APPENDIX

B

ROAD PROJECT COSTINGS

Road Length (m)
180

Appendix B	
Description:	RD-01 - Secondary Undivided Interim Arterial Road (Coburns Rd to E-W Arterial, 180m)
Civil Component Number:	RD-01

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Siteworks/ Earthworks	Site Preperation	6120	m2	3.68	22521.60	4.96	30355.20
	Earthworks	458	m3	34.07	15604.06	40.52	18558.16
Road Pavement	Primary Arterial Pavement	0	m2	169.62	0.00	186.26	0.00
	Secondary Arterial Pavement	720	m2	127.01	91447.20	133.78	96321.60
	Collector Arterial Pavement	0	m2	105.15	0.00	112.44	0.00
	Subgrade Preparation	144	m2	14.22	2047.68	16.16	2327.04
	Pavement Rehab	1260	m2	51.58	64990.80	59.32	74743.20
	Pavement Other	0	m2	0.00	0.00	0.00	0.00
Concrete Works	Kerb and Channel	720	m	54.81	39463.20	60.90	43848.00
	Cycle Path	0	m2	76.59	0.00	91.94	0.00
	SUP/ Footpath	1080	m2	63.51	68590.80	73.63	79520.40
	Traffic Island	0	m2	77.60	0.00	84.07	0.00
Drainage	Drainage Pipe 300mm CR Bfilled	0	m	179.85	0.00	197.96	0.00
	Drainage Pipe 375mm CR Bfilled	168	m	259.10	43528.80	282.96	47537.28
	Drainage Pipe 450mm CR Bfilled	90	m	299.43	26948.70	334.33	30089.70
	Drainage Pipe 525mm CR Bfilled	0	m	403.86	0.00	448.03	0.00
	Drainage - pits	9	No.	2565.39	23088.51	2806.10	25254.90
	Drainage – Sub-soil drainage	720	m	33.88	24393.60	43.40	31248.00
	Drainage Culvert	0	No.	0.00	0.00	0.00	0.00
Traffic signals	Traffic Signals (all inclusive)	0	Item/ Per Leg	109730.28	0.00	128786.34	0.00
Landscape	Tree Planting	12	No.	303.34	3640.08	363.01	4356.12
	Landscaping	3060	m2	21.61	66126.60	25.16	76989.60
	Topsoil Seeding	3060	m2	7.21	22062.60	8.44	25826.40
Street Lighting	Street Lighting - Road	180	m	216.34	38941.20	225.67	40620.60
	Street Lighting - Intersections	0	Item/ Per Leg	48468.93	0.00	55617.74	0.00
Misc.	Regulatory Signage	5	Item	338.43	1692.15	380.39	1901.95
	Line marking	720	m2 of Pavement	3.11	2239.20	4.09	2944.80
	Landscape maintenance (intersections)	0	Item	71344.66	0.00	88131.43	0.00
	Landscape maintenance (roads)	3060	m2 of l'scape	2.90	8874.00	2.96	9057.60
	Tactile Pavers (Hazard only)	0	Item	292.43	0.00	319.78	0.00
Other	Rock excavation	92	m3	100.00	9200.00	115.00	10580.00
	Telecom/power relocation allowance	0	m	1300.00	0.00	1495.00	0.00
	Water/gas relocation allowance	0	m	300.00	0.00	345.00	0.00
	Service proving fee	1	Item	3000.00	3000.00	3450.00	3450.00
Delivery	Council Fees	1	%	3.25	18798.03	3.25	21304.74
	VicRoads Fees	1	%	1.00	5784.01	1.00	6555.31
	Traffic Management	1	%	5.00	28920.04	5.00	32776.53
	Environmental Management	1	%	0.50	2892.00	0.50	3277.65
	Surveying and Design	1	%	5.00	28920.04	5.00	32776.53
	Supervision and Project management	1	%	9.00	52056.07	9.00	58997.75
	Site Establishment	1	%	2.50	14460.02	2.50	16388.26
	Contingency	1	%	15.00	86760.12	15.00	98329.58
Total - (2018) rates	Excluding Delivery				**578,401**		**655,531**
	Including Delivery				**816,991**		**925,937**
Total - (2021) rates	Excluding Delivery				**630,457**		**714,529**
	Including Delivery				**890,521**		**1,009,272**

Project: TOOLERN PSP
Date: 16/03/2022
Rates Index Date: March 2019

Issue : D
STATUS: ISSUE

Road Length (m)
528

Appendix B	
Description:	RD-02 - Secondary Divided Interim Arterial Road (E-W Arterial, 528m)
Civil Component Number:	RD-02

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Siteworks/ Earthworks	Site Preperation	17952	m2	3.68	66063.36	4.96	89041.92
	Earthworks	6036	m3	34.07	205646.52	40.52	244578.72
Road Pavement	Primary Arterial Pavement	0	m2	169.62	0.00	186.26	0.00
	Secondary Arterial Pavement	9504	m2	127.01	1207103.04	133.78	1271445.12
	Collector Arterial Pavement	0	m2	105.15	0.00	112.44	0.00
	Subgrade Preparation	1901	m2	14.22	27032.22	16.16	30720.16
	Pavement Rehab	0	m2	51.58	0.00	59.32	0.00
	Pavement Other	0	m2	0.00	0.00	0.00	0.00
Concrete Works	Kerb and Channel	2112	m	54.81	115758.72	60.90	128620.80
	Cycle Path	0	m2	76.59	0.00	91.94	0.00
	SUP/ Footpath	3168	m2	63.51	201199.68	73.63	233259.84
	Traffic Island	0	m2	77.60	0.00	84.07	0.00
Drainage	Drainage Pipe 300mm CR Bfilled	0	m	179.85	0.00	197.96	0.00
	Drainage Pipe 375mm CR Bfilled	524	m	259.10	135768.40	282.96	148271.04
	Drainage Pipe 450mm CR Bfilled	264	m	299.43	79049.52	334.33	88263.12
	Drainage Pipe 525mm CR Bfilled	0	m	403.86	0.00	448.03	0.00
	Drainage - pits	30	No.	2565.39	76961.70	2806.10	84183.00
	Drainage – Sub-soil drainage	2112	m	33.88	71554.56	43.40	91660.80
	Drainage Culvert	0	No.	0.00	0.00	0.00	0.00
Traffic signals	Traffic Signals (all inclusive)	0	Item/ Per Leg	109730.28	0.00	128786.34	0.00
Landscape	Tree Planting	35	No.	303.34	10616.90	363.01	12705.35
	Landscaping	5280	m2	21.61	114100.80	25.16	132844.80
	Topsoil Seeding	5280	m2	7.21	38068.80	8.44	44563.20
Street Lighting	Street Lighting - Road	528	m	216.34	114227.52	225.67	119153.76
	Street Lighting - Intersections	0	Item/ Per Leg	48468.93	0.00	55617.74	0.00
Misc.	Regulatory Signage	12	Item	338.43	4061.16	380.39	4564.68
	Line marking	9504	m2 of Pavement	3.11	29557.44	4.09	38871.36
	Landscape maintenance (intersections)	0	Item	71344.66	0.00	88131.43	0.00
	Landscape maintenance (roads)	5280	m2 of l'scape	2.90	15312.00	2.96	15628.80
	Tactile Pavers (Hazard only)	0	Item	292.43	0.00	319.78	0.00
Other	Rock excavation	1208	m3	100.00	120800.00	115.00	138920.00
	Telecom/power relocation allowance	0	m	1300.00	0.00	1495.00	0.00
	Water/gas relocation allowance	0	m	300.00	0.00	345.00	0.00
	Service proving fee	1	Item	3000.00	3000.00	3450.00	3450.00
Delivery	Council Fees	1	%	3.25	85666.18	3.25	94924.26
	VicRoads Fees	1	%	1.00	26358.82	1.00	29207.46
	Traffic Management	1	%	5.00	131794.12	5.00	146037.32
	Environmental Management	1	%	0.50	13179.41	0.50	14603.73
	Surveying and Design	1	%	5.00	131794.12	5.00	146037.32
	Supervision and Project management	1	%	9.00	237229.41	9.00	262867.18
	Site Establishment	1	%	2.50	65897.06	2.50	73018.66
	Contingency	1	%	15.00	395382.35	15.00	438111.97
Total - (2018) rates	Excluding Delivery				**2,635,882**		**2,920,746**
	Including Delivery				**3,723,184**		**4,125,554**
Total - (2021) rates	Excluding Delivery				**2,873,112**		**3,183,614**
	Including Delivery				**4,058,271**		**4,496,855**

Road Length (m)
339

Appendix B	
Description:	RD-03 - Secondary Divided Interim Arterial Road (Exford Road, 339m)
Civil Component Number:	RD-03

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Siteworks/ Earthworks	Site Preperation	11526	m2	3.68	42415.68	4.96	57168.96
	Earthworks	862	m3	34.07	29368.34	40.52	34928.24
Road Pavement	Primary Arterial Pavement	0	m2	169.62	0.00	186.26	0.00
	Secondary Arterial Pavement	1356	m2	127.01	172225.56	133.78	181405.68
	Collector Arterial Pavement	0	m2	105.15	0.00	112.44	0.00
	Subgrade Preparation	272	m2	14.22	3867.84	16.16	4395.52
	Pavement Rehab	2373	m2	51.58	122399.34	59.32	140766.36
	Pavement Other	0	m2	0.00	0.00	0.00	0.00
Concrete Works	Kerb and Channel	1356	m	54.81	74322.36	60.90	82580.40
	Cycle Path	0	m2	76.59	0.00	91.94	0.00
	SUP/ Footpath	1865	m2	63.51	118446.15	73.63	137319.95
	Traffic Island	0	m2	77.60	0.00	84.07	0.00
Drainage	Drainage Pipe 300mm CR Bfilled	0	m	179.85	0.00	197.96	0.00
	Drainage Pipe 375mm CR Bfilled	326	m	259.10	84466.60	282.96	92244.96
	Drainage Pipe 450mm CR Bfilled	170	m	299.43	50903.10	334.33	56836.10
	Drainage Pipe 525mm CR Bfilled	0	m	403.86	0.00	448.03	0.00
	Drainage - pits	18	No.	2565.39	46177.02	2806.10	50509.80
	Drainage – Sub-soil drainage	1356	m	33.88	45941.28	43.40	58850.40
	Drainage Culvert	0	No.	0.00	0.00	0.00	0.00
Traffic signals	Traffic Signals (all inclusive)	0	Item/ Per Leg	109730.28	0.00	128786.34	0.00
Landscape	Tree Planting	22	No.	303.34	6673.48	363.01	7986.22
	Landscaping	5933	m2	21.61	128212.13	25.16	149274.28
	Topsoil Seeding	5933	m2	7.21	42776.93	8.44	50074.52
Street Lighting	Street Lighting - Road	339	m	216.34	73339.26	225.67	76502.13
	Street Lighting - Intersections	0	Item/ Per Leg	48468.93	0.00	55617.74	0.00
Misc.	Regulatory Signage	8	Item	338.43	2707.44	380.39	3043.12
	Line marking	1356	m2 of Pavement	3.11	4217.16	4.09	5546.04
	Landscape maintenance (intersections)	0	Item	71344.66	0.00	88131.43	0.00
	Landscape maintenance (roads)	5933	m2 of l'scape	2.90	17205.70	2.96	17561.68
	Tactile Pavers (Hazard only)	0	Item	292.43	0.00	319.78	0.00
Other	Rock excavation	173	m3	100.00	17300.00	115.00	19895.00
	Telecom/power relocation allowance	25	m	1300.00	32500.00	1495.00	37375.00
	Water/gas relocation allowance	6	m	300.00	1800.00	345.00	2070.00
	Service proving fee	1	Item	3000.00	3000.00	3450.00	3450.00
Delivery	Council Fees	1	%	3.25	36408.62	3.25	41267.99
	VicRoads Fees	1	%	1.00	11202.65	1.00	12697.84
	Traffic Management	1	%	5.00	56013.27	5.00	63489.22
	Environmental Management	1	%	0.50	5601.33	0.50	6348.92
	Surveying and Design	1	%	5.00	56013.27	5.00	63489.22
	Supervision and Project management	1	%	9.00	100823.88	9.00	114280.59
	Site Establishment	1	%	2.50	28006.63	2.50	31744.61
	Contingency	1	%	15.00	168039.81	15.00	190467.65
Total - (2018) rates	Excluding Delivery				**1,120,265**		**1,269,784**
	Including Delivery				**1,582,375**		**1,793,570**
Total - (2021) rates	Excluding Delivery				**1,221,090**		**1,384,065**
	Including Delivery				**1,724,790**		**1,954,992**

Road Length (m)
1857

Appendix B	
Description:	RD-04 - Secondary Undivided Interim Arterial Road (Exford Road, 1857m)
Civil Component Number:	RD-04

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Siteworks/ Earthworks	Site Preperation	63138	m2	3.68	232347.84	4.96	313164.48
	Earthworks	4717	m3	34.07	160708.19	40.52	191132.84
Road Pavement	Primary Arterial Pavement	0	m2	169.62	0.00	186.26	0.00
	Secondary Arterial Pavement	7428	m2	127.01	943430.28	133.78	993717.84
	Collector Arterial Pavement	0	m2	105.15	0.00	112.44	0.00
	Subgrade Preparation	1486	m2	14.22	21130.92	16.16	24013.76
	Pavement Rehab	12999	m2	51.58	670488.42	59.32	771100.68
	Pavement Other	0	m2	0.00	0.00	0.00	0.00
Concrete Works	Kerb and Channel	7428	m	54.81	407128.68	60.90	452365.20
	Cycle Path	0	m2	76.59	0.00	91.94	0.00
	SUP/ Footpath	11142	m2	63.51	707628.42	73.63	820385.46
	Traffic Island	0	m2	77.60	0.00	84.07	0.00
Drainage	Drainage Pipe 300mm CR Bfilled	0	m	179.85	0.00	197.96	0.00
	Drainage Pipe 375mm CR Bfilled	1669	m	259.10	432437.90	282.96	472260.24
	Drainage Pipe 450mm CR Bfilled	929	m	299.43	278170.47	334.33	310592.57
	Drainage Pipe 525mm CR Bfilled	0	m	403.86	0.00	448.03	0.00
	Drainage - pits	111	No.	2565.39	284758.29	2806.10	311477.10
	Drainage – Sub-soil drainage	7428	m	33.88	251660.64	43.40	322375.20
	Drainage Culvert	0	No.	0.00	0.00	0.00	0.00
Traffic signals	Traffic Signals (all inclusive)	0	Item/ Per Leg	109730.28	0.00	128786.34	0.00
Landscape	Tree Planting	123	No.	303.34	37310.82	363.01	44650.23
	Landscaping	31569	m2	21.61	682206.09	25.16	794276.04
	Topsoil Seeding	31569	m2	7.21	227612.49	8.44	266442.36
Street Lighting	Street Lighting - Road	1857	m	216.34	401743.38	225.67	419069.19
	Street Lighting - Intersections	0	Item/ Per Leg	48468.93	0.00	55617.74	0.00
Misc.	Regulatory Signage	42	Item	338.43	14214.06	380.39	15976.38
	Line marking	7428	m2 of Pavement	3.11	23101.08	4.09	30380.52
	Landscape maintenance (intersections)	0	Item	71344.66	0.00	88131.43	0.00
	Landscape maintenance (roads)	31569	m2 of l'scape	2.90	91550.10	2.96	93444.24
	Tactile Pavers (Hazard only)	0	Item	292.43	0.00	319.78	0.00
Other	Rock excavation	944	m3	100.00	94400.00	115.00	108560.00
	Telecom/power relocation allowance	587	m	1300.00	763100.00	1495.00	877565.00
	Water/gas relocation allowance	1924	m	300.00	577200.00	345.00	663780.00
	Service proving fee	1	Item	20000.00	20000.00	23000.00	23000.00
	Light pole relocation allowance	4	Item	10000.00	40000.00	11500.00	46000.00
	Power pole relocation allowance	3	Item	40000.00	120000.00	46000.00	138000.00
Delivery	Council Fees	1	%	3.25	243175.66	3.25	276371.20
	VicRoads Fees	1	%	1.00	74823.28	1.00	85037.29
	Traffic Management	1	%	5.00	374116.40	5.00	425186.47
	Environmental Management	1	%	0.50	37411.64	0.50	42518.65
	Surveying and Design	1	%	5.00	374116.40	5.00	425186.47
	Supervision and Project management	1	%	9.00	673409.53	9.00	765335.64
	Site Establishment	1	%	2.50	187058.20	2.50	212593.23
	Contingency	1	%	15.00	1122349.21	15.00	1275559.40
Total - (2018) rates	Excluding Delivery				**7,482,328**		**8,503,729**
	Including Delivery				**10,568,788**		**12,011,518**
Total - (2021) rates	Excluding Delivery				**8,155,738**		**9,269,065**
	Including Delivery				**11,519,980**		**13,092,554**

Project: TOOLERN PSP
Date: 16/03/2022
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Issue : D
STATUS: ISSUE

Road Length (m)
95

Appendix B	
Description:	RD-05 - Secondary Divided Interim Arterial Road (Toolern Road [Exford to Toolern Ck], 136m)
Civil Component Number:	RD-05

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Siteworks/ Earthworks	Site Preperation	3230	m2	3.68	11886.40	4.96	16020.80
	Earthworks	664	m3	34.07	22622.48	40.52	26905.28
Road Pavement	Primary Arterial Pavement	0	m2	169.62	0.00	186.26	0.00
	Secondary Arterial Pavement	1045	m2	127.01	132725.45	133.78	139800.10
	Collector Arterial Pavement	0	m2	105.15	0.00	112.44	0.00
	Subgrade Preparation	209	m2	14.22	2971.98	16.16	3377.44
	Pavement Rehab	0	m2	51.58	0.00	59.32	0.00
	Pavement Other	0	m2	0.00	0.00	0.00	0.00
Concrete Works	Kerb and Channel	380	m	54.81	20827.80	60.90	23142.00
	Cycle Path	0	m2	76.59	0.00	91.94	0.00
	SUP/ Footpath	570	m2	63.51	36200.70	73.63	41969.10
	Traffic Island	0	m2	77.60	0.00	84.07	0.00
Drainage	Drainage Pipe 300mm CR Bfilled	0	m	179.85	0.00	197.96	0.00
	Drainage Pipe 375mm CR Bfilled	74	m	259.10	19173.40	282.96	20939.04
	Drainage Pipe 450mm CR Bfilled	48	m	299.43	14372.64	334.33	16047.84
	Drainage Pipe 525mm CR Bfilled	0	m	403.86	0.00	448.03	0.00
	Drainage - pits	3	No.	2565.39	7696.17	2806.10	8418.30
	Drainage – Sub-soil drainage	380	m	33.88	12874.40	43.40	16492.00
	Drainage Culvert	0	No.	0.00	0.00	0.00	0.00
Traffic signals	Traffic Signals (all inclusive)	0	Item/ Per Leg	109730.28	0.00	128786.34	0.00
Landscape	Tree Planting	6	No.	303.34	1820.04	363.01	2178.06
	Landscaping	1615	m2	21.61	34900.15	25.16	40633.40
	Topsoil Seeding	1615	m2	7.21	11644.15	8.44	13630.60
Street Lighting	Street Lighting - Road	95	m	216.34	20552.30	225.67	21438.65
	Street Lighting - Intersections	0	Item/ Per Leg	48468.93	0.00	55617.74	0.00
Misc.	Regulatory Signage	3	Item	338.43	1015.29	380.39	1141.17
	Line marking	1045	m2 of Pavement	3.11	3249.95	4.09	4274.05
	Landscape maintenance (intersections)	0	Item	71344.66	0.00	88131.43	0.00
	Landscape maintenance (roads)	1615	m2 of l'scape	2.90	4683.50	2.96	4780.40
	Tactile Pavers (Hazard only)	0	Item	292.43	0.00	319.78	0.00
Other	Rock excavation	133	m3	100.00	13300.00	115.00	15295.00
	Telecom/power relocation allowance	0	m	1300.00	0.00	1495.00	0.00
	Water/gas relocation allowance	0	m	300.00	0.00	345.00	0.00
	Service proving fee	0	Item	3000.00	0.00	3450.00	0.00
Delivery	Council Fees	1	%	3.25	12106.80	3.25	13535.70
	VicRoads Fees	1	%	1.00	3725.17	1.00	4164.83
	Traffic Management	1	%	5.00	18625.84	5.00	20824.16
	Environmental Management	1	%	0.50	1862.58	0.50	2082.42
	Surveying and Design	1	%	5.00	18625.84	5.00	20824.16
	Supervision and Project management	1	%	9.00	33526.51	9.00	37483.49
	Site Establishment	1	%	2.50	9312.92	2.50	10412.08
	Contingency	1	%	15.00	55877.52	15.00	62472.48
Total - (2018) rates	Excluding Delivery				**372,517**		**416,483**
	Including Delivery				**526,180**		**588,283**
Total - (2021) rates	Excluding Delivery				**406,044**		**453,967**
	Including Delivery				**573,537**		**641,228**

Project: TOOLERN PSP
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Issue : D
STATUS: ISSUE

Road Length (m)
970

Appendix B	
Description:	RD-06 - Secondary Divided Interim Arterial Road (Toolern Road [Toolern Ck to Ferris], 1011m)
Civil Component Number:	RD-06

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Siteworks/ Earthworks	Site Preperation	32980	m2	3.68	121366.40	4.96	163580.80
	Earthworks	6776	m3	34.07	230858.32	40.52	274563.52
Road Pavement	Primary Arterial Pavement	0	m2	169.62	0.00	186.26	0.00
	Secondary Arterial Pavement	10670	m2	127.01	1355196.70	133.78	1427432.60
	Collector Arterial Pavement	0	m2	105.15	0.00	112.44	0.00
	Subgrade Preparation	2134	m2	14.22	30345.48	16.16	34485.44
	Pavement Rehab	0	m2	51.58	0.00	59.32	0.00
	Pavement Other	0	m2	0.00	0.00	0.00	0.00
Concrete Works	Kerb and Channel	3880	m	54.81	212662.80	60.90	236292.00
	Cycle Path	0	m2	76.59	0.00	91.94	0.00
	SUP/ Footpath	5820	m2	63.51	369628.20	73.63	428526.60
	Traffic Island	0	m2	77.60	0.00	84.07	0.00
Drainage	Drainage Pipe 300mm CR Bfilled	0	m	179.85	0.00	197.96	0.00
	Drainage Pipe 375mm CR Bfilled	979	m	259.10	253658.90	282.96	277017.84
	Drainage Pipe 450mm CR Bfilled	485	m	299.43	145223.55	334.33	162150.05
	Drainage Pipe 525mm CR Bfilled	0	m	403.86	0.00	448.03	0.00
	Drainage - pits	57	No.	2565.39	146227.23	2806.10	159947.70
	Drainage – Sub-soil drainage	3880	m	33.88	131454.40	43.40	168392.00
	Drainage Culvert	0	No.	0.00	0.00	0.00	0.00
Traffic signals	Traffic Signals (all inclusive)	0	Item/ Per Leg	109730.28	0.00	128786.34	0.00
Landscape	Tree Planting	64	No.	303.34	19413.76	363.01	23232.64
	Landscaping	16490	m2	21.61	356348.90	25.16	414888.40
	Topsoil Seeding	16490	m2	7.21	118892.90	8.44	139175.60
Street Lighting	Street Lighting - Road	970	m	216.34	209849.80	225.67	218899.90
	Street Lighting - Intersections	0	Item/ Per Leg	48468.93	0.00	55617.74	0.00
Misc.	Regulatory Signage	22	Item	338.43	7445.46	380.39	8368.58
	Line marking	10670	m2 of Pavement	3.11	33183.70	4.09	43640.30
	Landscape maintenance (intersections)	0	Item	71344.66	0.00	88131.43	0.00
	Landscape maintenance (roads)	16490	m2 of l'scape	2.90	47821.00	2.96	48810.40
	Tactile Pavers (Hazard only)	0	Item	292.43	0.00	319.78	0.00
Other	Rock excavation	1356	m3	100.00	135600.00	115.00	155940.00
	Telecom/power relocation allowance	0	m	1300.00	0.00	1495.00	0.00
	Water/gas relocation allowance	0	m	300.00	0.00	345.00	0.00
	Service proving fee	0	Item	3000.00	0.00	3450.00	0.00
Delivery	Council Fees	1	%	3.25	127568.27	3.25	142523.69
	VicRoads Fees	1	%	1.00	39251.78	1.00	43853.44
	Traffic Management	1	%	5.00	196258.88	5.00	219267.22
	Environmental Management	1	%	0.50	19625.89	0.50	21926.72
	Surveying and Design	1	%	5.00	196258.88	5.00	219267.22
	Supervision and Project management	1	%	9.00	353265.98	9.00	394680.99
	Site Establishment	1	%	2.50	98129.44	2.50	109633.61
	Contingency	1	%	15.00	588776.63	15.00	657801.66
Total - (2018) rates	Excluding Delivery				**3,925,178**		**4,385,344**
	Including Delivery				**5,544,313**		**6,194,299**
Total - (2021) rates	Excluding Delivery				**4,278,444**		**4,780,026**
	Including Delivery				**6,043,302**		**6,751,787**

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Issue : D
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Road Length (m)
806

Appendix B	
Description:	RD-07 - Secondary Divided Interim Arterial Road (Toolern Road [Ferris to Mt Cottrell], 806m)
Civil Component Number:	RD-07

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Siteworks/ Earthworks	Site Preperation	27404	m2	3.68	100846.72	4.96	135923.84
	Earthworks	5630	m3	34.07	191814.10	40.52	228127.60
Road Pavement	Primary Arterial Pavement	0	m2	169.62	0.00	186.26	0.00
	Secondary Arterial Pavement	8866	m2	127.01	1126070.66	133.78	1186093.48
	Collector Arterial Pavement	0	m2	105.15	0.00	112.44	0.00
	Subgrade Preparation	1774	m2	14.22	25226.28	16.16	28667.84
	Pavement Rehab	0	m2	51.58	0.00	59.32	0.00
	Pavement Other	0	m2	0.00	0.00	0.00	0.00
Concrete Works	Kerb and Channel	3224	m	54.81	176707.44	60.90	196341.60
	Cycle Path	0	m2	76.59	0.00	91.94	0.00
	SUP/ Footpath	4836	m2	63.51	307134.36	73.63	356074.68
	Traffic Island	0	m2	77.60	0.00	84.07	0.00
Drainage	Drainage Pipe 300mm CR Bfilled	0	m	179.85	0.00	197.96	0.00
	Drainage Pipe 375mm CR Bfilled	819	m	259.10	212202.90	282.96	231744.24
	Drainage Pipe 450mm CR Bfilled	403	m	299.43	120670.29	334.33	134734.99
	Drainage Pipe 525mm CR Bfilled	0	m	403.86	0.00	448.03	0.00
	Drainage - pits	48	No.	2565.39	123138.72	2806.10	134692.80
	Drainage – Sub-soil drainage	3224	m	33.88	109229.12	43.40	139921.60
	Drainage Culvert	0	No.	0.00	0.00	0.00	0.00
Traffic signals	Traffic Signals (all inclusive)	0	Item/ Per Leg	109730.28	0.00	128786.34	0.00
Landscape	Tree Planting	53	No.	303.34	16077.02	363.01	19239.53
	Landscaping	13702	m2	21.61	296100.22	25.16	344742.32
	Topsoil Seeding	13702	m2	7.21	98791.42	8.44	115644.88
Street Lighting	Street Lighting - Road	806	m	216.34	174370.04	225.67	181890.02
	Street Lighting - Intersections	0	Item/ Per Leg	48468.93	0.00	55617.74	0.00
Misc.	Regulatory Signage	19	Item	338.43	6430.17	380.39	7227.41
	Line marking	8866	m2 of Pavement	3.11	27573.26	4.09	36261.94
	Landscape maintenance (intersections)	0	Item	71344.66	0.00	88131.43	0.00
	Landscape maintenance (roads)	13702	m2 of l'scape	2.90	39735.80	2.96	40557.92
	Tactile Pavers (Hazard only)	0	Item	292.43	0.00	319.78	0.00
Other	Rock excavation	1126	m3	100.00	112600.00	115.00	129490.00
	Telecom/power relocation allowance	0	m	1300.00	0.00	1495.00	0.00
	Water/gas relocation allowance	0	m	300.00	0.00	345.00	0.00
	Service proving fee	0	Item	3000.00	0.00	3450.00	0.00
Delivery	Council Fees	1	%	3.25	106103.35	3.25	118539.74
	VicRoads Fees	1	%	1.00	32647.19	1.00	36473.77
	Traffic Management	1	%	5.00	163235.93	5.00	182368.83
	Environmental Management	1	%	0.50	16323.59	0.50	18236.88
	Surveying and Design	1	%	5.00	163235.93	5.00	182368.83
	Supervision and Project management	1	%	9.00	293824.67	9.00	328263.90
	Site Establishment	1	%	2.50	81617.96	2.50	91184.42
	Contingency	1	%	15.00	489707.78	15.00	547106.50
Total - (2018) rates	Excluding Delivery				**3,264,719**		**3,647,377**
	Including Delivery				**4,611,415**		**5,151,920**
Total - (2021) rates	Excluding Delivery				**3,558,544**		**3,975,641**
	Including Delivery				**5,026,443**		**5,615,593**

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Road Length (m)
927

Appendix B	
Description:	RD-08 - Secondary Interim Arterial Road (Toolern Road [Mt Cottrell to Paynes], 927m)
Civil Component Number:	RD-08

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Siteworks/ Earthworks	Site Preperation	31518	m2	3.68	115986.24	4.96	156329.28
	Earthworks	6476	m3	34.07	220637.32	40.52	262407.52
Road Pavement	Primary Arterial Pavement	0	m2	169.62	0.00	186.26	0.00
	Secondary Arterial Pavement	10197	m2	127.01	1295120.97	133.78	1364154.66
	Collector Arterial Pavement	0	m2	105.15	0.00	112.44	0.00
	Subgrade Preparation	2040	m2	14.22	29008.80	16.16	32966.40
	Pavement Rehab	0	m2	51.58	0.00	59.32	0.00
	Pavement Other	0	m2	0.00	0.00	0.00	0.00
Concrete Works	Kerb and Channel	3708	m	54.81	203235.48	60.90	225817.20
	Cycle Path	0	m2	76.59	0.00	91.94	0.00
	SUP/ Footpath	5562	m2	63.51	353242.62	73.63	409530.06
	Traffic Island	0	m2	77.60	0.00	84.07	0.00
Drainage	Drainage Pipe 300mm CR Bfilled	0	m	179.85	0.00	197.96	0.00
	Drainage Pipe 375mm CR Bfilled	981	m	259.10	254177.10	282.96	277583.76
	Drainage Pipe 450mm CR Bfilled	927	m	299.43	277571.61	334.33	309923.91
	Drainage Pipe 525mm CR Bfilled	0	m	403.86	0.00	448.03	0.00
	Drainage - pits	148	No.	2565.39	379677.72	2806.10	415302.80
	Drainage – Sub-soil drainage	3708	m	33.88	125627.04	43.40	160927.20
	Drainage Culvert	0	No.	0.00	0.00	0.00	0.00
Traffic signals	Traffic Signals (all inclusive)	0	Item/ Per Leg	109730.28	0.00	128786.34	0.00
Landscape	Tree Planting	61	No.	303.34	18503.74	363.01	22143.61
	Landscaping	15759	m2	21.61	340551.99	25.16	396496.44
	Topsoil Seeding	15759	m2	7.21	113622.39	8.44	133005.96
Street Lighting	Street Lighting - Road	927	m	216.34	200547.18	225.67	209196.09
	Street Lighting - Intersections	0	Item/ Per Leg	48468.93	0.00	55617.74	0.00
Misc.	Regulatory Signage	21	Item	338.43	7107.03	380.39	7988.19
	Line marking	10197	m2 of Pavement	3.11	31712.67	4.09	41705.73
	Landscape maintenance (intersections)	0	Item	71344.66	0.00	88131.43	0.00
	Landscape maintenance (roads)	15759	m2 of l'scape	2.90	45701.10	2.96	46646.64
	Tactile Pavers (Hazard only)	0	Item	292.43	0.00	319.78	0.00
Other	Rock excavation	1296	m3	100.00	129600.00	115.00	149040.00
	Telecom/power relocation allowance	0	m	1300.00	0.00	1495.00	0.00
	Water/gas relocation allowance	0	m	300.00	0.00	345.00	0.00
	Service proving fee	0	Item	3000.00	0.00	3450.00	0.00
Delivery	Council Fees	1	%	3.25	134603.01	3.25	150187.88
	VicRoads Fees	1	%	1.00	41416.31	1.00	46211.65
	Traffic Management	1	%	5.00	207081.55	5.00	231058.27
	Environmental Management	1	%	0.50	20708.16	0.50	23105.83
	Surveying and Design	1	%	5.00	207081.55	5.00	231058.27
	Supervision and Project management	1	%	9.00	372746.79	9.00	415904.89
	Site Establishment	1	%	2.50	103540.78	2.50	115529.14
	Contingency	1	%	15.00	621244.65	15.00	693174.82
Total - (2018) rates	Excluding Delivery				**4,141,631**		**4,621,165**
	Including Delivery				**5,850,054**		**6,527,396**
Total - (2021) rates	Excluding Delivery				**4,514,378**		**5,037,071**
	Including Delivery				**6,376,559**		**7,114,863**

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Issue : D
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Road Length (m)
878

Appendix B	
Description:	RD-11 - Primary Interim Arterial Road (Mt Cottrell Road [UGB to Toolern Rd to Rail], 678m)
Civil Component Number:	RD-11

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Siteworks/ Earthworks	Site Preperation	35998	m2	3.68	132472.64	4.96	178550.08
	Earthworks	8789	m3	34.07	299441.23	40.52	356130.28
Road Pavement	Primary Arterial Pavement	12292	m2	169.62	2084969.04	186.26	2289507.92
	Secondary Arterial Pavement	0	m2	127.01	0.00	133.78	0.00
	Collector Arterial Pavement	0	m2	105.15	0.00	112.44	0.00
	Subgrade Preparation	2459	m2	14.22	34966.98	16.16	39737.44
	Pavement Rehab	0	m2	51.58	0.00	59.32	0.00
	Pavement Other	0	m2	0.00	0.00	0.00	0.00
Concrete Works	Kerb and Channel	3512	m	54.81	192492.72	60.90	213880.80
	Cycle Path	0	m2	76.59	0.00	91.94	0.00
	SUP/ Footpath	6585	m2	63.51	418213.35	73.63	484853.55
	Traffic Island	0	m2	77.60	0.00	84.07	0.00
Drainage	Drainage Pipe 300mm CR Bfilled	0	m	179.85	0.00	197.96	0.00
	Drainage Pipe 375mm CR Bfilled	929	m	259.10	240703.90	282.96	262869.84
	Drainage Pipe 450mm CR Bfilled	878	m	299.43	262899.54	334.33	293541.74
	Drainage Pipe 525mm CR Bfilled	0	m	403.86	0.00	448.03	0.00
	Drainage - pits	140	No.	2565.39	359154.60	2806.10	392854.00
	Drainage – Sub-soil drainage	3512	m	33.88	118986.56	43.40	152420.80
	Drainage Culvert	0	No.	0.00	0.00	0.00	0.00
Traffic signals	Traffic Signals (all inclusive)	0	Item/ Per Leg	109730.28	0.00	128786.34	0.00
Landscape	Tree Planting	58	No.	303.34	17593.72	363.01	21054.58
	Landscaping	17121	m2	21.61	369984.81	25.16	430764.36
	Topsoil Seeding	17121	m2	7.21	123442.41	8.44	144501.24
Street Lighting	Street Lighting - Road	878	m	216.34	189946.52	225.67	198138.26
	Street Lighting - Intersections	0	Item/ Per Leg	48468.93	0.00	55617.74	0.00
Misc.	Regulatory Signage	20	Item	338.43	6768.60	380.39	7607.80
	Line marking	12292	m2 of Pavement	3.11	38228.12	4.09	50274.28
	Landscape maintenance (intersections)	0	Item	71344.66	0.00	88131.43	0.00
	Landscape maintenance (roads)	17121	m2 of l'scape	2.90	49650.90	2.96	50678.16
	Tactile Pavers (Hazard only)	0	Item	292.43	0.00	319.78	0.00
Other	Rock excavation	1758	m3	100.00	175800.00	115.00	202170.00
	Telecom/power relocation allowance	0	m	1300.00	0.00	1495.00	0.00
	Water/gas relocation allowance	0	m	300.00	0.00	345.00	0.00
	Service proving fee	0	Item	3000.00	0.00	3450.00	0.00
	Power pole relocation allowance	6	Item	40000.00	240000.00	46000.00	276000.00
Delivery	Council Fees	1	%	3.25	174060.76	3.25	196479.89
	VicRoads Fees	1	%	1.00	53557.16	1.00	60455.35
	Traffic Management	1	%	5.00	267785.78	5.00	302276.76
	Environmental Management	1	%	0.50	26778.58	0.50	30227.68
	Surveying and Design	1	%	5.00	267785.78	5.00	302276.76
	Supervision and Project management	1	%	9.00	482014.41	9.00	544098.16
	Site Establishment	1	%	2.50	133892.89	2.50	151138.38
	Contingency	1	%	15.00	803357.35	15.00	906830.27
Total - (2018) rates	Excluding Delivery				**5,355,716**		**6,045,535**
	Including Delivery				**7,564,948**		**8,539,318**
Total - (2021) rates	Excluding Delivery				**5,837,731**		**6,589,634**
	Including Delivery				**8,245,795**		**9,307,858**

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Road Length (m)
312

Appendix B	
Description:	RD-12 - Primary Interim Arterial Road (Mt Cottrell Road [Western Fwy to Rail], 312m)
Civil Component Number:	RD-12

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Siteworks/ Earthworks	Site Preperation	12792	m2	3.68	47074.56	4.96	63448.32
	Earthworks	3124	m3	34.07	106434.68	40.52	126584.48
Road Pavement	Primary Arterial Pavement	4368	m2	169.62	740900.16	186.26	813583.68
	Secondary Arterial Pavement	0	m2	127.01	0.00	133.78	0.00
	Collector Arterial Pavement	0	m2	105.15	0.00	112.44	0.00
	Subgrade Preparation	874	m2	14.22	12428.28	16.16	14123.84
	Pavement Rehab	0	m2	51.58	0.00	59.32	0.00
	Pavement Other	0	m2	0.00	0.00	0.00	0.00
Concrete Works	Kerb and Channel	2496	m	54.81	136805.76	60.90	152006.40
	Cycle Path	936	m2	76.59	71688.24	91.94	86055.84
	SUP/ Footpath	1560	m2	63.51	99075.60	73.63	114862.80
	Traffic Island	936	m2	77.60	72633.60	84.07	78689.52
Drainage	Drainage Pipe 300mm CR Bfilled	0	m	179.85	0.00	197.96	0.00
	Drainage Pipe 375mm CR Bfilled	330	m	259.10	85503.00	282.96	93376.80
	Drainage Pipe 450mm CR Bfilled	312	m	299.43	93422.16	334.33	104310.96
	Drainage Pipe 525mm CR Bfilled	0	m	403.86	0.00	448.03	0.00
	Drainage - pits	48	No.	2565.39	123138.72	2806.10	134692.80
	Drainage – Sub-soil drainage	2496	m	33.88	84564.48	43.40	108326.40
	Drainage Culvert	0	No.	0.00	0.00	0.00	0.00
Traffic signals	Traffic Signals (all inclusive)	0	Item/ Per Leg	109730.28	0.00	128786.34	0.00
Landscape	Tree Planting	60	No.	303.34	18200.40	363.01	21780.60
	Landscaping	4992	m2	21.61	107877.12	25.16	125598.72
	Topsoil Seeding	4992	m2	7.21	35992.32	8.44	42132.48
Street Lighting	Street Lighting - Road	312	m	216.34	67498.08	225.67	70409.04
	Street Lighting - Intersections	0	Item/ Per Leg	48468.93	0.00	55617.74	0.00
Misc.	Regulatory Signage	8	Item	338.43	2707.44	380.39	3043.12
	Line marking	4368	m2 of Pavement	3.11	13584.48	4.09	17865.12
	Landscape maintenance (intersections)	0	Item	71344.66	0.00	88131.43	0.00
	Landscape maintenance (roads)	4992	m2 of l'scape	2.90	14476.80	2.96	14776.32
	Tactile Pavers (Hazard only)	0	Item	292.43	0.00	319.78	0.00
Other	Rock excavation	625	m3	100.00	62500.00	115.00	71875.00
	Telecom/power relocation allowance	335	m	1300.00	435500.00	1495.00	500825.00
	Water/gas relocation allowance	0	m	300.00	0.00	345.00	0.00
	Service proving fee	0	Item	3000.00	0.00	3450.00	0.00
	Power pole relocation allowance	3	Item	40000.00	120000.00	46000.00	138000.00
Delivery	Council Fees	1	%	3.25	82940.19	3.25	94131.94
	VicRoads Fees	1	%	1.00	25520.06	1.00	28963.67
	Traffic Management	1	%	5.00	127600.29	5.00	144818.36
	Environmental Management	1	%	0.50	12760.03	0.50	14481.84
	Surveying and Design	1	%	5.00	127600.29	5.00	144818.36
	Supervision and Project management	1	%	9.00	229680.53	9.00	260673.05
	Site Establishment	1	%	2.50	63800.15	2.50	72409.18
	Contingency	1	%	15.00	382800.88	15.00	434455.09
Total - (2018) rates	Excluding Delivery				**2,552,006**		**2,896,367**
	Including Delivery				**3,604,708**		**4,091,119**
Total - (2021) rates	Excluding Delivery				**2,781,687**		**3,157,041**
	Including Delivery				**3,929,133**		**4,459,320**

Road Length (m)
438

Appendix B	
Description:	RD-14 - Primary Interim Arterial Road (Shogaki Drive West [Mt Cottrell to Ferris], 438m)
Civil Component Number:	RD-14

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Siteworks/ Earthworks	Site Preperation	19710	m2	3.68	72532.80	4.96	97761.60
	Earthworks	2193	m3	34.07	74715.51	40.52	88860.36
Road Pavement	Primary Arterial Pavement	3066	m2	169.62	520054.92	186.26	571073.16
	Secondary Arterial Pavement	0	m2	127.01	0.00	133.78	0.00
	Collector Arterial Pavement	0	m2	105.15	0.00	112.44	0.00
	Subgrade Preparation	614	m2	14.22	8731.08	16.16	9922.24
	Pavement Rehab	3066	m2	51.58	158144.28	59.32	181875.12
	Pavement Other	0	m2	0.00	0.00	0.00	0.00
Concrete Works	Kerb and Channel	1752	m	54.81	96027.12	60.90	106696.80
	Cycle Path	0	m2	76.59	0.00	91.94	0.00
	SUP/ Footpath	3942	m2	63.51	250356.42	73.63	290249.46
	Traffic Island	0	m2	77.60	0.00	84.07	0.00
Drainage	Drainage Pipe 300mm CR Bfilled	0	m	179.85	0.00	197.96	0.00
	Drainage Pipe 375mm CR Bfilled	462	m	259.10	119704.20	282.96	130727.52
	Drainage Pipe 450mm CR Bfilled	438	m	299.43	131150.34	334.33	146436.54
	Drainage Pipe 525mm CR Bfilled	0	m	403.86	0.00	448.03	0.00
	Drainage - pits	68	No.	2565.39	174446.52	2806.10	190814.80
	Drainage – Sub-soil drainage	1752	m	33.88	59357.76	43.40	76036.80
	Drainage Culvert	0	No.	0.00	0.00	0.00	0.00
Traffic signals	Traffic Signals (all inclusive)	0	Item/ Per Leg	109730.28	0.00	128786.34	0.00
Landscape	Tree Planting	29	No.	303.34	8796.86	363.01	10527.29
	Landscaping	9636	m2	21.61	208233.96	25.16	242441.76
	Topsoil Seeding	9636	m2	7.21	69475.56	8.44	81327.84
Street Lighting	Street Lighting - Road	438	m	216.34	94756.92	225.67	98843.46
	Street Lighting - Intersections	0	Item/ Per Leg	48468.93	0.00	55617.74	0.00
Misc.	Regulatory Signage	10	Item	338.43	3384.30	380.39	3803.90
	Line marking	3066	m2 of Pavement	3.11	9535.26	4.09	12539.94
	Landscape maintenance (intersections)	0	Item	71344.66	0.00	88131.43	0.00
	Landscape maintenance (roads)	9636	m2 of l'scape	2.90	27944.40	2.96	28522.56
	Tactile Pavers (Hazard only)	0	Item	292.43	0.00	319.78	0.00
Other	Rock excavation	439	m3	100.00	43900.00	115.00	50485.00
	Telecom/power relocation allowance	383	m	1300.00	497900.00	1495.00	572585.00
	Water/gas relocation allowance	876	m	300.00	262800.00	345.00	302220.00
	Service proving fee	0	Item	3000.00	0.00	3450.00	0.00
Delivery	Council Fees	1	%	3.25	93988.32	3.25	107046.91
	VicRoads Fees	1	%	1.00	28919.48	1.00	32937.51
	Traffic Management	1	%	5.00	144597.41	5.00	164687.56
	Environmental Management	1	%	0.50	14459.74	0.50	16468.76
	Surveying and Design	1	%	5.00	144597.41	5.00	164687.56
	Supervision and Project management	1	%	9.00	260275.34	9.00	296437.60
	Site Establishment	1	%	2.50	72298.71	2.50	82343.78
	Contingency	1	%	15.00	433792.23	15.00	494062.67
Total - (2018) rates	Excluding Delivery				**2,891,948**		**3,293,751**
	Including Delivery				**4,084,877**		**4,652,423**
Total - (2021) rates	Excluding Delivery				**3,152,224**		**3,590,189**
	Including Delivery				**4,452,516**		**5,071,142**

Road Length (m)
350

Appendix B	
Description:	RD-15 - Primary Ultimate Arterial Road (Ferris Road [Western Hwy to Shogaki], 350m)
Civil Component Number:	RD-15

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Siteworks/ Earthworks	Site Preperation	14630	m2	3.68	53838.40	4.96	72564.80
	Earthworks	3504	m3	34.07	119381.28	40.52	141982.08
Road Pavement	Primary Arterial Pavement	4900	m2	169.62	831138.00	186.26	912674.00
	Secondary Arterial Pavement	0	m2	127.01	0.00	133.78	0.00
	Collector Arterial Pavement	0	m2	105.15	0.00	112.44	0.00
	Subgrade Preparation	980	m2	14.22	13935.60	16.16	15836.80
	Pavement Rehab	2450	m2	51.58	126371.00	59.32	145334.00
	Pavement Other	0	m2	0.00	0.00	0.00	0.00
Concrete Works	Kerb and Channel	1050	m	54.81	57550.50	60.90	63945.00
	Cycle Path	0	m2	76.59	0.00	91.94	0.00
	SUP/ Footpath	1050	m2	63.51	66685.50	73.63	77311.50
	Traffic Island	0	m2	77.60	0.00	84.07	0.00
Drainage	Drainage Pipe 300mm CR Bfilled	0	m	179.85	0.00	197.96	0.00
	Drainage Pipe 375mm CR Bfilled	371	m	259.10	96126.10	282.96	104978.16
	Drainage Pipe 450mm CR Bfilled	350	m	299.43	104800.50	334.33	117015.50
	Drainage Pipe 525mm CR Bfilled	0	m	403.86	0.00	448.03	0.00
	Drainage - pits	56	No.	2565.39	143661.84	2806.10	157141.60
	Drainage – Sub-soil drainage	1050	m	33.88	35574.00	43.40	45570.00
	Drainage Culvert	0	No.	0.00	0.00	0.00	0.00
Traffic signals	Traffic Signals (all inclusive)	0	Item/ Per Leg	109730.28	0.00	128786.34	0.00
Landscape	Tree Planting	23	No.	303.34	6976.82	363.01	8349.23
	Landscaping	4130	m2	21.61	89249.30	25.16	103910.80
	Topsoil Seeding	4130	m2	7.21	29777.30	8.44	34857.20
Street Lighting	Street Lighting - Road	350	m	216.34	75719.00	225.67	78984.50
	Street Lighting - Intersections	0	Item/ Per Leg	48468.93	0.00	55617.74	0.00
Misc.	Regulatory Signage	8	Item	338.43	2707.44	380.39	3043.12
	Line marking	4900	m2 of Pavement	3.11	15239.00	4.09	20041.00
	Landscape maintenance (intersections)	0	Item	71344.66	0.00	88131.43	0.00
	Landscape maintenance (roads)	4130	m2 of l'scape	2.90	11977.00	2.96	12224.80
	Tactile Pavers (Hazard only)	0	Item	292.43	0.00	319.78	0.00
Other	Rock excavation	701	m3	100.00	70100.00	115.00	80615.00
	Telecom/power relocation allowance	323	m	1300.00	419900.00	1495.00	482885.00
	Water/gas relocation allowance	85	m	300.00	25500.00	345.00	29325.00
	Service proving fee	0	Item	3000.00	0.00	3450.00	0.00
	Kerb Removal	323	m	60.00	19380.00	69.00	22287.00
	Earthen mound removal	8320	m3	34.07	283462.40	40.52	337126.40
	Sawcut pavement tie ins, new kerb & channel, etc.	323	m	14.00	4522.00	16.10	5200.30
Delivery	Council Fees	1	%	3.25	87866.12	3.25	99879.09
	VicRoads Fees	1	%	1.00	27035.73	1.00	30732.03
	Traffic Management	1	%	5.00	135178.65	5.00	153660.14
	Environmental Management	1	%	0.50	13517.86	0.50	15366.01
	Surveying and Design	1	%	5.00	135178.65	5.00	153660.14
	Supervision and Project management	1	%	9.00	243321.57	9.00	276588.25
	Site Establishment	1	%	2.50	67589.32	2.50	76830.07
	Contingency	1	%	15.00	405535.95	15.00	460980.42
Total - (2018) rates	Excluding Delivery				**2,703,573**		**3,073,203**
	Including Delivery				**3,818,797**		**4,340,899**
Total - (2021) rates	Excluding Delivery				**2,946,895**		**3,349,792**
	Including Delivery				**4,162,489**		**4,731,581**

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Issue : D
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Road Length (m)
69

Appendix B	
Description:	RD-16 - Secondary Divided Interim Arterial Road (Ferris Road [Shogaki to Rail], 69m)
Civil Component Number:	RD-16

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Siteworks/ Earthworks	Site Preperation	2622	m2	3.68	9648.96	4.96	13005.12
	Earthworks	482	m3	34.07	16421.74	40.52	19530.64
Road Pavement	Primary Arterial Pavement	0	m2	169.62	0.00	186.26	0.00
	Secondary Arterial Pavement	759	m2	127.01	96400.59	133.78	101539.02
	Collector Arterial Pavement	0	m2	105.15	0.00	112.44	0.00
	Subgrade Preparation	152	m2	14.22	2161.44	16.16	2456.32
	Pavement Rehab	483	m2	51.58	24913.14	59.32	28651.56
	Pavement Other	0	m2	0.00	0.00	0.00	0.00
Concrete Works	Kerb and Channel	276	m	54.81	15127.56	60.90	16808.40
	Cycle Path	0	m2	76.59	0.00	91.94	0.00
	SUP/ Footpath	414	m2	63.51	26293.14	73.63	30482.82
	Traffic Island	0	m2	77.60	0.00	84.07	0.00
Drainage	Drainage Pipe 300mm CR Bfilled	0	m	179.85	0.00	197.96	0.00
	Drainage Pipe 375mm CR Bfilled	61	m	259.10	15805.10	282.96	17260.56
	Drainage Pipe 450mm CR Bfilled	35	m	299.43	10480.05	334.33	11701.55
	Drainage Pipe 525mm CR Bfilled	0	m	403.86	0.00	448.03	0.00
	Drainage - pits	3	No.	2565.39	7696.17	2806.10	8418.30
	Drainage – Sub-soil drainage	276	m	33.88	9350.88	43.40	11978.40
	Drainage Culvert	0	No.	0.00	0.00	0.00	0.00
Traffic signals	Traffic Signals (all inclusive)	0	Item/ Per Leg	109730.28	0.00	128786.34	0.00
Landscape	Tree Planting	4	No.	303.34	1213.36	363.01	1452.04
	Landscaping	966	m2	21.61	20875.26	25.16	24304.56
	Topsoil Seeding	966	m2	7.21	6964.86	8.44	8153.04
Street Lighting	Street Lighting - Road	69	m	216.34	14927.46	225.67	15571.23
	Street Lighting - Intersections	0	Item/ Per Leg	48468.93	0.00	55617.74	0.00
Misc.	Regulatory Signage	2	Item	338.43	676.86	380.39	760.78
	Line marking	759	m2 of Pavement	3.11	2360.49	4.09	3104.31
	Landscape maintenance (intersections)	0	Item	71344.66	0.00	88131.43	0.00
	Landscape maintenance (roads)	966	m2 of l'scape	2.90	2801.40	2.96	2859.36
	Tactile Pavers (Hazard only)	0	Item	292.43	0.00	319.78	0.00
Other	Rock excavation	97	m3	100.00	9700.00	115.00	11155.00
	Telecom/power relocation allowance	69	m	1300.00	89700.00	1495.00	103155.00
	Water/gas relocation allowance	0	m	300.00	0.00	345.00	0.00
	Service proving fee	0	Item	3000.00	0.00	3450.00	0.00
Delivery	Council Fees	1	%	3.25	12464.35	3.25	14051.31
	VicRoads Fees	1	%	1.00	3835.18	1.00	4323.48
	Traffic Management	1	%	5.00	19175.92	5.00	21617.40
	Environmental Management	1	%	0.50	1917.59	0.50	2161.74
	Surveying and Design	1	%	5.00	19175.92	5.00	21617.40
	Supervision and Project management	1	%	9.00	34516.66	9.00	38911.32
	Site Establishment	1	%	2.50	9587.96	2.50	10808.70
	Contingency	1	%	15.00	57527.77	15.00	64852.20
Total - (2018) rates	Excluding Delivery				**383,518**		**432,348**
	Including Delivery				**541,720**		**610,692**
Total - (2021) rates	Excluding Delivery				**418,036**		**471,260**
	Including Delivery				**590,476**		**665,655**

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STATUS: ISSUE

Road Length (m)
729

Appendix B	
Description:	RD-17 - Secondary Divided Interim Arterial Road (Ferris Road [Rail to Toolern], 729m)
Civil Component Number:	RD-17

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Siteworks/ Earthworks	Site Preperation	27702	m2	3.68	101943.36	4.96	137401.92
	Earthworks	7217	m3	34.07	245883.19	40.52	292432.84
Road Pavement	Primary Arterial Pavement	0	m2	169.62	0.00	186.26	0.00
	Secondary Arterial Pavement	11364	m2	127.01	1443341.64	133.78	1520275.92
	Collector Arterial Pavement	0	m2	105.15	0.00	112.44	0.00
	Subgrade Preparation	2273	m2	14.22	32322.06	16.16	36731.68
	Pavement Rehab	1759	m2	51.58	90729.22	59.32	104343.88
	Pavement Other	0	m2	0.00	0.00	0.00	0.00
Concrete Works	Kerb and Channel	2916	m	54.81	159825.96	60.90	177584.40
	Cycle Path	0	m2	76.59	0.00	91.94	0.00
	SUP/ Footpath	4374	m2	63.51	277792.74	73.63	322057.62
	Traffic Island	0	m2	77.60	0.00	84.07	0.00
Drainage	Drainage Pipe 300mm CR Bfilled	0	m	179.85	0.00	197.96	0.00
	Drainage Pipe 375mm CR Bfilled	729	m	259.10	188883.90	282.96	206277.84
	Drainage Pipe 450mm CR Bfilled	365	m	299.43	109291.95	334.33	122030.45
	Drainage Pipe 525mm CR Bfilled	0	m	403.86	0.00	448.03	0.00
	Drainage - pits	42	No.	2565.39	107746.38	2806.10	117856.20
	Drainage – Sub-soil drainage	2916	m	33.88	98794.08	43.40	126554.40
	Drainage Culvert	0	No.	0.00	0.00	0.00	0.00
Traffic signals	Traffic Signals (all inclusive)	0	Item/ Per Leg	109730.28	0.00	128786.34	0.00
Landscape	Tree Planting	48	No.	303.34	14560.32	363.01	17424.48
	Landscaping	10206	m2	21.61	220551.66	25.16	256782.96
	Topsoil Seeding	10206	m2	7.21	73585.26	8.44	86138.64
Street Lighting	Street Lighting - Road	729	m	216.34	157711.86	225.67	164513.43
	Street Lighting - Intersections	0	Item/ Per Leg	48468.93	0.00	55617.74	0.00
Misc.	Regulatory Signage	17	Item	338.43	5753.31	380.39	6466.63
	Line marking	11364	m2 of Pavement	3.11	35342.04	4.09	46478.76
	Landscape maintenance (intersections)	0	Item	71344.66	0.00	88131.43	0.00
	Landscape maintenance (roads)	10206	m2 of l'scape	2.90	29597.40	2.96	30209.76
	Tactile Pavers (Hazard only)	0	Item	292.43	0.00	319.78	0.00
Other	Rock excavation	1444	m3	100.00	144400.00	115.00	166060.00
	Telecom/power relocation allowance	0	m	1300.00	0.00	1495.00	0.00
	Water/gas relocation allowance	0	m	300.00	0.00	345.00	0.00
	Service proving fee	0	Item	3000.00	0.00	3450.00	0.00
Delivery	Council Fees	1	%	3.25	114986.83	3.25	127972.71
	VicRoads Fees	1	%	1.00	35380.56	1.00	39376.22
	Traffic Management	1	%	5.00	176902.82	5.00	196881.09
	Environmental Management	1	%	0.50	17690.28	0.50	19688.11
	Surveying and Design	1	%	5.00	176902.82	5.00	196881.09
	Supervision and Project management	1	%	9.00	318425.07	9.00	354385.96
	Site Establishment	1	%	2.50	88451.41	2.50	98440.55
	Contingency	1	%	15.00	530708.45	15.00	590643.27
Total - (2018) rates	Excluding Delivery				**3,538,056**		**3,937,622**
	Including Delivery				**4,997,505**		**5,561,891**
Total - (2021) rates	Excluding Delivery				**3,856,482**		**4,292,008**
	Including Delivery				**5,447,281**		**6,062,461**

Road Length (m)
544

Appendix B	
Description:	RD-18 - Secondary Divided Interim Arterial Road (Abey Road [Shogaki to Toolern Ck], 544m)
Civil Component Number:	RD-18

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Siteworks/ Earthworks	Site Preperation	18496	m2	3.68	68065.28	4.96	91740.16
	Earthworks	3800	m3	34.07	129466.00	40.52	153976.00
Road Pavement	Primary Arterial Pavement	0	m2	169.62	0.00	186.26	0.00
	Secondary Arterial Pavement	5984	m2	127.01	760027.84	133.78	800539.52
	Collector Arterial Pavement	0	m2	105.15	0.00	112.44	0.00
	Subgrade Preparation	1197	m2	14.22	17021.34	16.16	19343.52
	Pavement Rehab	0	m2	51.58	0.00	59.32	0.00
	Pavement Other	0	m2	0.00	0.00	0.00	0.00
Concrete Works	Kerb and Channel	3264	m	54.81	178899.84	60.90	198777.60
	Cycle Path	0	m2	76.59	0.00	91.94	0.00
	SUP/ Footpath	3264	m2	63.51	207296.64	73.63	240328.32
	Traffic Island	0	m2	77.60	0.00	84.07	0.00
Drainage	Drainage Pipe 300mm CR Bfilled	0	m	179.85	0.00	197.96	0.00
	Drainage Pipe 375mm CR Bfilled	532	m	259.10	137841.20	282.96	150534.72
	Drainage Pipe 450mm CR Bfilled	272	m	299.43	81444.96	334.33	90937.76
	Drainage Pipe 525mm CR Bfilled	0	m	403.86	0.00	448.03	0.00
	Drainage - pits	30	No.	2565.39	76961.70	2806.10	84183.00
	Drainage – Sub-soil drainage	3264	m	33.88	110584.32	43.40	141657.60
	Drainage Culvert	0	No.	0.00	0.00	0.00	0.00
Traffic signals	Traffic Signals (all inclusive)	0	Item/ Per Leg	109730.28	0.00	128786.34	0.00
Landscape	Tree Planting	108	No.	303.34	32760.72	363.01	39205.08
	Landscaping	9248	m2	21.61	199849.28	25.16	232679.68
	Topsoil Seeding	9248	m2	7.21	66678.08	8.44	78053.12
Street Lighting	Street Lighting - Road	544	m	216.34	117688.96	225.67	122764.48
	Street Lighting - Intersections	0	Item/ Per Leg	48468.93	0.00	55617.74	0.00
Misc.	Regulatory Signage	13	Item	338.43	4399.59	380.39	4945.07
	Line marking	5984	m2 of Pavement	3.11	18610.24	4.09	24474.56
	Landscape maintenance (intersections)	0	Item	71344.66	0.00	88131.43	0.00
	Landscape maintenance (roads)	9248	m2 of l'scape	2.90	26819.20	2.96	27374.08
	Tactile Pavers (Hazard only)	0	Item	292.43	0.00	319.78	0.00
Other	Rock excavation	760	m3	100.00	76000.00	115.00	87400.00
	Telecom/power relocation allowance	18	m	1300.00	23400.00	1495.00	26910.00
	Water/gas relocation allowance	0	m	300.00	0.00	345.00	0.00
	Service proving fee	1	Item	3000.00	3000.00	3450.00	3450.00
Delivery	Council Fees	1	%	3.25	75946.49	3.25	85126.41
	VicRoads Fees	1	%	1.00	23368.15	1.00	26192.74
	Traffic Management	1	%	5.00	116840.76	5.00	130963.71
	Environmental Management	1	%	0.50	11684.08	0.50	13096.37
	Surveying and Design	1	%	5.00	116840.76	5.00	130963.71
	Supervision and Project management	1	%	9.00	210313.37	9.00	235734.68
	Site Establishment	1	%	2.50	58420.38	2.50	65481.86
	Contingency	1	%	15.00	350522.28	15.00	392891.14
Total - (2018) rates	Excluding Delivery				**2,336,815**		**2,619,274**
	Including Delivery				**3,300,751**		**3,699,725**
Total - (2021) rates	Excluding Delivery				**2,547,129**		**2,855,009**
	Including Delivery				**3,597,820**		**4,032,700**

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Issue : D
STATUS: ISSUE

Road Length (m)
438

Appendix B	
Description:	RD-19 - Primary Interim Arterial Road (Shogaki Drive East [Mt Cottrell to Ferris], 438m)
Civil Component Number:	RD-19

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Siteworks/ Earthworks	Site Preperation	19710	m2	3.68	72532.80	4.96	97761.60
	Earthworks	4385	m3	34.07	149396.95	40.52	177680.20
Road Pavement	Primary Arterial Pavement	6132	m2	169.62	1040109.84	186.26	1142146.32
	Secondary Arterial Pavement	0	m2	127.01	0.00	133.78	0.00
	Collector Arterial Pavement	0	m2	105.15	0.00	112.44	0.00
	Subgrade Preparation	1227	m2	14.22	17447.94	16.16	19828.32
	Pavement Rehab	0	m2	51.58	0.00	59.32	0.00
	Pavement Other	0	m2	0.00	0.00	0.00	0.00
Concrete Works	Kerb and Channel	1752	m	54.81	96027.12	60.90	106696.80
	Cycle Path	0	m2	76.59	0.00	91.94	0.00
	SUP/ Footpath	3942	m2	63.51	250356.42	73.63	290249.46
	Traffic Island	0	m2	77.60	0.00	84.07	0.00
Drainage	Drainage Pipe 300mm CR Bfilled	0	m	179.85	0.00	197.96	0.00
	Drainage Pipe 375mm CR Bfilled	462	m	259.10	119704.20	282.96	130727.52
	Drainage Pipe 450mm CR Bfilled	438	m	299.43	131150.34	334.33	146436.54
	Drainage Pipe 525mm CR Bfilled	0	m	403.86	0.00	448.03	0.00
	Drainage - pits	68	No.	2565.39	174446.52	2806.10	190814.80
	Drainage – Sub-soil drainage	1752	m	33.88	59357.76	43.40	76036.80
	Drainage Culvert	0	No.	0.00	0.00	0.00	0.00
Traffic signals	Traffic Signals (all inclusive)	0	Item/ Per Leg	109730.28	0.00	128786.34	0.00
Landscape	Tree Planting	29	No.	303.34	8796.86	363.01	10527.29
	Landscaping	9636	m2	21.61	208233.96	25.16	242441.76
	Topsoil Seeding	9636	m2	7.21	69475.56	8.44	81327.84
Street Lighting	Street Lighting - Road	438	m	216.34	94756.92	225.67	98843.46
	Street Lighting - Intersections	0	Item/ Per Leg	48468.93	0.00	55617.74	0.00
Misc.	Regulatory Signage	10	Item	338.43	3384.30	380.39	3803.90
	Line marking	6132	m2 of Pavement	3.11	19070.52	4.09	25079.88
	Landscape maintenance (intersections)	0	Item	71344.66	0.00	88131.43	0.00
	Landscape maintenance (roads)	9636	m2 of l'scape	2.90	27944.40	2.96	28522.56
	Tactile Pavers (Hazard only)	0	Item	292.43	0.00	319.78	0.00
Other	Rock excavation	877	m3	100.00	87700.00	115.00	100855.00
	Telecom/power relocation allowance	0	m	1300.00	0.00	1495.00	0.00
	Water/gas relocation allowance	480	m	300.00	144000.00	345.00	165600.00
	Service proving fee	1	Item	3000.00	3000.00	3450.00	3450.00
Delivery	Council Fees	1	%	3.25	90249.00	3.25	102011.98
	VicRoads Fees	1	%	1.00	27768.92	1.00	31388.30
	Traffic Management	1	%	5.00	138844.62	5.00	156941.50
	Environmental Management	1	%	0.50	13884.46	0.50	15694.15
	Surveying and Design	1	%	5.00	138844.62	5.00	156941.50
	Supervision and Project management	1	%	9.00	249920.32	9.00	282494.70
	Site Establishment	1	%	2.50	69422.31	2.50	78470.75
	Contingency	1	%	15.00	416533.86	15.00	470824.51
Total - (2018) rates	Excluding Delivery				**2,776,892**		**3,138,830**
	Including Delivery				**3,922,361**		**4,433,597**