

Group	Item	Description	Quantity	Unit	Rate (\$)	Indexation	Cost (\$)	Comments
Siteworks and Earthworks	1.1	Site Preparation	7199	m2	4.96	1.29	\$ 46,064.19	Sum of pavement, paths and
	1.2	Earthworks	1986	m3	40.52	1.29	\$ 103,788.16	Excavation depths 735mm for primary arterial pavements, 535mm collector arterial pavements, 200mm traffic island and paths
Road Pavement	2.1	Primary Arterial Pavement	625	m2	186.26	1.29	\$ 150,172.13	
	2.2	Collector Arterial Pavement	2107	m2	112.44	1.29	\$ 305,615.29	
	2.3	Subgrade Preparation	522	m2	16.16	1.29	\$ 10,884.26	20% of pavement area
	2.3.1	Subgrade Improvement						
	2.3.2	Interface Pavement Works						
	2.3.3	Asphalt overlay on ex. Road						
Concrete Works	2.4	Raised Priority Crossing - asphalt	60	m2	78	1.06	\$ 4,957.51	Hot bituminous concrete including tack coat: 50mm thick multiplied by 3 (Rawlinsons 2023)
	2.5	Raised Priority Crossing - surface treatment	60	m2	21.5	1.06	\$ 1,366.49	Thermoplastic marking of bitumen paving (Rawlinsons 2023)
Drainage	3.1	Kerb and Channel	820	m	60.9	1.29	\$ 64,420.02	
	3.2	Traffic Island	700	m2	84.07	1.29	\$ 75,950.93	
	3.3	SUP/footpath	889	m2	73.63	1.29	\$ 84,439.62	
	3.4	Cycle Path	468	m2	91.94	1.29	\$ 55,506.02	
Traffic	4.1	Drainage Pipe 300mm CR Bfilled	55	m	197.96	1.29	\$ 14,045.26	25% of benchmark item (one leg)
	4.2	Drainage Pipe 375mm CR Bfilled	0	m	282.96	1.29	\$ -	25% of benchmark item (one leg)
	4.3	Drainage Pipe 450mm CR Bfilled	114	m	334.33	1.29	\$ 49,166.57	25% of benchmark item (one leg)
	4.4	Drainage Pipe 525mm CR Bfilled	0	m	448.03	1.29	\$ -	25% of benchmark item (one leg)
	4.5	Drainage - Pits	7	No.	2806.1	1.29	\$ 25,339.08	25% of benchmark item (one leg)
	4.6	Drainage - Subsoil Drainage	820	m	43.4	1.29	\$ 45,908.52	Based on total kerb length
Landscape	4.7	Drainage - Pavement interface Subsoil Drainage						
	5.1	Traffic Signals	1	Item/ per leg	128786.34	1.29	\$ 166,134.38	
	6.1	Trees	13	No.	363.01	1.29	\$ 6,087.68	25% of benchmark item (one leg)
Street Lighting	6.2	Landscaping	2410	m2	25.16	1.29	\$ 78,219.92	
	6.3	Topsoil Seeding	2410	m2	8.44	1.29	\$ 26,239.12	
Utilities	7.1	Street Lighting	1	Item/ per leg	55617.74	1.29	\$ 71,746.88	
	8.1	Allowance for utility services protection	1	Item	30000	1.00	\$ 30,000.00	
Miscellaneous	8.2	Relocation of Ex. Telstra						
	9.1	Linemarking	3200	m2 of pavement	4.09	1.29	\$ 16,883.52	
	9.2	Regulatory Signage	4	Item	380.39	1.29	\$ 1,962.81	25% of benchmark item (one leg)
	9.4	Landscape Maintenance (intersections)	0.25	Item	88131.43	1.29	\$ 28,422.39	25% of benchmark item (one leg)
	9.6	Tactile Pavers (Hazard only)	6	Item	319.78	1.29	\$ 2,475.10	25% of benchmark item (one leg)
Other	10.1	Demolition of existing concrete kerbs, footpath, islands	104	m3	230	1.06	\$ 25,370.06	Break up and remove reinforced concrete in open excavations (Rawlinsons 2023)
	10.2	Dewatering dam	1960	m2	72.5	1.06	\$ 150,526.13	Dewatering - deep system (to reduce water level by over 1000mm) (Rawlinsons 2023)
	10.3	Additional earthworks to fill dam	3920	m3	40.52	1.29	\$ 204,901.54	Assumed 2m depth of fill
	10.4	Level 1 Geotech Supervision & Report						
Delivery	11.1	Council Fees	1	%	3.25	-	\$ 60,014.29	
	11.2	VicRoads Fees	1	%	1	-	\$ 18,465.94	
	11.3	Traffic Management	1	%	10	-	\$ 184,659.36	
	11.4	Environmental Management	1	%	0.5	-	\$ 9,232.97	
	11.5	Survey/Design	1	%	5	-	\$ 92,329.68	
	11.6	Supervision and Project Management	1	%	9	-	\$ 166,193.42	
	11.7	Site Establishment	1	%	2.5	-	\$ 46,164.84	
	11.8	Contingency	1	%	15	-	\$ 276,989.04	
Total		Excluding Delivery					\$ 1,846,593.59	
		Including Delivery					\$ 2,700,643.13	

Marshal Review - 9 October 2024				Rates and quantities updated in red
Quantity	Unit	Rate (\$)	Cost (\$)	Comments
7199	m2	8.00	\$ 57,592.00	
2333	m3	60.00	\$ 139,982.40	Area and rate updated
1305	m2	250.00	\$ 326,250.00	Area and rate updated
1799	m2	160.00	\$ 287,840.00	Area and rate updated
3104	m2	25.00	\$ 77,600.00	100% of pavement area
3104	m2	55.00	\$ 170,720.00	New item
330	m2	250.00	\$ 82,500.00	New item
587	m2	50.00	\$ 29,350.00	New item
			\$ 6,000.00	
60	m2	100	\$ 6,000.00	
60	m2	30.0	\$ 1,800.00	
820	m	75.0	\$ 61,500.00	
700	m2	100.00	\$ 70,000.00	
889	m2	80.00	\$ 71,120.00	
468	m2	80.00	\$ 37,440.00	
60	m	300.00	\$ 18,000.00	Quantity and rate updated
170	m	350.00	\$ 59,500.00	Quantity and rate updated
160	m	475.00	\$ 76,000.00	Quantity and rate updated
0	m	550.00	\$ 0.00	
8	No.	3500.0	\$ 28,000.00	Quantity and rate updated
820	m	50.0	\$ 41,000.00	
165	m	60.0	\$ 9,900.00	New item -along interface of ex. Pavement
1	Item/ per leg	170000.00	\$ 170,000.00	
13	No.	500.00	\$ 6,500.00	
2410	m2	33.00	\$ 79,530.00	
2410	m2	35.00	\$ 84,350.00	Also includes importation of topsoil
1	Item/ per leg	150000.00	\$ 150,000.00	Item updated
1	Item	30000	\$ 30,000.00	
1	Item	200000	\$ 200,000.00	New item
1	m2 of pavement	30000.00	\$ 30,000.00	Rate updated
4	Item	380.39	\$ 1,962.81	
0.25	Item	88131.43	\$ 28,422.39	
6	Item	319.78	\$ 2,475.10	
1100	m2	80	\$ 88,000.00	Revised to be an area of concrete/kerb/pavement to be demolished and disposed offsite
18000	m2	15.0	\$ 270,000.00	Area has been updated to be closer to actual area as per Nearmap review.
54000	m3	25.00	\$ 1,350,000.00	Area of 1.8ha applied with 3.0m depth. Rate lowered due to economy of effort
54000	m3	1.50	\$ 81,000.00	New item
1	%	3.25	\$ 134,658.38	
1	%	5	\$ 207,166.74	DTP fees for a project of this scale would be closer to 5%
1	%	12	\$ 497,200.16	Traffic Management costs would be in the vicinity of \$500,000 for the duration/scope of this project
1	%	1.0	\$ 41,433.35	Increased
1	%	5	\$ 207,166.74	
1	%	9	\$ 372,900.12	
1	%	3.5	\$ 145,016.71	Increased
1	%	10	\$ 414,333.47	Reduced this to 10%
			\$ 4,143,334.70	
			\$ 6,163,210.37	

The estimated construction costs provided in this document have been issued to the Victorian Planning Authority for budgeting purposes only for the Infrastructure Contributions Plan. Rates are based on VPA Benchmark Infrastructure Report 11 April 2019 indexed to 1 July 2024 (based on VPA indexation rates) and Rawlinsons indexed to March 2024 (based on Australian Bureau of Statistics Producer Price Index for Road and Bridge Construction - Victoria). No allowance has been included for utility relocation works, geotechnical testing or WSUD. An allowance for utility services protection has been provided at intersections. Costing for VDP cable crossing items were prepared by Spiire. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.