

TABLE OF DIMENSIONS									TOTAL QUANTITIES 4 WINGS / 2 APRONS 2 CURTAIN WALLS												TABLE OF REINFORCING STEEL FOR 4 WINGS, 2 APRONS & 2 CURTAINWALLS																																				PIPE RUNNERS						Add Curb Dimensions		lg
																					BARS H #13M @ 750 LG. @300 C/C		BARS J #19M @ 1200 LG.		BARS O #13M @ 300 C/C			BARS O1 - OX #13M @ 300 C/C			BARS P #13M @ 300 C/C			BARS P1 - Px #13M @ 300 C/C			BARS Q1 - QX #13M @ 300 C/C		BARS R 4 - #13M		BARS S 8 - #13M		BARS U1- UX #13M			BARS V1- Vx #13M @ 300 C/C			8 BARS W			HEADWALL PIPE		WINGWALL PIPE		Gen. Notes 11,12, Add Cl. AA Conc.									
																					NO.	(kg)	NO.	(kg)	NO.	LGTH (m)	WT. (kg)	NO.	AVE. LENGTH (m)	WT. (kg)	NO.	AVE. LENGTH (m)	WT. (kg)	NO.	AVE. LENGTH (m)	WT. (kg)	NO.	LENGTH (m)	WT. (kg)	LENGTH (m)	WT. (kg)	LENGTH (m)	WT. (kg)	LENGTH (m)	WT. (kg)	NO.	AVE. LENGTH (m)	WT. (kg)	NO.	AVE. LENGTH (m)	WT. (kg)	SIZE	LENGTH (m)	WT. (kg)	NO.	L ₀ (m)							NO.	L ₁ (m)	
NO. OF CELLS	CULVERT SIZE	SPAN x RISE (mm x mm)	L (m)	N (m)	V (mm)	W (m)	T A (mm)	X (mm)	Y (m)	CONC. (m³)	STEEL (kg)	PIPE (m)	NO.	(kg)	NO.	(kg)	NO.	LGTH (m)	WT. (kg)	NO.	AVE. LENGTH (m)	WT. (kg)	NO.	AVE. LENGTH (m)	WT. (kg)	NO.	LENGTH (m)	WT. (kg)	LENGTH (m)	WT. (kg)	LENGTH (m)	WT. (kg)	NO.	AVE. LENGTH (m)	WT. (kg)	NO.	AVE. LENGTH (m)	WT. (kg)	NO.	AVE. LENGTH (m)	WT. (kg)	NO.	L ₀ (m)	NO.	L ₁ (m)																				
1	600 x 600	3.353	3.418	150	2.286	150	0	3.048	3.066	284	12.98	12	9	8	21	4	4.063	16	12	2.261	27	4	4.213	17	12	2.413	29	22	1.575	34	2.286	9	3.277	26	8	1.994	16	40	0.953	38	#16M	3.353	42	4	3.429	4	3.245																		
1	900 x 600	3.353	3.418	150	2.591	150	76	0.000	3.418	308	13.72	12	9	8	21	6	4.063	24	12	2.261	27	6	4.213	25	12	2.413	29	22	1.880	41	2.591	10	3.277	26	8	1.994	16	40	0.953	38	#16M	3.353	42	4	3.429	0	0.000																		
1	900 x 900	4.572	4.674	175	3.200	150	457	3.353	5.619	456	23.60	16	12	8	21	6	5.282	32	16	2.870	46	6	5.432	32	16	3.023	48	30	2.184	65	3.200	13	4.521	36	12	2.616	31	56	1.105	62	#16M	4.648	58	2	4.868	4	3.556																		
1	1200 x 600	3.353	3.418	150	2.896	150	610	2.743	3.777	334	18.58	12	9	8	21	8	4.063	32	12	2.261	27	8	4.213	34	12	2.413	29	22	2.184	48	2.896	12	3.277	26	8	1.994	16	40	0.953	38	#16M	3.353	42	2	3.429	4	2.931																		
1	1200 x 900	4.572	4.674	175	3.505	150	229	2.438	6.094	487	29.21	16	12	8	21	8	5.282	42	16	2.870	46	8	5.432	43	16	3.023	48	30	2.489	74	3.505	14	4.521	36	12	2.616	31	56	1.105	62	#16M	4.648	58	4	4.686	4	2.616																		
1	1200 x 1200	5.791	5.925	175	4.115	175	229	3.658	9.916	700	39.26	20	15	8	21	8	6.501	52	20	3.480	69	8	6.651	53	20	3.632	72	38	2.794	106	4.115	16	5.766	46	16	3.239	52	72	1.283	92	#19M	5.944	106	4	5.944	4	3.870																		
1	1500 x 600	3.353	3.418	150	3.200	150	51	0.000	4.136	357	20.57	12	9	8	21	10	4.063	40	12	2.261	27	10	4.213	42	12	2.413	29	22	2.489	54	3.200	13	3.277	26	8	1.994	16	40	0.953	38	#16M	3.353	42	6	3.429	0	0.000																		
1	1500 x 900	4.572	4.674	175	3.810	150	381	3.048	6.698	519	31.72	16	12	8	21	10	5.282	53	16	2.870	46	10	5.432	54	16	3.023	48	30	2.794	83.	3.810	15	4.521	36	12	2.616	31	56	1.105	62	#16M	4.648	58	4	4.686	4	3.245																		
1	1500 x 1200	5.791	5.925	175	4.420	175	51	2.743	10.566	739	47.38	20	15	8	21	10	6.501	65	20	3.480	69	10	6.651	66	20	3.632	72	38	3.099	117	4.420	18	5.766	46	16	3.239	52	72	1.283	92	#19M	5.944	106	6	5.944	4	2.931																		
1	1500 x 1500	7.010	7.182	175	5.029	175	51	3.962	14.527	957	59.94	24	18	8	21	10	7.720	77	24	4.089	98	10	7.870	78	24	4.242	101	46	3.404	156	5.029	20	7.036	56	20	3.861	77	88	1.435	126	#19M	7.239	129	6	7.201	4	4.185																		
1	1800 x 600	3.353	3.418	150	3.505	150	533	2.438	4.503	381	24.18	12	9	8	21	12	4.063	48	12	2.261	27	12	4.213	50	12	2.413	29	22	2.794	61	3.505	14	3.277	26	8	1.994	16	40	0.953	38	#16M	3.353	42	4	3.429	4	2.616																		
1	1800 x 900	4.572	4.674	175	4.115	175	533	3.658	7.798	551	34.23	16	12	8	21	12	5.282	63	16	2.870	46	12	5.432	65	16	3.023	48	30	3.099	92	4.115	16	4.521	36	12	2.616	31	56	1.130	63	#16M	4.648	58	4	4.686	4	3.870																		
1	1800 x 1200	5.791	5.925	175	4.724	175	152	3.353	11.270	778	49.89	20	15	8	21	12	6.501	78	20	3.480	69	12	6.651	79	20	3.632	72	38	3.404	129	4.724	19	5.766	46	16	3.239	52	72	1.283	92	#19M	5.944	106	6	5.944	4	3.556																		
1	1800 x 1500	7.010	7.182	175	5.334	200	51	3.962	16.583	1005	74.35	24	18	8	21	12	7.720	92	24	4.089	98	12	7.870	94	24	4.242	101	46	3.708	170	5.334	21	7.036	56	20	3.861	77	88	1.461	128	#19M	7.239	129	8	7.201	4	4.185																		
1	2100 x 900	4.572	4.674	175	4.420	175	305	2.743	8.479	584	39.84	16	12	8	21	14	5.282	74	16	2.870	46	14	5.432	76	16	3.023	48	30	3.404	101	4.420	18	4.521	36	12	2.616	31	56	1.130	63	#16M	4.648	58	6	4.686	4	2.931																		
1	2100 x 1200	5.791	5.925	175	5.029	175	305	3.962	12.103	816	52.40	20	15	8	21	14	6.501	90	20	3.480	69	14	6.651	93	20	3.632	72	38	3.708	140	5.029	20	5.766	46	16	3.239	52	72	1.283	92	#19M	5.944	106	6	5.944	4	4.185																		
1	2100 x 1500	7.010	7.182	175	5.639	200	51	3.962	17.011	1050	74.35	24	18	8	21	14	7.720	107	24	4.089	98	14	7.870	110	24	4.242	101	46	4.013	183	5.639	22	7.036	56	20	3.861	77	88	1.461	128	#19M	7.239	129	8	7.201	4	4.185																		
1	2400 x 1200	4.572	4.674	175	4.724	175	457	3.353	9.022	615	42.34	16	12	8	21	16	5.282	84	16	2.870	46	16	5.432	86	16	3.023	48	30	3.708	111	4.724	19	4.521	36	12	2.616	31	56	1.130	63	#16M	4.648	58	6	4.686	4	3.556																		
1	2400 x 1500	5.791	5.925	175	5.334	200	76	3.048	13.861	857	60.53	20	15	8	21	16	6.501	103	20	3.480	69	16	6.651	106	20	3.632	72	38	4.013	152	5.334	21	5.766	46	16	3.239	52	72	1.308	94	#19M	5.944	106	8	5.944	4	3.245																		
1	2400 x 1500	7.010	7.182	175	5.944	200	51	3.962	18.410	1097	88.75	24	18	8	21	16	7.720	123	24	4.089	98	16	7.870	125	24	4.242	101	46	4.318	197	5.944	24	7.036	56	20	3.861	77	88	1.461	128	#19M	7.239	129	10	7.201	4	4.185																		
1	3000 x 900	4.572	4.674	175	5.334	200	381	3.048	11.117	678	50.44	16	12	8	21	20	5.282	105	16	2.870	46	20	5.432	108	16	3.023	48	30	4.318	129	5.334	21	4.521	36	12	2.616	31	56	1.130	63	#16M	4.648	58	8	4.686	4	3.239																		
1	3000 x 1200	5.791	5.925	175	5.944	200	51	2.743	15.505	935	71.16	20	15	8	21	20	6.501	129	20	3.480	69	20	6.651	132	20	3.632	72	38	4.623	175	5.944	24	5.766	46	16	3.239	52	72	1.308	94	#19M	5.944	106	10	5.944	4	2.931																		
1	3000 x 1500	7.010	7.182	175	6.553	200	51	3.962	20.314	1188	88.75	24	18	8	21	20	7.720	153	24	4.089	89	20	7.870	156	24	4.242	101	46	4.928	225	6.553	26	7.036	56	20	3.861	77	88	1.461	128	#19M	7.239	129	10	7.201	4	4.185																		

