

Bill of Reinforcing for One Headwall 15° Skew Span x Culvert Height

Bar	Location	Shape	16' x 14'			16' x 13'			16' x 12'			16' x 11'			16' x 10'			16' x 9'			16' x 8'			Bar
			No.	Length	Wt.	No.	Length	Wt.	No.	Length	Wt.	No.	Length	Wt.	No.	Length	Wt.	No.	Length	Wt.	No.	Length	Wt.	
5fa	Fence Anchor (Galv.)		2	2'-10"	6	2	2'-10"	6	2	2'-10"	6	2	2'-10"	6	2	2'-10"	6	2	2'-10"	6	2	2'-10"	6	5fa
4b1	Wingwall, B.F.H, Long		1	52'-5"	37	1	49'-0"	34	1	45'-7"	32	1	42'-2"	30	1	38'-9"	26	1	35'-4"	24	1	31'-11"	21	4b1
4b2	Wingwall, B.F.H, Short		1	46'-3"	33	1	43'-4"	31	1	40'-4"	29	1	37'-4"	25	1	34'-4"	23	1	31'-4"	21	1	28'-4"	19	4b2
4b3	Wingwall, B.F.H, Long		12	13'-2" to 50'-10"	263	11	13'-2" to 47'-6"	228	10	13'-2" to 44'-0"	194	9	13'-2" to 40'-7"	163	8	13'-2" to 37'-2"	134	7	13'-2" to 33'-9"	110	6	13'-2" to 30'-4"	87	4b3
4b4	Wingwall, B.F.H, Short		12	11'-11" to 44'-10"	231	11	11'-11" to 41'-11"	199	10	11'-11" to 38'-11"	170	9	11'-11" to 35'-11"	144	8	11'-11" to 32'-11"	120	7	11'-11" to 29'-11"	98	6	11'-11" to 26'-11"	78	4b4
5b5	Wingwall, F.F.H, Long		1	52'-6"	57	1	49'-1"	54	1	45'-8"	50	1	42'-3"	47	1	38'-10"	41	1	35'-5"	37	1	31'-11"	33	5b5
5b6	Wingwall, F.F.H, Short		1	46'-4"	51	1	43'-4"	48	1	40'-4"	45	1	37'-4"	39	1	34'-4"	36	1	31'-4"	33	1	28'-4"	30	5b6
5b7	Wingwall, F.F.H, Long		13	9'-10" to 51'-0"	423	12	9'-10" to 47'-6"	366	11	9'-10" to 44'-1"	314	10	9'-10" to 40'-8"	266	9	9'-10" to 37'-3"	221	8	9'-10" to 33'-10"	182	7	9'-10" to 30'-5"	147	5b7
5b8	Wingwall, F.F.H, Short		13	9'-0" to 45'-0"	371	12	9'-0" to 42'-0"	322	11	9'-0" to 39'-0"	275	10	9'-0" to 36'-0"	235	9	9'-0" to 33'-0"	197	8	9'-0" to 30'-0"	163	7	9'-0" to 27'-0"	131	5b8
4c1	Wingwall, F.F.V, Long		49	2'-10" to 16'-10"	322	46	2'-10" to 16'-0"	289	42	2'-10" to 14'-10"	248	39	2'-10" to 13'-11"	218	35	2'-10" to 12'-9"	182	32	2'-10" to 11'-11"	158	29	2'-10" to 11'-0"	134	4c1
4c2	Wingwall, F.F.V, Short		43	2'-10" to 16'-10"	282	40	2'-10" to 15'-10"	249	37	2'-10" to 14'-10"	218	34	2'-10" to 13'-10"	189	31	2'-10" to 12'-10"	162	28	2'-10" to 11'-10"	137	25	2'-10" to 10'-10"	114	4c2
4c3	Wingwall, F.F.V, Long		26	9'-8" to 17'-0"	232	23	9'-8" to 16'-1"	198	19	9'-8" to 14'-11"	156	16	9'-8" to 14'-1"	127	12	9'-8" to 12'-11"	91	9	9'-8" to 12'-0"	65	--	--	--	4c3
4c4	Wingwall, F.F.V, Short		23	9'-8" to 17'-0"	205	20	9'-8" to 16'-0"	171	17	9'-8" to 15'-0"	140	14	9'-8" to 14'-0"	111	11	9'-8" to 13'-0"	83	8	9'-8" to 12'-0"	58	--	--	--	4c4
4c5	Wingwall, F.F.V, Long		2	15'-9"	21	2	14'-9"	10	2	13'-9"	18	2	12'-9"	9	2	11'-9"	16	2	10'-9"	14	2	9'-9"	7	4c5
4c5	Wingwall, F.F.V, Short		2	15'-9"	21	2	14'-9"	20	2	13'-9"	18	2	12'-9"	9	2	11'-9"	16	2	10'-9"	14	2	9'-9"	7	4c5
5c6	Wingwall, B.F.V, Long		9	2'-10" to 5'-2"	38	9	2'-10" to 5'-2"	38	9	2'-10" to 5'-2"	38	9	2'-10" to 5'-2"	38	9	2'-10" to 5'-2"	38	9	2'-10" to 5'-2"	38	9	2'-10" to 5'-2"	38	5c6
5c7	Wingwall, B.F.V, Short		6	2'-10" to 4'-6"	23	6	2'-10" to 4'-6"	23	6	2'-10" to 4'-6"	23	6	2'-10" to 4'-6"	23	6	2'-10" to 4'-6"	23	6	2'-10" to 4'-6"	23	6	2'-10" to 4'-6"	23	5c7
6c8	Wingwall, B.F.V, Long		40	9'-6" to 20'-10"	911	37	9'-6" to 20'-0"	820	33	9'-6" to 18'-10"	702	30	9'-6" to 17'-11"	618	26	9'-6" to 16'-9"	513	23	9'-6" to 15'-11"	439	20	9'-6" to 15'-0"	368	6c8
6c9	Wingwall, B.F.V, Short		37	8'-10" to 20'-10"	824	34	8'-10" to 19'-10"	732	31	8'-10" to 18'-10"	644	28	8'-10" to 17'-10"	561	25	8'-10" to 16'-10"	482	22	8'-10" to 15'-10"	408	19	8'-10" to 14'-10"	338	6c9
6c10	Wingwall, B.F.V, Long		32	10'-6"	505	29	10'-6"	457	25	10'-6"	394	22	10'-6"	347	18	10'-6"	284	15	10'-6"	237	12	10'-6"	189	6c10
6c10	Wingwall, B.F.V, Short		28	10'-6"	442	25	10'-6"	394	22	10'-6"	347	19	10'-6"	300	16	10'-6"	252	13	10'-6"	205	10	10'-6"	158	6c10
6c11	Wingwall, B.F.V, Long		2	19'-9"	59	1	18'-9"	28	2	17'-9"	53	1	16'-9"	25	2	15'-9"	47	2	14'-9"	44	2	13'-9"	21	6c11
6c11	Wingwall, B.F.V, Short		2	19'-9"	59	2	18'-9"	56	2	17'-9"	53	2	16'-9"	50	2	15'-9"	47	2	14'-9"	44	2	13'-9"	41	6c11
4d1	Apron, Longit., Bott.		11	33'-0"	242	11	30'-11"	227	11	28'-10"	212	11	26'-9"	197	11	24'-9"	182	11	22'-8"	167	11	20'-7"	151	4d1
4d2	Apron, Longit., Bott, Long		3	47'-2"	99	3	43'-8"	92	3	40'-3"	86	3	36'-10"	74	3	33'-5"	67	3	30'-0"	60	3	26'-7"	53	4d2
4d3	Apron, Longit., Bott, Short		3	41'-6"	88	3	38'-6"	77	3	35'-6"	71	3	32'-5"	65	3	29'-5"	59	3	26'-5"	53	3	23'-5"	47	4d3
6f1	Apron, Longit., Top		15	33'-0"	743	15	30'-11"	697	15	28'-10"	650	15	26'-9"	603	15	24'-9"	558	15	22'-8"	511	15	20'-7"	464	6f1
6f2	Apron, Longit., Top Long		10	7'-1" to 29'-9"	277	9	7'-6" to 27'-8"	238	9	7'-5" to 25'-7"	210	8	7'-4" to 23'-6"	176	7	7'-3" to 21'-5"	145	6	7'-2" to 19'-6"	118	5	7'-2" to 17'-4"	92	6f2
6f2	Apron, Longit., Top Short		9	6'-9" to 29'-10"	247	9	6'-8" to 27'-9"	219	8	6'-7" to 25'-8"	187	7	6'-6" to 23'-8"	157	6	6'-5" to 21'-7"	129	6	6'-4" to 19'-6"	110	5	6'-3" to 17'-5"	87	6f2
6f4	Apron, Longit., Top Long		1	52'-6"	82	1	49'-1"	77	1	45'-8"	72	1	42'-3"	67	1	38'-10"	58	1	35'-5"	53	1	31'-11"	48	6f4
6f5	Apron, Longit., Top Short		1	46'-4"	73	1	43'-4"	69	1	40'-4"	64	1	37'-4"	56	1	34'-4"	52	1	31'-4"	47	1	28'-4"	43	6f5
4i1	Parapet, Vertical		33	6'-2"	136	33	6'-2"	136	33	6'-2"	136	33	6'-2"	136	33	6'-2"	136	33	6'-2"	136	33	6'-2"	136	4i1
9j1	Parapet, Horizontal		4	18'-7"	253	4	18'-3"	248	4	18'-3"	248	4	18'-1"	246	4	17'-11"	244	4	17'-11"	244	4	17'-11"	244	9j1
6m1	Apron, Trans., Top		4	18'-10" to 19'-5"	115	4	18'-6" to 19'-1"	113	4	18'-6" to 19'-1"	113	4	18'-4" to 18'-11"	112	4	18'-2" to 18'-9"	111	4	18'-2" to 18'-9"	111	4	18'-2" to 18'-9"	111	6m1
6m2	Apron, Trans., Top		34	19'-8" to 32'-1"	1321	31	19'-4" to 30'-7"	1162	28	19'-4" to 29'-6"	1027	26	19'-2" to 28'-7"	932	23	19'-0" to 27'-3"	799	20	19'-0" to 26'-1"	677	17	19'-0" to 25'-0"	562	6m2
6m3	Apron, Trans., Top		6	9'-0" to 22'-0"	140	6	8'-11" to 21'-11"	139	6	9'-0" to 22'-1"	140	5	9'-1" to 19'-6"	107	6	6'-5" to 19'-6"	117	6	6'-7" to 19'-7"	118	6	6'-8" to 19'-8"	119	6m3
6m4	Apron, Trans., Bott.		28	12'-2" to 26'-8"	817	26	12'-2" to 25'-7"	737	24	12'-2" to 24'-6"	661	22	12'-2" to 23'-5"	588	20	12'-2" to 22'-4"	518	18	12'-2" to 21'-4"	453	16	12'-2" to 20'-3"	390	6m4
6p1	Curtain, Horizontal		4	16'-10"	101	4	16'-10"	101	4	16'-10"	101	4	16'-10"	101	4	16'-10"	101	4	16'-10"	101	4	16'-10"	101	6p1
6p2	Curtain, Horizontal, Long		4	23'-3"	149	4	23'-3"	149	4	21'-9"	131	4	20'-3"	122	4	18'-9"	113	4	17'-3"	104	4	15'-9"	95	6p2
6p3	Curtain, Horizontal, Short		4	19'-1"	115	4	17'-11"	108	4	16'-10"	101	4	15'-9"	95	4	14'-7"	88	4	13'-6"	81	4	12'-5"	75	6p3
6s1	Wing Slope, Both F., Long		2	6'-11"	21	2	6'-11"	21	2	6'-11"	21	2	6'-11"	21	2	6'-11"	21	2	6'-11"	21	2	6'-11"	21	6s1
6s2	Wing Slope, Both F., Short		2	6'-6"	20	2	6'-6"	20	2	6'-6"	20	2	6'-6"	20	2	6'-6"	20	2	6'-6"	20	2	6'-6"	20	6s2
6s3	Wing Slope, Both F., Long		2	48'-5"	153	2	44'-10"	142	2	41'-3"	131	2	37'-9"	113	2	34'-2"	103	2	30'-7"	92	2	27'-0"	81	6s3
6s4	Wing Slope, Both F., Short		2	43'-2"	137	2	40'-0"	120	2	36'-11"	111	2	33'-9"	101	2	30'-7"	92	2	27'-5"	82	2	24'-3"	73	6s4
6s5	Wing Slope, F.F, Long		1	53'-7"	84	1	50'-0"	79	1	46'-5"	73	1	42'-10"	68	1									