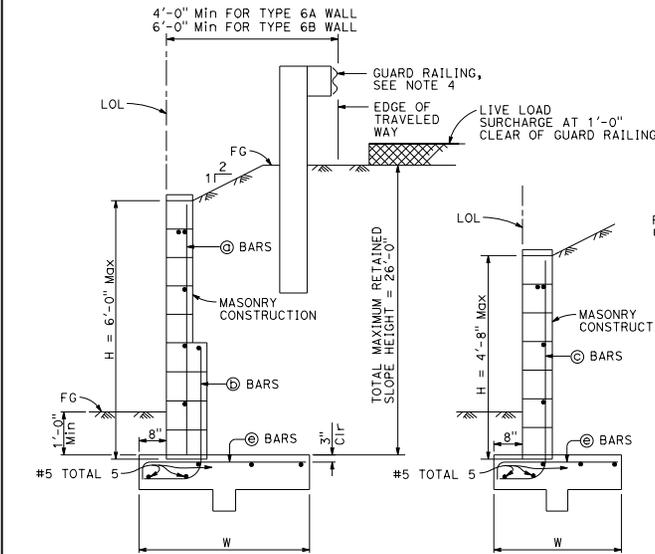


TYPE 6A WALL

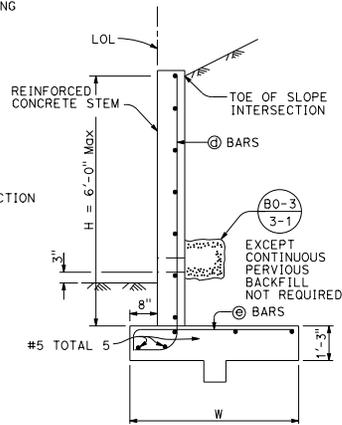


NOTES:

- For details not shown at "6B", see "6A", similarly, for details not shown at "6A", see "6B".
- Design loading for both Type "6A" and "6B" is as shown at "6B".
- Type 6 retaining wall shall be limited to use for walls of Design H of 6'-0" or less.
- Where traffic is adjacent to the top of wall, guard railing should be set back from the top front face of wall at least 4'-0" or 6'-0", dependent on wall type.
- For reinforced concrete wall stem joint details, see (B0-3/3-3) and (B0-3/3-4).
- No splices are allowed on (C), (D), (E), and (F) bars.
- See "Retaining Wall Type 6 Details" sheet for Elevation View and Footing Step Details.



TYPE 6B WALL



TYPE 6A WALL - TABLE OF REINFORCING STEEL, DIMENSIONS AND DATA

| DESIGN H | 3'-4" | 4'-0" | 4'-8" | 5'-4" | 6'-0" |
|-------------------------|----------|----------|----------|----------|----------|
| W | 3'-8" | 4'-1" | 4'-8" | 5'-3" | 6'-9" |
| F | 1'-0" | 1'-0" | 1'-2" | 1'-3" | 1'-4" |
| (C) BARS | NONE | NONE | NONE | #5 @ 16" | #5 @ 16" |
| (D) BARS | NONE | NONE | NONE | #5 @ 16" | #5 @ 16" |
| (E) BARS | #5 @ 16 | #5 @ 16 | #5 @ 16 | NONE | NONE |
| (F) BARS | #5 @ 16 | #5 @ 16 | #5 @ 16 | #5 @ 16 | #6 @ 16 |
| Ser: B', q ₀ | 3.4, 0.3 | 3.8, 0.3 | 4.3, 0.3 | 4.9, 0.4 | 6.0, 0.4 |
| Str: B', q ₀ | 3.3, 0.7 | 3.6, 0.7 | 4.1, 0.8 | 4.7, 0.8 | 5.7, 0.9 |
| Ext: B', q ₀ | 1.3, 1.9 | 1.4, 2.0 | 1.7, 2.1 | 1.9, 2.2 | 3.9, 1.4 |

TYPE 6B WALL - TABLE OF REINFORCING STEEL, DIMENSIONS AND DATA

| DESIGN H | 3'-4" | 4'-0" | 4'-8" | 5'-4" | 6'-0" |
|-------------------------|----------|----------|----------|----------|----------|
| W | 4'-6" | 5'-1" | 5'-7" | 6'-2" | 6'-9" |
| (C) BARS | NONE | NONE | NONE | #5 @ 16" | #5 @ 16" |
| (D) BARS | NONE | NONE | NONE | #5 @ 16" | #5 @ 16" |
| (E) BARS | #5 @ 16 | #5 @ 16 | #5 @ 16 | NONE | NONE |
| (F) BARS | #5 @ 16 | #5 @ 16 | #5 @ 16 | #5 @ 16 | #6 @ 16 |
| (G) BARS | #5 @ 16 | #5 @ 16 | #6 @ 16 | #6 @ 16 | #7 @ 16 |
| Ser: B', q ₀ | 3.3, 0.6 | 3.7, 0.8 | 4.0, 0.9 | 4.5, 1.0 | 4.1, 1.4 |
| Str: B', q ₀ | 1.9, 1.4 | 2.3, 1.6 | 2.5, 1.8 | 2.8, 1.9 | 1.8, 3.6 |
| Ext: B', q ₀ | 1.5, 2.8 | 1.8, 3.1 | 1.9, 3.6 | 2.1, 3.8 | 2.4, 3.9 |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
RETAINING WALL TYPE 6 (CASE 2)
NO SCALE

RSP B3-7B DATED APRIL 20, 2012 SUPPLEMENTS THE
STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP B3-7B

| | | | | |
|------|--------|-------|--------------------------|--------------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET TOTAL SHEETS |
| | | | | |

Gary Wong
REGISTERED CIVIL ENGINEER

April 20, 2012
PLANS APPROVAL DATE

Gary Wong
No. C58238
Exp. 6-30-12
CIVIL

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

DESIGN NOTES:

- TO ACCOMPANY PLANS DATED _____
- DESIGN: AASHTO LRFD Bridge Design Specifications, 4th Edition with California Amendments
Building Code Requirements for Masonry Structures (TMS 402-08/ACI 530-08/ASCE 5-08)
- LS: 240 psf surcharge on level ground surface as limited by Guard Railing location
- SEISMIC: k_h = 0.2
k_v = 0.0
- SOIL: φ = 34°
γ = 120 pcf
- REINFORCED CONCRETE: f'_c = 3,600 psi
f_y = 60,000 psi
- REINFORCED MASONRY: f_m' = 1,500 psi
f_y = 60,000 psi
- LOAD COMBINATIONS AND LIMIT STATES:
Service I Q = 1.00DC+1.00EV+1.00EH+1.00LS
Strength I Q = aDC+βEV+γEH+1.75LS
Extreme I Q = 1.00DC+1.00EV+1.00EH+1.00EQD+1.00EQE

Where:

Q: Force Effects
a: 1.25 or 0.90, Whichever Controls Design
β: 1.35 or 1.00, Whichever Controls Design
γ: 1.50 or 0.90, Whichever Controls Design
DC: Dead Load of Structure Components
EH: Horizontal Earth Fill Pressure
EV: Vertical Earth Pressure from Earth Fill Weight
LS: Live Load Surcharge
EQE: Seismic Earth Pressure
EQD: Soil and Structural and Nonstructural Components Inertia

2010 REVISED STANDARD PLAN RSP B3-7B