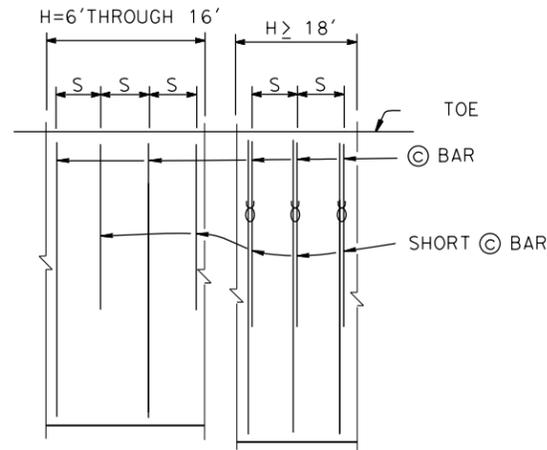


DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
X	X	X	X	X	X

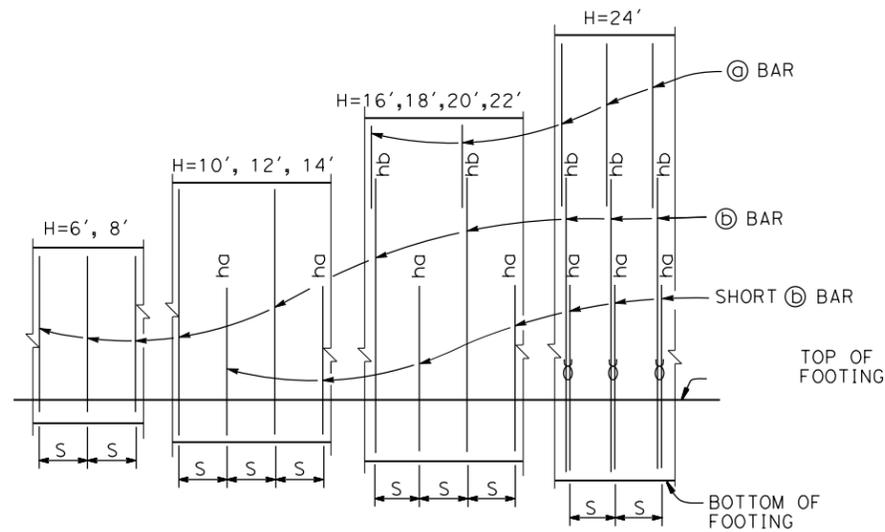
REGISTERED CIVIL ENGINEER	X	DATE
PLANS APPROVAL DATE		

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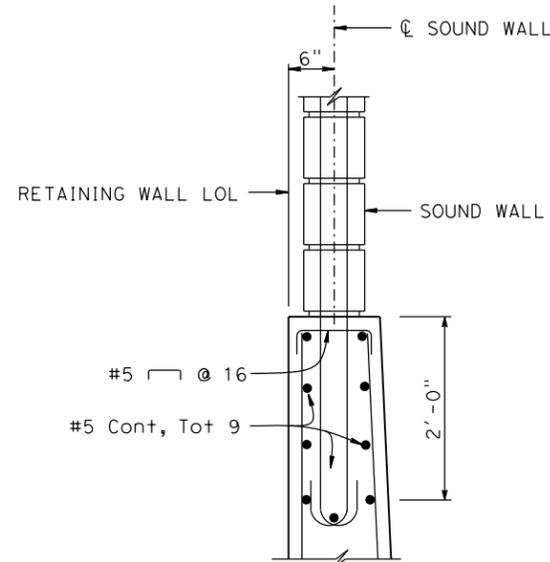
PLAN
No Scale

NOTES:
Only © bars shown
"S" is © bar spacing, see table
∅ : indicates 2 bar bundle



ELEVATION
No Scale

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



DETAIL A
1" = 1'-0"

DESIGN DATA

Design: AASHTO LRFD Bridge Design Specifications
4th edition with California Amendments

WS: 33 psf on sound wall
LS: Varied surcharge on level ground surface
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 $Q=aDC+BEV+1.50EH+1.75LS$
 $Q=1.25DC+1.35EV+0.90EH+1.75LS$ (for piles at heel)
Strength III $Q=aDC+BEV+1.50EH+1.40WS$
Strength V $Q=aDC+BEV+1.50EH+1.35LS+0.40WS$
Extreme I $Q=1.00DC+1.00EV+1.00EH+1.00EQD+1.00EQE$

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

STANDARD DRAWING	
FILE NO. xs14-360-2	APPROVAL DATE July 2014

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

RETAINING WALL TYPE 5SWP-DETAILS No. 2	
BRIDGE NO.	X
POST MILE	X