

TABLE OF DIMENSIONS AND QUANTITIES FOR TWO TYPE A HEADWALLS

NO. OF PIPES	DIAM. OF PIPES	TABLE OF DIMENSIONS										TOTAL QUANTITIES									
		REINFORCING STEEL FOR TWO HEADWALLS										LBS.	C.Y.								
		BARS A1-A3	BARS A2	BARS E	BARS F1	BARS F2															
1	12"	12'	9'	1'-9"	2'-6"	7'-0"	6'-8"	10	8	2'-6"	8	6'-8"	28	12	2'-11"	23	12	3'-8"	29	98	1.48
2	10"	12'	9'	1'-9"	2'-6"	8'-10"	8'-6"	13	8	2'-6"	8	8'-6"	35	14	2'-11"	27	14	3'-8"	34	117	1.81
3	10"	12'	9'	1'-9"	2'-6"	10'-8"	10'-4"	16	8	2'-6"	8	10'-4"	43	16	2'-11"	31	16	3'-8"	39	137	2.15
4	10"	12'	9'	1'-9"	2'-6"	12'-6"	12'-2"	18	8	2'-6"	8	12'-2"	51	18	2'-11"	35	18	3'-8"	44	156	2.48
1	15"	12'	9'	1'-9"	2'-9"	8'-3"	7'-11"	12	8	3'-0"	9	7'-11"	33	12	3'-2"	25	12	3'-11"	31	110	1.82
2	10"	12'	9'	1'-9"	2'-9"	10'-6"	10'-2"	15	8	3'-0"	9	10'-2"	42	14	3'-2"	30	14	3'-11"	37	133	2.24
3	10"	12'	9'	1'-9"	2'-9"	12'-5"	12'-5"	19	8	3'-0"	9	12'-5"	52	16	3'-2"	34	16	3'-11"	42	156	2.66
4	10"	12'	9'	1'-9"	2'-9"	15'-0"	14'-8"	22	8	3'-0"	9	14'-8"	61	18	3'-2"	38	18	3'-11"	47	177	3.09
1	18"	12'	9'	1'-9"	3'-0"	9'-6"	9'-2"	14	8	3'-6"	11	9'-2"	38	20	3'-5"	46	20	4'-2"	56	165	2.19
2	15"	12'	9'	1'-9"	3'-0"	11'-10"	11'-10"	18	8	3'-6"	11	11'-10"	49	22	3'-5"	50	22	4'-2"	61	189	2.70
3	15"	12'	9'	1'-9"	3'-0"	14'-10"	14'-6"	22	8	3'-6"	11	14'-6"	60	26	3'-5"	55	26	4'-2"	67	215	3.21
4	15"	12'	9'	1'-9"	3'-0"	17'-6"	17'-2"	26	8	3'-6"	11	17'-2"	72	28	3'-5"	59	28	4'-2"	72	240	3.73
1	24"	12'	9'	2'-0"	3'-6"	12'-0"	11'-8"	18	8	4'-6"	14	11'-8"	49	24	4'-11"	63	24	4'-11"	79	223	3.17
2	15"	12'	9'	2'-0"	3'-6"	15'-5"	15'-1"	23	8	4'-6"	14	15'-1"	63	26	4'-11"	68	26	4'-11"	85	253	3.89
3	15"	12'	9'	2'-0"	3'-6"	18'-10"	18'-6"	28	8	4'-6"	14	18'-6"	77	28	4'-11"	73	28	4'-11"	92	284	4.62
4	15"	12'	9'	2'-0"	3'-6"	22'-3"	21'-11"	33	8	4'-6"	14	21'-11"	91	30	4'-11"	79	30	4'-11"	99	316	5.35
1	30"	12'	9'	2'-3"	4'-0"	14'-6"	14'-2"	21	16	5'-6"	33	14'-2"	59	28	4'-5"	83	28	4'-5"	106	302	4.31
2	18"	12'	9'	2'-3"	4'-0"	18'-8"	18'-4"	24	16	5'-6"	33	18'-4"	76	32	4'-5"	94	32	4'-5"	121	352	5.28
3	18"	12'	9'	2'-3"	4'-0"	22'-10"	22'-6"	30	16	5'-6"	33	22'-6"	94	36	4'-5"	108	36	4'-5"	136	403	6.26
4	18"	12'	9'	2'-3"	4'-0"	27'-0"	26'-8"	40	16	5'-6"	33	26'-8"	111	40	4'-5"	118	40	4'-5"	152	454	7.24
1	36"	12'	9'	2'-6"	4'-6"	17'-0"	16'-8"	25	16	6'-6"	39	16'-8"	70	32	5'-2"	111	32	6'-8"	143	388	6.40
2	18"	12'	9'	2'-6"	4'-6"	21'-11"	21'-7"	32	16	6'-6"	39	21'-7"	90	36	5'-2"	124	36	6'-8"	160	445	7.89
3	18"	12'	9'	2'-6"	4'-6"	26'-10"	26'-6"	40	16	6'-6"	39	26'-6"	111	40	5'-2"	138	40	6'-8"	178	508	9.37
4	18"	12'	9'	2'-6"	4'-6"	31'-9"	31'-5"	47	16	6'-6"	39	31'-5"	131	44	5'-2"	152	44	6'-8"	196	565	10.85
1	42"	12'	9'	2'-9"	5'-0"	19'-6"	19'-2"	29	16	7'-6"	45	19'-2"	80	36	5'-8"	136	36	7'-5"	178	468	8.10
2	24"	12'	9'	2'-9"	5'-0"	25'-2"	24'-10"	37	16	7'-6"	45	24'-10"	104	40	5'-8"	152	40	7'-5"	198	536	9.96
3	24"	12'	9'	2'-9"	5'-0"	30'-10"	30'-6"	46	16	7'-6"	45	30'-6"	127	44	5'-8"	167	44	7'-5"	218	603	11.80
4	24"	12'	9'	2'-9"	5'-0"	36'-6"	36'-2"	54	16	7'-6"	45	36'-2"	151	48	5'-8"	182	48	7'-5"	238	670	13.68
1	48"	12'	9'	3'-0"	5'-9"	23'-0"	22'-8"	34	20	8'-6"	79	22'-8"	95	48	6'-5"	208	48	8'-5"	251	827	10.74
2	25"	12'	9'	3'-0"	5'-9"	29'-5"	29'-1"	44	20	8'-6"	79	29'-1"	121	44	6'-5"	235	44	8'-5"	306	925	13.08
3	25"	12'	9'	3'-0"	5'-9"	35'-10"	35'-6"	53	20	8'-6"	79	35'-6"	148	48	6'-5"	261	48	8'-5"	356	1023	15.43
4	25"	12'	9'	3'-0"	5'-9"	42'-3"	41'-11"	63	20	8'-6"	79	41'-11"	175	52	6'-5"	288	52	8'-5"	457	1122	17.77
1	54"	12'	9'	3'-3"	6'-3"	25'-6"	25'-2"	38	24	9'-6"	88	25'-2"	105	44	6'-4"	318	44	9'-2"	421	970	12.87
2	28"	12'	9'	3'-3"	6'-3"	32'-10"	32'-6"	49	24	9'-6"	88	32'-6"	136	50	6'-4"	361	50	9'-2"	478	1112	15.77
3	28"	12'	9'	3'-3"	6'-3"	40'-7"	40'-3"	60	24	9'-6"	88	40'-3"	166	56	6'-4"	406	56	9'-2"	536	1254	18.66
4	28"	12'	9'	3'-3"	6'-3"	47'-6"	47'-2"	71	24	9'-6"	88	47'-2"	197	62	6'-4"	447	62	9'-2"	593	1396	21.55
1	60"	12'	9'	3'-6"	6'-9"	28'-0"	27'-8"	42	24	10'-6"	97	27'-8"	115	48	7'-5"	379	48	9'-4"	497	1122	15.20
2	30"	12'	9'	3'-6"	6'-9"	36'-0"	35'-8"	54	24	10'-6"	97	35'-8"	149	54	7'-5"	448	54	9'-4"	559	1277	18.55
3	30"	12'	9'	3'-6"	6'-9"	44'-0"	43'-8"	66	24	10'-6"	97	43'-8"	182	60	7'-5"	509	60	9'-4"	621	1430	21.89
4	30"	12'	9'	3'-6"	6'-9"	52'-0"	51'-8"	78	24	10'-6"	97	51'-8"	216	68	7'-5"	561	68	9'-4"	683	1585	25.24
1	66"	12'	9'	3'-9"	7'-3"	30'-6"	30'-2"	45	32	11'-9"	141	30'-2"	126	52	7'-11"	438	52	10'-8"	579	1321	17.72
2	31"	12'	9'	3'-9"	7'-3"	39'-1"	38'-9"	58	32	11'-9"	141	38'-9"	162	58	7'-11"	478	58	10'-8"	645	1485	21.49
3	31"	12'	9'	3'-9"	7'-3"	47'-8"	47'-4"	78	32	11'-9"	141	47'-4"	198	64	7'-11"	529	64	10'-8"	712	1651	25.27
4	31"	12'	9'	3'-9"	7'-3"	56'-3"	55'-11"	94	32	11'-9"	141	55'-11"	233	70	7'-11"	578	70	10'-8"	779	1815	29.05
1	72"	12'	9'	4'-0"	7'-9"	33'-0"	32'-8"	49	32	12'-9"	153	32'-8"	136	56	8'-5"	498	56	11'-5"	667	1497	20.42
2	32"	12'	9'	4'-0"	7'-9"	42'-2"	41'-10"	63	32	12'-9"	153	41'-10"	173	62	8'-5"	548	62	11'-5"	738	1673	24.66
3	32"	12'	9'	4'-0"	7'-9"	51'-4"	51'-0"	77	32	12'-9"	153	51'-0"	213	68	8'-5"	597	68	11'-5"	810	1850	28.89
4	32"	12'	9'	4'-0"	7'-9"	60'-6"	60'-2"	90	32	12'-9"	153	60'-2"	251	74	8'-5"	650	74	11'-5"	881	2025	33.12

TABLE OF DIMENSIONS AND QUANTITIES FOR TWO TYPE B HEADWALLS

NO. OF PIPES	DIAM. OF PIPES	TABLE OF DIMENSIONS										TOTAL QUANTITIES																						
		REINFORCING STEEL AND QUANTITIES FOR TWO HEADWALLS										LBS.	C.Y.																					
		BARS A1-Ax	BARS B	BARS B1-Bx	C-2'-0"	BARS D1-Dx	BARS E	BARS F	BARS G	BARS S	BARS V1-Vx			BARS W																				
1	12"	12'	10'	2'-4"	2'-0"	1'-0"	2'-4"	2	2'-8"	4	6	2'-6"	6	4	5	2'-0"	17	8	2'-2"	12	2'-8"	4	8	5	4	2'-11"	8	1'-8"	7	68	52			
2	10"	12'	10'	2'-4"	2'-0"	1'-0"	4'-2"	4	4'-6"	6	8	2'-6"	8	4	8	3'-10"	32	12	2'-2"	17	4'-6"	7	8	5	4	2'-11"	8	1'-8"	7	95	82			
3	10"	12'	10'	2'-4"	2'-0"	1'-0"	6'-0"	6	6'-4"	8	10	2'-6"	10	4	8	5'-8"	47	16	2'-2"	23	6'-4"	10	8	5	4	2'-11"	8	1'-8"	7	122	111			
4	10"	12'	10'	2'-4"	2'-0"	1'-0"	7'-10"	8	8'-2"	11	12	2'-6"	12	4	8	7'-6"	63	20	2'-2"	29	8'-2"	12	8	5	4	2'-11"	8	1'-8"	7	151	140			
1	15"	12'	10'	2'-7 1/2"	2'-3"	1'-6"	3'-2 1/2"	4	3'-0"	8	6	3'-0"	7	4	1'-10"	3	8	11	2'-2"	19	8	2'-5"	13	3'-7"	5	1'-3"	10	8	3'-0"	16	2'-3"	9	101	75
2	10"	12'	10'	2'-7 1/2"	2'-3"	1'-6"	4'-10 1/2"	4	5'-3"	14	8	5'-3"	14	8	1'-10"	3	8	11	2'-2"	19	8	2'-5"	13	3'-7"	5	1'-3"	10	8	3'-0"	16	2'-3"	9	138	116
3	10"	12'	10'	2'-7 1/2"	2'-3"	1'-6"	7'-8"	6	7'-6"	20	10	7'-6"	20	10	1'-10"	3	8	11	2'-2"	19	8	2'-5"	13	3'-7"	5	1'-3"	10	8	3'-0"	16	2'-3"	9	174	157
4	10"	12'	10'	2'-7 1/2"	2'-3"	1'-6"	9'-4 1/2"	8	9'-9"	26	14	9'-9"	26	14	1'-10"	3	8	11	2'-2"	19	8	2'-5"	13	3'-7"	5	1'-3"	10	8	3'-0"	16	2'-3"	9	214	190