

GENERAL NOTES
LOAD AND RESISTANCE FACTOR DESIGN

DESIGN:
AASHTO LRFD Bridge Design Specifications, 2007 edition with California Amendments

DEAD LOAD:
2" Concrete Surface Texture added to stem (DC)

WIND LOADING:
0.033 ksf on Sound Wall (WS)

LIVE LOADING:
Varied surcharge on level ground surface (LS)

SEISMIC LOADING (EQE):
 $K_h = 0.3$

SOIL PARAMETERS (BACKFILL):
 $\phi = 34^\circ$
 $\gamma = 0.120 \text{ kcf}$

REINFORCED CONCRETE:
 $f_y = 60 \text{ ksi}$
 $f'_c = 3.6 \text{ ksi}$

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	$Q = aDC + bEV + 1.50EH + 1.75LS$
	$Q = 1.25DC + 1.35EV + 0.90EH + 1.75LS \text{ (for piles at heel)}$
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, Whichever Controls Design

b: 1.35 or 1.00, Whichever Controls Design

DC: Dead Load of Structure Components

EV: Vertical Earth Fill Pressure

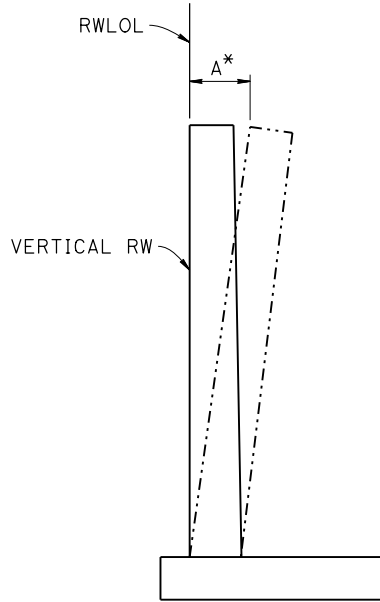
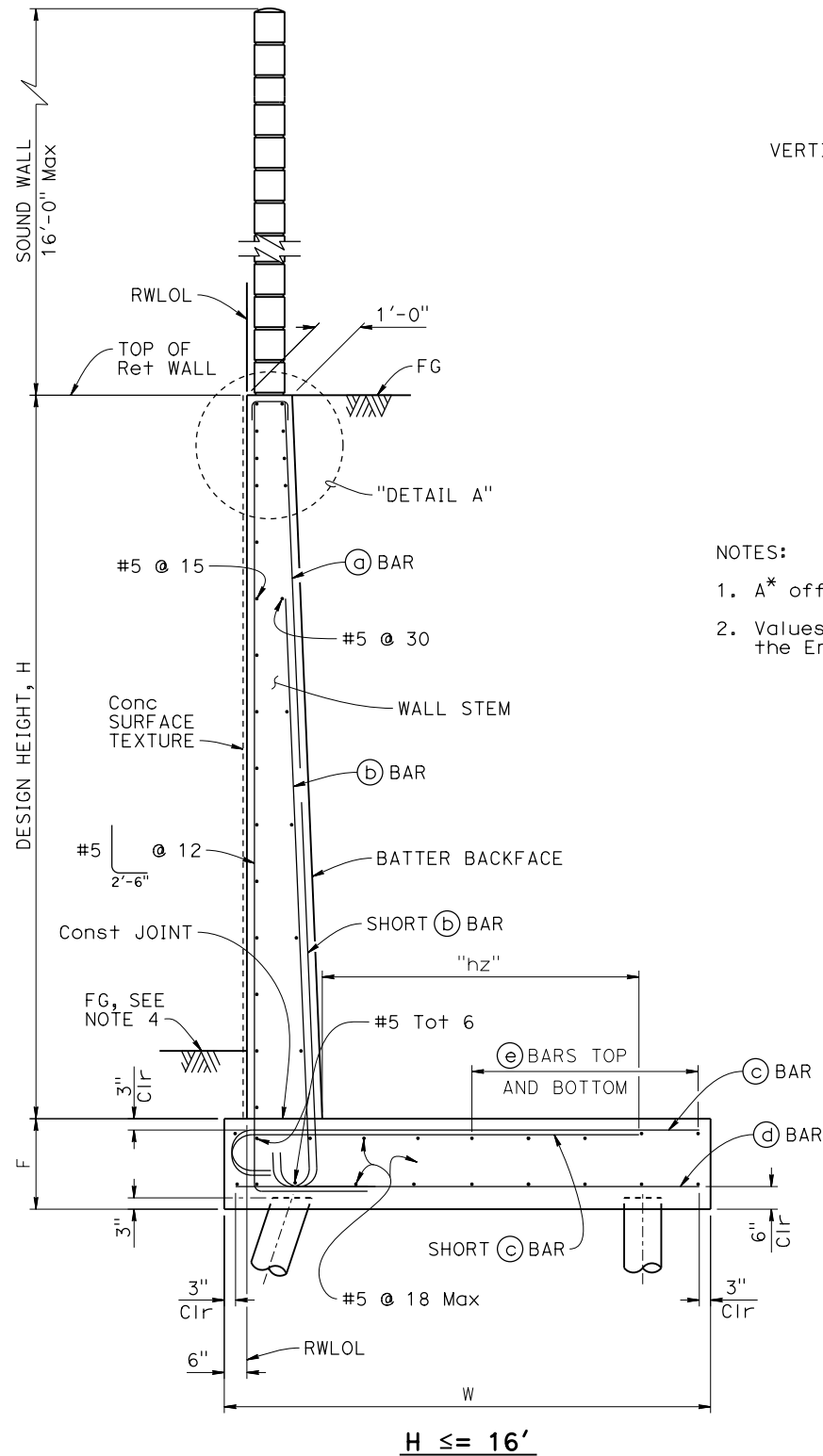
LS: Live Load Surcharge

EQE: Seismic Earth Pressure

EQD: Soil and Structure Components Inertia (Soil inertia ignored for stem design)

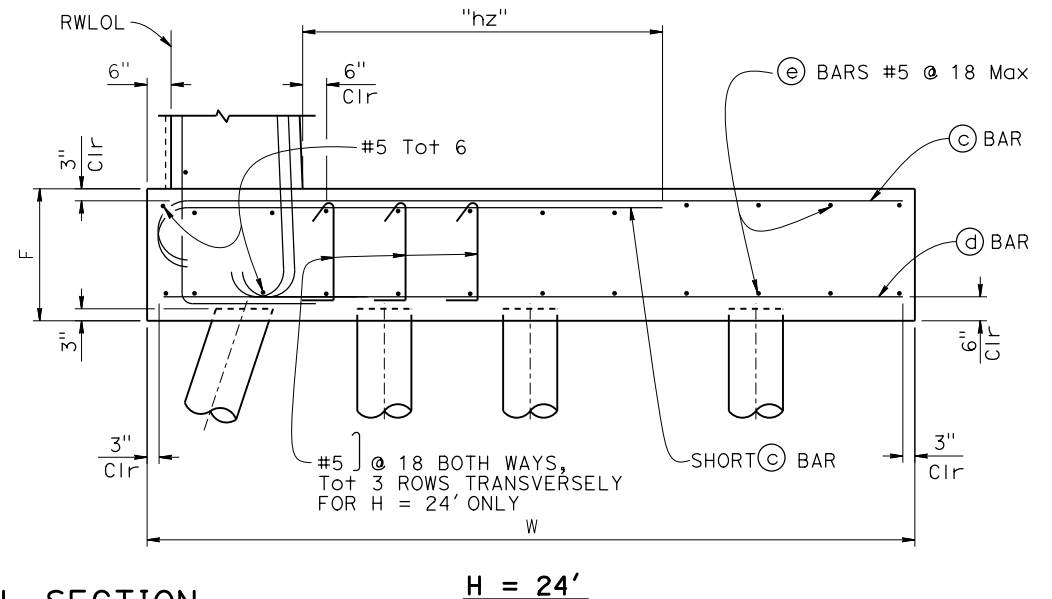
WS: Wind Load on Sound Wall

- NOTES:
- For reinforcement layout details, see "RETAINING WALL (TYPE 5SWP) DETAILS No. 2" sheet.
 - For Sound Wall and Retaining Wall Concrete Surface Texture, see "ARCHITECTURAL DETAILS" sheet.
 - For Retaining Wall details not shown and drainage notes, see Standard Plan B0-3 and B3-5.
 - Footing cover, 1'-6" minimum.
 - For Sound Wall reinforcement and details, see "SOUND WALL MASONRY BLOCK ON RETAINING WALL DETAILS No. 1" and "SOUND WALL MASONRY BLOCK ON RETAINING WALL DETAILS No. 2" sheets.



- NOTES:
- A^* offset = $\frac{1}{2}$ " per 10' of wall stem height.
 - Values for offsetting forms to be approved by the Engineer.

WALL OFFSET



TYPICAL SECTION

H = 24'

NOTE:
Typical section for $16' > H < 24'$ not shown, but similar.

NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER

X

DATE

PLANS APPROVAL DATE

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.

THE REGISTERED CIVIL ENGINEER FOR THE PROJECT IS RESPONSIBLE FOR THE SELECTION AND PROPER APPLICATION OF THE COMPONENT DESIGN AND ANY MODIFICATIONS SHOWN.

REGISTERED PROFESSIONAL ENGINEER

X

No.

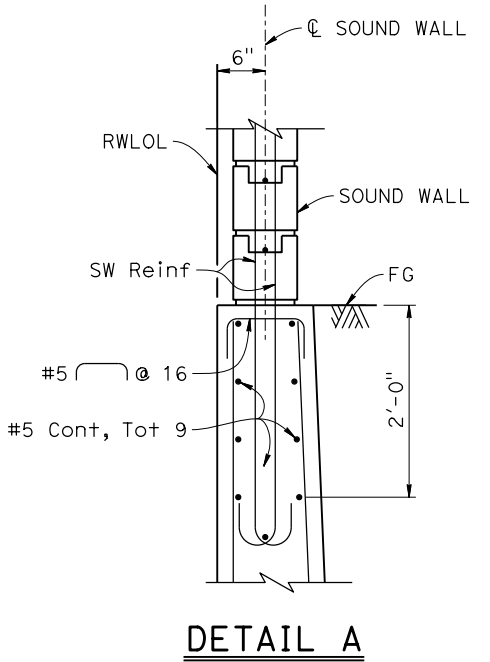
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Exp.

X

CIVIL

STATE OF CALIFORNIA



DETAIL A

BRIDGE STANDARD DETAILS		DESIGN	BY	CHECKED	STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE No.	X	
xs14-360-1 FILE NO.	August 2026 APPROVAL DATE	DETAILS	BY	CHECKED	DEPARTMENT OF TRANSPORTATION		XX-XXXX	RETAINING WALL (TYPE 5SWP) DETAILS No. 1	
		QUANTITIES	BY	CHECKED			POST MILE		
							X.X		

Refer to: <http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html>

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ORIGINAL SCALE
IN INCHES FOR
REDUCED PLANS

0 1 2 3

UNIT: XXXX
PROJECT NUMBER & PHASE: XXXXXXXXXX1

COUNTY/ROUTE/ZONE: XXX/XXX/X
CONTRACT No.: XX-XXXXX4

DISREGARD PRINTS BEARING
EARLIER REVISION DATES

REVISION DATES

SHEET

OF

X

X