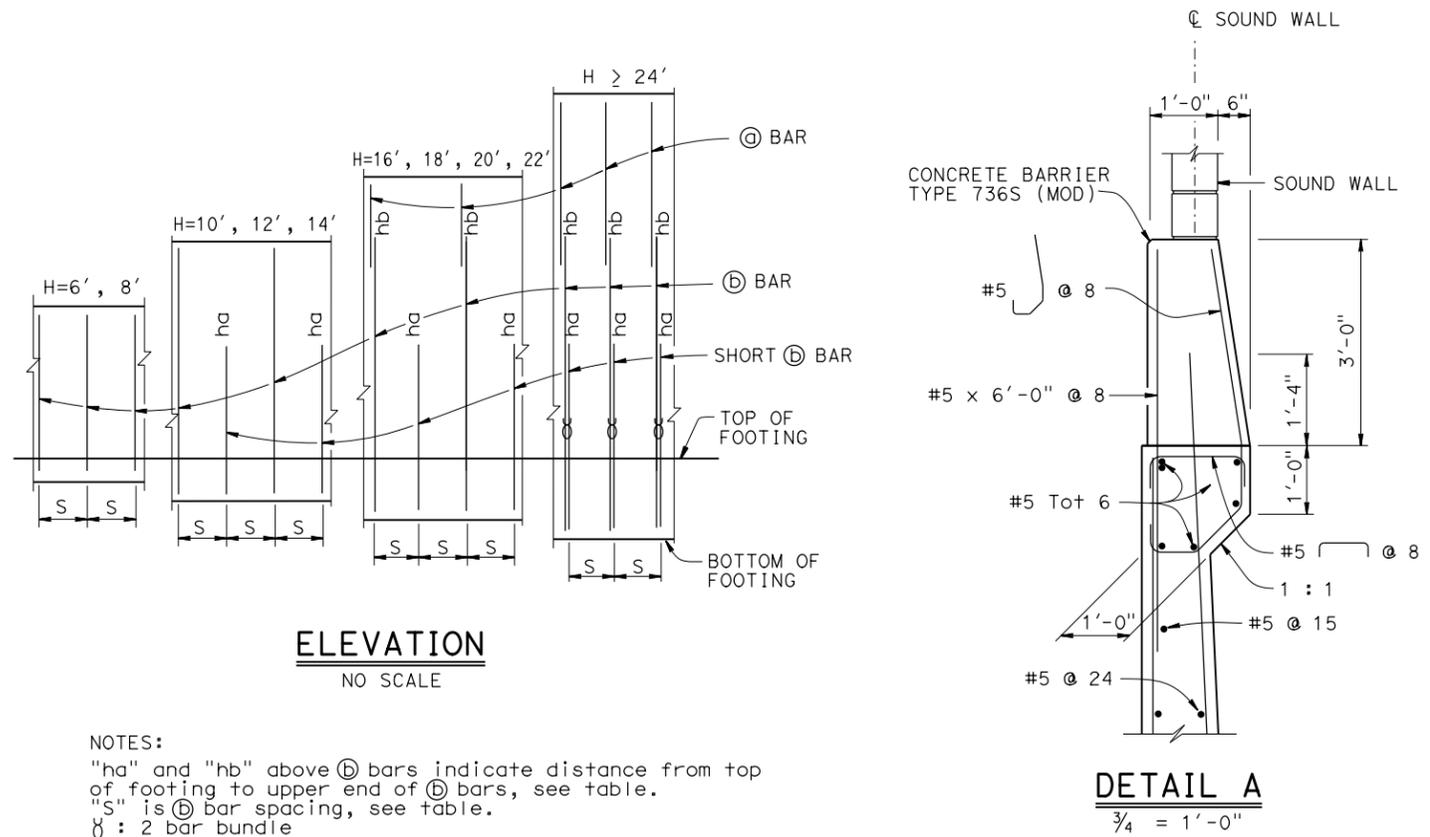


| | | | | | |
|---|--------|-------|---|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| | | | | | |
| REGISTERED CIVIL ENGINEER | | | DATE | | |
| PLANS APPROVAL DATE | | |  | | |
| <small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</small> | | | | | |
| <small>The Registered Civil Engineer for the project is responsible for the selection and proper application of the component design and any modifications shown.</small> | | | | | |



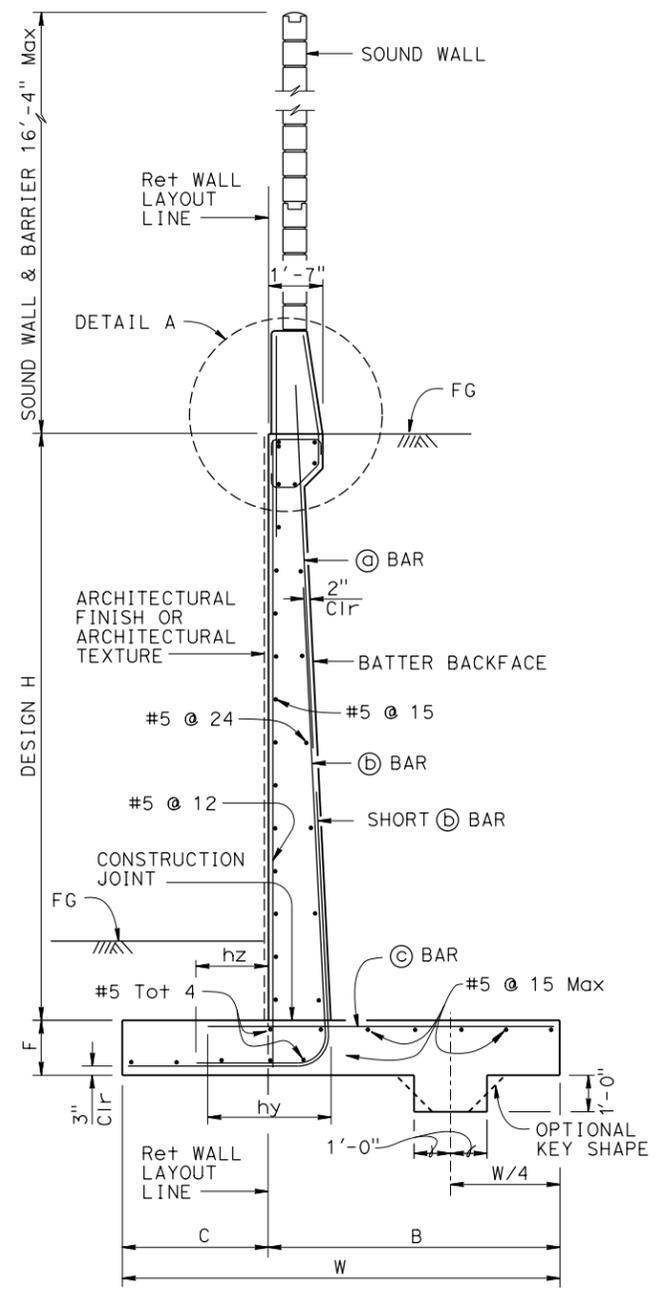
ELEVATION
NO SCALE

NOTES:
 "ha" and "hb" above B bars indicate distance from top of footing to upper end of B bars, see table.
 "S" is B bar spacing, see table.
 ♂ : 2 bar bundle

DESIGN DATA

Design: AASHTO LRFD Bridge Design Specifications, 4th edition with California Amendments
 WS: 33 psf on Sound Wall and Barrier
 LS: Varied surcharge on level ground surface
 CT: 54 kip maximum traffic impact loading evenly distributed over 10 feet at top of the barrier and 1:1 distribution down and outward
 EQE: Mononabe-Okabe Method
 $K_h = 0.3$
 $K_v = 0.0$
 Soil: $\phi = 34^\circ$
 $\gamma = 120$ pcf
 Reinforced Concrete: $f'_c = 3600$ psi
 $f_y = 60,000$ psi
 Load Combinations and Limit States
 Service I $Q = 1.00DC + 1.00EV + 1.00EH + 1.00LS + 0.30WS$
 Service II $Q = 1.00DC + 1.00EV + 1.00EH + 1.00WS$
 Strength I $Q = aDC + \beta EV + 1.50EH + 1.75LS$
 Strength III $Q = aDC + \beta EV + 1.50EH + 1.40WS$
 Strength V $Q = aDC + \beta EV + 1.50EH + 1.35LS + 0.40WS$
 Extreme I $Q = 1.00DC + 1.00EV + 1.00EH + 1.00EQD + 1.00EQE$
 Extreme II $Q = 1.00DC + 1.00EV + 1.00EH + 1.00CT$

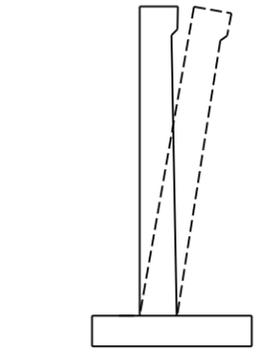
Where: Q: Force Effects
 a: 1.25 or 0.90, which ever Controls Design
 B: 1.35 or 1.00, which ever Controls Design
 DC: Dead Load of Structure Components
 EV: Vertical Earth Fill Pressure
 LS: Live Load Surcharge
 EQE: Seismic Earth Pressure
 EQD: Soil and Structure Components Inertia. Soil inertia ignored for stem design
 WS: Wind Load on Sound Wall and Barrier
 CT: Vehicular Collision Force



SPREAD FOOTING SECTION
NO SCALE

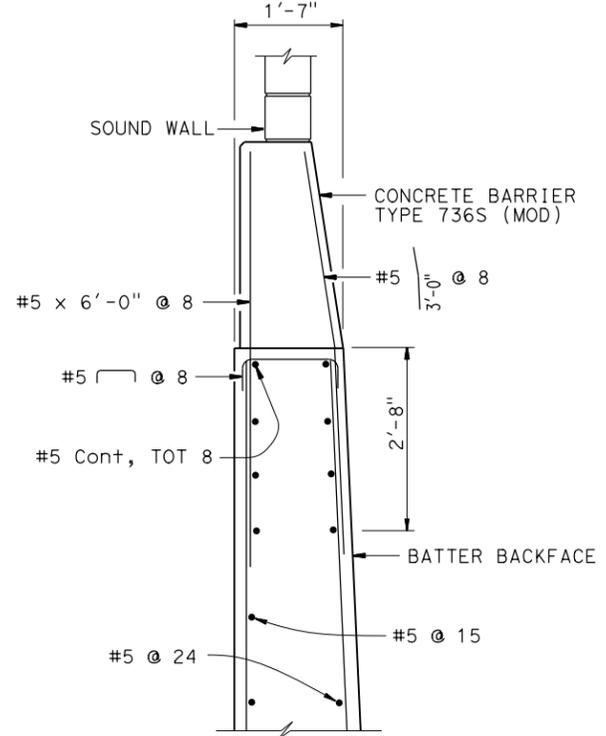
- NOTES:
- For sound wall and retaining wall Architectural finish or texture see details elsewhere in Project Plans
 - For details not shown and drainage notes see **B3-5**
 - Footing cover, 1'-6" minimum.
 - For sound wall and barrier reinforcement details, see "SOUND WALL - MASONRY BLOCK WITH BARRIER ON RETAINING WALL" sheet.
 - For H = 6' through 14', extend B bars into Barrier for stem with haunch.
 - For H ≥ 16', extend @ bars into Barrier for stem with haunch.
 - For H ≤ 8', provide additional #6 @ 12 B bars over a distance of 8'-0" measured from all expansion joints, begin wall and end wall locations.

VERTICAL LAYOUT LINE
 A^*
 A^* OFFSET = $\frac{1}{2}$ " PER 10' OF WALL STEM HEIGHT



WALL OFFSET
NO SCALE

Values for offsetting forms to be determined by the Engineer



OPTIONAL DETAIL A
 $\frac{3}{4} = 1'-0"$

For Details not shown, see "DETAIL A"

| | | | | | | | | | | | | | | | | | |
|---|--------------|--|------------------------------|---------------------|-----------------------|--|--|---|------------|---|---|-------------------------------|---------------|---|----------------|-------|----|
| BRIDGE STANDARD DETAILS | | | STATE OF CALIFORNIA | | | DIVISION OF ENGINEERING SERVICES | | | BRIDGE NO. | | | | | | | | |
| xs14-220-1 | October 2014 | The components of the Bridge Standard Details have been prepared under the responsible charge of the Technical Owner, a registered civil engineer in the State of California | DEPARTMENT OF TRANSPORTATION | | | RETAINING WALL TYPE 1SWB-DETAILS No. 1 | | | POST MILE | | | | | | | | |
| Refer to: http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html | FILE NO. | APPROVAL DATE | FILE => xs14-220-1.dgn | USERNAME => s136236 | TIME PLOTTED => 10:45 | DATE PLOTTED => 18-JUL-2016 | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | 0 | 1 | 2 | 3 | UNIT: PROJECT NUMBER & PHASE: | CONTRACT NO.: | DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES | SHEET | OF |
| | | | | | | | | | | | | | 6-19-14 | 8-6-14 | 7-14-16 | | |