

CIVE 3010: WRSD
Cost Estimation

Item	Description	Specification	Unit	Rate	Qty	Cost (\$AU)
1.0	Roadworks					
1.1	Compaction of subgrade		m3	\$ 2.45	1111	2,721.95
1.2	Base/Subbase		m3	\$ 20.00	1111	22,220.00
1.3	Asphalt	25mm thick 500-1000sqm (6.5m wide x 1020m length)	m2	\$ 21.50	1111	23,886.50
1.4	Kerb and gutter	Cast in-situ 600*225mm	m	\$ 95.30	2040	194,412.00
1.5	Spoon Drain		lin m	\$ 139.00	100	13,900.00
1.6	Paving to entryways	Assumed 10m2 per allotment	m2	\$ 13.50	550	7,425.00
1.7	Footpath	1.55m wide	m2	\$ 560.00	1000	560,000.00
1.8	Kerb Ramps		no.	\$ 30.00	14	420.00
1.9	Driveway Crossovers	One(assumed2m*8m*100mm)/allotment	no.	\$ 20.00	55	1,100.00
1.10	Line marking	75mm wide	lin m	\$ 1.85	2040	3,774.00
						Sub-total (excl GST) \$ 829,859.45
2.0	Stormwater Drainage					
2.1	Concrete Pipes					
2.1.1	Supply & install 375mm diam RCP RRR Class 2	Reinforced Concrete Pipe Ruber Ring Joint	m	\$ 138	502	69,276.00
2.1.2	Supply & install 600mm diam RCP RRR Class 2	Reinforced Concrete Pipe Ruber Ring Joint	m	\$ 225	671.1	150,997.50
2.1.3	Supply & install 750mm diam RCP RRR Class 2	Reinforced Concrete Pipe Ruber Ring Joint	m	\$ 325	70.5	22,912.50
2.2	Pits & Outlet					
2.2.1	Supply & install SEP 600x600x600	Side Entry Pits 600x600x600 in-situ Concrete	no.	\$ 930	25	23,250.00
2.2.2	Supply & install SEP 900x900x900	Side Entry Pits 900x900x900 in-situ Concrete	no.	\$ 1,825	6	10,950.00
2.3	Junctions					
2.3.1	Supply & install JB 600 x 600	Junction Box 600x600mm	no.	\$ 930	3	2,790.00
2.3.2	Supply & install JB 900 x 900	Junction Box 600x600mm	no.	\$ 1,825	1	1,825.00
						Sub-total (excl GST) \$ 282,001.00
3.0	Sewer Drainage					
3.1	PVC Pipes					
3.1.1	100mm diam uPVC sewer grade (property connection)	100mm SN6 rubber ring joint	m	\$ 28.00	5200	145,600.00
3.1.2	150mm diam uPVC sewer grade (property connection)	150mm SN8 rubber ring joint	m	\$ 50.00	450	22,500.00
3.1.3	150mm diam uPVC sewer grade (Main)	150mm SN8 rubber ring joint	m	\$ 50.00	1697.82	84,891.00
3.2	PVC allotment connccctions					
3.2.1	- Single	100mm*100mm	no.	\$ 30.00	49	1,470.00
3.2.2	- Double	150mm*150mm	no.	\$ 50.00	3	150.00
3.3	Junctions & Bends					
3.3.1	Junction	150*150mm plain45deg	no.	\$ 112.00	7	784.00
3.3.2	Bend	150*150mm plain90deg	no.	\$ 124.00	8	992.00
3.4	Sundries					
3.4.1	Manhole	900*900mm Cover 1200mm	no.	\$ 2,100.00	3	6,300.00
3.4.2	Maintenance shaft	150mm diam	no.	\$ 71.00	30	2,130.00
3.4.3	Inspection Opening	150mm	no.	\$ 64.00	55	3,520.00
3.5	Sewer Pump Station	10L/s pump	no.	\$ 5,000.00	1	5,000.00
						Sub-total (excl GST) \$ 273,337.00
4.0	Water Supply					
4.1	PVC Pipes					
4.1.1	600mm diam uPVC PN21 near reserivior		m	\$ 205.00	128	26,240.00
4.1.2	300mm diam uPVC PN22 main pipe		m	\$ 100.00	91	9,100.00
4.1.3	250mm diam uPVC PN22 main pipe		m	\$ 80.00	534	42,720.00
4.1.4	150mm diam uPVC PN20 sub-main	PVC PN20 Rober Connection	m	\$ 36.00	506	18,216.00
4.1.5	20mm diam uPVC PN23 property connection	PN18 20mmdia incl. fittings	m	\$ 15.00	1447	21,705.00
4.2	Junctions & Bends					
4.2.1	Junction (main)	250*250mm	no.	\$ 280.00	35	9,800.00
4.2.2	Junction (sub-main)	150*150mm	no.	\$ 40.00	27	1,080.00
4.2.3	Bend (main)	250*250mm	no.	\$ 130.00	11	1,430.00
4.2.4	Bend (sub-main)	150*150mm	no.	\$ 36.00	13	468.00
4.3	Sundries					
4.3.1	PVC allotment connections	20mm dia	no.	\$ 30.00	55	1,650.00
4.3.2	Fire hydrant		no.	\$ 1,155.00	6	6,930.00
4.3.3	Fire plug		no.	\$ 775.00	6	4,650.00
4.3.4	Isolation valve		no.	\$ 2,700.00	68	183,600.00
						Sub-total (excl GST) \$ 327,589.00
5.0	Earthworks					
5.1	Excavation					
5.1.1	Excavation for detention basin	Sand	m3	\$ 18.50	1200	22,200.00
5.2	Trench					
5.2.1	Trench & Backfill for Stormwater Pipe	300mm wide 1000mm total depth (sand)	m	\$ 19.25	1243.6	23,939.30
5.2.2	Trench & Backfill for Sewer Pipe	150mm wide 500mm total depth (sand)	m	\$ 4.45	7347.82	32,697.80
5.2.3	Trench & Backfill for Water Supply Pipe	150-250mm wide 500-1000mm total depth (sand)	m	\$ 12.25	2706	33,148.50
5.3	Cut & Fill					
		Balanced Cut and Fill	m3	\$ 0.08	0.80	0.06
						Sub-total (excl GST) \$ 111,985.66
						Grand Total (excl GST) \$ 1,824,772.11