



6 May 2024

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Dear Shu-Hao Wu

**CREAMERY ROAD PSP  
HIGH LEVEL COST ESTIMATE NO. 1 - FINAL**

We are pleased to confirm our High Level Cost Estimates No. 1 – Final dated 6 May 2024, for the above project.

Please do not hesitate to contact us to discuss any aspect which requires clarification or amendment to the assumed scope of works on our part.

Yours sincerely

**ASRI RAHMAN**  
Associate  
WT

WT REF: PR-021632-01C CREAMERY ROAD PSP REDESIGN

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# CREAMERY ROAD PSP

HIGH LEVEL COST ESTIMATE NO. 1 - FINAL

6 May 2024

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## APPENDICES

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# 1 ESTIMATE SUMMARY

We estimate the cost of construction (including delivery costs) in the amount of **\$207,964,000 (P50) and \$240,033,000 (P90) (Excl GST)** at current day costs. Further breakdown of the estimate is outlined below:

PROJECTS	P50 \$ (EXCL GST)	P90 \$ (EXCL GST)
Creamery Road – RD-01	22,339,000	25,626,000
Evans Road – RD-02	19,473,000	22,128,000
Intersections	163,851,000	189,630,000
Culverts	2,162,000	2,486,000
Crossings	139,000	163,000

The Estimate No. 1 can be summarised into sections as follows:

CREAMERY ROAD – ROAD TYPE – RD 01	QTY (M)	P50 RATE \$/M	P50 \$ (EXCL GST)	P90 RATE \$/M	P90 \$ (EXCL GST)
RD 01-01	825	8,181	6,749,000	9,263	7,731,000
RD 01-02	922	16,909	15,590,000	19,409	17,895,000
<b>TOTAL ESTIMATE – CREAMERY ROAD – RD 01 (EXCL GST)</b>	<b>1,747 M</b>	<b>\$12,787 M</b>	<b>\$22,339,000</b>	<b>\$14,669 M</b>	<b>\$25,626,000</b>

EVANS ROAD – ROAD TYPE RD02	QTY (M)	P50 RATE \$/M	P50 \$ (EXCL GST)	P90 RATE \$/M	P90 \$ (EXCL GST)
RD 02-01	123	19,854	2,442,000	22,634	2,784,000
RD 02-02	154	19,065	2,936,000	21,682	3,339,000
RD 02-03	730	10,075	7,355,000	10,075	8,351,000
RD 02-04	651	10,353	6,740,000	10,353	7,654,000
<b>TOTAL ESTIMATE – EVANS ROAD – RD 02 (EXCL GST)</b>	<b>1,658 M</b>	<b>\$11,745 M</b>	<b>\$19,473,000</b>	<b>\$13,346 M</b>	<b>\$22,128,000</b>

INTERSECTIONS	QTY (NO)	P50 RATE \$/NO	P50 \$ (EXCL GST)	P90 RATE \$/NO	P90 \$ (EXCL GST)
Intersection IN 01	1	17,113,000	17,113,000	19,695,000	19,695,000
Intersection IN 02	1	9,390,000	9,390,000	10,820,000	10,820,000
Intersection IN 03	1	10,983,000	10,983,000	12,678,000	12,678,000
Intersection IN 05	1	25,710,000	25,710,000	29,503,000	29,503,000
Intersection IN 06	1	27,912,000	27,912,000	31,909,000	31,909,000
Intersection CC 07	1	8,510,000	8,510,000	9,798,000	9,798,000
Intersection CC 09	1	7,638,000	7,638,000	8,789,000	8,789,000
Intersection CC 12	1	20,984,000	20,984,000	24,543,000	24,543,000
Intersection ER 14	1	7,753,000	7,753,000	8,963,000	8,963,000
Intersection ER 15	1	6,334,000	6,334,000	7,329,000	7,329,000
Intersection ER 16	1	13,905,000	13,905,000	16,804,000	16,804,000
Intersection ER 17	1	7,619,000	7,619,000	8,799,000	8,799,000
<b>TOTAL ESTIMATE – INTERSECTIONS (EXCL GST)</b>	<b>12 NO</b>	<b>\$13,654,250</b>	<b>\$163,851,000</b>	<b>\$15,802,500</b>	<b>\$189,630,000</b>

CULVERT PROJECTS	QTY (M)	P50 RATE \$/M	P50 \$ (EXCL GST)	P90 RATE \$/M	P90 \$ (EXCL GST)
CU 01	49	15,980	783,000	18,388	901,000
CU 02	43	15,256	656,000	17,535	754,000
CU 03	48	15,063	723,000	17,313	831,000
<b>TOTAL ESTIMATE – CULVERTS (EXCL GST)</b>	<b>140 M</b>	<b>\$15,443</b>	<b>\$2,162,000</b>	<b>\$17,757</b>	<b>\$2,486,000</b>

CROSSING PROJECT	QTY (NO)	P50 RATE \$/NO	P50 \$ (EXCL GST)	P90 RATE \$/M	P90 \$ (EXCL GST)
POS 01	1	139,000	139,000	163000	163000
<b>TOTAL ESTIMATE – CROSSING PROJECT (EXCL GST)</b>	<b>1 NO.</b>	<b>\$139,000</b>	<b>\$139,000</b>	<b>\$163,000</b>	<b>\$163,000</b>

Generally, as outlined in the WT Australian Construction market Conditions Report – April 2023 issued previously, there is an upward trend in construction costs escalation of approximately 3% to 5% between 2023 and 2025.

Rates for labour, construction materials, construction plant and equipment used in these high-level estimates are consistent and reflective of the upward trend of market conditions within the infrastructure sector in Victoria over recent years.

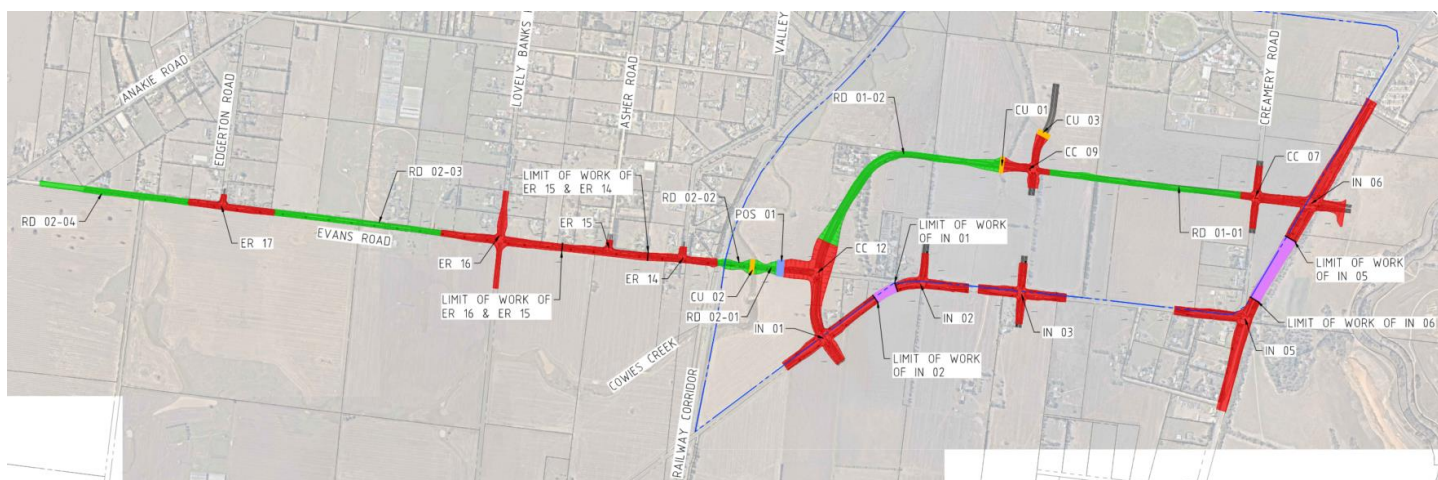
Rates used for these high-level estimates are based on first principles which also includes factors affecting productivity levels such as geotechnical ground conditions, location accessibility and temporary works.

## 2 PROJECT DEFINITION

The City of Greater Geelong are requesting cost estimation services for a PSP site within the Creamery Road Precinct Structure Plan (PSP).

Roadworks included within the Creamery Road PSP also include works to Geelong – Ballan Road, Midland Highway and Evans Road. This project includes for alternate road types and widths in conjunction with corresponding intersections, 3 No. drainage culverts and 1 No. pedestrian crossing project as per location plan below.

Figure 1: Location plan of Creamery Road PSP



Key road and intersection projects within the PSP area include:

- IN 01, IN 02 and IN 03 located along Geelong-Ballan Road,
- IN 05 located at the intersection of Geelong-Ballan Road and Midland Highway,
- IN 06 located at the intersection of the Clever and Creative Corridor (CCC) and Midland Highway.
- CC 07, RD 01-01 (between CC 07 and CC 09), CC 09, RD 01-02 (between CC 09 and CC 12), and CC 12 located on the CCC.
- RD 02-01 (between CC 12 and CU 02), RD 02-02 (between CU 02 and PSP Site Boundary)

Key road and intersection projects outside the PSP area include:

- ER 14, ER 15, ER 16, RD 02-03 (between ER 16 and ER 17), ER 17 and RD 02-04 (after ER 17)

Key culvert projects within the PSP area include:

- CU01 across RD 01 after CC 09
- CU 02 between RD 02-01 and RD 02-02
- CU 03 across new connector road after CC 09

Key crossing project within the PSP area include:

- POS 01 between CC12 and RD 02-01

### 3 DOCUMENTATION

This high-level estimate is based on the following documentation:

- Creamery Road - Precinct Structure Plan Transport Infrastructure Concept Design Issue P4 prepared by Stantec dated 16 February 2024
- Locality Plan – PNG file
- Intersection Cost Items Example - PNG file
- Road Cost Items Example - PNG File
- Transport Infrastructure Map - PNG File
- Email clarification from Stantec - CRPSP Redesign - Briefing dated 5 March 2024
- “240312\_CRPSP - Earthworks Volumes.xlsx” provided by Stantec via email dated 12 March 2024

### 4 SPECIFIC INCLUSIONS

The Estimate assumes competitive lump sum tender for the whole of the Works from suitably qualified contractors.

The Estimate is inclusive of the following allowances:

- Council Fees 3.3%

- VicRoads Fees 1.0%
- Traffic Management 5.0%
- Environmental Management 0.5%
- Surveying and Design 5%
- Supervision and Project Management 9%
- Site Establishment 2.5%
- Contingency 15%

## 5 SPECIFIC ASSUMPTIONS

Specific assumptions adopted from the VPA Benchmark Report dated 1 March 2019 were as follows: -

### Section 3.4.1.1 Roads and Intersections

- Pavement Depth - Table 3-3 Pavement Makeup
- Excavation Depth
- Demolitions
- Utility Relocation and Protection Works
- Geotechnical Testing
- Drainage Design – Drainage
- Lighting Design – Street Lighting Units
- Intersection Design – Traffic Light Units
- Intersection Design – Tactile Pavers

### Section 3.4.1.3 Culverts

- Pipe Layout
- Box Units
- Guard Fence

Specific assumptions as follows, have been made where required to suit this specific project.

### **GROUNDWATER CONTROL**

Assume 3 years project duration.

## **EARTHWORKS**

Earthworks quantities based on cut and fill quantities provided by Stantec.

We have assumed that the earthwork quantities provided include for roadwork/intersections to occur independently. We highlight that if the road/intersection works are combined, savings may be possible as cut and fill volumes may be used from site to site.

We have assumed that all cut materials are to be disposed off-site within 20km from stockpile site and all fill materials to be imported fill materials.

The estimate assumes 20% of area below new pavements to be soft spots and treated with 200mm thick lime stabilisation.

Assume 150mm thick Type B fill for sub-base materials below new pavements.

Assume 150mm thick Type A capping layer below new pavements.

## **DEMOLITIONS**

We have included for removal of existing pavements and inground services where new roads/intersections are required.

An allowance of 10% of new pavement area has been taken for removal of vegetation.

## **NEW PAVEMENTS**

Pavement profiles and extents for Secondary Arterial and Connector Street shall be in accordance with VPA's Benchmark Costings Report Table 3.3 and as directed by Stantec via email dated 17 March 2023.

Allow additional 2m wide on each side of Roads 01 and 02 in site preparation for site access to facilitate new road construction.

## **CONCRETE WORKS**

Assume RC kerb and channel on both sides of each carriageway and bus lanes.

Assume 150mm thick 32 Mpa RC concrete on 100mm thick Class 3 FCR RC cycle path.

Assume 150mm thick 32 Mpa RC concrete on 100mm thick Class 3 FCR RC foot path.

## **DRAINAGE**

Assume 300mm dia RCP Cl3 pipe for cross drainage for widths of carriageways and bus lanes at 50m intervals.

Assume 375mm dia RCP Cl3 pipe for drainage on 1 side of each carriageway and bus lanes.

Assume SEP pits at 50m intervals.

Assume 30% of SEP pits are Junction Pits.

Assume subsoil drainage on both sides of each carriageway and bus lanes.

## LANDSCAPE

Assume tree girth 1.0m at 5nos of trees per 20m intervals as per typical road section details.

Topsoil & seeding included.

Landscaping allowance is 30% of topsoil seeding quantity.

## STREET LIGHTING

Assume 2 No. of double luminaires at 50m intervals as per typical road section details along road alignment length and at intersections.

## MISCELLANEOUS

Assume signage at 500m intervals of total lane length.

We have included for the removal & replacement of level crossing boom gates at the intersection of RD 02-02 and the railway tracks.

# 6 SPECIFIC EXCLUSIONS

The estimate excludes the following:

- Soft spots / unsuitable soil materials below reconstructed pavements and footpaths which requires soil remediation
- Contaminated soil below reconstructed pavements and footpaths which requires soil remediation
- Underpinning of adjacent footings
- Works outside the site boundary
- Land Acquisition
- Early Works (There is no foreseeable early works such as demolition of structures, diversion / protection of services shown in the drawings provided. All utilities management and headworks are excluded).
- Rail occupation costs and safeworking / supervision costs including bussing of disrupted rail patrons
- Street furniture
- Non-design consultant fees
- Site working hour restrictions
- Site access restrictions
- Future design impacts
- Community stakeholders
- Local Council contributions

- Any Non-Construction Development Costs
- Client Contingency (deemed to include for allowances for Client's unforeseeable risks to other non-construction Development Costs, Owner's Costs, Consultants' fees etc not visible to WT)
- Financing Costs
- Authority fees & charges
- Escalation
- GST

## 7 QUANTITIES PROVIDED BY OTHERS

Our estimate includes the estimated earthworks quantities provided by Stantec up to formation level (underside of pavement) of the road and intersections.

## 8 CONCLUSION / DISCLAIMER

We highlight that due to the preliminary nature of the documentation, our Estimate should be viewed as indicative and a preliminary opinion of the probable order of cost based on a concept without definition of design scope or quality.

Where WT has not been provided with sufficient information, we have made assumptions and allowances which will require detailed review once the design is developed.

Please review the detail of our Estimate, in particular the many assumptions as to scope, quality, performance and finishes of the current design intent to ensure it generally reflects your requirements.

The estimate has been prepared expressly for Stantec for the purpose of preparing a feasibility assessment and is not to be used for any other purpose or distributed to any third party.



# APPENDIX A

HIGH LEVEL FINAL COST ESTIMATES NO. 1

<b>Description:</b>	RD01
<b>Component Number:</b>	RD 01-01

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Siteworks/ Earthworks	Site Preparation	20,850	m2	14.21	\$ 296,242	19.15	\$ 399,283
	Earthworks (Cut)	2,342	m3	99.76	\$ 233,637	118.65	\$ 277,868
	Earthworks (Fill)	2,661	m3	71.97	\$ 191,504	85.59	\$ 227,759
Road Pavement	Secondary Arterial Pavement	5,581	m2	175.14	\$ 977,444	184.47	\$ 1,029,545
	Subgrade Preparation	5,581	m2	6.01	\$ 33,538	6.83	\$ 38,114
	Lime Stabilisation	224	m3	81.78	\$ 18,318	92.93	\$ 20,817
	Crushed Rock Capping Layer	838	m3	105.50	\$ 88,412	121.34	\$ 101,679
Concrete Works	Kerb and Channel	1,650	m	82.42	\$ 135,993	91.58	\$ 151,103
	Cycle Path	2,475	m2	261.30	\$ 646,714	313.67	\$ 776,327
	SUP/ Footpath	3,943	m2	187.80	\$ 740,489	217.72	\$ 858,482
Drainage	Drainage Pipe 300mm CR Bfilled	112	m	528.21	\$ 59,159	581.39	\$ 65,116
	Drainage Pipe 375mm CR Bfilled	825	m	550.34	\$ 454,028	601.02	\$ 495,839
	Drainage - pits	22	No.	4,355.14	\$ 95,813	4,763.78	\$ 104,803
	Drainage – Sub-soil drainage	1,650	m	94.99	\$ 156,737	121.68	\$ 200,779
Landscape	Tree Planting	116	No.	1,000.00	\$ 116,000	1,196.71	\$ 138,818
	Landscaping	1,666	m2	30.00	\$ 49,977	34.93	\$ 58,187
	Topsoil with seeding, 100mm depth	5,553	m2	25.00	\$ 138,825	29.26	\$ 162,508
Street Lighting	Street Lighting - Road	7	No.	18,000.00	\$ 126,000	18,776.28	\$ 131,434
Misc	Regulatory Signage	1	Item	14,500.00	\$ 14,500	16,297.77	\$ 16,298
	Linemarking	5,581	m2 of Pavement	5.00	\$ 27,905	6.58	\$ 36,698
	Landscape maintenance (roads)	1	item	159,148.00	\$ 159,148	162,440.72	\$ 162,441
Other	Tree Vegetation Removal	1,755	m2	10.00	\$ 17,550	10.94	\$ 19,191
Delivery	Council Fees	1	%	3.25	\$ 155,283	3.25	\$ 177,875
	VicRoads Fees	1	%	1.00	\$ 47,780	1.00	\$ 54,731
	Traffic Management	1	%	5.00	\$ 238,897	5.00	\$ 273,654
	Environmental Management	1	%	0.50	\$ 23,890	0.50	\$ 27,365
	Surveying and Design	1	%	5.00	\$ 238,897	5.00	\$ 273,654
	Supervision and Project management	1	%	9.00	\$ 430,014	9.00	\$ 492,578
	Site Establishment	1	%	2.50	\$ 119,449	2.50	\$ 136,827
	Contingency	1	%	15.00	\$ 716,690	15.00	\$ 820,963
Total	Excluding Delivery				\$ 4,777,933		\$ 5,473,088
	Including Delivery				\$ 6,749,000		\$ 7,731,000

<b>Description:</b>	RD01
<b>Component Number:</b>	RD 01-02

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Sitemworks/ Earthworks	Site Preperation	29,816	m2	14.21	\$ 423,633	19.15	\$ 570,984
	Earthworks (Cut)	27,502	m3	99.76	\$ 2,743,613	118.65	\$ 3,263,023
	Earthworks (Fill)	8,966	m3	71.98	\$ 645,370	85.61	\$ 767,549
Road Pavement	Secondary Arterial Pavement	11,697	m2	175.11	\$ 2,048,270	184.44	\$ 2,157,449
	Subgrade Preparation	11,697	m2	6.01	\$ 70,291	6.83	\$ 79,881
	Lime Stabilisation	468	m3	81.78	\$ 38,272	92.93	\$ 43,493
	Crushed Rock Capping Layer	1,755	m3	105.50	\$ 185,158	121.33	\$ 212,942
Concrete Works	Kerb and Channel	3,848	m	82.42	\$ 317,152	91.58	\$ 352,391
	Cycle Path	2,766	m2	261.30	\$ 722,752	313.67	\$ 867,604
	SUP/ Footpath	4,290	m2	187.80	\$ 805,656	217.72	\$ 934,033
Drainage	Drainage Pipe 300mm CR Bfilled	234	m	528.21	\$ 123,600	581.39	\$ 136,046
	Drainage Pipe 375mm CR Bfilled	1,924	m	550.34	\$ 1,058,848	601.02	\$ 1,156,355
	Drainage - pits	51	No.	4,356.69	\$ 222,191	4,765.47	\$ 243,039
	Drainage – Sub-soil drainage	3,848	m	94.99	\$ 365,529	121.68	\$ 468,240
Landscape	Tree Planting	164	No.	1,000.00	\$ 164,000	1,196.71	\$ 196,260
	Landscaping	2,213	m2	30.00	\$ 66,384	34.93	\$ 77,289
	Topsoil with seeding, 100mm depth	7,376	m2	25.00	\$ 184,400	29.26	\$ 215,858
Street Lighting	Street Lighting - Road	21	No.	18,000.00	\$ 378,000	18,776.28	\$ 394,302
Misc	Regulatory Signage	1	Item	30,000.00	\$ 30,000	33,719.53	\$ 33,720
	Linemarking	11,697	m2 of Pavement	5.00	\$ 58,485	6.58	\$ 76,914
	Landscape maintenance (roads)	1	item	159,148.00	\$ 159,148	162,440.72	\$ 162,441
Other	Telecommunications underground relocation (Telstra)	1	item	200,000.00	\$ 200,000	230,000.00	\$ 230,000
	Tree Vegetation Removal	2,613	m2	10.00	\$ 26,130	10.94	\$ 28,574
Delivery	Council Fees	1	%	3.25	\$ 358,699	3.25	\$ 411,723
	VicRoads Fees	1	%	1.00	\$ 110,369	1.00	\$ 126,684
	Traffic Management	1	%	5.00	\$ 551,845	5.00	\$ 633,419
	Environmental Management	1	%	0.50	\$ 55,185	0.50	\$ 63,342
	Surveying and Design	1	%	5.00	\$ 551,845	5.00	\$ 633,419
	Supervision and Project management	1	%	9.00	\$ 993,320	9.00	\$ 1,140,155
	Site Establishment	1	%	2.50	\$ 275,923	2.50	\$ 316,710
Contingency	1	%	15.00	\$ 1,655,533	15.00	\$ 1,900,258	
Total	Excluding Delivery				\$ 11,036,882		\$ 12,668,387
	Including Delivery				\$ 15,590,000		\$ 17,895,000

<b>Description:</b>	RD02 - 20M WIDE - CLEVER AND CREATIVE CORRIDOR (CCC) - STANDARD
<b>Civil Component Number:</b>	RD 02-01

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Siteworks/ Earthworks	Site Preparation	4,677	m2	14.21	\$ 66,452	19.15	\$ 89,566
	Earthworks (Cut)	3,506	m3	99.73	\$ 349,648	118.61	\$ 415,842
	Earthworks (Fill)	4,601	m3	71.98	\$ 331,185	85.61	\$ 393,884
Road Pavement	Secondary Arterial Pavement	813	m2	175.43	\$ 142,626	184.78	\$ 150,228
	Subgrade Preparation	813	m2	6.01	\$ 4,886	6.83	\$ 5,553
	Lime Stabilisation	163	m3	81.78	\$ 13,330	92.94	\$ 15,149
	Crushed Rock Capping layer	122	m3	105.50	\$ 12,871	121.33	\$ 14,802
Concrete Works	Kerb and Channel	247	m	82.42	\$ 20,358	91.58	\$ 22,620
	Cycle Path	370	m2	261.30	\$ 96,680	313.67	\$ 116,056
	SUP/ Footpath	247	m2	187.80	\$ 46,386	217.72	\$ 53,777
Drainage	Drainage Pipe 300mm CR Bfilled	17	m	528.18	\$ 8,979	581.36	\$ 9,883
	Drainage Pipe 375mm CR Bfilled	247	m	550.34	\$ 135,933	601.02	\$ 148,451
	Drainage - pits	13	No.	4,355.77	\$ 56,625	4,764.47	\$ 61,938
	Drainage – Sub-soil drainage	247	m	94.99	\$ 23,463	121.68	\$ 30,056
Landscape	Tree Planting	13	No.	1000.00	\$ 13,000	1,196.71	\$ 15,557
	Landscaping	458	m2	30.00	\$ 13,734	34.93	\$ 15,990
	Topsoil Seeding, 100mm depth	1,526	m2	25.00	\$ 38,150	29.26	\$ 44,658
Street Lighting	Street Lighting - Road	8	No.	18000.00	\$ 144,000	18,776.28	\$ 150,210
Misc	Regulatory Signage	1	Item	3500.00	\$ 3,500	3,933.94	\$ 3,934
	Linemarking	813	m2 of Pavement	5.00	\$ 4,065	6.58	\$ 5,346
	Landscape maintenance (roads)	65	weeks	3,046.94	\$ 198,051	3,109.98	\$ 202,149
Other	Tree Vegetation Removal	468	m2	10.00	\$ 4,680	10.94	\$ 5,118
Delivery	Council Fees	3	%	3.25	\$ 56,180	3.25	\$ 64,050
	VicRoads Fees	1	%	1.00	\$ 17,287	1.00	\$ 19,708
	Traffic Management	5	%	5.00	\$ 86,431	5.00	\$ 98,538
	Environmental Management	1	%	0.50	\$ 8,644	0.50	\$ 9,854
	Surveying and Design	5	%	5.00	\$ 86,431	5.00	\$ 98,538
	Supervision and Project management	9	%	9.00	\$ 155,575	9.00	\$ 177,369
	Site Establishment	3	%	2.50	\$ 43,216	2.50	\$ 49,269
	Contingency	15	%	15.00	\$ 259,639	15.00	\$ 295,615
Total	Excluding Delivery				\$ 1,728,603		\$ 1,970,767
	Including Delivery				\$ 2,442,000		\$ 2,784,000

<b>Description:</b>	RD02 - 20M WIDE - CLEVER AND CREATIVE CORRIDOR (CCC) - STANDARD
<b>Civil Component Number:</b>	RD 02-02

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Sitemworks/ Earthworks	Site Preperation	5,849	m2	14.21	\$ 83,104	19.15	\$ 112,010
	Earthworks (Cut)	2,725	m3	99.74	\$ 271,798	118.63	\$ 323,254
	Earthworks (Fill)	3,378	m3	71.97	\$ 243,114	85.59	\$ 289,139
Road Pavement	Secondary Arterial Pavement	1,016	m2	175.49	\$ 178,297	184.84	\$ 187,801
	Subgrade Preparation	1,016	m2	6.01	\$ 6,106	6.83	\$ 6,939
	Lime Stablisation	41	m3	81.78	\$ 3,353	92.94	\$ 3,810
	Crushed Rock Capping layer	153	m3	105.50	\$ 16,142	121.33	\$ 18,564
Concret e Works	Kerb and Channel	308	m	81.51	\$ 25,105	90.57	\$ 27,894
	Cycle Path	462	m2	258.27	\$ 119,321	310.03	\$ 143,235
	SUP/ Footpath	308	m2	184.77	\$ 56,909	214.21	\$ 65,977
Drainage	Drainage Pipe 300mm CR Bfilled	21	m	528.19	\$ 11,092	581.38	\$ 12,209
	Drainage Pipe 375mm CR Bfilled	308	m	550.34	\$ 169,504	601.02	\$ 185,113
	Drainage - pits	9	No.	4,354.11	\$ 39,187	4,762.66	\$ 42,864
	Drainage – Sub-soil drainage	308	m	94.99	\$ 29,258	121.69	\$ 37,479
Landscape	Tree Planting	16	No.	1000.00	\$ 16,000	1,196.71	\$ 19,147
	Landscaping	573	m2	30.00	\$ 17,181	34.93	\$ 20,003
	Topsoil Seeding, 100mm depth	1,909	m2	25.00	\$ 47,725	29.26	\$ 55,867
Street Lighting	Street Lighting - Road	10	No.	18000.00	\$ 180,000	18,776.28	\$ 187,763
Misc	Regulatory Signage	1	Item	6000.00	\$ 6,000	6,743.91	\$ 6,744
	Linemarking	1,016	m2 of Pavement	5.00	\$ 5,080	6.58	\$ 6,681
	Replace Existing Bell and Boom Gates	1	No.	350000.00	\$ 350,000	402,500.00	\$ 402,500
	Landscape maintenance (roads)	65	weeks	3,046.94	\$ 198,051	3,109.98	\$ 202,149
Other	Tree Vegetation Removal	585	m2	10.00	\$ 5,850	10.94	\$ 6,397
Delivery	Council Fees	1	%	3.25	\$ 67,541	3.25	\$ 76,815
	VicRoads Fees	1	%	1.00	\$ 20,782	1.00	\$ 23,635
	Traffic Management	1	%	5.00	\$ 103,909	5.00	\$ 118,177
	Environmental Management	1	%	0.50	\$ 10,391	0.50	\$ 11,818
	Surveying and Design	1	%	5.00	\$ 103,909	5.00	\$ 118,177
	Supervision and Project management	1	%	9.00	\$ 187,036	9.00	\$ 212,719
	Site Establishment	1	%	2.50	\$ 51,955	2.50	\$ 59,089
	Contingency	1	%	15.00	\$ 311,727	15.00	\$ 354,531
Total	Excluding Delivery				\$ 2,078,176		\$ 2,363,540
	Including Delivery				\$ 2,936,000		\$ 3,339,000

<b>Description:</b>	RD03 - 20M WIDE - CLEVER AND CREATIVE CORRIDOR (CCC) - STANDARD
<b>Civil Component Number:</b>	RD 02-03

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Sitemworks/ Earthworks	Site Preperation	27,731	m2	14.21	\$ 394,009	19.15	\$ 531,056
	Earthworks (Cut)	4,040	m3	99.75	\$ 402,978	118.63	\$ 479,268
	Earthworks (Fill)	1,148	m3	71.99	\$ 82,612	85.62	\$ 98,252
Road Pavement	Secondary Arterial Pavement	4,817	m2	175.15	\$ 843,708	184.49	\$ 888,680
	Subgrade Preparation	4,817	m2	6.01	\$ 28,947	6.83	\$ 32,896
	Lime Stablisation	193	m3	81.78	\$ 15,783	92.93	\$ 17,936
	Crushed Rock Capping layer	723	m3	105.50	\$ 76,279	121.34	\$ 87,725
Concrete Works	Kerb and Channel	1,460	m	82.42	\$ 120,333	91.58	\$ 133,703
	Cycle Path	2,190	m2	261.30	\$ 572,244	313.67	\$ 686,932
	SUP/ Footpath	1,460	m2	187.80	\$ 274,186	217.72	\$ 317,876
Drainage	Drainage Pipe 300mm CR Bfilled	97	m	528.21	\$ 51,236	581.39	\$ 56,395
	Drainage Pipe 375mm CR Bfilled	1,460	m	550.34	\$ 803,492	601.02	\$ 877,484
	Drainage - pits	39	No.	4,355.79	\$ 169,876	4,764.50	\$ 185,815
	Drainage – Sub-soil drainage	1,460	m	94.99	\$ 138,688	121.68	\$ 177,658
Landscape	Tree Planting	73	No.	1000.00	\$ 73,000	1,196.71	\$ 87,360
	Landscaping	2,715	m2	30.00	\$ 81,441	34.93	\$ 94,820
	Topsoil Seeding, 100mm depth	9,049	m2	25.00	\$ 226,225	29.26	\$ 264,818
Street Lighting	Street Lighting - Road	33	No.	18000.00	\$ 594,000	18,776.28	\$ 619,617
Misc	Regulatory Signage	1	Item	14000.00	\$ 14,000	15,735.78	\$ 15,736
	Linemarking	4,817	m2 of Pavement	5.00	\$ 24,085	6.58	\$ 31,674
	Landscape maintenance (roads)	65	weeks	2,949.91	\$ 191,744	3,010.94	\$ 195,711
Other	Tree Vegetation Removal	2,774	m2	10.00	\$ 27,740	10.94	\$ 30,334
Delivery	Council Fees	1	%	3.25	\$ 169,215	3.25	\$ 192,132
	VicRoads Fees	1	%	1.00	\$ 52,067	1.00	\$ 59,117
	Traffic Management	1	%	5.00	\$ 260,331	5.00	\$ 295,587
	Environmental Management	1	%	0.50	\$ 26,034	0.50	\$ 29,559
	Surveying and Design	1	%	5.00	\$ 260,331	5.00	\$ 295,587
	Supervision and Project management	1	%	9.00	\$ 468,595	9.00	\$ 532,057
	Site Establishment	1	%	2.50	\$ 130,166	2.50	\$ 147,794
Total	Contingency	1	%	15.00	\$ 780,991	15.00	\$ 886,762
	Excluding Delivery				\$ 5,206,605		\$ 5,911,748
	Including Delivery				\$ 7,355,000		\$ 8,351,000

<b>Description:</b>	RD04 - 20M WIDE - CLEVER AND CREATIVE CORRIDOR (CCC) - STANDARD
<b>Civil Component Number:</b>	RD 02-04

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
<b>Siteworks/ Earthworks</b>	Site Preparation	24,728	m2	14.21	\$ 351,341	19.15	\$ 473,547
	Earthworks (Cut)	3,089	m3	99.76	\$ 308,161	118.65	\$ 366,501
	Earthworks (Fill)	2,964	m3	71.99	\$ 213,396	85.61	\$ 253,795
<b>Road Pavement</b>	Secondary Arterial Pavement	4,295	m2	175.20	\$ 752,475	184.54	\$ 792,584
	Subgrade Preparation	4,295	m2	6.01	\$ 25,810	6.83	\$ 29,331
	Lime Stabilisation	172	m3	81.78	\$ 14,066	92.94	\$ 15,985
	Crushed Rock Capping layer	645	m3	105.50	\$ 68,050	121.34	\$ 78,261
<b>Concrete Works</b>	Kerb and Channel	1,302	m	82.42	\$ 107,311	91.58	\$ 119,234
	Cycle Path	1,953	m2	261.30	\$ 510,316	313.67	\$ 612,592
	SUP/ Footpath	1,302	m2	187.80	\$ 244,514	217.72	\$ 283,476
<b>Drainage</b>	Drainage Pipe 300mm CR Bfilled	86	m	528.21	\$ 45,426	581.40	\$ 50,000
	Drainage Pipe 375mm CR Bfilled	1,302	m	550.34	\$ 716,538	601.02	\$ 782,523
	Drainage - pits	35	No.	4,355.37	\$ 152,438	4,764.04	\$ 166,741
	Drainage – Sub-soil drainage	1,302	m	94.99	\$ 123,680	121.68	\$ 158,433
<b>Landscape</b>	Tree Planting	66	No.	1000.00	\$ 66,000	1,196.71	\$ 78,983
	Landscaping	2,421	m2	30.00	\$ 72,630	34.93	\$ 84,561
	Topsoil Seeding, 100mm depth	8,070	m2	25.00	\$ 201,750	29.26	\$ 236,168
<b>Street Lighting</b>	Street Lighting - Road	30	No.	18000.00	\$ 540,000	18,776.28	\$ 563,288
<b>Misc</b>	Regulatory Signage	1	Item	13500.00	\$ 13,500	15,173.79	\$ 15,174
	Linemarking	4,295	m2 of Pavement	5.00	\$ 21,475	6.58	\$ 28,242
	Landscape maintenance (roads)	65	weeks	3,046.94	\$ 198,051	3,109.98	\$ 202,149
<b>Other</b>	Tree Vegetation Removal	2,473	m2	10.00	\$ 24,730	10.94	\$ 27,043
<b>Delivery</b>	Council Fees	1	%	3.25	\$ 155,079	3.25	\$ 176,105
	VicRoads Fees	1	%	1.00	\$ 47,717	1.00	\$ 54,186
	Traffic Management	1	%	5.00	\$ 238,583	5.00	\$ 270,931
	Environmental Management	1	%	0.50	\$ 23,859	0.50	\$ 27,093
	Surveying and Design	1	%	5.00	\$ 238,583	5.00	\$ 270,931
	Supervision and Project management	1	%	9.00	\$ 429,450	9.00	\$ 487,675
	Site Establishment	1	%	2.50	\$ 119,292	2.50	\$ 135,465
	Contingency	1	%	15.00	\$ 715,749	15.00	\$ 812,792
<b>Total</b>	Excluding Delivery				\$ 4,771,657		\$ 5,418,612
	Including Delivery				\$ 6,740,000		\$ 7,654,000

<b>Description:</b>	GEELONG-BALLAN ROAD - INTERSECTION
<b>Civil Component Number:</b>	IN01

Geelong-Ballan Rd + RD01							
Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Siteworks/ Earthworks	Site Preparation	31,312	m2	14.21	\$ 444,888	19.15	\$ 599,632
	Earthworks (Cut)	17,815	m3	99.45	\$ 1,771,646	118.27	\$ 2,107,047
	Earthworks (Fill)	3,669	m3	71.97	\$ 264,067	85.60	\$ 314,059
Road Pavement	Secondary Arterial Pavement	14,100	m2	175.89	\$ 2,480,063	185.27	\$ 2,612,258
	Subgrade Preparation	14,100	m2	6.01	\$ 84,732	6.83	\$ 96,292
	Lime stabilisation	534	m3	81.78	\$ 43,669	92.93	\$ 49,627
	Crushed rock capping layer	1,999	m3	105.50	\$ 210,901	121.33	\$ 242,548
Concrete Works	Kerb and Channel	3,636	m	82.42	\$ 299,680	91.58	\$ 332,978
	Cycle Path (SUP)	3,180	m2	261.30	\$ 830,929	313.67	\$ 997,462
	Footpath (Pedestrian Path)	1,701	m2	187.80	\$ 319,445	217.72	\$ 370,347
Drainage	Drainage Pipe 300mm CR filled	210	m	543.30	\$ 114,093	598.01	\$ 125,582
	Drainage Pipe 375mm CR filled	1,819	m	550.34	\$ 1,001,062	601.02	\$ 1,093,248
	Drainage - pits	49	No.	4,358.57	\$ 213,570	4,767.54	\$ 233,609
	Drainage – Sub-soil drainage	3,636	m	94.99	\$ 345,391	121.68	\$ 442,443
Traffic signals	Traffic Signals (all inclusive)	1	Item	465,000.00	\$ 465,000	545,753.17	\$ 545,753
Landscape	Tree Planting	198	No.	1,000.00	\$ 198,000	1,196.71	\$ 236,949
	Landscaping	3,700	m2	29.99	\$ 110,979	34.92	\$ 129,210
	Topsoil Seeding	12,331	m2	25.00	\$ 308,275	29.26	\$ 360,866
Street Lighting	Street Lighting - Intersections	32	No.	18,000.00	\$ 576,000	20,654.87	\$ 660,956
Misc.	Regulatory Signage	1	Item	25,500.00	\$ 25,500	28,661.60	\$ 28,662
	Line marking	14,100	m2 of Pavement	5.00	\$ 70,500	6.58	\$ 92,715
	Landscape maintenance (intersections)	65	weeks	4,896.86	\$ 318,296	6,049.05	\$ 393,188
Other	Telecommunications underground relocation	795	m	579.28	\$ 460,530	666.18	\$ 529,610
	Electrical overhead relocation	681	m	1,090.95	\$ 742,940	1,254.60	\$ 854,381
	Tree/vegetation removal	1,333	m2	10.00	\$ 13,330	11.89	\$ 15,854
	Pavement removal	4,019	m2	100.00	\$ 401,900	118.93	\$ 477,986
Delivery	Council Fees	3	%	3.25	\$ 393,751	3.25	\$ 453,156
	VicRoads Fees	1	%	1.00	\$ 121,154	1.00	\$ 139,433
	Traffic Management	5	%	5.00	\$ 605,770	5.00	\$ 697,163
	Environmental Management	1	%	0.50	\$ 60,577	0.50	\$ 69,716
	Surveying and Design	5	%	5.00	\$ 605,770	5.00	\$ 697,163
	Supervision and Project management	9	%	9.00	\$ 1,090,385	9.00	\$ 1,254,893
	Site Establishment	3	%	2.50	\$ 302,885	2.50	\$ 348,581
	Contingency	15	%	15.00	\$ 1,817,308	15.00	\$ 2,091,489
Total	Excluding Delivery				\$ 12,115,387		\$ 13,943,259
	Including Delivery				\$ 17,113,000		\$ 19,695,000

<b>Description:</b>	GEELONG-BALLAN ROAD - INTERSECTION
<b>Civil Component Number:</b>	IN02

Geelong-Ballan Rd + Connector Rd							
Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Siteworks/ Earthworks	Site Preparation	17,697	m2	14.21	\$ 251,443	19.15	\$ 338,901
	Earthworks (Cut)	356	m3	99.39	\$ 35,382	118.20	\$ 42,080
	Earthworks (Fill)	4,494	m3	71.99	\$ 323,507	85.61	\$ 384,752
Road Pavement	Secondary Arterial Pavement	6,203	m2	175.12	\$ 1,086,278	184.46	\$ 1,144,180
	Collector Arterial Pavement	1,388	m2	165.34	\$ 229,493	176.80	\$ 245,404
	Subgrade Preparation	7,591	m2	6.01	\$ 45,617	6.83	\$ 51,840
	Lime stabilisation	305	m3	81.78	\$ 24,943	92.94	\$ 28,346
	Crushed rock capping layer	1,140	m3	105.50	\$ 120,274	121.34	\$ 138,322
Concrete Works	Kerb and Channel	1,929	m	82.42	\$ 158,989	91.58	\$ 176,654
	Cycle Path (SUP)	2,783	m2	261.30	\$ 727,193	313.67	\$ 872,935
	Footpath (Pedestrian Path)	635	m2	187.80	\$ 119,252	217.72	\$ 138,254
	Concrete Median	223	m2	204.47	\$ 45,596	245.45	\$ 54,734
Drainage	Drainage Pipe 300mm CR filled	144	m	528.21	\$ 76,062	581.40	\$ 83,721
	Drainage Pipe 375mm CR filled	965	m	550.34	\$ 531,075	601.02	\$ 579,981
	Drainage - pits	27	No.	4,361.37	\$ 117,757	4,770.60	\$ 128,806
	Drainage - Sub-soil drainage	1,929	m	94.99	\$ 183,239	121.68	\$ 234,728
Traffic signals	Traffic Signals (all inclusive)	1	Item	217,000.00	\$ 217,000	254,684.81	\$ 254,685
Landscape	Tree Planting	136	No.	1,000.00	\$ 136,000	1,196.71	\$ 162,753
	Landscaping	1,940	m2	29.99	\$ 58,185	34.92	\$ 67,743
	Topsoil Seeding	6,465	m2	25.00	\$ 161,625	29.26	\$ 189,198
Street Lighting	Street Lighting - Intersections	22	No.	18,000.00	\$ 396,000	20,654.87	\$ 454,407
Misc.	Regulatory Signage	1	Item	18,500.00	\$ 18,500	20,793.71	\$ 20,794
	Line marking	7,591	m2 of Pavement	5.00	\$ 37,955	6.58	\$ 49,915
	Landscape maintenance (intersections)	65	weeks	4,896.86	\$ 318,296	6,049.05	\$ 393,188
Other	Telecommunications underground relocation	438	m	586.85	\$ 257,040	674.88	\$ 295,596
	Electrical overhead relocation	398	m	1,073.19	\$ 427,130	1,234.17	\$ 491,200
	Water pipe relocation	71	m	3,697.18	\$ 262,500	4,251.76	\$ 301,875
	Tree/vegetation removal	759	m2	10.00	\$ 7,590	11.89	\$ 9,027
	Pavement removal	2,737	m2	100.00	\$ 273,700	118.93	\$ 325,516
Delivery	Council Fees	3	%	3.25	\$ 216,048	3.25	\$ 248,935
	VicRoads Fees	1	%	1.00	\$ 66,477	1.00	\$ 76,595
	Traffic Management	5	%	5.00	\$ 332,382	5.00	\$ 382,977
	Environmental Management	1	%	0.50	\$ 33,239	0.50	\$ 38,298
	Surveying and Design	5	%	5.00	\$ 332,382	5.00	\$ 382,977
	Supervision and Project management	9	%	9.00	\$ 598,286	9.00	\$ 689,358
	Site Establishment	3	%	2.50	\$ 166,191	2.50	\$ 191,488
	Contingency	15	%	15.00	\$ 997,144	15.00	\$ 1,148,930
Total	Excluding Delivery				\$ 6,647,621		\$ 7,659,535
	Including Delivery				\$ 9,390,000		\$ 10,820,000

Description:	GEELONG-BALLAN ROAD - INTERSECTION
Civil Component Number:	IN03

Geelong-Ballan Rd + Connector Rd							
Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Siteworks/ Earthworks	Site Preparation	19,600	m2	14.21	\$ 278,481	19.15	\$ 375,344
	Earthworks (Cut)	5,811	m3	99.45	\$ 577,917	118.28	\$ 687,326
	Earthworks (Fill)	3,201	m3	71.96	\$ 230,357	85.59	\$ 273,967
Road Pavement	Secondary Arterial Pavement	5,810	m2	176.35	\$ 1,024,589	185.75	\$ 1,079,203
	Collector Arterial Pavement	2,758	m2	163.65	\$ 451,352	175.00	\$ 482,644
	Subgrade Preparation	8,568	m2	6.01	\$ 51,488	6.83	\$ 58,512
	Lime stabilisation	344	m3	81.78	\$ 28,131	92.93	\$ 31,969
	Crushed rock capping layer	1,286	m3	105.50	\$ 135,677	121.33	\$ 156,036
Concrete Works	Kerb and Channel	1,870	m	82.42	\$ 154,125	91.58	\$ 171,250
	Cycle Path (SUP)	2,831	m2	261.30	\$ 739,736	313.67	\$ 887,992
	Footpath (Pedestrian Path)	1,439	m2	187.80	\$ 270,242	217.72	\$ 313,304
	Concrete Median	442	m2	204.47	\$ 90,374	245.44	\$ 108,487
Drainage	Drainage Pipe 300mm CR filled	155	m	528.20	\$ 81,871	581.39	\$ 90,115
	Drainage Pipe 375mm CR filled	935	m	550.34	\$ 514,565	601.02	\$ 561,950
	Drainage - pits	27	No.	4,361.37	\$ 117,757	4,770.60	\$ 128,806
	Drainage - Sub-soil drainage	1,870	m	94.99	\$ 177,635	121.68	\$ 227,549
Traffic signals	Traffic Signals (all inclusive)	1	Item	310,000.00	\$ 310,000	363,835.45	\$ 363,835
Landscape	Tree Planting	147	No.	1,000.00	\$ 147,000	1,196.71	\$ 175,916
	Landscaping	1,896	m2	30.00	\$ 56,880	34.93	\$ 66,224
	Topsoil Seeding	6,320	m2	25.00	\$ 158,000	29.26	\$ 184,954
Street Lighting	Street Lighting - Intersections	25	No.	18,000.00	\$ 450,000	20,654.87	\$ 516,372
Misc.	Regulatory Signage	1	Item	18,000.00	\$ 18,000	20,231.72	\$ 20,232
	Line marking	8,568	m2 of Pavement	5.00	\$ 42,840	6.58	\$ 56,339
	Landscape maintenance (intersections)	65	weeks	4,896.86	\$ 318,296	6,049.05	\$ 393,188
Other	Telecommunications underground relocation	670	m	714.00	\$ 478,380	821.10	\$ 550,137
	Electrical overhead relocation	482	m	1,210.00	\$ 583,220	1,391.50	\$ 670,703
	Tree/vegetation removal	857	m2	10.00	\$ 8,570	11.89	\$ 10,192
	Pavement removal	2,799	m2	100.00	\$ 279,900	118.93	\$ 332,890
Delivery	Council Fees	3	%	3.25	\$ 252,700	3.25	\$ 291,702
	VicRoads Fees	1	%	1.00	\$ 77,754	1.00	\$ 89,754
	Traffic Management	5	%	5.00	\$ 388,770	5.00	\$ 448,772
	Environmental Management	1	%	0.50	\$ 38,877	0.50	\$ 44,877
	Surveying and Design	5	%	5.00	\$ 388,770	5.00	\$ 448,772
	Supervision and Project management	9	%	9.00	\$ 699,785	9.00	\$ 807,789
	Site Establishment	3	%	2.50	\$ 194,385	2.50	\$ 224,386
Total	Contingency	15	%	15.00	\$ 1,166,308	15.00	\$ 1,346,316
	Excluding Delivery				\$ 7,775,387		\$ 8,975,438
	Including Delivery				\$ 10,983,000		\$ 12,678,000

<b>Description:</b>	GEELONG-BALLAN ROAD - INTERSECTION
<b>Civil Component Number:</b>	IN05

Geelong-Ballan Rd + Midland Highway							
Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Siteworks/ Earthworks	Site Preparation	45,138	m2	14.21	\$ 641,332	19.15	\$ 864,404
	Earthworks (Cut)	9,479	m3	99.44	\$ 942,595	118.27	\$ 1,121,043
	Earthworks (Fill)	9,479	m3	71.98	\$ 682,293	85.61	\$ 811,462
Road Pavement	Secondary Arterial Pavement	20,544	m2	175.75	\$ 3,610,699	185.12	\$ 3,803,160
	Subgrade Preparation	20,544	m2	6.01	\$ 123,456	6.83	\$ 140,299
	Lime stabilisation	823	m3	81.78	\$ 67,304	92.94	\$ 76,486
	Crushed rock capping layer	3,082	m3	105.50	\$ 325,161	121.33	\$ 373,954
Concrete Works	Kerb and Channel	4,392	m	82.42	\$ 361,989	91.58	\$ 402,210
	Cycle Path (SUP)	4,890	m2	261.30	\$ 1,277,749	313.67	\$ 1,533,833
	Footpath (Pedestrian Path)	1,622	m2	187.80	\$ 304,609	217.72	\$ 353,147
	Traffic Island	140	m2	204.46	\$ 28,625	245.44	\$ 34,362
Drainage	Drainage Pipe 300mm CR filled	291	m	528.21	\$ 153,708	581.39	\$ 169,186
	Drainage Pipe 375mm CR filled	2,196	m	550.34	\$ 1,208,540	601.02	\$ 1,319,832
	Drainage - pits	59	No.	4,357.08	\$ 257,068	4,765.91	\$ 281,189
	Drainage - Sub-soil drainage	4,392	m	94.99	\$ 417,205	121.68	\$ 534,436
Traffic signals	Traffic Signals (all inclusive)	1	Item	341,000.00	\$ 341,000	400,218.99	\$ 400,219
Landscape	Tree Planting	166	No.	1,000.00	\$ 166,000	1,196.71	\$ 198,654
	Landscaping	5,383	m2	30.00	\$ 161,478	34.93	\$ 188,005
	Topsoil Seeding	17,942	m2	25.00	\$ 448,550	29.26	\$ 525,071
Street Lighting	Street Lighting - Intersections	23	No.	18,000.00	\$ 414,000	20,654.87	\$ 475,062
Misc.	Regulatory Signage	1	Item	36,500.00	\$ 36,500	41,025.43	\$ 41,025
	Line marking	20,544	m2 of Pavement	5.00	\$ 102,720	6.58	\$ 135,088
	Landscape maintenance (intersections)	65	weeks	2,451.15	\$ 159,325	3,027.89	\$ 196,813
Other	Telecommunications underground relocation	1,948	m	714.00	\$ 1,390,872	821.10	\$ 1,599,503
	Electrical overhead relocation	1,232	m	1,210.00	\$ 1,490,720	1,391.50	\$ 1,714,328
	Relocate existing LV	163	m	750.00	\$ 122,250	862.50	\$ 140,588
	Water pipe relocation	659	m	1,500.00	\$ 988,500	1,725.00	\$ 1,136,775
	Stormwater Pipe Relocation	159	m	550.57	\$ 87,540	633.15	\$ 100,671
	FO UG cable relocation	719	m	1,139.00	\$ 818,941	1,309.85	\$ 941,782
	Tree/vegetation removal	2,055	m2	10.00	\$ 20,550	11.89	\$ 24,440
	Pavement removal	10,505	m2	100.00	\$ 1,050,500	118.93	\$ 1,249,377
Delivery	Council Fees	3	%	3.25	\$ 591,558	3.25	\$ 678,808
	VicRoads Fees	1	%	1.00	\$ 182,018	1.00	\$ 208,864
	Traffic Management	5	%	5.00	\$ 910,089	5.00	\$ 1,044,320
	Environmental Management	1	%	0.50	\$ 91,009	0.50	\$ 104,432
	Surveying and Design	5	%	5.00	\$ 910,089	5.00	\$ 1,044,320
	Supervision and Project management	9	%	9.00	\$ 1,638,161	9.00	\$ 1,879,776
	Site Establishment	3	%	2.50	\$ 455,045	2.50	\$ 522,160
Contingency	15	%	15.00	\$ 2,730,267	15.00	\$ 3,132,960	
Total	Excluding Delivery				\$ 18,201,779		\$ 20,886,403
	Including Delivery				\$ 25,710,000		\$ 29,503,000

<b>Description:</b>	GEELONG-BALLAN ROAD - INTERSECTION
<b>Civil Component Number:</b>	IN06

RD01 + Midland Highway							
Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Sitiworks/ Earthworks	Site Preparation	51,877	m2	14.21	\$ 737,081	19.15	\$ 993,457
	Earthworks (Cut)	3,512	m3	99.44	\$ 349,236	118.27	\$ 415,352
	Earthworks (Fill)	26,992	m3	71.99	\$ 1,943,045	85.61	\$ 2,310,895
Road Pavement	Secondary Arterial Pavement	28,203	m2	175.34	\$ 4,945,122	184.69	\$ 5,208,711
	Subgrade Preparation	28,203	m2	6.01	\$ 169,482	6.83	\$ 192,604
	Lime stabilisation	1,099	m3	81.78	\$ 89,875	92.94	\$ 102,136
	Crushed rock capping layer	4,121	m3	105.50	\$ 434,779	121.33	\$ 500,021
Concrete Works	Kerb and Channel	5,141	m	82.42	\$ 423,721	91.58	\$ 470,801
	Cycle Path (SUP)	3,700	m2	261.30	\$ 966,804	313.67	\$ 1,160,569
	Footpath (Pedestrian Path)	3,069	m2	187.80	\$ 576,354	217.72	\$ 668,193
Drainage	Drainage Pipe 300mm CR filled	264	m	528.20	\$ 139,446	581.39	\$ 153,488
	Drainage Pipe 375mm CR filled	2,571	m	550.34	\$ 1,414,916	601.02	\$ 1,545,213
	Drainage - pits	69	No.	4,358.87	\$ 300,762	4,767.86	\$ 328,982
	Drainage – Sub-soil drainage	5,141	m	94.99	\$ 488,354	121.68	\$ 625,577
Traffic signals	Traffic Signals (all inclusive)	1	Item	651,000.00	\$ 651,000	764,054.44	\$ 764,054
Landscape	Tree Planting	246	No.	1,000.00	\$ 246,000	1,196.71	\$ 294,391
	Landscaping	5,072	m2	30.00	\$ 152,145	34.92	\$ 177,139
	Topsoil Seeding	16,905	m2	25.00	\$ 422,625	29.26	\$ 494,723
Street Lighting	Street Lighting - Intersections	48	No.	18,000.00	\$ 864,000	20,654.87	\$ 991,434
Misc.	Regulatory Signage	1	Item	22,500.00	\$ 22,500	25,289.65	\$ 25,290
	Line marking	28,203	m2 of Pavement	5.00	\$ 141,015	6.58	\$ 185,451
	Landscape maintenance (intersections)	65	weeks	4,896.86	\$ 318,296	6,049.05	\$ 393,188
Other	Telecommunications underground relocation	1,605	m	714.00	\$ 1,145,970	821.10	\$ 1,317,866
	Water pipe relocation	780	m	1,500.00	\$ 1,170,000	1,725.00	\$ 1,345,500
	FO UG cable relocation	770	m	1,139.00	\$ 877,030	1,309.85	\$ 1,008,585
	Tree/vegetation removal	2,747	m2	10.00	\$ 27,470	11.89	\$ 32,671
	Pavement removal	7,432	m2	100.00	\$ 743,200	118.93	\$ 883,900
Delivery	Council Fees	3	%	3.25	\$ 642,208	3.25	\$ 734,181
	VicRoads Fees	1	%	1.00	\$ 197,603	1.00	\$ 225,902
	Traffic Management	5	%	5.00	\$ 988,012	5.00	\$ 1,129,509
	Environmental Management	1	%	0.50	\$ 98,802	0.50	\$ 112,951
	Surveying and Design	5	%	5.00	\$ 988,012	5.00	\$ 1,129,509
	Supervision and Project management	9	%	9.00	\$ 1,778,421	9.00	\$ 2,033,117
	Site Establishment	3	%	2.50	\$ 494,006	2.50	\$ 564,755
Contingency	15	%	15.00	\$ 2,964,035	15.00	\$ 3,388,528	
Total	Excluding Delivery				\$ 19,760,226		\$ 22,590,189
	Including Delivery				\$ 27,912,000		\$ 31,909,000

<b>Description:</b>	CREAMERY ROAD - INTERSECTION - Secondary - Connector Intersection
<b>Civil Component Number:</b>	CC07

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Situeworks/ Earthworks	Site Preparation	11,623	m2	14.21	\$ 165,142	19.15	\$ 222,583
	Earthworks (Cut)	5,144	m3	99.75	\$ 513,130	118.64	\$ 610,274
	Earthworks (Fill)	2,836	m3	71.96	\$ 204,092	85.59	\$ 242,730
Road Pavement	Secondary Arterial Pavement	3,454	m2	242.85	\$ 838,810	255.80	\$ 883,521
	Collector Arterial Pavement	2,329	m2	164.23	\$ 382,487	175.61	\$ 409,005
	Subgrade Preparation	5,783	m2	6.01	\$ 34,752	6.83	\$ 39,493
	Lime Stabilisation	233	m3	81.78	\$ 19,054	92.93	\$ 21,653
	Crushed rock capping layer	869	m3	105.50	\$ 91,682	121.33	\$ 105,440
Concrete Works	Kerb and Channel	1,283	m	82.42	\$ 105,745	91.58	\$ 117,494
	Cycle Path	1,399	m2	261.30	\$ 365,557	313.67	\$ 438,821
	Footpath	1,931	m2	187.80	\$ 362,639	217.72	\$ 420,424
	Concrete Median	421	m2	204.47	\$ 86,081	245.45	\$ 103,333
Drainage	Drainage Pipe 300mm CR Filled	101	m	528.20	\$ 53,348	581.38	\$ 58,720
	Drainage Pipe 375mm CR Ffilled	863	m	550.34	\$ 474,940	601.02	\$ 518,676
	Drainage - Pits	24	No.	4,359.58	\$ 104,630	4,768.64	\$ 114,447
	Drainage - Sub-soil drainage	1,725	m	94.99	\$ 163,861	121.68	\$ 209,905
Traffic signals	Traffic Signals (all inclusive)	1	Item	372,000.00	\$ 372,000	436,602.54	\$ 436,603
Landscape	Tree Planting	76	No.	1,000.00	\$ 76,000	1,196.71	\$ 90,950
	Landscaping	627	m2	29.99	\$ 18,801	34.91	\$ 21,890
	Topsoil Seeding	2,089	m2	25.00	\$ 52,225	29.26	\$ 61,134
Street Lighting	Street Lighting - Intersections	15	No.	18,000.00	\$ 270,000	20,654.87	\$ 309,823
Misc.	Regulatory Signage	1	Item	14,500.00	\$ 14,500	16,297.77	\$ 16,298
	Line marking	5,783	m2 of Pavement	5.00	\$ 28,915	6.58	\$ 38,026
	Landscape Maintenance (intersections)	1	Item	318,296.00	\$ 318,296	393,188.24	\$ 393,188
Other	Telecommunications Underground Relocation	537	m	714.00	\$ 383,418	821.10	\$ 440,931
	Electrical Overhead Relocation	268	m	1,210.00	\$ 324,280	1,391.50	\$ 372,922
	Water Relocation		m		NA		NA
	Tree/Vegetation Removal	1,163	m2	10.00	\$ 11,630	11.89	\$ 13,832
	Pavement Removal	1,885	m2	100.00	\$ 188,500	118.93	\$ 224,186
Delivery	Council Fees	1	%	3.25	\$ 195,797	3.25	\$ 225,430
	VicRoads Fees	1	%	1.00	\$ 60,246	1.00	\$ 69,363
	Traffic Management	1	%	5.00	\$ 301,226	5.00	\$ 346,815
	Environmental Management	1	%	0.50	\$ 30,123	0.50	\$ 34,682
	Surveying and Design	1	%	5.00	\$ 301,226	5.00	\$ 346,815
	Supervision and Project management	1	%	9.00	\$ 542,207	9.00	\$ 624,267
	Site Establishment	1	%	2.50	\$ 150,613	2.50	\$ 173,408
	Contingency	1	%	15.00	\$ 903,678	15.00	\$ 1,040,445
Total	Excluding Delivery				\$ 6,024,515		\$ 6,936,301
	Including Delivery				\$ 8,510,000		\$ 9,798,000

<b>Description:</b>	CREAMERY ROAD - INTERSECTION - Secondary - Connector Intersection
<b>Civil Component Number:</b>	CC09

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Siteworks/ Earthworks	Site Preparation	13,216	m2	14.21	\$ 187,776	19.15	\$ 253,089
	Earthworks (Cut)	6,526	m3	99.76	\$ 651,007	118.64	\$ 774,253
	Earthworks (Fill)	4,755	m3	71.99	\$ 342,290	85.61	\$ 407,091
Road Pavement	Secondary Arterial Pavement	4,544	m2	231.39	\$ 1,051,447	243.73	\$ 1,107,492
	Collector Arterial Pavement	1,771	m2	165.81	\$ 293,648	177.30	\$ 314,006
	Subgrade Preparation	6,315	m2	6.01	\$ 37,950	6.83	\$ 43,127
	Lime Stabilisation	253	m3	81.78	\$ 20,690	92.94	\$ 23,513
	Crushed rock capping layer	948	m3	105.50	\$ 100,017	121.33	\$ 115,025
Concrete Works	Kerb and Channel	1,637	m	82.42	\$ 134,922	91.58	\$ 149,913
	Cycle Path	1,472	m2	261.30	\$ 384,632	313.67	\$ 461,719
	Footpath	2,486	m2	187.80	\$ 466,867	217.72	\$ 541,260
	Concrete Median	396	m2	204.47	\$ 80,969	245.45	\$ 97,197
Drainage	Drainage Pipe 300mm CR Filled	89	m	528.20	\$ 47,010	581.39	\$ 51,744
	Drainage Pipe 375mm CR Ffilled	708	m	550.34	\$ 389,639	601.02	\$ 425,520
	Drainage - Pits	21	No.	4,366.57	\$ 91,698	4,776.29	\$ 100,302
	Drainage – Sub-soil drainage	1,416	m	94.99	\$ 134,508	121.68	\$ 172,304
Traffic signals	Traffic Signals (all inclusive)	1	Item	248,000.00	\$ 248,000	291,068.36	\$ 291,068
Landscape	Tree Planting	79	No.	1,000.00	\$ 79,000	1,196.71	\$ 94,540
	Landscaping	765	m2	29.96	\$ 22,923	34.89	\$ 26,689
	Topsoil Seeding	2,547	m2	25.00	\$ 63,675	29.26	\$ 74,538
Street Lighting	Street Lighting - Intersections	11	No.	18,000.00	\$ 198,000	20,654.87	\$ 227,204
Misc.	Regulatory Signage	1	Item	17,500.00	\$ 17,500	19,669.72	\$ 19,670
	Line marking	6,315	m2 of Pavement	5.00	\$ 31,575	6.58	\$ 41,525
	Landscape Maintenance (intersections)	1	Item	318,296.00	\$ 318,296	393,188.24	\$ 393,188
Other	Telecommunications Underground Relocation		m		NA		NA
	Electrical Overhead Relocation		m		NA		NA
	Water Relocation		m		NA		NA
	Tree/Vegetation Removal	1,322	m2	10.00	\$ 13,220	11.89	\$ 15,723
	Pavement Removal		m2		NA		NA
Delivery	Council Fees	1	%	3.25	\$ 175,736	3.25	\$ 202,205
	VicRoads Fees	1	%	1.00	\$ 54,073	1.00	\$ 62,217
	Traffic Management	1	%	5.00	\$ 270,363	5.00	\$ 311,085
	Environmental Management	1	%	0.50	\$ 27,037	0.50	\$ 31,108
	Surveying and Design	1	%	5.00	\$ 270,363	5.00	\$ 311,085
	Supervision and Project management	1	%	9.00	\$ 486,654	9.00	\$ 559,953
	Site Establishment	1	%	2.50	\$ 135,182	2.50	\$ 155,542
	Contingency	1	%	15.00	\$ 811,089	15.00	\$ 933,255
Total	Excluding Delivery				\$ 5,407,259		\$ 6,221,700
	Including Delivery				\$ 7,638,000		\$ 8,789,000

<b>Description:</b>	CREAMERY ROAD - INTERSECTION - Secondary - Secondary Intersection
<b>Civil Component Number:</b>	CC12

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Siteworks/ Earthworks	Site Preparation	13,965	m2	14.21	\$ 198,418	19.15	\$ 267,433
	Earthworks (Cut)	94,561	m3	99.76	\$ 9,433,468	118.65	\$ 11,219,376
	Earthworks (Fill)	52	m3	71.98	\$ 3,743	85.61	\$ 4,452
Road Pavement	Secondary Arterial Pavement	7,967	m2	216.05	\$ 1,721,301	227.57	\$ 1,813,051
	Subgrade Preparation	6,418	m2	7.46	\$ 47,876	8.48	\$ 54,408
	Lime Stabilisation	319	m3	81.78	\$ 26,087	92.93	\$ 29,646
	Crushed rock capping layer	1196	m3	105.50	\$ 126,182	121.33	\$ 145,117
Concret e Works	Kerb and Channel	1,514	m	82.42	\$ 124,784	91.58	\$ 138,649
	Cycle Path	1,045	m2	261.30	\$ 273,057	313.67	\$ 327,782
	Footpath	2,149	m2	187.80	\$ 403,579	217.72	\$ 467,887
Drainage	Drainage Pipe 300mm CR Filled	121	m	528.20	\$ 63,912	581.39	\$ 70,348
	Drainage Pipe 375mm CR Filled	997	m	550.34	\$ 548,686	601.02	\$ 599,213
	Drainage - Pits	28	No.	4,359.57	\$ 122,068	4768.63	\$ 133,522
	Drainage – Sub-soil drainage	1,994	m	94.99	\$ 189,414	121.68	\$ 242,638
Traffic signals	Traffic Signals (all inclusive)	1	Item	372,000.00	\$ 372,000	436602.54	\$ 436,603
Landscape	Tree Planting	72	No.	1,000.00	\$ 72,000	1196.71	\$ 86,163
	Landscaping	841	m2	30.01	\$ 25,236	34.94	\$ 29,382
	Topsoil Seeding	2,804	m2	25.00	\$ 70,100	29.26	\$ 82,059
Street Lighting	Street Lighting - Intersections	12	No.	18,000.00	\$ 216,000	20654.87	\$ 247,858
Misc	Regulatory Signage	1	Item	18,000.00	\$ 18,000	20231.72	\$ 20,232
	Line marking	7,967	m2 of Pavement	5.00	\$ 39,835	6.58	\$ 52,388
	Landscape Maintenance (intersections)	1	Item	318,296.00	\$ 318,296	393188.24	\$ 393,188
Other	Telecommunicatians Underground Relocation		m		NA		NA
	Electrical Overhead Relocation		m		NA		NA
	Water Relocation	201	m	1,500.00	\$ 301,500	1725.00	\$ 346,725
	Tree/Vegetation Removal	1,397	m2	10.00	\$ 13,970	11.89	\$ 16,615
	Pavement Removal	1,263	m2	100.00	\$ 126,300	118.93	\$ 150,211
Delivery	Council Fees	1	%	3.25	\$ 482,814	3.25	\$ 564,686
	VicRoads Fees	1	%	1.00	\$ 148,559	1.00	\$ 173,749
	Traffic Management	1	%	5.00	\$ 742,791	5.00	\$ 868,747
	Environmental Management	1	%	0.50	\$ 74,280	0.50	\$ 86,875
	Surveying and Design	1	%	5.00	\$ 742,791	5.00	\$ 868,747
	Supervision and Project management	1	%	9.00	\$ 1,337,024	9.00	\$ 1,563,745
	Site Establishment	1	%	2.50	\$ 371,396	2.50	\$ 434,374
	Contingency	1	%	15.00	\$ 2,228,372	15.00	\$ 2,606,241
Total	Excluding Delivery				\$ 14,855,812		\$ 17,374,943
	Including Delivery				\$ 20,984,000		\$ 24,543,000

<b>Description:</b>	CREAMERY ROAD - INTERSECTION - Secondary - Connector Intersection
<b>Civil Component Number:</b>	ER 14

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Siteworks/ Earthworks	Site Preparation	10,680	m2	14.21	\$ 151,744	19.15	\$ 204,525
	Earthworks (Cut)	7,038	m3	99.76	\$ 702,084	118.64	\$ 835,000
	Earthworks (Fill)	571	m3	71.89	\$ 41,051	85.50	\$ 48,823
Road Pavement	Secondary Arterial Pavement	2,937	m2	175.20	\$ 514,556	184.54	\$ 541,983
	Subgrade Preparation	2,937	m2	6.01	\$ 17,649	6.83	\$ 20,057
	Lime Stabilisation	118	m3	81.78	\$ 9,650	92.94	\$ 10,967
	Crushed Rock Capping layer	441	m3	105.50	\$ 46,527	121.34	\$ 53,509
Concrete Works	Kerb and Channel	890	m	82.42	\$ 73,354	91.58	\$ 81,504
	Cycle Path	1,335	m2	261.30	\$ 348,833	313.67	\$ 418,745
	SUP/ Footpath	2,225	m2	187.80	\$ 417,852	217.72	\$ 484,435
Drainage	Drainage Pipe 300mm CR Bfilled	59	m	528.20	\$ 31,164	581.39	\$ 34,302
	Drainage Pipe 375mm CR Bfilled	890	m	550.34	\$ 489,800	601.02	\$ 534,905
	Drainage - pits	24	No.	4,359.58	\$ 104,630	4,768.64	\$ 114,447
	Drainage - Sub-soil drainage	890	m	94.99	\$ 84,543	121.68	\$ 108,299
Landscape	Tree Planting	45	No.	1,000.00	\$ 45,000	1,196.71	\$ 53,852
	Landscaping	1,215	m2	30.00	\$ 36,450	34.93	\$ 42,438
	Topsoil Seeding, 100mm depth	4,050	m2	25.00	\$ 101,250	29.26	\$ 118,523
Street Lighting	Street Lighting - Intersections	21	No.	18,000.00	\$ 378,000	20,654.87	\$ 433,752
Misc	Regulatory Signage	1	Item	7,500.00	\$ 7,500	8,429.88	\$ 8,430
	Linemarking	2,937	m2	5.00	\$ 14,685	6.58	\$ 19,312
	Landscape maintenance (intersections)	1	Item	159,325.00	\$ 159,325	196,812.77	\$ 196,813
Other	Telecommunications underground relocation	470	m	714.00	\$ 335,580	821.10	\$ 385,917
	Electrical overhead relocation	474	m	1,210.00	\$ 573,540	1,391.50	\$ 659,571
	Water pipe relocation	352	m	1,500.00	\$ 528,000	1,725.00	\$ 607,200
	Tree/vegetation removal	1,068	m2	10.00	\$ 10,680	11.89	\$ 12,702
	Pavement Removal	2,650	m2	100.00	\$ 265,000	118.93	\$ 315,169
Delivery	Council Fees	1	%	3.25	\$ 178,375	3.25	\$ 206,218
	VicRoads Fees	1	%	1.00	\$ 54,885	1.00	\$ 63,452
	Traffic Management	1	%	5.00	\$ 274,423	5.00	\$ 317,259
	Environmental Management	1	%	0.50	\$ 27,443	0.50	\$ 31,726
	Surveying and Design	1	%	5.00	\$ 274,423	5.00	\$ 317,259
	Supervision and Project management	1	%	9.00	\$ 493,961	9.00	\$ 571,066
	Site Establishment	1	%	2.50	\$ 137,212	2.50	\$ 158,629
Contingency	1	%	15.00	\$ 823,268	15.00	\$ 951,777	
Total	Excluding Delivery				\$ 5,488,446		\$ 6,345,178
	Including Delivery				\$ 7,753,000		\$ 8,963,000

<b>Description:</b>	CREAMERY ROAD - INTERSECTION - Secondary - Connector Intersection
<b>Civil Component Number:</b>	ER 15

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Siteworks/ Earthworks	Site Preparation	8,280	m2	14.21	\$ 117,644	19.15	\$ 158,564
	Earthworks (Cut)	3,168	m3	99.74	\$ 315,975	118.62	\$ 375,794
	Earthworks (Fill)	3,354	m3	71.98	\$ 241,427	85.61	\$ 287,133
Road Pavement	Secondary Arterial Pavement	2,277	m2	175.29	\$ 399,143	184.64	\$ 420,418
	Subgrade Preparation	2,277	m2	6.01	\$ 13,683	6.83	\$ 15,550
	Lime Stabilisation	92	m3	81.78	\$ 7,524	92.94	\$ 8,550
	Crushed Rock Capping layer	342	m3	105.50	\$ 36,082	121.33	\$ 41,496
Concrete Works	Kerb and Channel	690	m	82.42	\$ 56,870	91.58	\$ 63,189
	Cycle Path	1,035	m2	261.30	\$ 270,444	313.67	\$ 324,646
	SUP/ Footpath	1,725	m2	187.80	\$ 323,952	217.72	\$ 375,572
Drainage	Drainage Pipe 300mm CR Bfilled	46	m	528.20	\$ 24,297	581.38	\$ 26,744
	Drainage Pipe 375mm CR Bfilled	690	m	550.34	\$ 379,732	601.02	\$ 414,701
	Drainage - pits	19	No.	4,362.16	\$ 82,881	4,771.46	\$ 90,658
	Drainage - Sub-soil drainage	690	m	94.99	\$ 65,544	121.68	\$ 83,961
Landscape	Tree Planting	35	No.	1,000.00	\$ 35,000	1,196.71	\$ 41,885
	Landscaping	942	m2	30.00	\$ 28,260	34.93	\$ 32,902
	Topsoil Seeding, 100mm depth	3,140	m2	25.00	\$ 78,500	29.26	\$ 91,892
Street Lighting	Street Lighting - Intersections	17	No.	18,000.00	\$ 306,000	20,654.87	\$ 351,133
Misc	Regulatory Signage	1	Item	7,000.00	\$ 7,000	7,867.89	\$ 7,868
	Linemarking	2,277	m2	5.00	\$ 11,385	6.58	\$ 14,973
	Landscape maintenance (intersections)	1	Item	159,325.00	\$ 159,325	196,812.77	\$ 196,813
Other	Telecommunications underground relocation	459	m	714.00	\$ 327,726	821.10	\$ 376,885
	Electrical overhead relocation	378	m	1,210.00	\$ 457,380	1,391.50	\$ 525,987
	Water pipe relocation	322	m	1,500.00	\$ 483,000	1,725.00	\$ 555,450
	Tree/vegetation removal	828	m2	10.00	\$ 8,280	11.89	\$ 9,848
	Pavement Removal	2465	m2	100.00	\$ 246,500	118.93	\$ 293,166
Delivery	Council Fees	1	%	3.25	\$ 145,716	3.25	\$ 168,538
	VicRoads Fees	1	%	1.00	\$ 44,836	1.00	\$ 51,858
	Traffic Management	1	%	5.00	\$ 224,178	5.00	\$ 259,289
	Environmental Management	1	%	0.50	\$ 22,418	0.50	\$ 25,929
	Surveying and Design	1	%	5.00	\$ 224,178	5.00	\$ 259,289
	Supervision and Project management	1	%	9.00	\$ 403,520	9.00	\$ 466,720
	Site Establishment	1	%	2.50	\$ 112,089	2.50	\$ 129,644
Contingency	1	%	15.00	\$ 672,534	15.00	\$ 777,867	
Total	Excluding Delivery				\$ 4,483,554		\$ 5,189,798
	Including Delivery				\$ 6,334,000		\$ 7,329,000

Description:	CREAMERY ROAD - INTERSECTION - Secondary - Connector Intersection
Civil Component Number:	ER16

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Sitemworks/ Earthworks	Site Preperation	19,872	m2	14.21	\$ 282,346	19.15	\$ 380,553
	Earthworks (Cut)	10,512	m3	99.76	\$ 1,048,650	118.64	\$ 1,247,176
	Earthworks (Fill)	4,008	m3	71.97	\$ 288,475	85.60	\$ 343,088
Road Pavement	Secondary Arterial Pavement	5,465	m2	175.14	\$ 957,167	184.48	\$ 1,008,187
	Subgrade Preparation	5,465	m2	6.01	\$ 32,841	6.83	\$ 37,321
	Lime Stablisation	219	m3	81.78	\$ 17,909	92.93	\$ 20,352
	Crushed Rock Capping layer	820	m3	105.50	\$ 86,513	121.34	\$ 99,495
Concrete Works	Kerb and Channel	1,656	m	82.42	\$ 136,488	91.58	\$ 151,653
	Cycle Path	2,484	m2	261.30	\$ 649,065	313.67	\$ 779,149
	SUP/ Footpath	4,140	m2	187.80	\$ 777,486	217.72	\$ 901,374
Drainage	Drainage Pipe 300mm CR Bfilled	110	m	528.21	\$ 58,103	581.40	\$ 63,954
	Drainage Pipe 375mm CR Bfilled	1,656	m	550.34	\$ 911,358	601.02	\$ 995,283
	Drainage - pits	44	No.	4,355.11	\$ 191,625	4,763.75	\$ 209,605
	Drainage – Sub-soil drainage	1,656	m	94.99	\$ 157,307	121.68	\$ 201,509
Traffic signals	Traffic Signals (all inclusive)	1	Item	300,000.00	\$ 300,000	352,098.82	\$ 352,099
Landscape	Tree Planting	83	No.	1,000.00	\$ 83,000	1,196.71	\$ 99,327
	Landscaping	2,261	m2	29.99	\$ 67,815	34.92	\$ 78,955
	Topsoil Seeding, 100mm depth	7,535	m2	25.00	\$ 188,375	29.26	\$ 220,511
Street Lighting	Street Lighting - Intersections	37	No.	18,000.00	\$ 666,000	20,654.87	\$ 764,230
Misc	Regulatory Signage	1	Item	14,500.00	\$ 14,500	16,297.77	\$ 16,298
	Linemarking	5,465	m2	5.00	\$ 27,325	6.58	\$ 35,935
	Landscape maintenance (intersections)	1	Item	159,325.00	\$ 159,325	196,812.77	\$ 196,813
Other	Telecommunications underground relocation	470	m	714.00	\$ 335,580	821.10	\$ 385,917
	Optic Fibre relocation	1	item	200,000.00	\$ 200,000	230,000.00	\$ 230,000
	Electrical overhead relocation	474	m	1,210.00	\$ 573,540	1,391.50	\$ 659,571
	Relocate existing HV	225	m	1,100.00	\$ 247,500	1,265.00	\$ 284,625
	Relocate existing LV	106	m	750.00	\$ 79,500	862.50	\$ 91,425
	Water pipe relocation	352	m	1,500.00	\$ 528,000	1,725.00	\$ 607,200
	Tree/vegetation removal	1,988	m2	10.00	\$ 19,880	11.89	\$ 23,644
	Pavement Removal	7,579	m2	100.00	\$ 757,900	118.93	\$ 901,383
Delivery	Council Fees	1	%	3.25	\$ 319,917	3.25	\$ 370,066
	VicRoads Fees	1	%	1.00	\$ 98,436	1.00	\$ 113,866
	Traffic Management	1	%	5.00	\$ 492,179	5.00	\$ 569,332
	Environmental Management	1	%	0.50	\$ 49,218	0.50	\$ 56,933
	Surveying and Design	1	%	5.00	\$ 492,179	5.00	\$ 569,332
	Supervision and Project management	1	%	9.00	\$ 885,922	9.00	\$ 1,024,797
	Site Establishment	1	%	2.50	\$ 246,090	2.50	\$ 284,666
Total	Contingency	1	%	15.00	\$ 1,476,536	15.00	\$ 1,707,995
	Excluding Delivery				\$ 9,843,572		\$ 11,386,634
	Including Delivery				\$ 13,905,000		\$ 16,084,000



<b>Description:</b>	CREAMERY ROAD - INTERSECTION - Secondary - Connector Intersection
<b>Civil Component Number:</b>	ER 17

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Sitiworks/ Earthworks	Site Preparation	10,104	m2	14.21	\$ 143,560	19.15	\$ 193,494
	Earthworks (Cut)	3,657	m3	99.74	\$ 364,757	118.62	\$ 433,811
	Earthworks (Fill)	1,038	m3	71.96	\$ 74,699	85.59	\$ 88,841
Road Pavement	Secondary Arterial Pavement	2,779	m2	175.21	\$ 486,911	184.55	\$ 512,865
	Subgrade Preparation	2,779	m2	6.01	\$ 16,700	6.83	\$ 18,978
	Lime Stabilisation	112	m3	81.78	\$ 9,159	92.93	\$ 10,409
	Crushed Rock Capping layer	417	m3	105.50	\$ 43,995	121.34	\$ 50,597
Concrete Works	Kerb and Channel	842	m	82.42	\$ 69,398	91.58	\$ 77,109
	Cycle Path	1,263	m2	261.30	\$ 330,020	313.67	\$ 396,162
	SUP/ Footpath	2,105	m2	187.80	\$ 395,316	217.72	\$ 458,308
Drainage	Drainage Pipe 300mm CR Bfilled	56	m	528.20	\$ 29,579	581.38	\$ 32,557
	Drainage Pipe 375mm CR Bfilled	842	m	550.34	\$ 463,384	601.02	\$ 506,056
	Drainage - pits	23	No.	4,361.70	\$ 100,319	4,770.95	\$ 109,732
	Drainage – Sub-soil drainage	842	m	94.99	\$ 79,983	121.68	\$ 102,458
Landscape	Tree Planting	43	No.	1,000.00	\$ 43,000	1,196.71	\$ 51,459
	Landscaping	1,150	m2	30.00	\$ 34,488	34.93	\$ 40,154
	Topsoil Seeding, 100mm depth	3,832	m2	25.00	\$ 95,800	29.26	\$ 112,143
Street Lighting	Street Lighting - Intersections	20	No.	18,000.00	\$ 360,000	20,654.87	\$ 413,097
Misc	Regulatory Signage	1	Item	7,500.00	\$ 7,500	8,429.88	\$ 8,430
	Linemarking	2,779	m2	5.00	\$ 13,895	6.58	\$ 18,273
	Landscape maintenance (intersections)	1	Item	159,325.00	\$ 159,325	196,812.77	\$ 196,813
Other	Telecommunications underground relocation	525	m	714.00	\$ 374,850	821.10	\$ 431,078
	Electrical overhead relocation	482	m	1,210.00	\$ 583,220	1,391.50	\$ 670,703
	Water pipe relocation	482	m	1,500.00	\$ 723,000	1,725.00	\$ 831,450
	Water Main relocation	1	Item	100,000.00	\$ 100,000	115,000.00	\$ 115,000
	Tree/vegetation removal	1,011	m2	10.00	\$ 10,110	11.89	\$ 12,024
	Pavement Removal	2,806	m2	100.00	\$ 280,600	118.93	\$ 333,722
Delivery	Council Fees	1	%	3.25	\$ 175,291	3.25	\$ 202,336
	VicRoads Fees	1	%	1.00	\$ 53,936	1.00	\$ 62,257
	Traffic Management	1	%	5.00	\$ 269,679	5.00	\$ 311,286
	Environmental Management	1	%	0.50	\$ 26,968	0.50	\$ 31,129
	Surveying and Design	1	%	5.00	\$ 269,679	5.00	\$ 311,286
	Supervision and Project management	1	%	9.00	\$ 485,422	9.00	\$ 560,315
	Site Establishment	1	%	2.50	\$ 134,840	2.50	\$ 155,643
	Contingency	1	%	15.00	\$ 809,036	15.00	\$ 933,858
Total	Excluding Delivery				\$ 5,393,567		\$ 6,230,189
	Including Delivery				\$ 7,619,000		\$ 8,799,000

<b>Description:</b>	CREAMERY ROAD - Drainage - Culvert
<b>Civil Component</b>	CU1

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
<b>Sitework and Earthwork</b>	Site Preparation	1	Item	20000.00	\$ 20,000	23000.00	\$ 23,000
	Diversion works (item)	1	Item	15000.00	\$ 15,000	17250.00	\$ 17,250
	Waterway re-shaping	1	Item	5000.00	\$ 5,000	5750.00	\$ 5,750
	Stripping of topsoil	478	m2	6.00	\$ 2,868	6.90	\$ 3,298
	Excavation (m3)	30	m3	77.27	\$ 2,318	88.86	\$ 2,666
	Formation of batters (m3)	153	m3	103.00	\$ 15,759	118.45	\$ 18,123
<b>Drainage Structure</b>	Circular Pipes 1500 dia (m)	98	m	2832.50	\$ 277,585	3257.38	\$ 319,223
	Foundation Slab 1500 dia (250 mm)	165	m2	238.97	\$ 39,430	274.82	\$ 45,345
	Granular Bedding 150 mm thick crushed	8	m2	26	\$ 204	29.33	\$ 235
	Apron Slab (m2)	161	m2	247	\$ 39,799	284.28	\$ 45,769
	Wing wall (m2)	22	m2	618	\$ 13,596	710.70	\$ 15,635
	Endwall (m2)	33	m2	618	\$ 20,394	710.70	\$ 23,453
	Rock beaching	77	m2	125	\$ 9,625	143.75	\$ 11,069
<b>On Structure</b>	Pavement on top of Culvert	165	m2	175	\$ 28,892	201.37	\$ 33,226
	Structural Fill (m3)	317	m3	144	\$ 45,711	165.83	\$ 52,568
	Vehicle Barrier	31	lm	175	\$ 5,425	201.25	\$ 6,239
	Signs (Item)	1	Item	12,000	\$ 12,000	13800.00	\$ 13,800
	Linemarking	117	m2/pav	5	\$ 585	5.75	\$ 673
<b>Delivery</b>	Council Fees	1	%	3.25	\$ 18,011	3.25	\$ 20,691
	Authority Fees	1	%	1.00	\$ 5,542	1.00	\$ 6,366
	Traffic Management	1	%	5.00	\$ 27,710	5.00	\$ 31,832
	Environmental Management	1	%	0.50	\$ 2,771	0.50	\$ 3,183
	Surveying and Design	1	%	5.00	\$ 27,710	5.00	\$ 31,832
	Supervision and Project management	1	%	9.00	\$ 49,877	9.00	\$ 57,298
	Site Establishment	1	%	2.50	\$ 13,855	2.50	\$ 15,916
	Contingency	1	%	15.00	\$ 83,129	15.00	\$ 95,497
<b>Total</b>	Excluding Delivery				\$ 554,191		\$ 637,320
	Including Delivery				\$ 783,000		\$ 901,000

<b>Description:</b>	CREAMERY ROAD - Drainage - Culvert
<b>Civil Component</b>	CU2

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Sitework and Earthwork	Site Preparation	1	Item	20000.00	\$ 20,000	23000.00	\$ 23,000
	Diversion works (Item)	1	Item	15000.00	\$ 15,000	17250.00	\$ 17,250
	Waterway re-shaping	1	Item	5000.00	\$ 5,000	5750.00	\$ 5,750
	Stripping of topsoil	400	m2	6.00	\$ 2,400	6.90	\$ 2,760
	Excavation (m3)	21	m3	77.24	\$ 1,622	88.82	\$ 1,865
	Formation of batters (m3)	122	m3	103.00	\$ 12,566	118.45	\$ 14,451
Drainage Structure	Circular Pipes 1200 dia (m)	86	m	2750.00	\$ 236,500	3162.50	\$ 271,975
	Foundation Slab 1500 dia (250 mm)	129	m2	240.00	\$ 30,960	276.00	\$ 35,604
	Granular Bedding 150 mm thick crushed	7	m2	25.43	\$ 178	29.24	\$ 205
	Apron Slab (m2)	116	m2	247.20	\$ 28,675	284.28	\$ 32,976
	Wing wall (m2)	20	m2	618.00	\$ 12,360	710.70	\$ 14,214
	Endwall (m2)	24	m2	618.00	\$ 14,832	710.70	\$ 17,057
	Rock beaching	70	m2	125.00	\$ 8,750	143.75	\$ 10,063
On Structure	Pavement on top of Culvert	129	m2	175	\$ 22,588	201.37	\$ 25,976
	Structural Fill (m3)	255	m3	144.20	\$ 36,771	165.83	\$ 42,287
	Vehicle Barrier	20	lm	176.40	\$ 3,528	202.86	\$ 4,057
	Signs (Item)	4	Item	3000.00	\$ 12,000	3450.00	\$ 13,800
	Line marking	54	m2/pav	5.02	\$ 271	5.77	
Delivery	Council Fees	1	%	3.25	\$ 15,080	3.25	\$ 17,332
	Authority Fees	1	%	1.00	\$ 4,640	1.00	\$ 5,333
	Traffic Management	1	%	5.00	\$ 23,200	5.00	\$ 26,664
	Environmental Management	1	%	0.50	\$ 2,320	0.50	\$ 2,666
	Surveying and Design	1	%	5.00	\$ 23,200	5.00	\$ 26,664
	Supervision and Project management	1	%	9.00	\$ 41,760	9.00	\$ 47,996
	Site Establishment	1	%	2.50	\$ 11,600	2.50	\$ 13,332
	Contingency	1	%	15.00	\$ 70,197	15.00	\$ 79,993
Total	Excluding Delivery				\$ 464,002		\$ 533,290
	Including Delivery				\$ 656,000		\$ 754,000

<b>Description:</b>	CREAMERY ROAD - Drainage - Culvert
<b>Civil Component</b>	CU3

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Sitework and Earthwork	Site Preparation	1	Item	20000.00	\$ 20,000	23000.00	\$ 23,000
	Diversion works (item)	1	Item	15000.00	\$ 15,000	17250.00	\$ 17,250
	Waterway re-shaping	1	Item	5000.00	\$ 5,000	5750.00	\$ 5,750
	Stripping of topsoil	442	m2	6.00	\$ 2,652	6.90	\$ 3,050
	Excavation (m3)	23	m3	77.26	\$ 1,777	88.85	\$ 2,044
	Formation of batters (m3)	136	m3	103.00	\$ 14,008	118.45	\$ 16,109
Drainage Structure	Circular Pipes 1200 dia (m)	96	m	2750.00	\$ 264,000	3162.50	\$ 303,600
	Foundation Slab 1500 dia (250 mm)	144	m2	240.00	\$ 34,560	276.00	\$ 39,744
	Granular Bedding 150 mm thick crushed	8	m2	25.50	\$ 204	29.33	\$ 235
	Apron Slab (m2)	129	m2	247.20	\$ 31,889	284.28	\$ 36,672
	Wing wall (m2)	20	m2	618.00	\$ 12,360	710.70	\$ 14,214
	Endwall (m2)	29	m2	618.00	\$ 17,922	710.70	\$ 20,610
	Rock beaching	70	m2	125.00	\$ 8,750	143.75	\$ 10,063
On Structure	Pavement on top of Culvert	144	m2	175	\$ 25,214	201.36	\$ 28,996
	Structural Fill (m3)	283	m3	144.20	\$ 40,809	165.83	\$ 46,930
	Vehicle Barrier	29	lm	175.00	\$ 5,075	201.25	\$ 5,836
	Signs (Item)	4	Item	3000.00	\$ 12,000	3450.00	\$ 13,800
	Line marking	72	m2/pav	5.00	\$ 360	5.75	
Delivery	Council Fees	1	%	3.25	\$ 16,626	3.25	\$ 19,107
	Authority Fees	1	%	1.00	\$ 5,116	1.00	\$ 5,879
	Traffic Management	1	%	5.00	\$ 25,579	5.00	\$ 29,395
	Environmental Management	1	%	0.50	\$ 2,558	0.50	\$ 2,940
	Surveying and Design	1	%	5.00	\$ 25,579	5.00	\$ 29,395
	Supervision and Project management	1	%	9.00	\$ 46,042	9.00	\$ 52,911
	Site Establishment	1	%	2.50	\$ 12,790	2.50	\$ 14,698
	Contingency	1	%	15.00	\$ 76,737	15.00	\$ 88,185
Total	Excluding Delivery				\$ 511,579		\$ 587,903
	Including Delivery				\$ 723,000		\$ 831,000

<b>Description:</b>	CREAMERY ROAD - INTERSECTION - Secondary - Connector Intersection
<b>Civil Component</b>	POS-01

Group	Sub Item	Qty	Unit	Rate (P50)	Amount (P50)	Rate (P90)	Amount (P90)
Concrete Works	SUP/ Footpath	15	m2	187.80	2817.00	217.72	3265.87
	Pram Crossing	2	nos	1500.00	3000.00	1725.00	3450.00
	Tactile Pavers	4	m2	250.00	1000.00	287.50	1150.00
Traffic signals	Traffic Signals (all inclusive)	1	Item	90000.00	90000.00	105629.65	105629.65
Misc.	Regulatory Signage	2.00	Item	500.00	1000.00	561.99	1123.98
	Line marking	100.00	m2 of Pavement	5.00	500.00	6.58	657.56
Delivery	Council Fees	1	%	3.25	3195.30	3.25	3746.50
	VicRoads Fees	1	%	1.00	983.17	1.00	1152.77
	Traffic Management	1	%	5.00	4915.85	5.00	5763.85
	Environmental Management	1	%	0.50	491.59	0.50	576.39
	Surveying and Design	1	%	5.00	4915.85	5.00	5763.85
	Supervision and Project management	1	%	9.00	8848.53	9.00	10374.94
	Site Establishment	1	%	2.50	2457.93	2.50	2881.93
	Contingency	1	%	15.00	14747.55	15.00	17291.56
Total	Excluding Delivery				<b>98,317</b>		<b>115,277</b>
	Including Delivery				<b>139,000</b>		<b>163,000</b>