

S	H	APRON QUANTITIES FOR CONCRETE BOX CULVERTS																														H	S						
		SINGLE 90°			SINGLE 75°			SINGLE 60°			SINGLE 45°			DOUBLE 90°			DOUBLE 75°			DOUBLE 60°			DOUBLE 45°			TRIPLE 90°			TRIPLE 75°					TRIPLE 60°			TRIPLE 45°		
		W (FT.)	CU.YDS. CONC.	LBS. STEEL	W (FT.)	CU.YDS. CONC.	LBS. STEEL	W (FT.)	CU.YDS. CONC.	LBS. STEEL	W (FT.)	CU.YDS. CONC.	LBS. STEEL	W (FT.)	CU.YDS. CONC.	LBS. STEEL	W (FT.)	CU.YDS. CONC.	LBS. STEEL	W (FT.)	CU.YDS. CONC.	LBS. STEEL	W (FT.)	CU.YDS. CONC.	LBS. STEEL	W (FT.)	CU.YDS. CONC.	LBS. STEEL	W (FT.)	CU.YDS. CONC.	LBS. STEEL			W (FT.)	CU.YDS. CONC.	LBS. STEEL			
4'	3'	11.133	1.27	108	12.831	1.55	127	12.831	1.55	127	16.715	1.95	157	16.133	2.11	170	17.825	2.45	193	17.825	2.45	193	21.715	2.83	222	21.133	2.95	232	22.821	3.35	260	22.821	3.35	260	26.714	3.71	287	3'	4'
	4'	15.433	2.23	178	17.279	2.58	204	17.279	2.58	204	23.174	3.35	262	20.433	3.33	259	22.275	3.75	290	22.275	3.75	290	28.174	4.49	345	25.433	4.43	339	27.273	4.91	375	27.273	4.91	375	33.174	5.63	429	4'	
	5'	17.033	2.65	209	20.324	3.44	267	20.324	3.44	267	26.244	4.16	320	22.033	3.85	297	25.322	4.78	365	25.322	4.78	365	31.243	5.42	413	27.033	5.05	385	30.321	6.12	463	30.321	6.12	463	36.243	6.69	506	5'	
	6'	18.633	3.09	240	22.109	3.99	307	23.553	4.45	340	29.386	5.06	385	23.633	4.39	335	27.107	5.44	413	28.551	5.98	452	34.386	6.45	488	28.633	5.69	431	32.106	6.88	519	33.550	7.52	563	39.386	7.85	589	6'	
5'	3'	12.133	1.44	121	13.830	1.73	140	13.830	1.73	140	17.715	2.13	170	18.133	2.44	195	19.823	2.81	219	19.823	2.81	219	23.714	3.18	248	24.133	3.45	269	25.820	3.89	299	25.820	3.89	299	29.714	4.24	326	3'	5'
	4'	16.433	2.45	194	18.278	2.82	222	18.278	2.82	222	24.174	3.58	279	22.433	3.77	291	24.274	4.21	324	24.274	4.21	324	30.174	4.95	379	28.433	5.10	388	30.272	5.61	426	30.272	5.61	426	36.174	6.32	479	4'	
	5'	18.083	2.89	227	21.324	3.71	286	21.324	3.71	286	27.244	4.41	339	24.033	4.33	333	27.322	5.32	404	27.322	5.32	404	33.243	5.93	450	30.033	5.77	438	33.320	6.93	522	33.320	6.93	522	39.243	7.45	561	5'	
	6'	19.633	3.35	259	23.108	4.28	328	24.553	4.76	362	30.386	5.33	406	25.633	4.91	373	29.107	6.01	455	30.551	6.60	497	36.386	7.01	528	31.633	6.47	487	35.105	7.75	582	36.549	8.43	631	42.386	8.68	651	6'	
6'	7'	21.233	3.85	297	24.553	4.76	362	27.742	5.91	445	33.653	6.31	476	27.233	5.53	419	30.551	6.60	497	33.740	7.97	596	39.652	8.13	609	33.233	7.20	542	36.549	8.43	631	39.738	10.03	746	45.652	9.95	742	7'	6'
	8'	22.833	4.38	334	26.398	5.41	411	29.988	6.80	510	36.753	7.37	553	28.833	6.17	465	32.396	7.38	554	35.986	9.02	671	42.753	9.34	697	34.833	7.97	596	38.395	9.35	698	41.985	11.24	833	48.753	11.31	841	8'	
	3'	13.133	1.61	133	14.828	1.91	153	14.828	1.91	153	18.715	2.30	183	20.133	2.78	220	21.822	3.17	246	21.822	3.17	246	25.714	3.53	274	27.133	3.95	306	28.818	4.43	339	28.818	4.43	339	32.714	4.77	365	3'	
	4'	17.433	2.67	210	19.278	3.05	238	19.278	3.05	238	25.174	3.81	295	24.433	4.21	324	26.273	4.68	358	26.273	4.68	358	32.174	5.41	412	31.433	5.76	436	33.271	6.30	477	33.271	6.30	477	39.174	7.00	529	4'	
7'	5'	19.033	3.13	244	22.323	3.98	306	22.323	3.98	306	28.244	4.66	358	26.033	4.81	368	29.321	5.86	443	29.321	5.86	443	35.243	6.44	487	33.033	6.49	491	36.320	7.74	581	36.320	7.74	581	42.243	8.21	617	5'	7'
	6'	20.633	3.61	278	24.108	4.57	350	25.552	5.06	384	31.386	5.61	426	27.633	5.43	411	31.06	6.59	498	32.550	7.21	541	38.386	7.57	569	34.633	7.25	545	38.105	8.62	646	39.549	9.35	698	45.586	9.52	712	6'	
	7'	22.233	4.13	317	25.552	5.06	384	28.742	6.25	471	34.653	6.61	499	29.233	6.09	460	32.550	7.21	541	35.379	8.66	646	41.652	8.74	653	36.233	8.04	603	39.549	9.35	698	42.738	11.06	822	48.652	10.86	809	7'	
	8'	23.833	4.68	355	27.397	5.74	434	30.988	7.17	537	37.753	7.70	577	30.833	6.77	509	34.396	8.04	602	37.986	9.76	725	44.753	10.00	745	37.833	8.87	661	41.394	10.33	769	44.985	12.35	914	51.753	12.30	913	8'	
8'	3'	18.433	2.89	227	20.277	3.28	256	20.277	3.28	256	26.174	4.04	312	26.433	4.65	356	28.272	5.14	392	28.272	5.14	392	34.174	5.86	446	34.433	6.42	485	36.270	7.00	528	36.270	7.00	528	42.174	7.68	579	4'	8'
	5'	20.033	3.37	262	23.323	4.24	325	23.323	4.24	325	29.243	4.92	376	28.033	5.29	403	31.321	6.39	483	31.321	6.39	483	37.243	6.94	524	36.033	7.21	544	39.319	8.54	640	39.319	8.54	640	45.243	8.97	672	5'	
	6'	21.633	3.87	297	25.108	4.86	371	26.552	5.37	407	32.386	5.89	447	29.633	5.95	449	33.106	7.17	540	34.550	7.82	586	40.386	8.12	610	37.633	8.03	601	41.105	9.49	709	42.549	10.27	765	48.386	10.36	773	6'	
	7'	23.233	4.41	337	26.552	5.37	407	29.741	6.60	496	35.653	6.92	521	31.233	6.64	501	34.550	7.82	586	37.739	9.34	696	43.652	9.34	698	39.233	8.88	664	42.549	10.27	765	45.737	12.09	896	51.652	11.77	875	7'	
9'	8'	24.833	4.98	378	28.397	6.07	458	31.987	7.54	564	38.753	8.03	601	32.833	7.37	552	36.395	8.69	650	39.985	10.50	779	46.753	10.65	793	40.833	9.77	727	44.394	11.32	841	47.984	13.46	995	54.753	13.28	985	8'	9'
	4'	19.433	3.11	242	21.276	3.51	272	21.276	3.51	272	27.174	4.27	328	28.433	5.10	388	30.272	5.61	426	30.272	5.61	426	36.174	6.32	479	37.433	7.08	533	39.269	7.70	579	39.269	7.70	579	45.174	8.37	629	4'	
	5'	21.033	3.61	280	24.323	4.51	345	24.323	4.51	345	30.243	5.17	395	30.033	5.77	438	33.320	6.93	522	33.320	6.93	522	39.243	7.45	561	39.033	7.93	596	42.319	9.35	699	42.319	9.35	699	48.243	9.73	728	5'	
	6'	22.633	4.13	316	26.107	5.15	392	27.552	5.68	429	33.386	6.17	467	31.633	6.47	487	35.105	7.75	582	36.549	8.43	631	42.386	8.68	651	40.633	8.81	659	44.104	10.36	773	45.548	11.19	832	51.386	11.19	834	6'	
10'	7'	24.233	4.69	358	27.552	5.68	429	30.741	6.94	521	36.653	7.22	543	33.233	7.20	542	36.549	8.43	631	39.738	10.03	746	45.652	9.95	742	42.233	9.72	726	45.548	11.19	832	48.737	13.12	972	54.652	12.68	942	7'	10'
	8'	25.833	5.28	399	29.397	6.40	482	32.987	7.91	591	39.753	8.35	625	34.833	7.97	596	38.395	9.35	698	41.985	11.24	833	48.753	11.31	841	43.833	10.66	793	47.393	12.30	913	50.984	14.57	1076	57.753	14.27	1056	8'	
	9'	27.333	5.86	443	31.142	7.11	535	35.233	8.94	668	43.040	9.64	720	36.333	8.72	652	40.140	10.25	764	44.232	12.51	928	52.040	12.83	954	45.333	11.58	860	49.138	13.38	992	53.231	16.08	1187	61.040	16.03	1186	9'	
	10'	28.833	6.46	486	32.666	7.78	582	37.379	9.98	743	46.141	10.93	815	37.833	9.49	706	41.664	11.07	822	46.378	13.77	1019	55.141	1															