

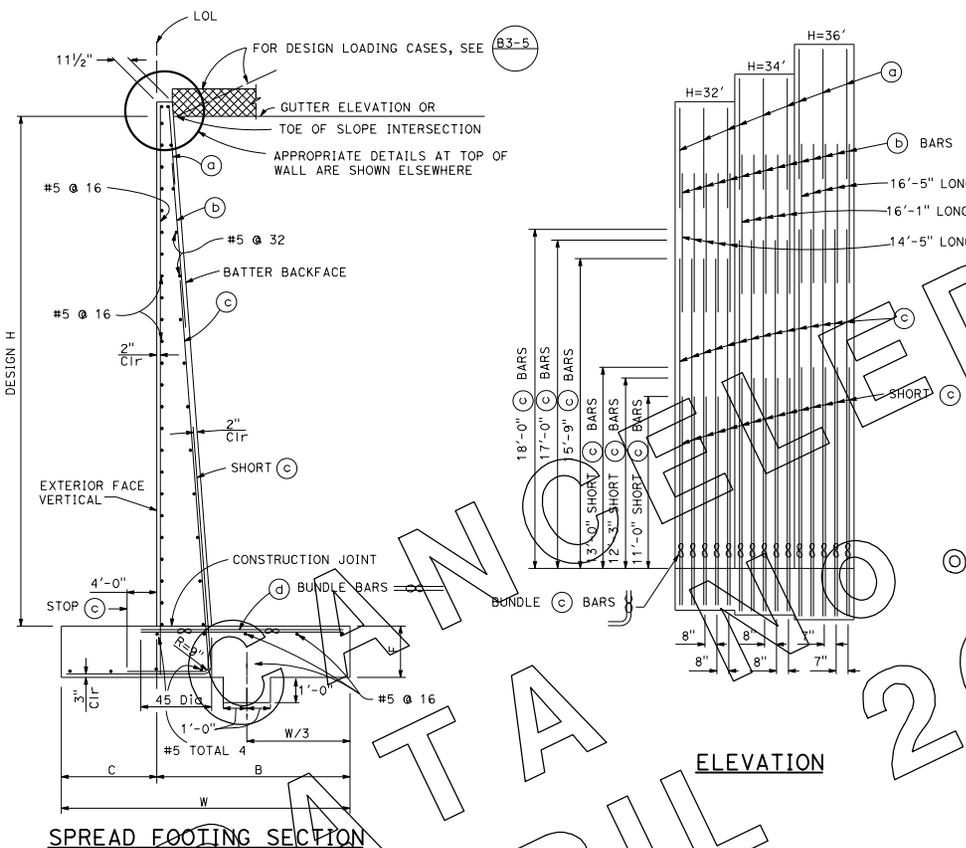
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

Gary Wong
 REGISTERED CIVIL ENGINEER
 No. C58238
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

May 20, 2011
 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.

DESIGN H	32'	34'	36'
W	21'-0"	23'-0"	25'-0"
C	7'-0"	7'-4"	8'-0"
B	14'-0"	15'-8"	17'-0"
F SPREAD FOOTING	3'-3"	3'-6"	3'-9"
BATTER	1:12	1:12	1:12
ⓐ BARS	#6 @ 16	#5 @ 16	#6 @ 14
ⓑ BARS	#9 @ 8	#9 @ 8	#9 @ 7
ⓒ BARS	#11 @ 8	#11 @ 8	#11 @ 7
ⓓ BARS	#9 @ 8	#9 @ 8	#9 @ 7
LOAD CASE I	Ser: B, q _o 18.0, 3.4 Str: B', q _o 17.0, 5.6	29.2, 3.6 19.6, 5.9	22.4, 3.6 21.4, 6.0
LOAD CASE II	Ser: B', q _o 18.2, 4.5 Str: B', q _o 17.3, 7.2	20.2, 4.8 19.3, 7.7	22.4, 4.9 21.4, 7.9
LOAD CASE III	Ser: B', q _o 14.4, 4.5 Str: B', q _o 13.2, 7.6	16.8, 4.6 15.8, 7.5	19.2, 4.5 18.2, 7.5

SYMBOLS:
 Ser - service limit state 1
 Str - strength limit state 1
 B' - effective footing width (ft)
 q_o - net bearing stress (ksf)
 q_o' - gross uniform bearing stress (ksf)
 Ⓞ - Denotes a bundle of 2 bars



DESIGN CONDITIONS:
 Design H may be exceeded by 6" before going to the next size. Special footing design is required where foundation material is incapable of supporting bearing stress listed in table.

DESIGN NOTES:
 DESIGN: AASHTO LRFD Bridge Design Specifications, 4th edition with California Amendments
 LIVE LOAD: Surcharge on level ground surface
 SOIL: $\phi = 34^\circ$
 $\gamma = 120$ pcf
 REINFORCED CONCRETE: $f_y = 60,000$ psi
 $f_c' = 3,600$ psi
 $n = 8$

- NOTES:**
- For details not shown and drainage notes see (B3-5)
 - For wall stem joint details see (B0-3/3-3) and (B0-3/3-4)
 - At ⓐ and Short ⓒ bars:
 $H \leq 6'$, no splices are allowed within 1'-8" above the top of footing.
 $H > 6'$, no splices are allowed within H/4 above the top of footing.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
RETAINING WALL
TYPE 1
H=32' THROUGH 36'
 NO SCALE

B3-2

274

2010 STANDARD PLAN B3-2