

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

REGISTERED CIVIL ENGINEER	DATE
	X

PLANS APPROVAL DATE

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.

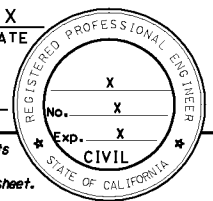


TABLE 1: TABLE OF DIMENSIONS AND DATA

Design H	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'
W	7'-6"	8'-0"	9'-3"	10'-9"	12'-3"	13'-9"	15'-3"	16'-9"	18'-3"	19'-6"	21'-0"	22'-6"	24'-0"
C	6'-0"	6'-6"	7'-6"	9'-0"	10'-3"	11'-6"	13'-0"	14'-3"	15'-3"	16'-6"	17'-6"	18'-6"	20'-0"
B	1'-6"	1'-6"	1'-9"	1'-9"	2'-0"	2'-3"	2'-3"	2'-6"	3'-0"	3'-0"	3'-6"	4'-0"	4'-0"
F	2'-6"	2'-6"	2'-6"	2'-6"	2'-6"	2'-6"	3'-0"	3'-3"	3'-3"	3'-9"	4'-0"	4'-0"	4'-3"
D (Footing Key Depth)	1'-0"	1'-0"	1'-0"	1'-6"	1'-9"	2'-0"	2'-3"	2'-3"	2'-9"	3'-0"	3'-0"	3'-0"	3'-0"
E	1'-3"	1'-3"	1'-3"	1'-3"	1'-3"	1'-6"	1'-6"	1'-6"	1'-6"	1'-9"	1'-9"	1'-9"	1'-9"
Stem Thickness @ Top	1'-0"	1'-0"	1'-3"	1'-3"	1'-6"	1'-9"	1'-9"	2'-0"	2'-0"	2'-0"	2'-0"	2'-3"	2'-3"
Batter	0	0	0	0	0	0	0	0	1/4:12	1/4:12	1/2:12	1/2:12	1/2:12
G (Minimum)	7'-6"	7'-6"	7'-6"	8'-6"	9'-3"	10'-3"	11'-0"	12'-0"	13'-0"	14'-0"	15'-6"	15'-9"	16'-3"
Ⓐ Bars			#7@18	#5@6	#9@18	#9@18	#9@12	#9@12	#7@6	#7@6	#10@12	#10@12	#11@12
X			Cont	Cont	Cont	Cont	Cont	Cont	Cont	Cont	Cont	Cont	Cont
Y			5'-6"	5'-6"	8'-6"	8'-9"	8'-9"	9'-0"	9'-9"	11'-3"	13'-3"	14'-3"	15'-3"
Ⓑ Bars	#5@9	#6@9	#7@18	#5@6	#9@18	#9@18	#9@12	#9@12	#7@6	#7@6	#10@12	#10@12	#11@12
X	Cont	Cont	3'-6"	2'-6"	6'-3"	7'-9"	6'-9"	7'-9"	8'-6"	8'-0"	12'-6"	13'-6"	14'-9"
Y	Cont	Cont	Cont	Cont	12'-0"	13'-6"	14'-0"	15'-9"	17'-9"	20'-3"	22'-3"	24'-9"	24'-9"
Placement, ○			Ⓐ	Ⓑ	Ⓐ	Ⓐ	Ⓐ	Ⓐ	Ⓑ	Ⓑ	Ⓑ	Ⓑ	Ⓐ
Ⓒ Bars					#8@18	#8@18	#8@12	#8@12	#6@6	#6@6	#9@12	#9@12	#10@12
Placement, ○					Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ
Ⓓ Bars	#5@18	#5@18	#5@18	#5@18	#5@18	#5@18	#5@18	#5@18	#5@18	#5@18	#5@18	#5@18	#5@18
Ⓔ Bars							#5@18	#5@18	#5@18	#5@18	#5@18	#5@18	#5@18
X							5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	7'-6"
Placement, ○							Ⓓ	Ⓓ	Ⓓ	Ⓓ	Ⓓ	Ⓓ	Ⓓ
Ⓕ Bars					#9@18	#9@18	#9@18	#9@18	#9@6	#7@6	#10@6	#10@6	#11@6
X					3'-9"	6'-0"	5'-0"	6'-0"	5'-3"	5'-3"	6'-6"	8'-3"	8'-9"
Ⓖ Bars									#4@15	#4@15	#4@15	#4@12	#4@12
U									7'-6"	7'-6"	8'-9"	9'-9"	11'-9"
Tie Down Design Force (T) k/ft	0	0	3	3	3	8	8	14	14	21	25	29	34
Tie Down Maximum Spacing (S) ft	0	0	32	32	32	20	20	12	12	9	9	8	7
Ultimate Bearing Capacity Required (ksf)	3.75	4.25	5.50	6.00	5.75	5.25	6.25	6.00	7.75	6.75	7.75	7.75	8.00
H <sub>D</sub> Group 1 k/m (k/ft)	2.21 (8.1)	3.09 (8.74)	4.51 (9.69)	5.29 (11.6)	6.77 (14.44)	8.44 (17.77)	10.29 (21.08)	12.57 (26)	14.55 (29.25)	17.23 (34.66)	20.40 (42.24)	23.25 (47.66)	26.26 (52.42)
(N) Group 2 k/m (k/ft)	4.54 (10.06)	5.9 (11.16)	7.15 (12.66)	8.9 (15.46)	11.46 (19.38)	15 (24.15)	17.59 (28.77)	23.4 (35.24)	25.6 (40.14)	32.12 (47.36)	38.55 (57.31)	40.96 (64.9)	45.89 (71.93)

LEGEND FOR BAR PLACEMENT:

- Ⓐ : Alternate placement of Ⓐ bars and Ⓑ bars
- Ⓑ : Bundle Ⓐ bars and Ⓑ bars
- Ⓒ : Splice Ⓒ bars to Ⓑ bars
- Ⓓ : Bundle Ⓓ bars and Ⓔ bars
- H<sub>D</sub> : Horizontal driving force
- (N) : Sum of vertical forces
- Cont : Continuous

STANDARD DRAWING		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO. X		X	
FILE NO. xs14-380-2x	APPROVAL DATE July 2011	DEPARTMENT OF TRANSPORTATION		PROJECT NUMBER & PHASE: X		POST MILE X		RETAINING WALL TYPE 7SW - DETATILS NO. 2	
DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. [02-02-11])		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: X		CONTRACT NO.: X		DISREGARD PRINTS BEARING EARLIER REVISION DATES	
		0 1 2 3						REVISION DATES SHEET OF X X	

DATE PLOTTED => \$DATE USERNAME => \$USER TIME PLOTTED => \$TIME