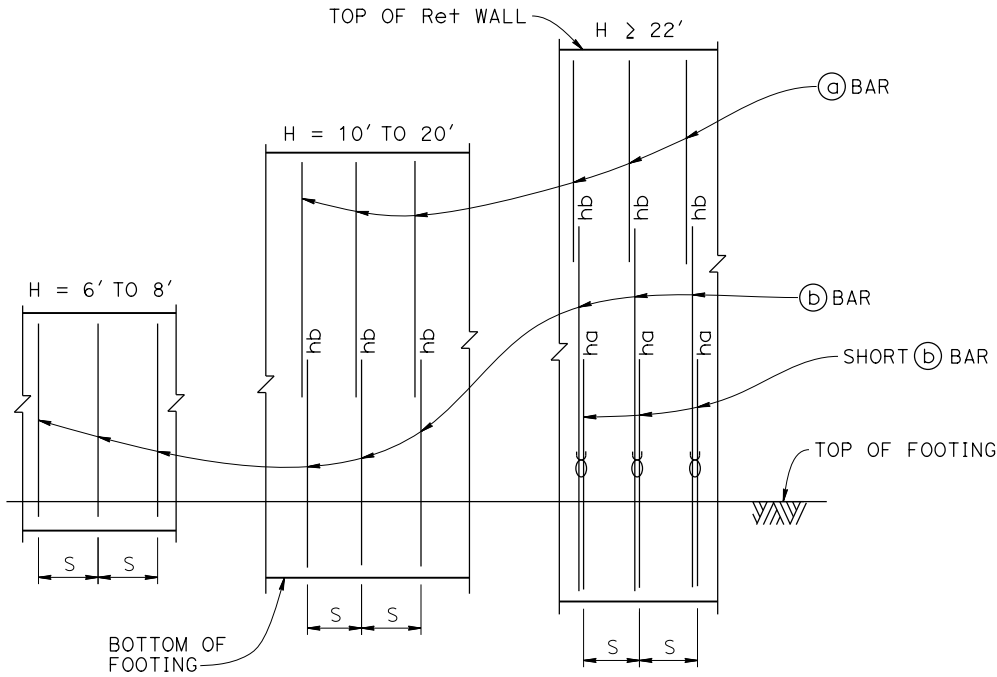


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			X DATE		
PLANS APPROVAL DATE			X No. X Exp. X CIVIL STATE OF CALIFORNIA		
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS 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.					

TABLE OF REINFORCING STEEL DIMENSIONS AND DATA															
Design Height, H	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'	
Footing Width, W	7'-3"	7'-4"	8'-2"	8'-9"	9'-7"	10'-5"	11'-4"	12'-7"	13'-3"	14'-3"	15'-3"	16'-4"	17'-6"	18'-6"	
Footing Toe, C	2'-8"	2'-8"	2'-10"	3'-3"	3'-2"	3'-4"	3'-10"	4'-3"	4'-4"	4'-7"	4'-10"	5'-0"	5'-5"	5'-8"	
Footing Heel, B	4'-7"	4'-8"	5'-4"	5'-6"	6'-5"	7'-1"	7'-6"	8'-4"	8'-11"	9'-8"	10'-5"	11'-4"	12'-1"	12'-10"	
Footing Thickness, F	1'-3"	1'-6"	1'-6"	1'-8"	1'-9"	1'-9"	2'-0"	2'-3"	2'-6"	2'-10"	3'-3"	3'-6"	3'-9"	4'-0"	
Stem With Haunch, Batter	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	5/8:12	5/8:12	5/8:12	3/4:12	3/4:12	7/8:12	1:12	1:12	
Stem Without Haunch, Batter	-	-	-	-	-	-	1/8:12	1/4:12	1/4:12	3/8:12	1/2:12	5/8:12	3/4:12	3/4:12	
Ⓐ BARS	-	-	#7 @ 8	#7 @ 8	#6 @ 6	#6 @ 6	#6 @ 6	#6 @ 6	#7 @ 8	#7 @ 8	#7 @ 8	#7 @ 8	#7 @ 8	#7 @ 8	
Ⓑ BARS	#6 @ 6	#6 @ 6	#8 @ 8	#9 @ 8	#8 @ 6	#8 @ 6	#9 @ 6	#9 @ 6	#8 @ 8 ♂	#9 @ 8 ♂	#9 @ 8 ♂	#9 @ 8 ♂	#10 @ 8 ♂	#10 @ 8 ♂	
"ha"	-	-	-	-	-	-	-	-	12'-0"	12'-0"	14'-0"	14'-6"	14'-0"	16'-0"	
"hb"	-	-	4'-0"	5'-0"	6'-0"	8'-0"	10'-0"	12'-0"	15'-0"	15'-0"	17'-0"	18'-6"	19'-6"	21'-0"	
Ⓒ BARS	#5 @ 12	#5 @ 12	#5 @ 8	#6 @ 8	#7 @ 6	#7 @ 6	#7 @ 6	#7 @ 6	#9 @ 8	#10 @ 8	#10 @ 8	#9 @ 8 ♂	#9 @ 8 ♂	#10 @ 8 ♂	
SER: B'(ft), q ₀ (ksf)	7.2, 1.2	5.8, 1.9	6.4, 2.1	6.6, 2.3	7.1, 2.6	7.6, 2.9	8.4, 3.0	9.4, 3.2	9.5, 3.7	10.2, 4.0	10.7, 4.4	11.4, 4.8	12.4, 5.0	13.0, 5.3	
STR: B'(ft), q ₀ (ksf)	6.9, 1.7	5.7, 2.5	6.2, 2.8	6.4, 3.1	6.8, 3.6	7.3, 3.9	7.9, 4.2	8.9, 4.4	8.9, 5.2	9.5, 5.7	9.9, 6.5	10.6, 7.0	11.5, 7.3	12.1, 7.9	
EXT: B'(ft), q ₀ (ksf)	1.7, 4.8	2.4, 4.4	3.7, 3.5	4.2, 3.5	5.4, 4.0	5.7, 4.5	6.2, 5.0	7.1, 5.3	6.9, 6.4	7.3, 7.1	7.6, 8.0	8.0, 8.7	8.7, 9.2	9.1, 9.9	



ELEVATION

- NOTES:
- 1. "ha" and "hb" above Ⓑ bars indicates distance from top of footing to upper end of Ⓑ bars, see Table.
 - 2. "S" is Ⓐ and Ⓑ bar spacing, see Table.
 - 3. Minimum lap splice for Ⓐ and Ⓑ is 45 x reinforcement diameter of Ⓐ bar. Lap splice begins at a distance "hb" above footing.
- LEGEND:
- ♂ : Bundled Reinforcement
 - SER: Service limit state
 - STR: Strength limit state
 - EXT: Extreme event limit state
 - B' : Effective footing width (ft)
 - q₀ : Net bearing stress (ksf)
 - q₀ : Gross uniform bearing stress (ksf)

NO SCALE

BRIDGE STANDARD DETAILS		DESIGN	BY X	CHECKED X	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE No.	X	RETAINING WALL (TYPE 1SWB) DETAILS No. 2			
x814-220-2 FILE NO.	August 2026 APPROVAL DATE	DETAILS	BY X	CHECKED X			POST MILE					
		QUANTITIES	BY X	CHECKED X			X.X					
Refer to: http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html		DATE PLOTTED => 31-AUG-2026 FILE => x814-220-2.dgn		TIME PLOTTED => 14:09 USERNAME => s136247	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 X	OF X