

**WASTEWATER SERVICING INFRASTRUCTURE - Average Unit Prices (Southwestern Region) for 2018**

Nom. Pipe Size	Depth to Invert	Shoring System Cost	Outer pipe Diameter	Excavation		Granular Bed. Surr.		Backfill		Pipe		MH Allowance	Subtotal	General Requirements	Dewatering Allowance	TOTAL (excluding restoration)	Road Restoration	TOTAL (including restoration)
				Vol.	Cost	Vol.	Cost	Vol.	Cost	Cost	Installation Allowance							
(mm)	(m)	(\$/m)	(m)	(m3)	(\$/m)	(m3)	(\$/m)	(m3)	(\$/m)	(\$/m)	(\$/m)	(\$/m)	(\$/m)	(\$/m)	(\$/m)	(\$/m)	(\$/m)	(\$/m)
300	5	15.00	0.445	6.4	44.80	1.0	45.00	5.4	27.00	79.70	7.97	105.00	324.47	39.00	20.00	390	327	720
375	5	15.00	0.533	6.9	48.30	1.1	49.50	5.8	29.00	98.30	9.83	105.00	354.93	43.00	20.00	420	327	750
450	5	15.00	0.622	7.3	51.10	1.2	54.00	6.1	30.50	101.30	10.13	105.00	367.03	44.00	20.00	440	327	760
525	5	15.00	0.711	7.8	54.60	1.4	63.00	6.4	32.00	129.00	12.90	105.00	411.50	49.00	20.00	490	327	810
600	5	15.00	0.800	8.2	57.40	1.5	67.50	6.7	33.50	170.90	17.09	105.00	466.39	56.00	20.00	550	327	870
675	5	20.00	0.889	8.7	60.90	1.6	72.00	7.1	35.50	259.60	25.96	150.00	623.96	75.00	20.00	720	327	1,050
750	5	20.00	0.978	9.2	64.40	1.8	81.00	7.4	37.00	343.50	34.35	150.00	730.25	88.00	20.00	840	327	1,170
825	5	20.00	1.067	9.6	67.20	1.9	85.50	7.7	38.50	443.40	44.34	150.00	848.94	102.00	20.00	980	327	1,300
900	5	20.00	1.156	10.4	72.80	2.1	94.50	8.3	41.50	478.40	47.84	150.00	905.04	109.00	20.00	1,040	327	1,370
975	5	25.00	1.245	10.8	75.60	2.2	99.00	8.6	43.00	549.70	54.97	192.00	1,039.27	125.00	20.00	1,190	327	1,520
1050	5	25.00	1.334	11.3	79.10	2.4	108.00	8.9	44.50	632.00	63.20	192.00	1,143.80	137.00	20.00	1,310	327	1,630
1200	5	25.00	1.511	12.2	85.40	2.7	121.50	9.5	47.50	791.50	79.15	192.00	1,342.05	161.00	20.00	1,530	327	1,860
300	7	15.00	0.445	8.9	62.30	1.0	45.00	7.9	39.50	79.70	79.70	105.00	426.20	51.00	20.00	500	327	830
375	7	15.00	0.533	9.5	66.50	1.1	49.50	8.4	42.00	98.30	98.30	105.00	474.60	57.00	20.00	560	327	880
450	7	15.00	0.622	10.2	71.40	1.2	54.00	9.0	45.00	101.30	101.30	105.00	493.00	59.00	20.00	580	327	900
525	7	15.00	0.711	10.8	75.60	1.4	63.00	9.4	47.00	129.00	129.00	105.00	563.60	68.00	20.00	660	327	980
600	7	15.00	0.800	11.4	79.80	1.5	67.50	9.9	49.50	170.90	170.90	105.00	658.60	79.00	20.00	760	327	1,090
675	7	20.00	0.889	12.1	84.70	1.6	72.00	10.5	52.50	259.60	259.60	150.00	898.40	108.00	20.00	1,030	327	1,360
750	7	20.00	0.978	12.7	88.90	1.8	81.00	10.9	54.50	343.50	343.50	150.00	1,081.40	130.00	20.00	1,240	327	1,560
825	7	20.00	1.067	13.3	93.10	1.9	85.50	11.4	57.00	443.40	443.40	150.00	1,292.40	155.00	20.00	1,470	327	1,800
900	7	20.00	1.156	14.3	100.10	2.1	94.50	12.2	61.00	478.40	478.40	150.00	1,382.40	166.00	20.00	1,570	327	1,900
975	7	25.00	1.245	14.9	104.30	2.2	99.00	12.7	63.50	549.70	549.70	192.00	1,583.20	190.00	20.00	1,800	327	2,130
1050	7	25.00	1.334	15.6	109.20	2.4	108.00	13.2	66.00	632.00	632.00	192.00	1,764.20	212.00	20.00	2,000	327	2,330
1200	7	25.00	1.511	16.9	118.30	2.7	121.50	14.2	71.00	791.50	791.50	192.00	2,110.80	253.00	20.00	2,390	327	2,720

**Notes**

- 1) Cost of excavation \$6/m3
- 2) Pipe Cost taken from 2017 Price list from M-Con Products for 100-D pipe  
Installation Cost 100 % of pipe cost for pipes up to 1200 mm
- 3) Backfill trench \$5/m3 based on replacement of native material and compaction
- 4) Cost of granular bedding \$45/m3
- 5) Manhole Spacing 90 m
- 6) Service Laterals excluded from this estimate, and to be paid directly by benefitting landowner
- 7) Restoration cost \$3/m2 for topsoil & seed only
- 8) Cost for Dewatering Allowance \$20/m
- 9) 12% Allowance for General Requirements (Bonding, Insurance, Layout, Temporary Facilities, etc.) included in construction cost
- 10) Engineering and Contingency not included

## RESTORATION UNIT COST FOR SEWERS

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Nom. Pipe Size	Outer Pipe Dia.	Depth To Invert	Surface Area of Trench	Topsoil+ Seed Cost @ \$7.5/m <sup>2</sup>	Topsoil+ Sod Cost @ \$10.00/m <sup>2</sup>	Granular Restoration Base & Sub-base		Asphalt including Granular Base	
						Local Street @ \$18.0/m <sup>2</sup>	Collector Street @ \$28.8/m <sup>2</sup>	Local Street @ \$51.8/m <sup>2</sup>	Collector Street @ \$63.8/m <sup>2</sup>
mm	m	m	m <sup>2</sup> /m	\$/m	\$/m	\$/m	\$/m	\$/m	\$/m
300	0.445	5	4.0	30.2	40.0	115.2	115.2	257.3	326.9
375	0.533	5	4.0	30.2	40.0	115.2	115.2	257.3	326.9
450	0.622	5	4.0	30.2	40.0	115.2	115.2	257.3	326.9
525	0.711	5	4.0	30.2	40.0	115.2	115.2	257.3	326.9
600	0.800	5	4.0	30.2	40.0	115.2	115.2	257.3	326.9
675	0.889	5	4.0	30.2	40.0	115.2	115.2	257.3	326.9
750	0.978	5	4.0	30.2	40.0	115.2	115.2	257.3	326.9
825	1.067	5	4.0	30.2	40.0	115.2	115.2	257.3	326.9
900	1.156	5	4.0	30.2	40.0	115.2	115.2	257.3	326.9
975	1.245	5	4.0	30.2	40.0	115.2	115.2	257.3	326.9
105	1.334	5	4.0	30.2	40.0	115.2	115.2	257.3	326.9
1200	1.511	5	4.0	30.2	40.0	115.2	115.2	257.3	326.9

## UNIT COST FOR DIFFERENT LAYERS

Item	Local Street		Collector Street		Remarks
		\$/m <sup>2</sup>		\$/m <sup>2</sup>	
Subbase	0 mm "B"	0.0	00 mm "B"	0.0	"B" @ \$15/tonne (2.4 t/m <sup>3</sup> )
Base	600 mm "A"	28.8	600 mm "A"	28.8	"A" @ \$20/tonne (2.4 t/m <sup>3</sup> )
<b>Subtotal</b>		<b>28.8</b>		<b>28.8</b>	
Binder	60 HL4	13.2	100 HL4	27.0	"HL4" @ \$110/tonne (2.45 t/m <sup>3</sup> )
Surface	40 HL3	9.8	50 HL3	13.5	"HL3" @ \$110/tonne (2.45 t/m <sup>3</sup> )
<b>Total</b>		<b>51.8</b>		<b>69.2</b>	
Curb (one side)		50.0		50.0	