

33 42 Stormwater Conveyance

33 42 11 – Stormwater Gravity Piping

33 42 11.60 Sewage/Drainage Collection, Concrete Pipe		Daily Crew	Labor- Output	Hours	Unit	Material	2022 Bare Costs		Total	Total Incl O&P
							Labor	Equipment		
0010	SEWAGE/DRAINAGE COLLECTION, CONCRETE PIPE									
0020	Not including excavation or backfill									
1000	Non-reinforced pipe, extra strength, B&S or T&G joints									
1010	6" diameter	B-14	265.04	.181	L.F.	10.80	8.65	1.24	20.69	26
1020	8" diameter		224	.214		11.90	10.25	1.47	23.62	30
1030	10" diameter		216	.222		13.20	10.65	1.52	25.37	32
1040	12" diameter		200	.240		13.70	11.50	1.64	26.84	34
1050	15" diameter		180	.267		19.70	12.75	1.83	34.28	42.50
1060	18" diameter		144	.333		24.50	15.95	2.28	42.73	53
1070	21" diameter		112	.429		26	20.50	2.94	49.44	62
1080	24" diameter		100	.480		30	23	3.29	56.29	70.50
2000	Reinforced culvert, class 3, no gaskets									
2010	12" diameter	B-14	150	.320	L.F.	19.95	15.30	2.19	37.44	47.50
2020	15" diameter		150	.320		24	15.30	2.19	41.49	51.50
2030	18" diameter		132	.364		27.50	17.40	2.49	47.39	59
2035	21" diameter		120	.400		32.50	19.15	2.74	54.39	67
2040	24" diameter		100	.480		40	23	3.29	66.29	81.50
2045	27" diameter	B-13	92	.609	L.F.	45.50	30	23	98.50	120
2050	30" diameter		88	.636		55	31.50	24	110.50	134
2060	36" diameter		72	.778		94	38.50	29	161.50	193
2070	42" diameter	B-13B	68	.824		133	41	33.50	207.50	244
2080	48" diameter		64	.875		177	43.50	35.50	256	298
2085	54" diameter		56	1		181	49.50	40.50	271	320
2090	60" diameter		48	1.167		214	58	47.50	319.50	375
2100	72" diameter		40	1.400		305	69.50	56.50	431	505
2120	84" diameter		32	1.750		500	87	71	658	755
2140	96" diameter		24	2.333		600	116	94.50	810.50	935
2200	With gaskets, class 3, 12" diameter	B-21	168	.167		22	8.75	1.03	31.78	38
2220	15" diameter		160	.175		26	9.20	1.08	36.28	43.50
2230	18" diameter		152	.184		30.50	9.65	1.14	41.29	49
2235	21" diameter		152	.184		35.50	9.65	1.14	46.29	54.50
2240	24" diameter		136	.206		49	10.80	1.27	61.07	71.50
2260	30" diameter	B-13	88	.636		66	31.50	24	121.50	146
2270	36" diameter	"	72	.778		107	38.50	29	174.50	208
2290	48" diameter	B-13B	64	.875		195	43.50	35.50	274	320
2310	72" diameter	"	40	1.400		335	69.50	56.50	461	535
2330	Flared ends, 12" diameter	B-21	31	.903	Eq.	340	47.50	5.60	393.10	450
2340	15" diameter		25	1.120		365	59	6.95	430.95	495
2400	18" diameter		20	1.400		405	73.50	8.65	487.15	565
2420	24" diameter		14	2		485	105	12.40	602.40	705
2440	36" diameter	B-13	10	5.600		1,125	278	209	1,612	1,900
3080	Radius pipe, add to pipe prices, 12" to 60" diameter				L.F.	50%				
3090	Over 60" diameter, add				"	20%				
3500	Reinforced elliptical, 8' lengths, C507 class 3									
3520	14" x 23" inside, round equivalent 18" diameter	B-21	82	.341	L.F.	39.50	17.95	2.11	59.56	73
3524	18" x 29" inside, round equivalent 30" diameter	B-13	58	.966		53.50	48	36	137.50	170
3525	22" x 36" inside, round equivalent 30" diameter		58	.966		71	48	36	155	189
3530	24" x 38" inside, round equivalent 30" diameter		58	.966		71	48	36	155	189
3540	29" x 45" inside, round equivalent 36" diameter		52	1.077		98	53.50	40	191.50	232
3550	38" x 60" inside, round equivalent 48" diameter		38	1.474		198	73	55	326	390
3560	48" x 76" inside, round equivalent 60" diameter		26	2.154		262	107	80.50	449.50	535
3570	58" x 91" inside, round equivalent 72" diameter		22	2.545		460	126	95	681	800