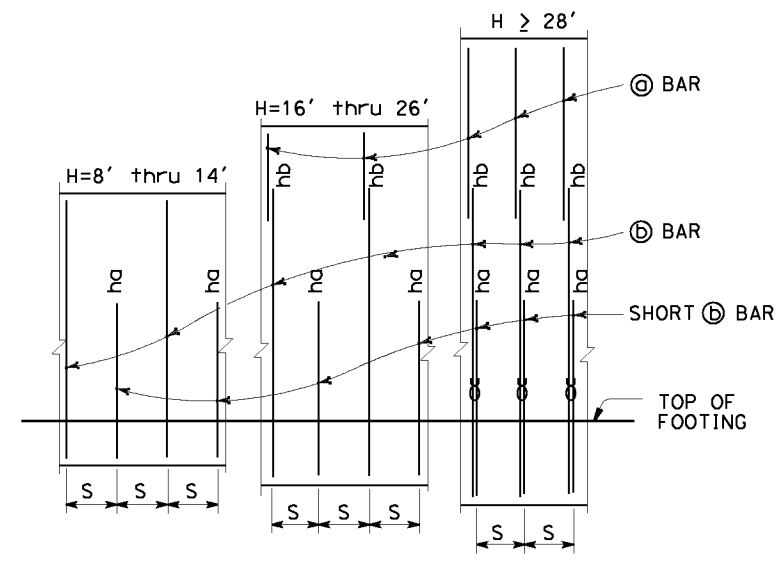


DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
X	X	X	X	X	X

REGISTERED CIVIL ENGINEER	X	DATE
PLANS APPROVAL DATE		

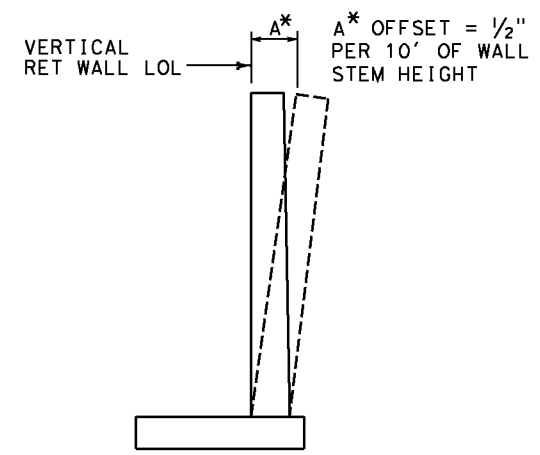
REGISTERED PROFESSIONAL ENGINEER	X
No.	X
Exp.	X
CIVIL	

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



ELEVATION
No Scale

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



WALL OFFSET
No Scale

Values for offsetting forms to be determined by the Engineer.

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 $Q=1.00DC+1.00EV+1.00EH+1.00LS+0.30WS+Td$

Service II $Q=1.00DC+1.00EV+1.00EH+1.00WS+Td$

Strength I $Q=aDC+BEV+1.50EH+1.75LS+Td$

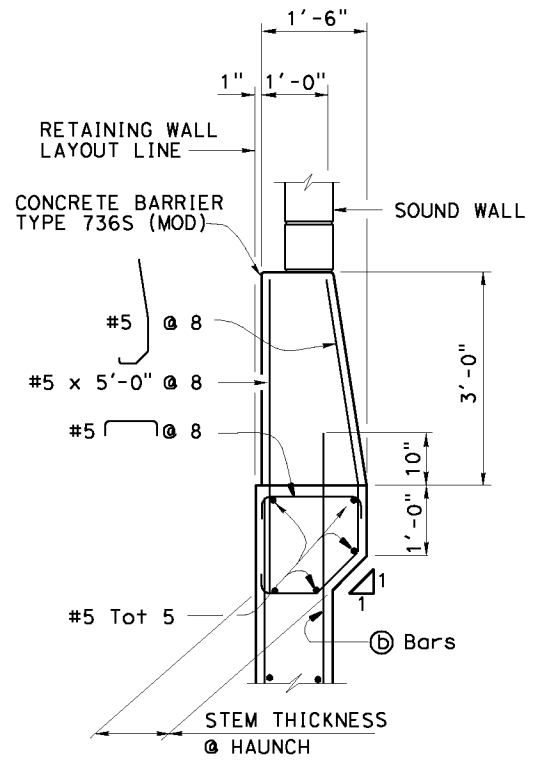
Strength III $Q=aDC+BEV+1.50EH+1.40WS+Td$

Strength V $Q=aDC+BEV+1.50EH+1.35LS+0.40WS+Td$

Extreme I $Q=1.00DC+1.00EV+1.00EH+1.00EQD+1.00EQE+Td$

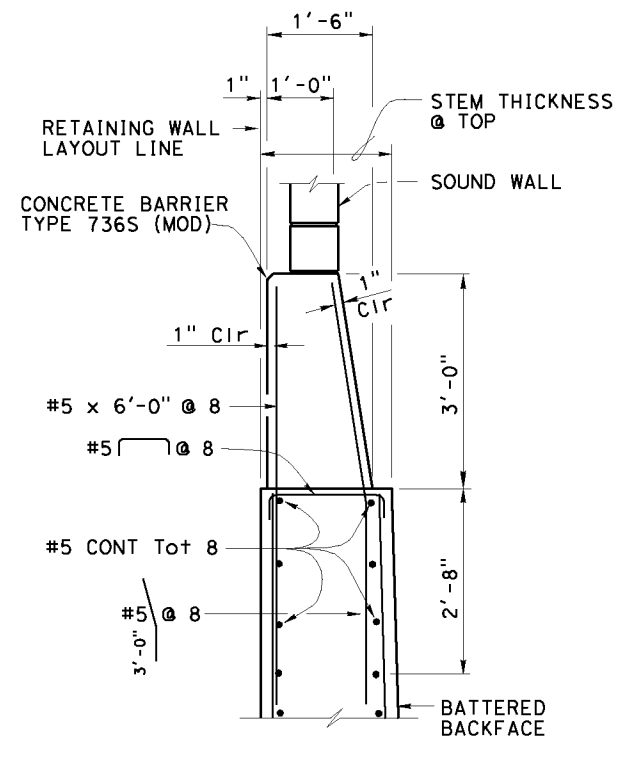
Extreme II $Q=1.00DC+1.00EV+1.00EH+1.00CT+Td$

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
Td: Anchor Design Load



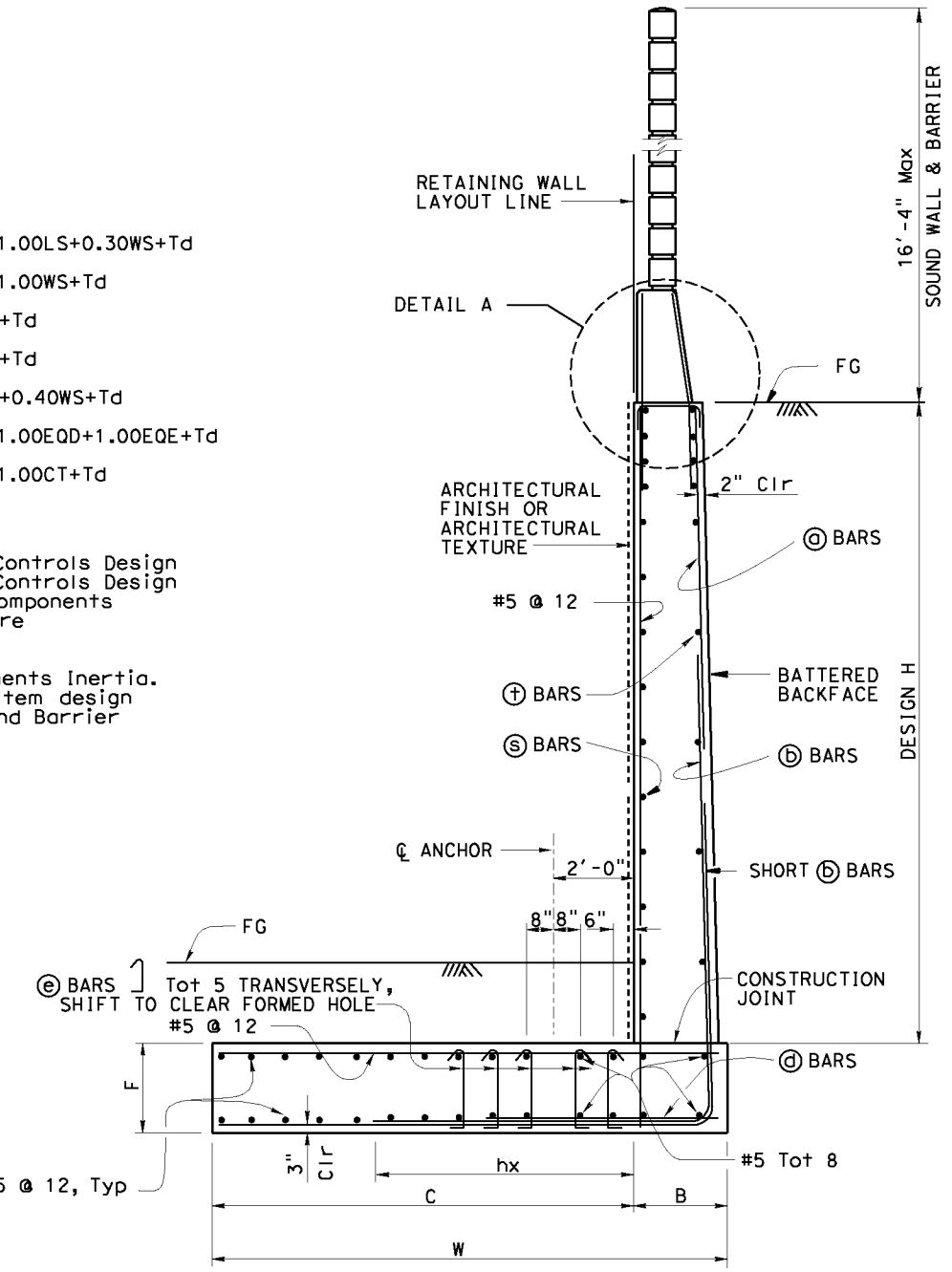
DETAIL A - WITH HAUNCH
No Scale

For Details not shown, see "DETAIL A - WITHOUT HAUNCH"



DETAIL A - WITHOUT HAUNCH
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 (3-5)
 - Footing cover, 2'-0" 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 @ bars into Barrier for stem with haunch.
 - Shift @ bars and @ bars as required to clear formed hole for ground anchor.
 - Footing is designed to resist 1.33 Td assuming the maximum anchor spacing shown in the table.



SPREAD FOOTING SECTION
No Scale

STANDARD DRAWING	
FILE NO. xs14-390-1	APPROVAL DATE July 2011

STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. X	X
DEPARTMENT OF TRANSPORTATION		POST MILE X	

RETAINING WALL TYPE 7SWB - DETAILS NO.1	
REVISION DATES	SHEET OF X X