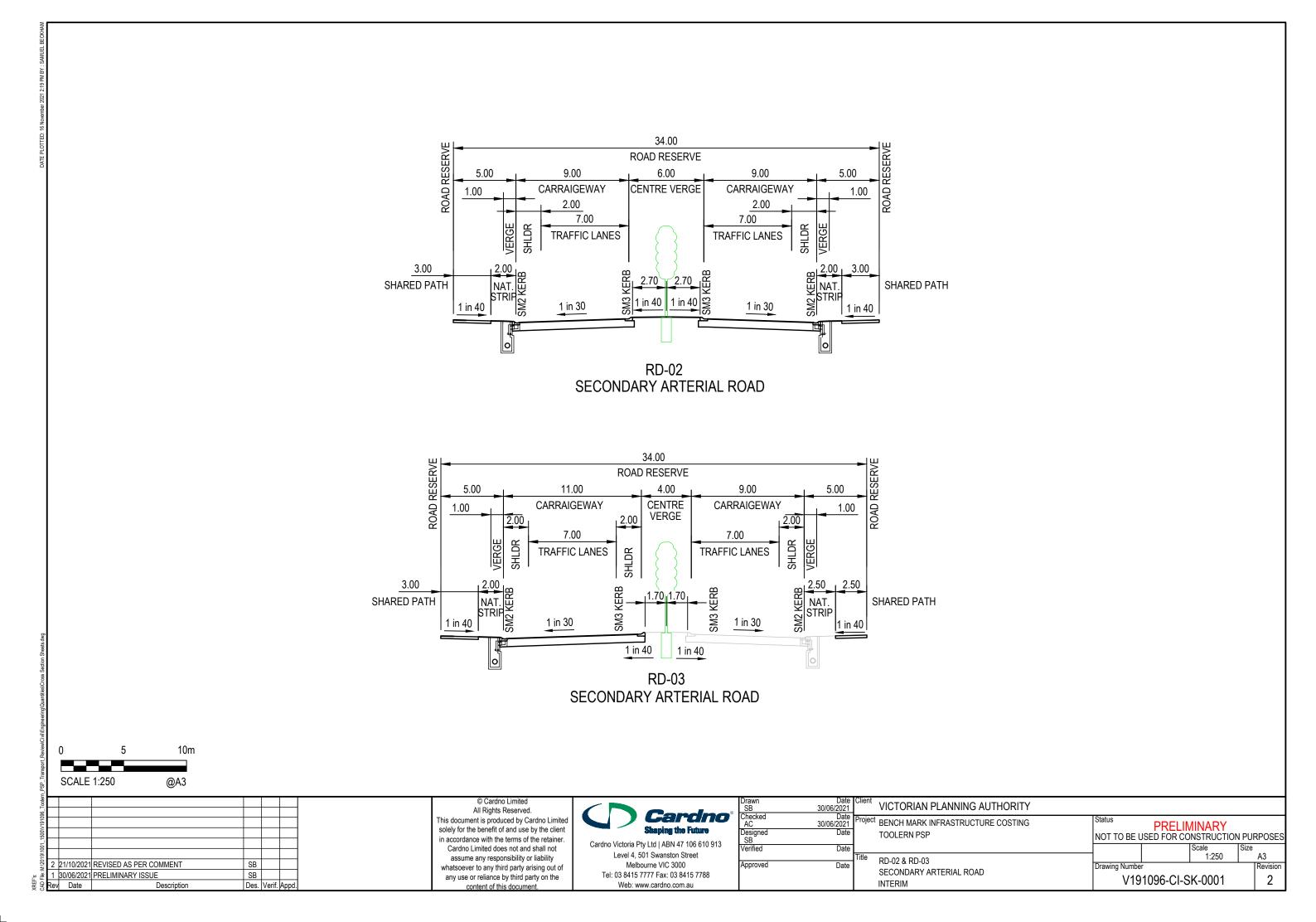
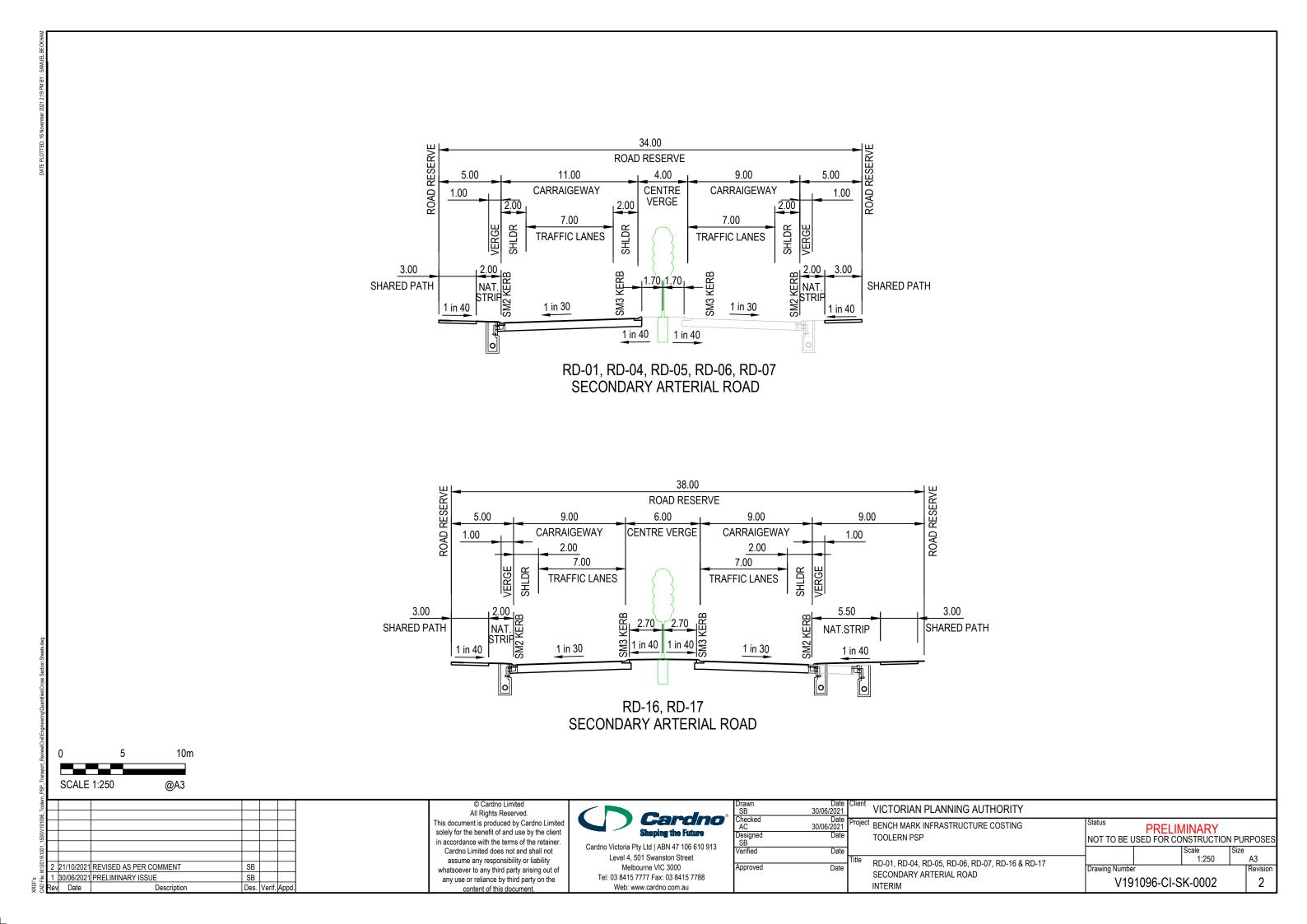
APPENDIX

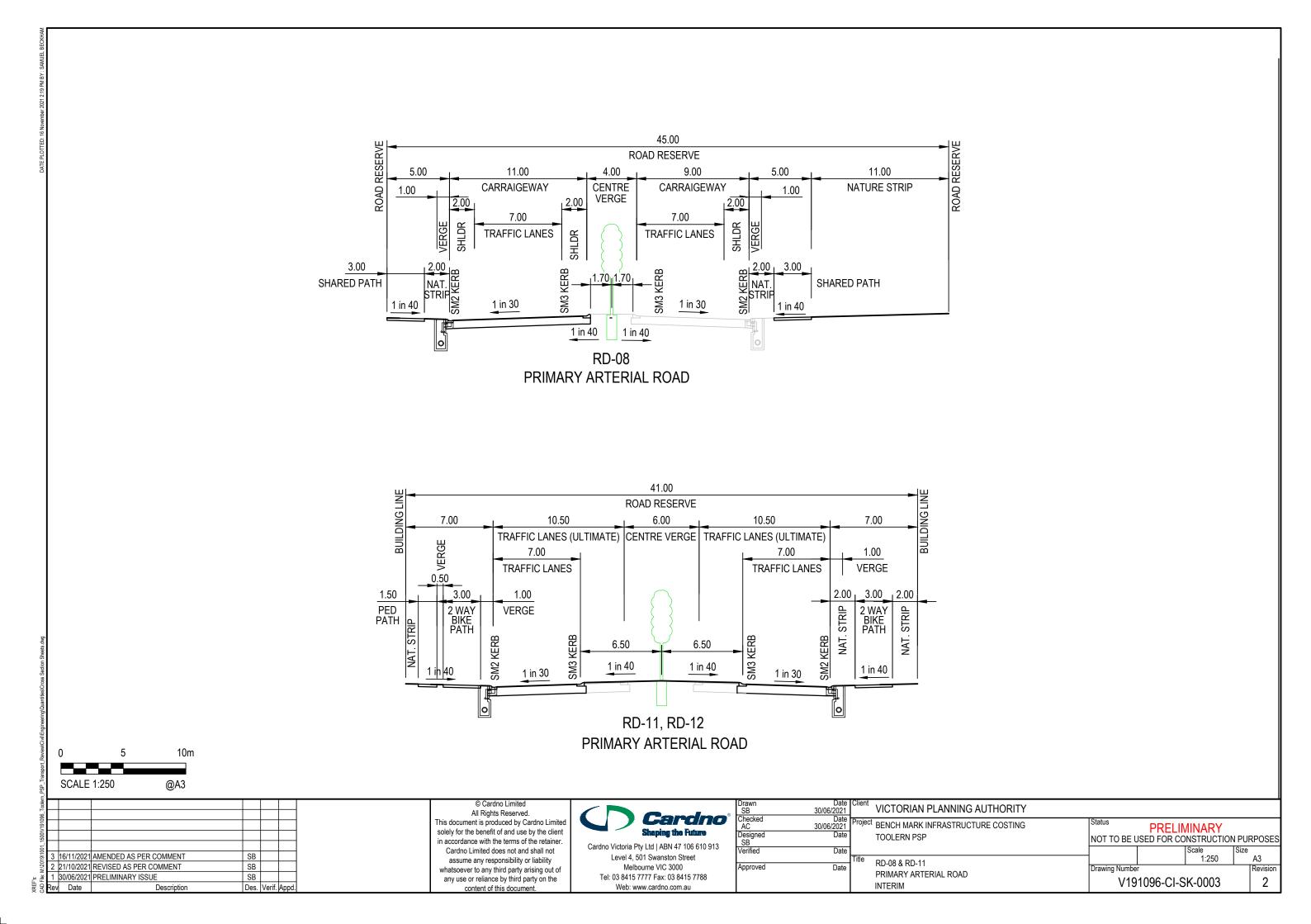
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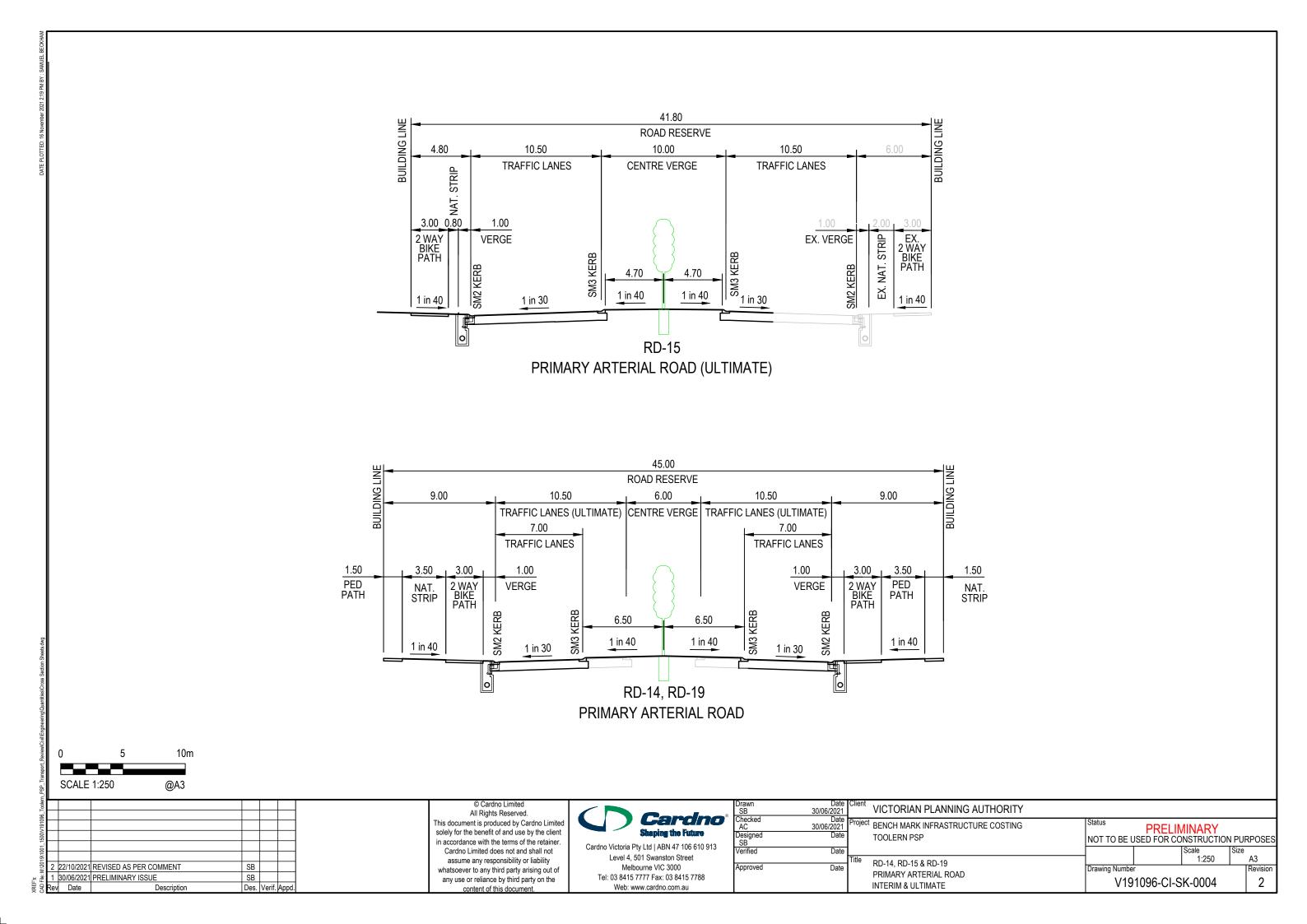
PSP ROAD CROSS SECTIONS

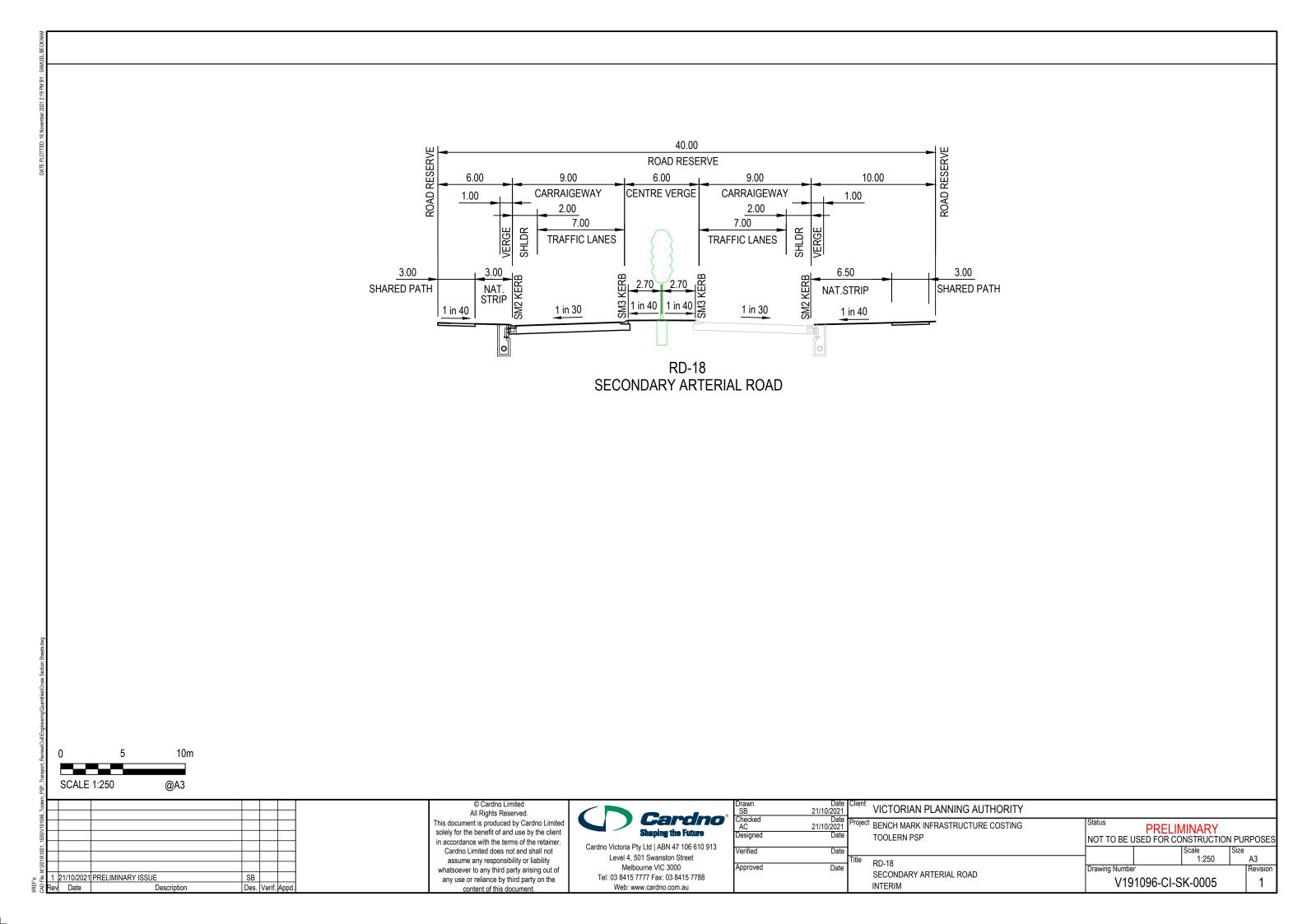












APPENDIX

TOOLEDNI DRECINCT

TOOLERN PRECINCT BRIDGES COSTINGS REPORT





Cardno / Melton City Council

117959 - Toolern Precinct Bridges

Benchmark Infrastructure Costing – Revised report for VPA Template issue

Infrastructure Cost Report

23 November 2021



Document History and Status

Client	Cardno / Melton City Council			
Project Name	Toolern Precinct Bridges – Infrastructure Costing			
Property Address				
Date	23/11/2021			
Client Representative	John Rouvalis (Cardno)			
Date				

	1	
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1. Executive Summary

This report has been revised by Currie & Brown following the receipt of comments by VPA and Melton City Council (MCC) based on their review of the initial report and costings issued in July 2021.

The costings are for the proposed Toolern Precinct Bridges Benchmark Infrastructure Costing Works, as per the design documents prepared by Cardno. (Refer to Section 5 for the full particulars).

The cost sheets also include the indexation of cost as requested by Melton City Council.

The cost sheets have now been updated to use the template established in the VPA's Benchmark Infrastructure Report and not the template supplied by MCC in the 2020 RFT document. The quantities and rates are generally as per the July 2021 issue of the cost estimates.

The Currie & Brown estimates include a number of assumptions which may have cost impacts to the estimates. These assumptions are as listed in section 3 of this report.

All the amounts in this report are quoted in Australian dollars and are exclusive of GST.

2. Scope of Project

Cardno have been engaged by Melton City Council (MCC) to undertake an infrastructure costing study for bridges (pedestrian and road) options in the Toolern Precinct of Melton.

As such, Currie & Brown has been engaged to provide high level cost estimates for the proposed Bridge options.

3. Cost Estimate Summary

The Total Construction Cost excl. GST for each option is summarised below. Refer to Appendix A for a full breakdown of the cost estimates in the VPA template.

Bridge Type			\$ P50 excluding delivery	\$ P50 including delivery	\$ P90 excluding delivery	\$ P90 including delivery
BD-03	Road bridge	91.5m long super T	\$ 7,625,642	\$11,152,501	\$ 9,530,687	\$13,938,630
BD-04 & BD-05	Pedestrian bridge	30m long super T	\$ 728,187	\$ 1,064,973	\$ 871,618	\$ 1,274,741
BD-06 & BD-14	Pedestrian bridge	30m long super T	\$ 947,137	\$ 1,385,188	\$ 1,107,083	\$ 1,619,109
BD-07, 08, 09 & 10	Pedestrian underpass	50m long box culvert	\$ 2,033,162	\$ 2,973,499	\$ 2,360,197	\$ 3,451,789
BD-11, BD- 12 & BD-13			not priced	not priced	not priced	not priced
BD-15	Road bridge	5.9m clearance, 76.6m long	\$ 7,584,707	\$11,092,634	\$ 9,456,901	\$13,830,718
BD-16	Road bridge	5.9m clearance, 44.8m long	\$ 6,956,234	\$10,173,492	\$ 8,677,767	\$12,691,234



4. Risk

Our estimates include the MCC nominated allowance of 20% to cover construction contingencies.

The construction contingency is an allowance for construction costs in excess of the initial contract sum arising during construction as a result of variation to the contract or site abnormalities. This has been allowed at 20% of the net construction cost.

5. Assumptions

The following assumptions have been taken into consideration within each high-level cost estimate:

- The project will be competitively tendered and use a generally recognised standard form of construction contract.
- All works to be undertaken during standard working hours where possible (unless otherwise noted).
- Based on the location of the bridges, it is assumed that there is a possibility to encounter rock during excavation works. We have applied an extra over allowance rate for rock excavation to 40% of the excavated area.
- Allowances have been made for road pavement works only to the extent indicated or noted in the drawings.
- The rates used in the cost estimates are based on recent project data and benchmarked rates for concept cost estimates for projects of a similar nature in the Melbourne region.
- The cost estimates are based on the information provided to Currie & Brown and our knowledge of similar projects.
- All other assumptions have been noted in the cost estimates for each option.

Inclusions

The cost estimates include delivery allowances (as per VPA costing template) for the following:

- Council Fees
- VicRoads Fees
- Traffic Management
- Environmental Management
- Survey & Design
- Supervision & Project Management
- Site Establishment (Preliminaries)
- Contingency (project) 20% as nominated for bridges



7. Exclusions

Below is a list of exclusions that apply to the Cost Estimates for the Options:

- Goods and Services Tax
- Land purchase, Legal and Borrowing Costs, where applicable
- Clients Contingency
- Client Management Costs
- Demolition work
- Contaminated materials removal
- Other Authority Costs and Fees
- Adverse ground conditions
- Any other electrical and lighting costs other than the included in the cost estimate
- Services relocations
- Rail management / Occupations / Safe working
- Escalation
- Other Authority Costs and Fees not noted in the Melton City Council cost template



8. Documentation

These high level Cost Estimates has been prepared on the basis of the following documentation:

Drawings by Cardno

Dated 26/03/2020

- V191096-CI-DG-2001 Bridge Type BD03 Secondary Arterial 91.5m Long Super T Bridge Interim
- V191096-CI-DG-2002 Bridge Type BD04 and BD05 Pedestrian 30m Long Super T Bridge Interim
- V191096-CI-DG-2003 Bridge Type BD06, BD12, BD13, BD14 Pedestrian 30m Long Super T Bridge Interim
- V191096-CI-DG-2004 Bridge Type BD07, BD08, BD09, BD10 and BD11 50m Long Box Culvert Interim
- V191096-CI-DG-2007 Bridge Type BD15 East Road 5.9m Clearance 76.6m Long Box Girder Interim
- V191096-CI-DG-2008 Bridge Type BD16 Ferris Road 5.9m Clearance 44.8m Long Box Girder Interim

RFT response 2019 to MCC

 Attachment E – Example of Costing sheet as per RFT document Melton City Council, 2019

Additional information has been provided following VPA and MCC review:

VPA and MCC Review Comments

Dated 20/09/2021

Submission response – Bridge Cost Sheets.docx

VPA Cost Template

Dated 14/10/2021

V181544 Appendix C – Bridges .xlsx



Appendix A – VPA Costing Templates

- **❖** BD-03
- ❖ BD-04 & BD-05
- ❖ BD-06 & BD-14
- **\$** BD-07, 08, 09 & 10
- ❖ BD-15
- ❖ BD-16

Туре:	BD03
	Secondary Arterial 91.5m Long Super T Bridge Interim
Description:	Drwg no. V191096-CI-DG-2001 rev.2
Civil Component Number:	

CB Currie & Brown

Group	Sub Item	Qty	Unit	Rate (P50)	Amount P(50)	Rate (P90)	Amount P(90)
Earthworks	Site Preperation	1	m2	132,968.20	132,968.20	239,342.76	239,342.76
Earthworks	Earthworks	1	m3	3,034,648.65	3,034,648.65	3,307,767.03	3,307,767.03
ē	Retaining Walls, abutments, footings	1	No	1,115,200.00	1,115,200.00	1,255,534.91	1,255,534.91
On-Structure Works	Bridge Deck	1	No	1,676,607.73	1,676,607.73	2,749,637.68	2,749,637.68
-Structu Works	Guard Rails/ Balustrade	183	m	350.00	64,050.00	450.64	82,467.83
n-s	Transition Slab	2	No	76,932.05	153,864.10	88,471.86	176,943.72
Ō	Overall Super T Cost	1493	m2	789.24	1,178,333.46	931.30	1,390,433.44
	Guard Rails/ Balustrade	256	m	350.00	89,600.00	420.04	107,529.58
Off Structure	GREAT Terminal	4	No	8,767.42	35,069.68	13,875.66	55,502.64
	Off structure barrier	0	Item	0.00	0.00	0.00	0.00
	Kerb and Channel	151	m	100.00	15,100.00	112.58	17,000.16
	Bridge Lighting	4	No	20,000.00	80,000.00	23,000.00	92,000.01
Other	Regulatory Signage	1	Item	10,000.00	10,000.00	11,500.00	11,500.00
₽ 7	Drainage Pits	4	No	3,500.00	14,000.00	3,940.43	15,761.74
	Drainage - Sub-soil Drainage		m	350.00	17,500.00	395.50	19,775.00
	Landscaping	145	m2	60.00	8,700.00	65.45	9,490.59
	Council Fees	1	%	3.25	247,833.36	3.25	309,747.33
	VicRoads Fees	1	%	1.00	76,256.42	1.00	95,306.87
>	Traffic Management		%	5.00	381,282.09	5.00	476,534.35
Delivery	Environmental Management		%	0.50	38,128.21	0.50	47,653.44
e li	Surveying and Design		%	5.00	381,282.09	5.00	476,534.35
	Supervision and Project management		%	9.00	686,307.76	9.00	857,761.84
	Site Establishment		%	2.50	190,641.05	2.50	238,267.18
	Contingency	1	%	20.00	1,525,128.36	20.00	1,906,137.42
Total	Excluding Delivery				7,625,642		9,530,687
IUlai	Including Delivery				11,152,501		13,938,630

Indexation Factor - to 1 July 2021 dollars P50 and P90 values incl delivery

Project	2018 P50	\$ 1 July 2021 P50	2018 P90	\$ 1 July 2021 P90
BD-03	11,152,501	\$12,156,226	13,938,630	\$15,193,107

	Туре:	BD04 and BD05	
		Pedestrian 30m Long Super T Bridge Interim	
	Description:	Drwg No. V191096-CI-DG-2002 rev.2	
(Civil Component Number:		(出 Currie & Brown

Group	Sub Item	Qty	Unit	Rate (P50)	Amount P(50)	Rate (P90)	Amount P(90)
Earthworks	Site Preperation	1	m2	18,564.00	18,564.00	33,415.20	33,415.20
Earthworks	Earthworks	1	m3	243,150.00	243,150.00	265,033.50	265,033.50
ē	Retaining Walls, abutments, footings	1	No	206,600.00	206,600.00	232,598.20	232,598.20
On-Structure Works	Bridge Deck	1	No	79,628.00	79,628.00	130,351.56	130,351.56
-Structu Works	Guard Rails/ Balustrade	60	m	350.00	21,000.00	450.64	27,038.63
η-ς- «	Transition Slab	2	No	11,000.00	22,000.00	12,650.00	25,300.00
Ō	Overall Super T Cost	169	m2	345.00	58,305.00	407.10	68,799.90
	Pedestrian Guard Rails/ Balustrade	0	m	0.00	0.00	0.00	0.00
Off Structure	GREAT Terminal	0	No	0.00	0.00	0.00	0.00
	Off structure barrier	0	Item	0.00	0.00	0.00	0.00
	Edge / Kerbs	90	m	100.00	9,000.00	112.58	10,132.54
	Bridge Lighting	2	No	10,000.00	20,000.00	11,500.00	23,000.00
Other	Regulatory Signage	1	Item	5,000.00	5,000.00	5,750.00	5,750.00
O #	Drainage Pits	4	No	3,500.00	14,000.00	3,940.43	15,761.74
	Drainage - Sub-soil Drainage	50	m	350.00	17,500.00	395.50	19,775.00
	Landscaping	224	m2	60.00	13,440.00	65.45	14,661.33
	Council Fees	1	%	3.25	23,666.08	3.25	28,327.57
	VicRoads Fees	1	%	1.00	7,281.87	1.00	8,716.18
_	Traffic Management	1	%	5.00	36,409.35	5.00	43,580.88
Jer.	Environmental Management	1	%	0.50	3,640.94	0.50	4,358.09
Delivery	Surveying and Design	1	%	5.00	36,409.35	5.00	43,580.88
	Supervision and Project management	1	%	9.00	65,536.83	9.00	78,445.58
	Site Establishment	1	%	2.50	18,204.68	2.50	21,790.44
	Contingency	1	%	20.00	145,637.40	20.00	174,323.52
Total	Excluding Delivery				728,187		871,618
Total	Including Delivery				1,064,973		1,274,741

Project	2018 P50	\$ 1 July 2021 P50	2018 P90	\$ 1 July 2021 P90
BD-04 & BD-05	1,064,973	\$1,160,821	1,274,741	\$1,389,467

Туре:	BD06 and BD14	
	Pedestrian 30m Long Super T Bridge Interim	
Description:	Drwg no. V191096-CI-DG-2003 rev.2	
Civil Component Number:		CB Currie & Brown

Group	Sub Item	Qty	Unit	Rate (P50)	Amount P(50)	Rate (P90)	Amount P(90)
Earthworks	Site Preperation	1	m2	18,564.00	18,564.00	33,395.02	33,395.02
Earthworks	Earthworks	1	m3	535,200.00	535,200.00	583,835.11	583,835.11
ñ	Retaining Walls, abutments, footings	1	No	106,500.00	106,500.00	119,901.78	119,901.78
On-Structure Works	Bridge Deck	1	No	79,628.00	79,628.00	130,351.56	130,351.56
Structu	Guard Rails/ Balustrade	60	m	350.00	21,000.00	450.64	27,038.63
у- _п М	Transition Slab	2	No	11,000.00	22,000.00	12,650.00	25,300.00
Ō	Overall Super T Cost	169	m2	345.00	58,305.00	407.10	68,799.90
	Pedestrian Guard Rails/ Balustrade	0	m	0.00	0.00	0.00	0.00
Off Structure	GREAT Terminal	0	No	0.00	0.00	0.00	0.00
	Off structure barrier	0	Item	0.00	0.00	0.00	0.00
	Edge / Kerbs	90	m	100.00	9,000.00	112.58	10,132.54
	Bridge Lighting	2	No	10,000.00	20,000.00	11,500.00	23,000.00
Other	Regulatory Signage	1	Item	5,000.00	5,000.00	5,750.00	5,750.00
₹	Drainage Pits	4	No	3,500.00	14,000.00	3,940.43	15,761.74
	Drainage - Sub-soil Drainage		m	350.00	17,500.00	394.04	19,702.17
	Landscaping	674	m2	60.00	40,440.00	65.45	44,114.90
	Council Fees	1	%	3.25	30,781.95	3.25	35,980.21
	VicRoads Fees		%	1.00	9,471.37	1.00	11,070.83
_	Traffic Management	1	%	5.00	47,356.85	5.00	55,354.17
u eu	Environmental Management	1	%	0.50	4,735.69	0.50	5,535.42
Delivery	Surveying and Design	1	%	5.00	47,356.85	5.00	55,354.17
Δ	Supervision and Project management	1	%	9.00	85,242.33	9.00	99,637.50
	Site Establishment	1	%	2.50	23,678.43	2.50	27,677.08
	Contingency	1	%	20.00	189,427.40	20.00	221,416.67
Tatal	Excluding Delivery				947,137		1,107,083
Total	Including Delivery				1,385,188		1,619,109

Project	2018 P50	\$ 1 July 2021 P50	2018 P90	\$ 1 July 2021 P90	
BD-06 & BD-14	1,385,188	\$1,509,855	1,619,109	\$1,764,829	

Туре:	BD-07, BD-08, BD-09, BD-10
	Pedestrian Underpass [Typical]
Description:	Drwg No. V191096-CI-DG-2004 rev.2
Civil Component	
Number:	



Group	Sub Item	Unit	Rate (P50)	Quantity	Amount P(50)	Rate (P90)	Amount P(90)
	Site Preparation	%	2.00%		39,865.92	3.60%	81,966.77
Site works & Earthworks	Earthworks - cut	M3	50.00	2,185	109,250.00	54.54	119,177.85
Site works & Earthworks	Earthworks - cut assumed e/o in rock say 40%	M3	100.00	874	87,400.00	109.09	95,342.28
	Structural fill	M3	120.00	818	98,160.00	130.90	107,080.07
	Geocomposite drainage material to crown units	M2	75.00	484	36,300.00	86.25	41,745.00
	300mm thick RC slab	M2	350.00	202	70,700.00	402.50	81,305.01
	150mm min compacted granular bedding	M2	25.00	323	8,075.00	28.75	9,286.25
	Pedestrian culvert - 3.6 x 3.0 x 2.4m RC crown units (21 no.)	M2	1,200.00	816	979,776.00	1,380.00	1,126,742.50
	200mm thick RC endwall	M2	350.00	75	26,250.00	394.04	29,553.26
	380mm thick RC slab to endwall area (inlet and outlet)	M2	500.00	24	12,000.00	575.00	13,800.00
Concrete Works	750mm deep x 300mm wide edge beam to endwall area	M2	500.00	13	6,375.00	562.92	7,177.22
	150mm thick RC shared path ramps and landing slab	M2	200.00	369	73,800.00	230.00	84,870.01
	250mm thick x 1.2m high retaining wall including foundation	M2	350.00	77	26,950.00	394.04	30,341.34
	250mm thick x 2.6m high retaining wall including foundation	M2	400.00	71	28,400.00	450.34	31,973.81
	250mm thick x 2.8m high retaining wall including foundation	M2	400.00	77	30,800.00	450.34	34,675.82
	300mm thick x 3m high retaining wall including foundation	M2	550.00	171	94,050.00	619.21	105,885.10
	Concrete stairs including landing	M/rise	9,000.00	6	54,000.00	10,350.00	62,100.01
	Drainage – Pits	No.	3,500.00	4	14,000.00	3,940.43	15,761.74
Drainage	Drainage – Sub-soil Drainage	M	350.00	129	45,010.00	394.04	50,673.98
	Drainage – underpass	M	75.00	100	7,500.00	84.44	8,443.79
Street Lighting	Culvert Lighting	М	1,250.00	50	62,500.00	1,437.50	71,875.01
Street Lighting	Ramp/stair Lighting	No.	10,000.00	2	20,000.00	11,500.00	23,000.00
	Regulatory Signage	Item	500.00	1	500.00	575.00	575.00
Other	Safety fence (1.2m high) on top of retaining wall	M	300.00	65	19,500.00	337.75	21,953.85
Other	Pedestrian handrails	М	250.00	308	77,000.00	321.89	99,141.66
	Tactile Pavers (Hazard Only)	Item	5,000.00	1	5,000.00	5,750.00	5,750.00
Subtotal Construction Co	st				2,033,161.92		2,360,197.32
	Council Fees		3.25%		66,077.76		76,706.41
	VicRoads Fees		1.00%		20,331.62		23,601.97
>	Traffic Management		5.00%		101,658.10		118,009.87
Delivery	Environmental Management		0.50%		10,165.81		11,800.99
eli	Surveying and Design		5.00%		101,658.10		118,009.87
	Supervision and Project Management		9.00%		182,984.57		212,417.76
	Site Establishment		2.50%		50,829.05		59,004.93
	Contingency (bridge projects)		20.00%		406,632.38		472,039.46
Total Project Cost					2,973,499.31		3,451,788.58
Total	Excluding Delivery				2,033,161.92		2,360,197.32
iotai	Including Delivery				2,973,499.31		3,451,788.58

Indexation Factor - to 1 July 2021 dollars P50 and P90 values incl delivery

Bridges and Culverts 1.09 factor as per the Benchmark Infrastructure Cost Guide

Project	2018 P50	\$ 1 July 2021 P50	2018 P90	\$ 1 July 2021 P90
BD-07, 08, 09 & 10	2,973,499	\$3,241,114	3,451,789	\$3,762,450

Туре:	BD15 - Ferris Road	
	Ferris Road - 5.9m Clearance 44.8m Long Box Girder Bridge Interim (approx. 25.4m wide)	
Description:	Drwg no. V191096-CI-DG-2008 rev.2	
Civil Component Number:		CB Currie & Brown

Group	Sub Item	Qty	Unit	Rate (P50)	Amount P(50)	Rate (P90)	Amount P(90)
Earthworks	Site Preperation	1	m2	148,032.00	148,032.00	266,296.70	266,296.70
Earthworks	Earthworks	1	m3	3,378,440.00	3,378,440.00	3,685,448.23	3,685,448.23
ė	Retaining Walls, abutments, footings	1	No	1,177,925.00	1,177,925.00	1,326,153.12	1,326,153.12
S tur	Bridge Deck	1	No	1,697,765.00	1,697,765.00	2,779,252.42	2,779,252.42
On-Structure Works	Guard Rails/ Balustrade	90	m	350.00	31,500.00	450.64	40,557.95
Ŋ-'n ×	Transition Slab	2	No	102,307.50	204,615.00	117,653.64	235,307.27
Ō	Overall Super T Cost	1174	m2	430.82	505,780.00	508.78	597,303.53
	Guard Rails/ Balustrade	544	m	350.00	190,400.00	420.04	228,500.35
Off Structure	GREAT Terminal	4	No	8,767.42	35,069.68	13,875.66	55,502.64
	Off structure barrier	0	Item	0.00	0.00	0.00	0.00
	Kerb and Channel	325	m	100.00	32,500.00	112.58	36,589.75
	Bridge Lighting	3	No	20,000.00	60,000.00	23,000.00	69,000.01
Other	Regulatory Signage	1	Item	10,000.00	10,000.00	11,500.00	11,500.00
OH OH	Drainage Pits	6	No	3,500.00	21,000.00	3,940.43	23,642.60
	Drainage - Sub-soil Drainage	150	m	350.00	52,500.00	394.04	59,106.51
	Landscaping	653	m2	60.00	39,180.00	65.45	42,740.40
	Council Fees	1	%	3.25	246,502.97	3.25	307,349.30
	VicRoads Fees	1	%	1.00	75,847.07	1.00	94,569.01
>	Traffic Management	1	%	5.00	379,235.33	5.00	472,845.07
Delivery	Environmental Management	1	%	0.50	37,923.53	0.50	47,284.51
Deli	Surveying and Design		%	5.00	379,235.33	5.00	472,845.07
	Supervision and Project management		%	9.00	682,623.60	9.00	851,121.13
	Site Establishment		%	2.50	189,617.67	2.50	236,422.54
	Contingency	1	%	20.00	1,516,941.34	20.00	1,891,380.29
Total	Excluding Delivery				7,584,707		9,456,901
Iotai	Including Delivery				11,092,634		13,830,718

Project	2018 P50	\$ 1 July 2021 P50	2018 P90	\$ 1 July 2021 P90
BD-15	11,092,634	\$12,090,971	13,830,718	\$15,075,483

I	Туре:	Type BD16 - East Road	
Ī			
ı		East Road - 5.9m Clearance 76.6m Long Box Girder Bridge Interim (approx. 16.5m wide)	
	Description:	Drwg no. V191096-CI-DG-2008 rev.2	
	Civil Component Number:		CB Currie & Brown

Group	Sub Item	Qty	Unit	Rate (P50)	Amount P(50)	Rate (P90)	Amount P(90)
Earthworks	Site Preperation	1	m2	122,447.00	122,447.00	220,271.51	220,271.51
Earthworks	Earthworks	1	m3	2,794,530.00	2,794,530.00	3,046,037.70	3,046,037.70
စ္	Retaining Walls, abutments, footings	1	No	1,257,425.00	1,257,425.00	1,415,657.26	1,415,657.26
On-Structure Works	Bridge Deck	1	No	1,543,945.00	1,543,945.00	2,527,448.07	2,527,448.07
-Structu Works	Guard Rails/ Balustrade	154	m	350.00	53,900.00	450.64	69,399.16
n-s W	Transition Slab	2	No	84,625.26	169,250.52	97,319.05	194,638.10
Ō	Overall Super T Cost	1325	m2	430.82	570,836.50	508.37	673,590.25
	Guard Rails/ Balustrade	544	m	350.00	190,400.00	420.04	228,500.35
Off Structure	GREAT Terminal	4	No	8,767.42	35,069.68	13,875.66	55,502.64
	Off structure barrier	0	Item	0.00	0.00	0.00	0.00
	Kerb and Channel	357	m	100.00	35,700.00	112.58	40,192.43
	Bridge Lighting	4	No	20,000.00	80,000.00	23,000.00	92,000.01
Other	Regulatory Signage	1	Item	10,000.00	10,000.00	11,500.00	11,500.00
₹	Drainage Pits	4	No	3,500.00	14,000.00	3,940.43	15,761.74
	Drainage - Sub-soil Drainage	113	m	350.00	39,550.00	394.04	44,526.91
	Landscaping	653	m2	60.00	39,180.00	65.45	42,740.40
	Council Fees	1	%	3.25	226,077.60	3.25	282,027.41
	VicRoads Fees	1	%	1.00	69,562.34	1.00	86,777.67
>	Traffic Management	1	%	5.00	347,811.69	5.00	433,888.33
Delivery	Environmental Management	1	%	0.50	34,781.17	0.50	43,388.83
eli	Surveying and Design		%	5.00	- /		,
۵	Supervision and Project management	1	%	9.00	,		,
	Site Establishment		%	2.50	-/	2.50	,
	Contingency	1	%	20.00		20.00	, ,
Total	Excluding Delivery				6,956,234		8,677,767
IUlai	Including Delivery				10,173,492		12,691,234

Project	Project 2018 P50		2018 P90	\$ 1 July 2021 P90
BD-16	10,173,492	\$11,089,106	12,691,234	\$13,833,445