DIMENSIONS					FOOTING REINFORCEMENT																			STEM REINFORCEMENT				MATERIAL QUANTITY		H (m)
					BAR E (size #4)				BAR F			BAR K															BAR G (size #4)			
H (m)	B (mm)	C_v (mm)	D (mm)	h_k (mm)	SPACING (mm)	LENGTH (mm)	h (mm)	b (mm)	SIZE	SPACING (mm)	LENGTH (mm)	SIZE	SPACING (mm)	LENGTH (mm)	h (mm)	b (mm)											LENGTH (mm)	CONCRETE (m^3/m)	STEEL (Kg/m)	
1.5	800	610	300		460	1040	840	200	#4	300	500	#5		1800	1400	510											1200	0.584	28.648	1.5
1.8	800	610	300		460	1040	840	200	#4	300	600	#5	300	2100	1700	510											1500	0.720	33.099	1.8
2.1	900	690	300		460	1040	840	200	#4	300	600	#5	300	2500	2000	560											1800	0.875	35.572	2.1
2.4	900	690	300		460	1040	840	200	#4	300	600	#5	300	2800	2300	560											2100	0.993	35.312	2.4
2.7	1100	690	300		460	1040	840	200	#4	300	800	#5	300	3100	2600	560											2400	1.179	44.475	2.7
3.0	1100	840	300		460	1040	840	200	#4	300	700	#5	300	3500	2900	710											2700	1.352	47.143	3.0
3.4	1300	910	300		460	1040	840	200	#4	300	800	#5	300	3900	3200	810											3000	1.555	52.241	3.4
3.7	1500	990	300		460	1040	840	200	#4	300	900	#5	300	4300	3500	890											3300	1.794	58.193	3.7
4.0	1800	1070	300		460	1040	840	200	#4	230	1100	#5	230	4700	3800	940											3600	2.039	70.384	4.0
4.3	1900	1070	300		460	1040	840	200	#5	230	1300	#5	230	5000	4100	940											3900	2.273	79.432	4.3
4.6	2100	1140	300		460	1040	840	200	#6	200	1600	#6	230	5300	4400	1020											4200	2.536	110.341	4.6
4.9	2300	1140	300		460	1040	840	200	#6	150	1800	#6	200	5600	4700	1020											4500	2.787	129.072	4.9
5.2	2400	1220	380		460	1120	910	200	#6	150	1900	#6	180	6000	5100	1120											4800	3.178	147.800	5.2
5.5	2700	1300	380		460	1120	910	200	#6	130	2000	#6	150	6400	5400	1170											5100	3.487	174.464	5.5
5.8	2700	1370	460		460	1190	990	200	#7	180	2300	#6	150	6800	5700	1240											5300	3.896	186.058	5.8
6.1	2800	1450	460		460	1190	990	200	#7	180	2300	#7	180	7100	6000	1320											5600	4.169	211.347	6.1
6.4	3000	1520	460		460	1190	990	200	#7	150	2400	#7	300	3900	2600	1420	#7	300	2600	1400	1400	#7	300	5900	5900	4.485	222.054	6.4
6.7	3100	1600	530		460	1270	1070	200	#7	150	2500	#7	280	4100	2800	1470	#7	280	2700	1400	1500	#7	280	6100	6100	4.982	238.230	6.7
7.0	3300	1680	530		460	1270	1070	200	#7	150	2600	#7	300	4300	2900	1550	#7	560	2800	1400	1500	#7	250	6400	6500	5.325	255.896	7.0
7.3	3400	1750	610		460	1350	1140	200	#7	150	2500	#7	280	4300	3000	1630	#7	560	2900	1500	1600	#7	250	6700	6700	5.872	255.740	7.3
7.6	3500	1910	610	610	460	1350	1140	200	#7	150	2600	#7	250	4800	3100	1780	#7	230	3100	1500	1800	#7	230	7000	7000	6.755	286.599	7.6
7.9	3700	1980	690	610	460	1420	1220	200	#7	150	2600	#7	250	5000	3300	1850	#7	230	3300	1500	1900	#7	230	7200	7200	7.342	301.476	7.9
8.2	3800	2130	690	610	460	1420	1220	200	#7	150	2600	#7	230	5300	3400	2030	#7	200	3400	1500	2000	#7	200	7500	7500	7.741	317.438	8.2
8.5	4000	2210	760	610	460	1500	1300	200	#7	150	3000	#8	230	5500	3600	2080	#8	230	3800	1900	2100	#8	230	7700	7800	8.373	379.720	8.5
8.8	4100	2290	760	610	460	1500	1300	200	#8	150	3000	#8	200	5700	3700	2160	#8	200	3900	1900	2200	#8	200	8000	8100	8.802	445.878	8.8
9.1	4300	2440	840	610	460	1570	1370	200	#8	150	3100	#8	200	6000	3900	2340	#8	200	4200	2000	2300	#8	200	8300	8300	9.482	472.720	9.1
9.4	4400	2510	840	610	460	1570	1370	200	#8	150	4100	#8	200	6200	4000	2390	#8	200	4200	2000	2400	#8	200	8600	8600	9.938	486.153	9.4
9.8	4600	2590	910	610	460	1650	1450	200	#8	150	3200	#9	230	6400	4100	2460	#9	230	4700	2400	2500	#9	230	8800	8800	10.666	585.598	9.8
10.1	4700	2670	910	610	460	1650	1450	200	#8	150	3300	#9	200	6600	4300	2540	#9	200	4700	2400	2500	#9	200	9100	9100	11.147	631.910	10.1
10.4	5000	2820	990	610	460	1730	1520	200	#8	150	3300	#9	200	6900	4400	2690	#9	200	5000	2500	2700	#9	200	9300	9400	11.998	655.044	10.4
10.7	5100	2900	1070	610	460	1800	1600	200	#8	130	3400	#10	200	7100	4600	2770	#10	200	5600	3000	2800	#10	200	9600	9600	12.808	809.780	10.7

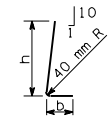
BAR M					BAR J		
SIZE	SPACING (mm)	LENGTH (mm)	h (mm)	b (mm)	SIZE	SPACING (mm)	LENGTH (mm)
#7	300	2600	1400	1400	#7	300	5900
#7	280	2700	1400	1500	#7	280	6100
#7	560	2800	1400	1500	#7	250	6400
#7	560	2900	1500	1600	#7	250	6700
#7	230	3100	1500	1800	#7	230	7000
#7	230	3300	1500	1900	#7	230	7200
#7	200	3400	1500	2000	#7	200	7500
#8	230	3800	1900	2100	#8	230	7700
#8	200	3900	1900	2200	#8	200	8000
#8	200	4200	2000	2300	#8	200	8300
#8	200	4200	2000	2400	#8	200	8600
#9	230	4700	2400	2500	#9	230	8800
#9	200	4700	2400	2500	#9	200	9100
#9	200	5000	2500	2700	#9	200	9300
#10	200	5600	3000	2800	#10	200	9600

NOTES

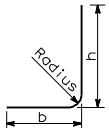
1. All concrete shall be Class 28.
2. For backfill requirements, see Standard Plan, "Backfill for Retaining Walls".
3. When Wall Type 6-SW (saltwater) is specified, the concrete cover over steel in the front face and the total wall thickness shall be increased by 25 mm.
3. When Wall Type 6-SW (saltwater) is specified, concrete in the table column "Material Quantity" shall be increased by 0.254 x H m^3/m.

Bar	Radius (mm)
#5	230
#6	280
#7	330
#8	380
#9	460
#10	510

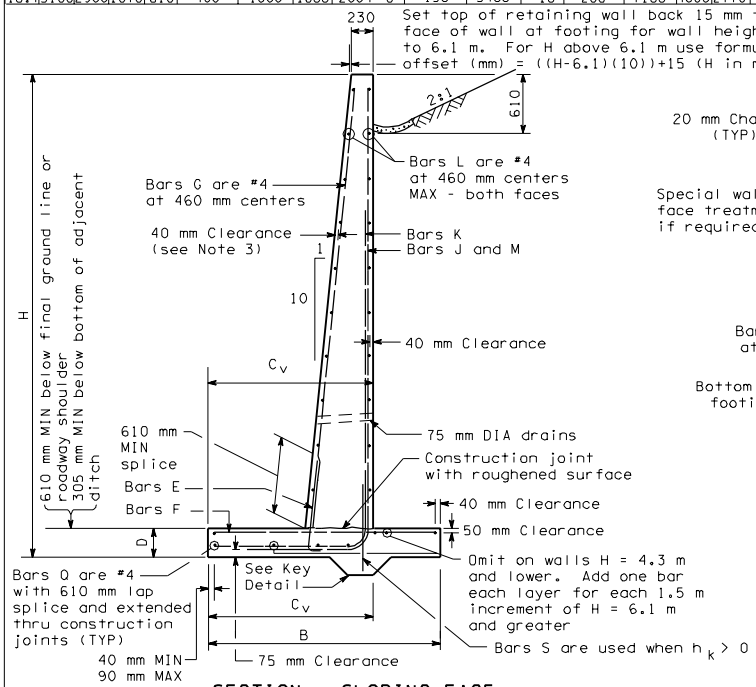
Bar	MIN Splice (mm)
#4	610
#5	610
#6	640
#7	890
#8	1140
#9	1450
#10	1850



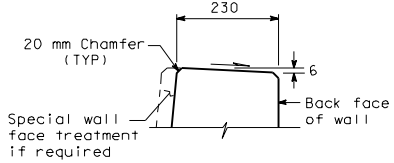
BAR E



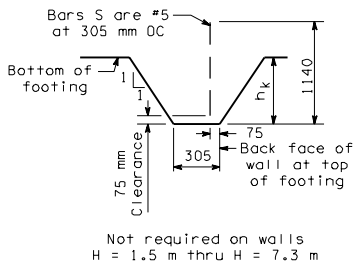
BARS K AND M



SECTION - SLOPING FACE

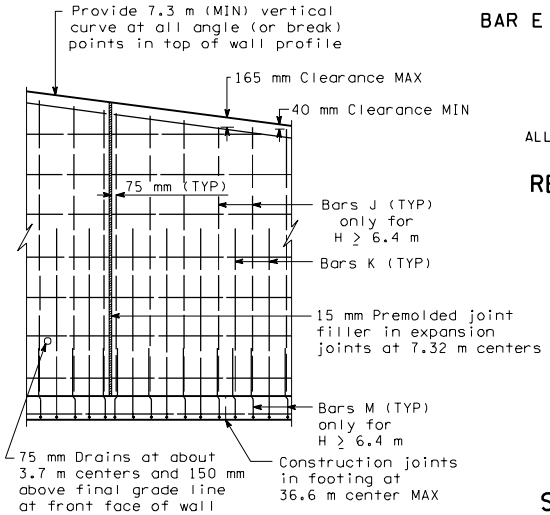


WALL TOP DETAIL



Not required on walls H = 1.5 m thru H = 7.3 m

KEY DETAIL



ELEVATION

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED

REINFORCED CONCRETE RETAINING WALL TYPE 6 AND 6 SW

2:1 BACKSLOPE WITH SLOPING FRONT FACE

STANDARD PLAN D-1f

APPROVED FOR PUBLICATION

STATE DESIGN ENGINEER — DATE

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
OLYMPIA, WASHINGTON