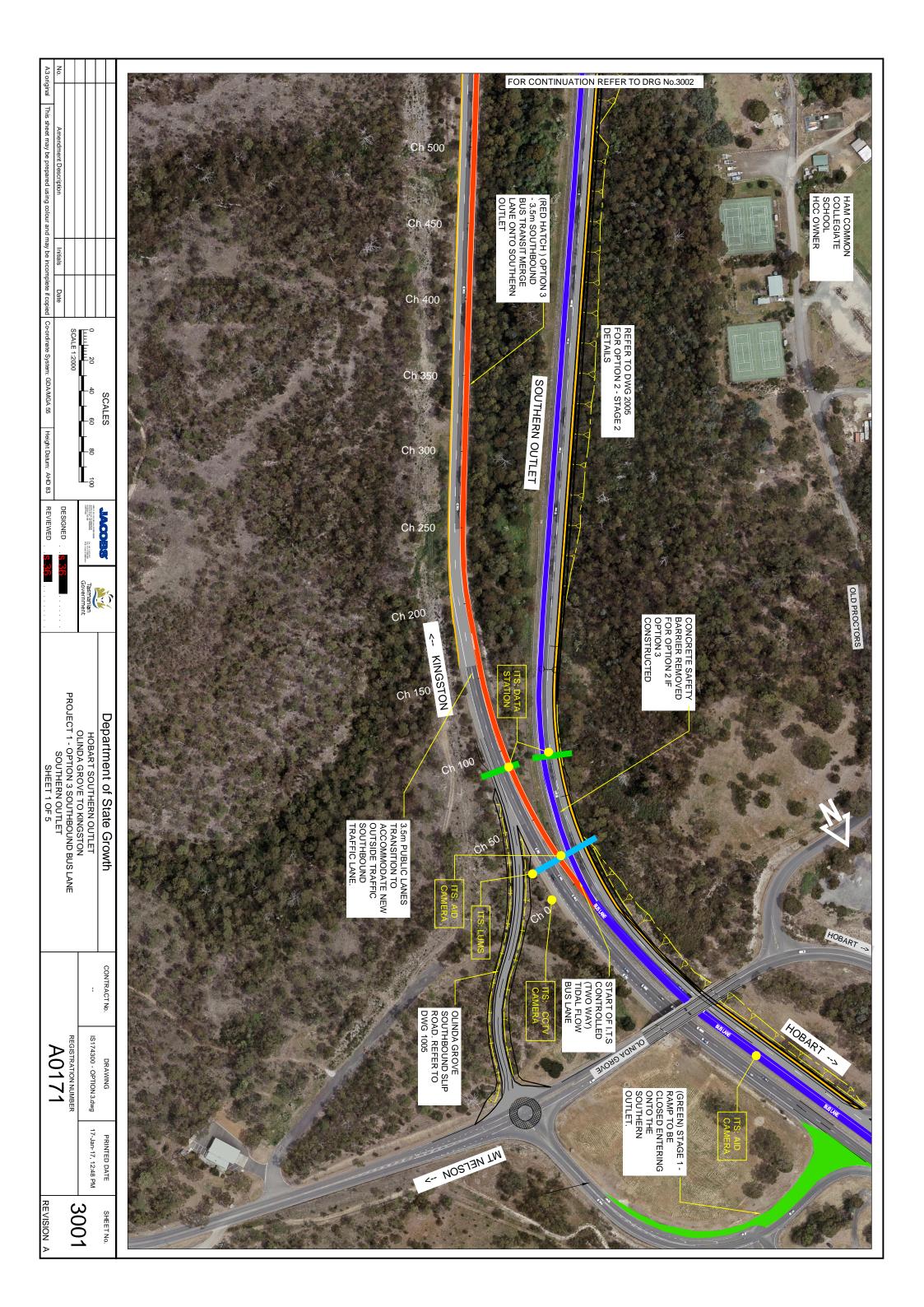
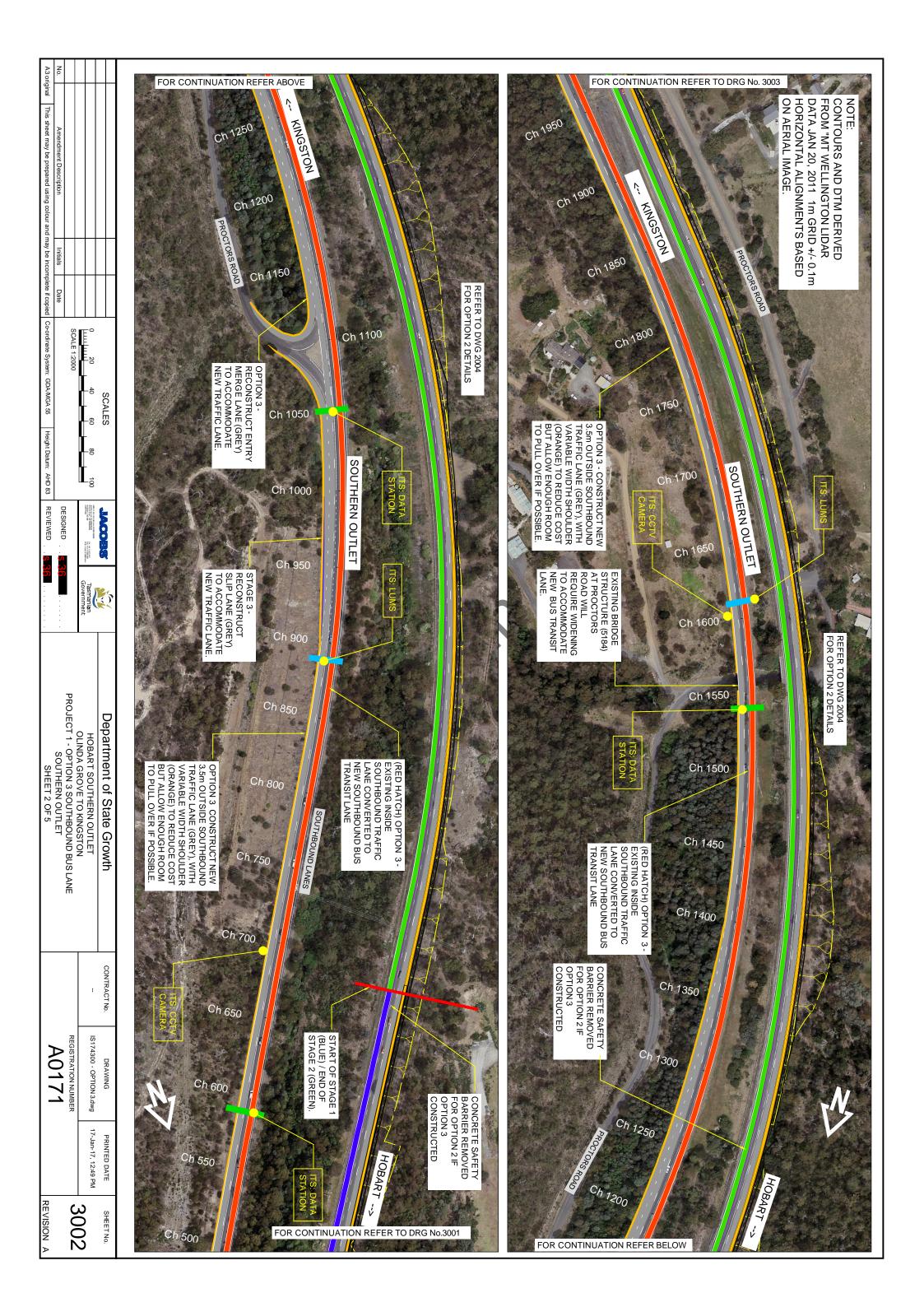


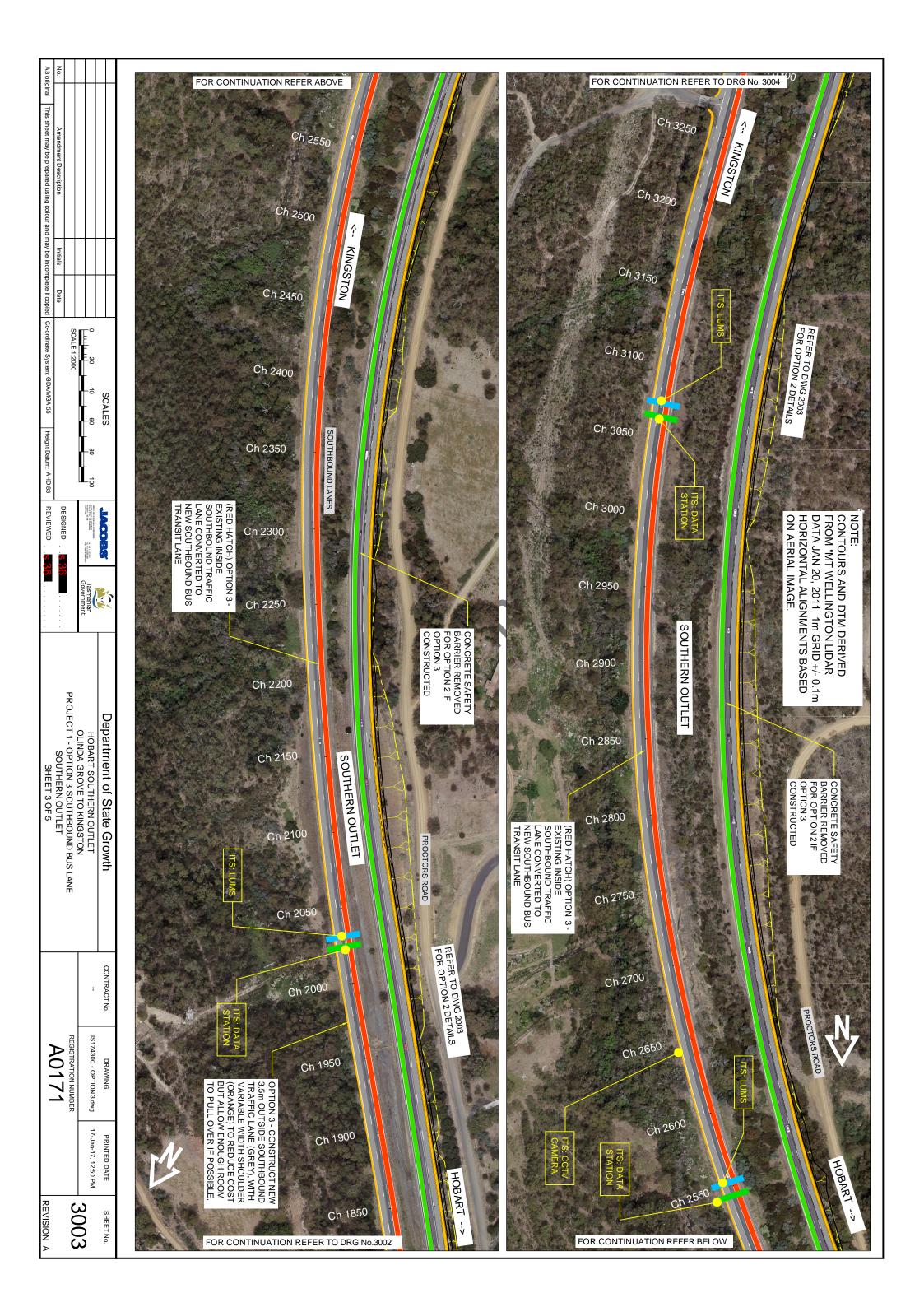


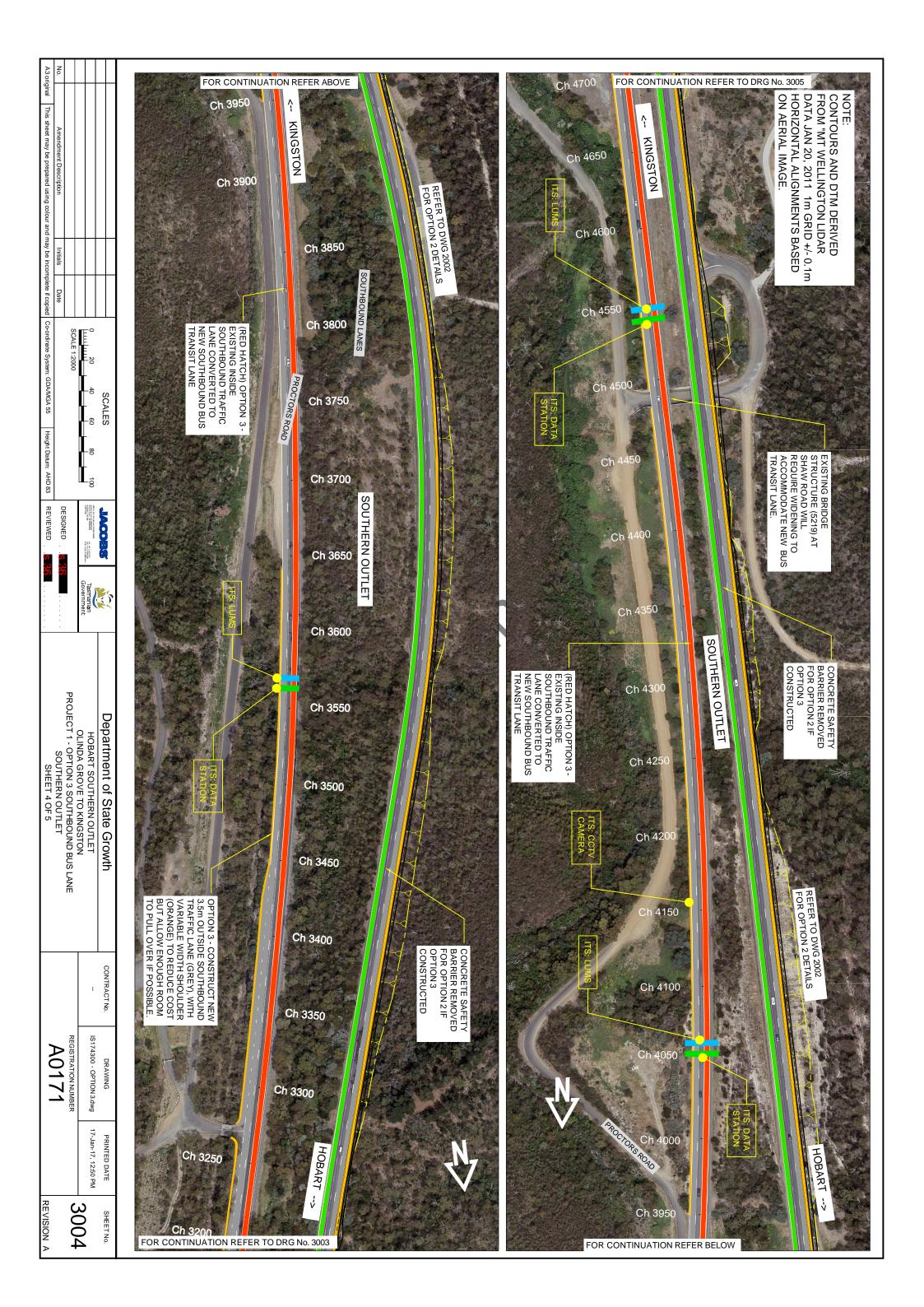
Appendix C. Concept Drawings Project 1 - Option 3

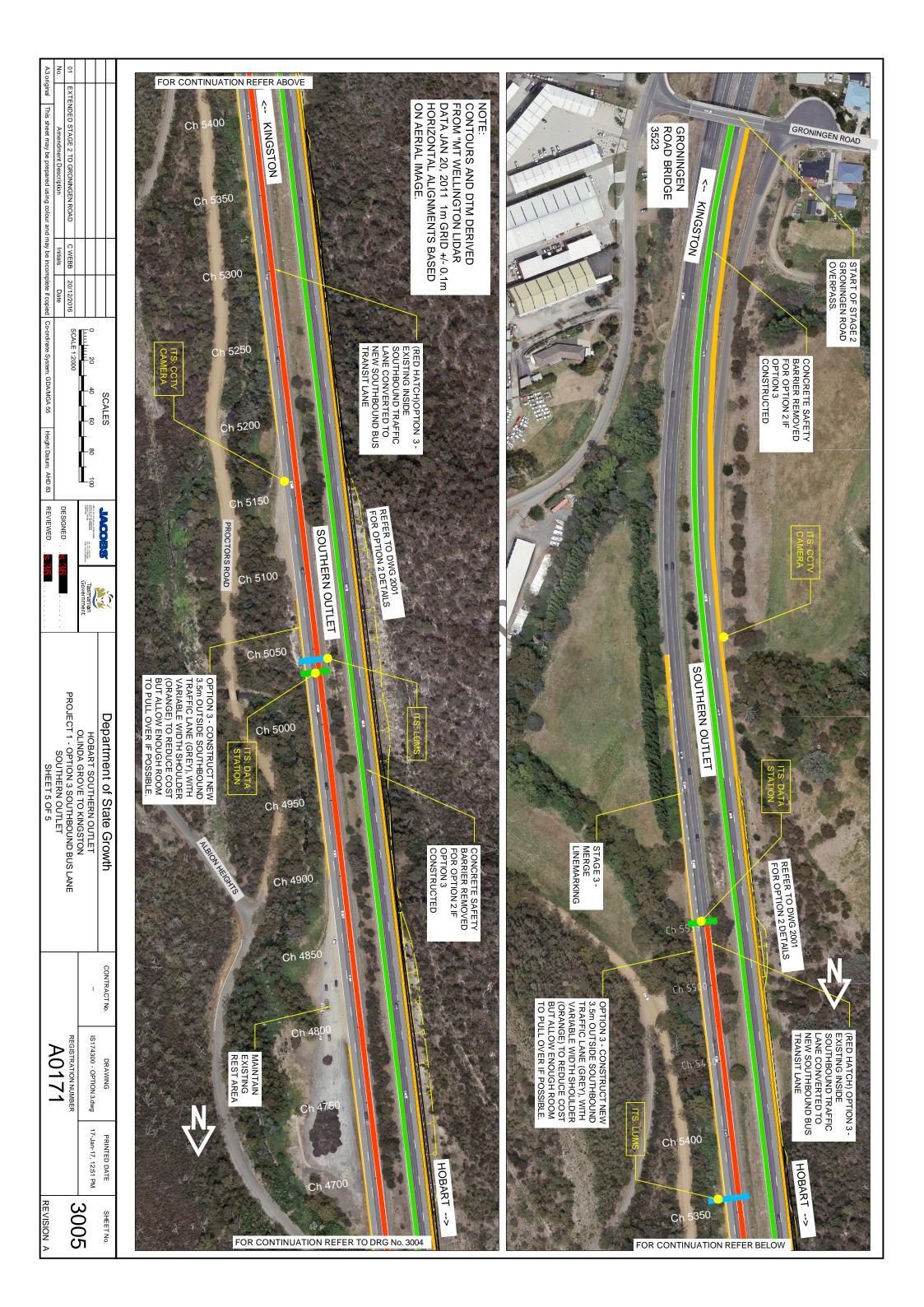
Released under Ril







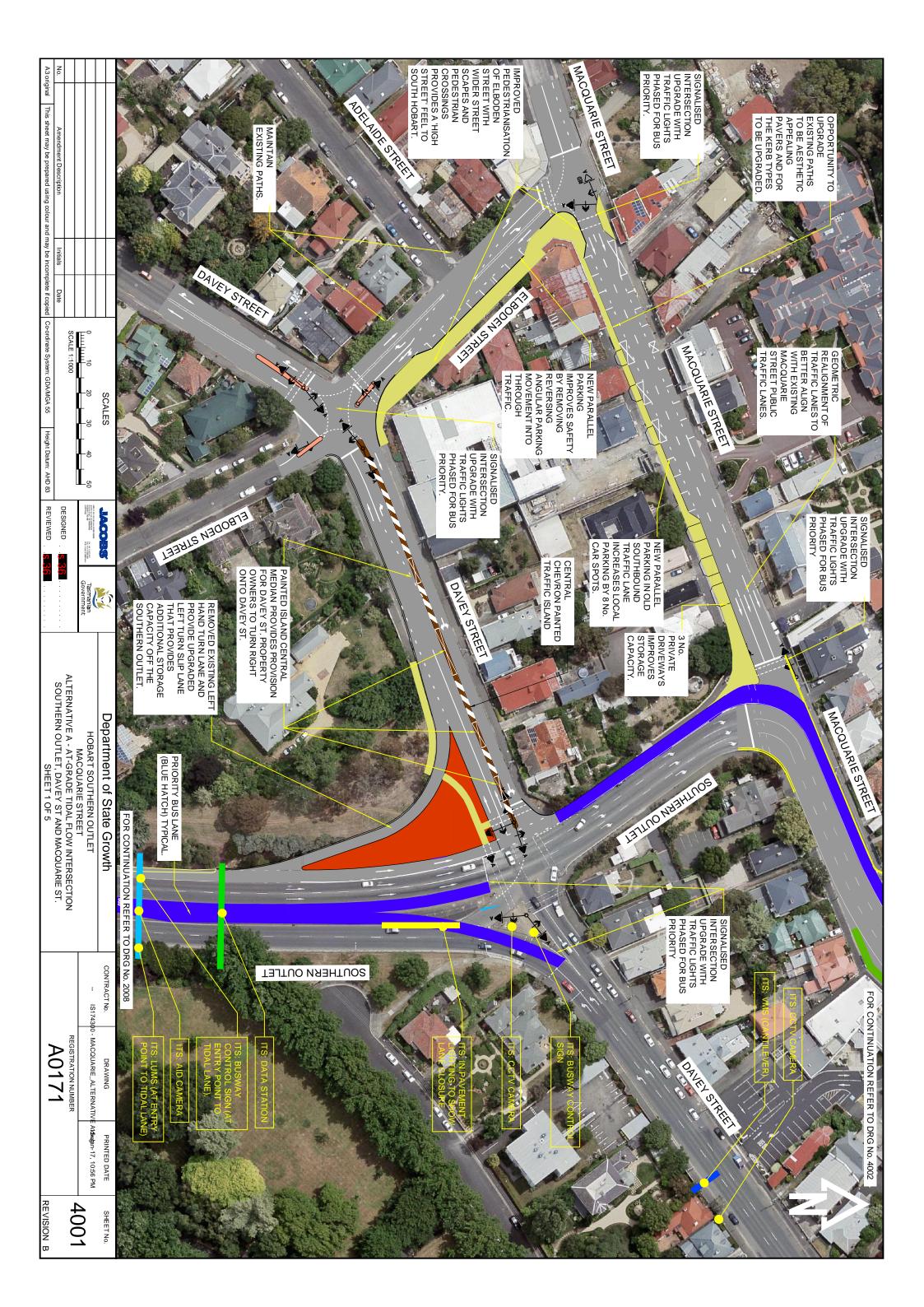


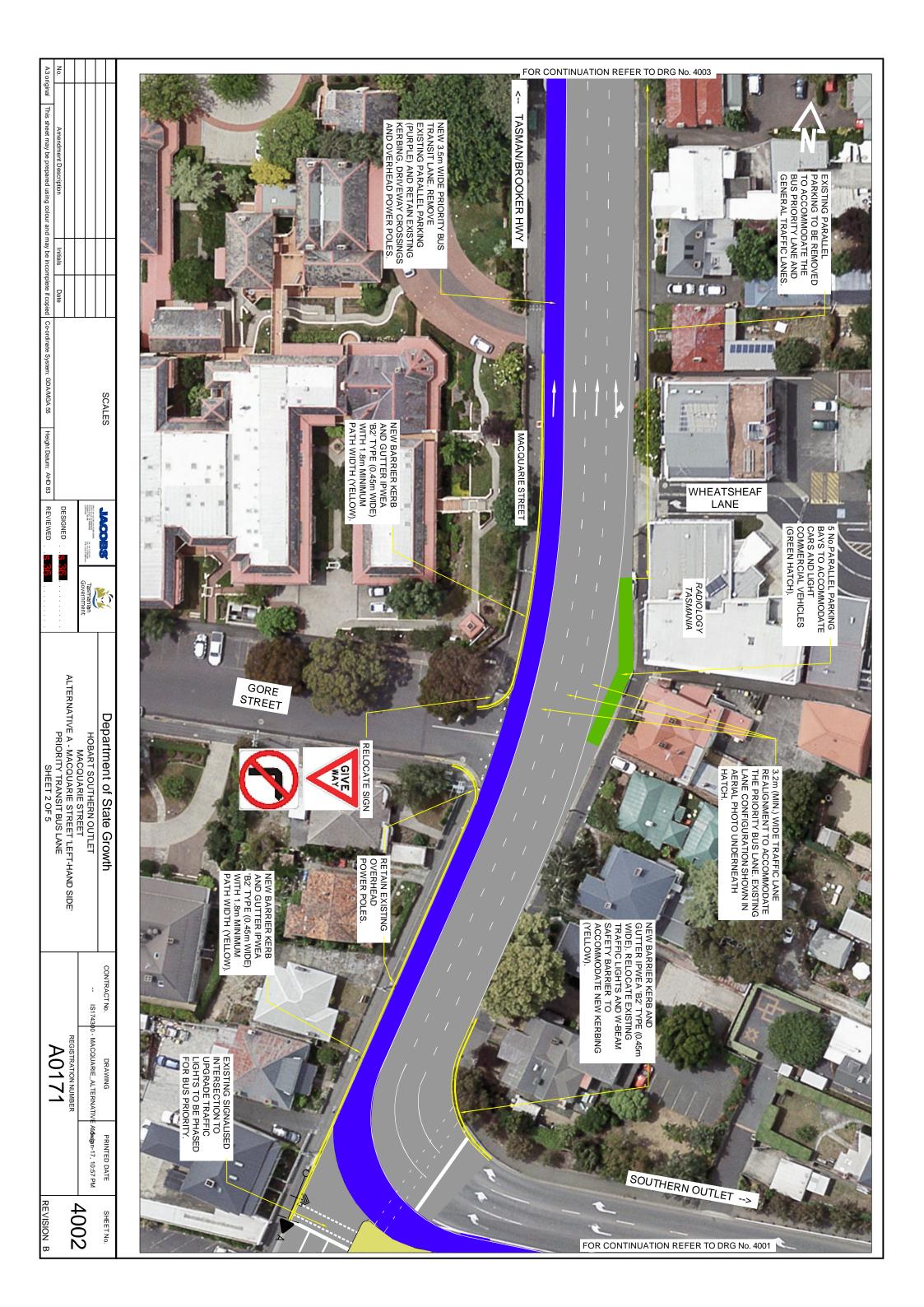


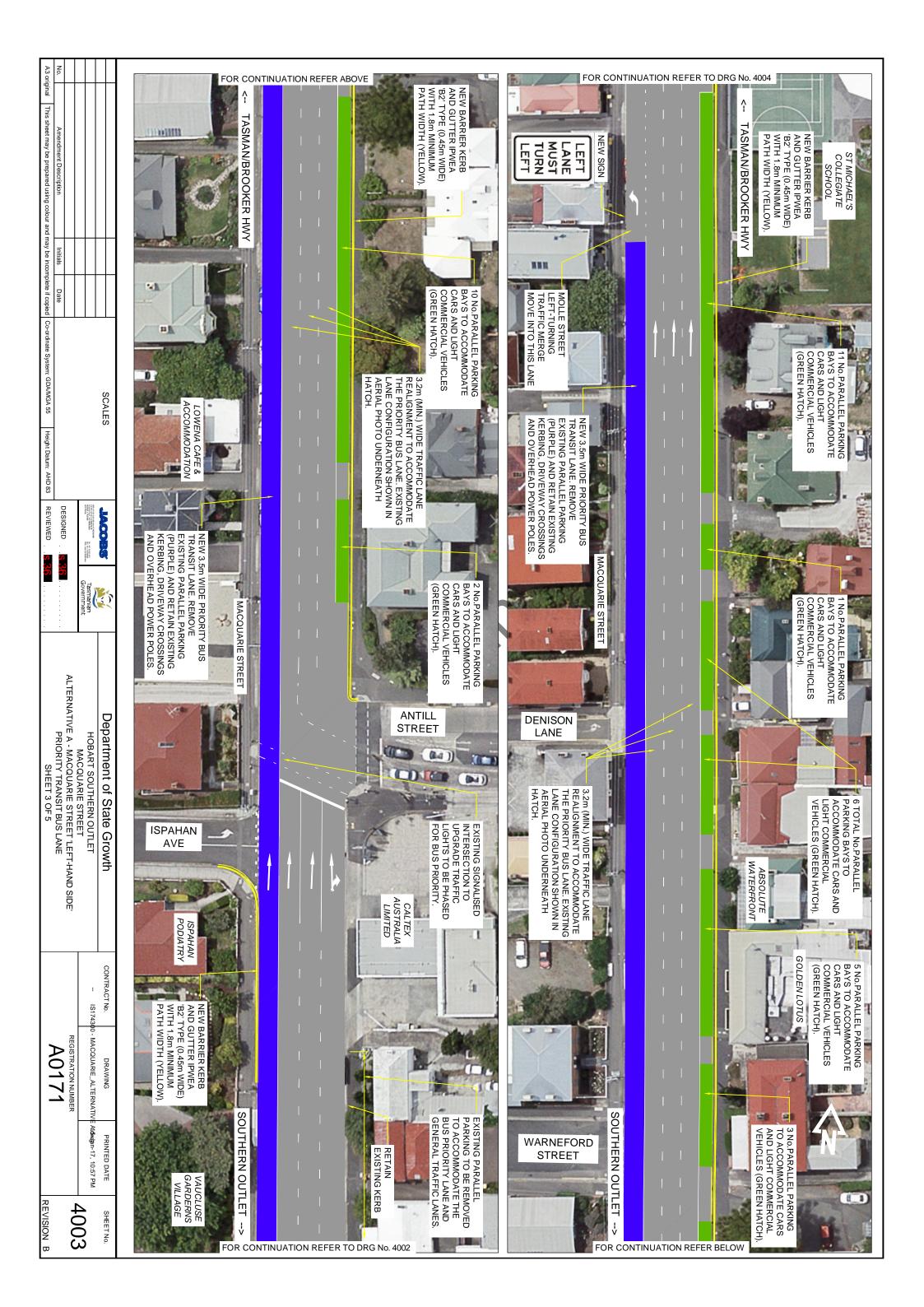


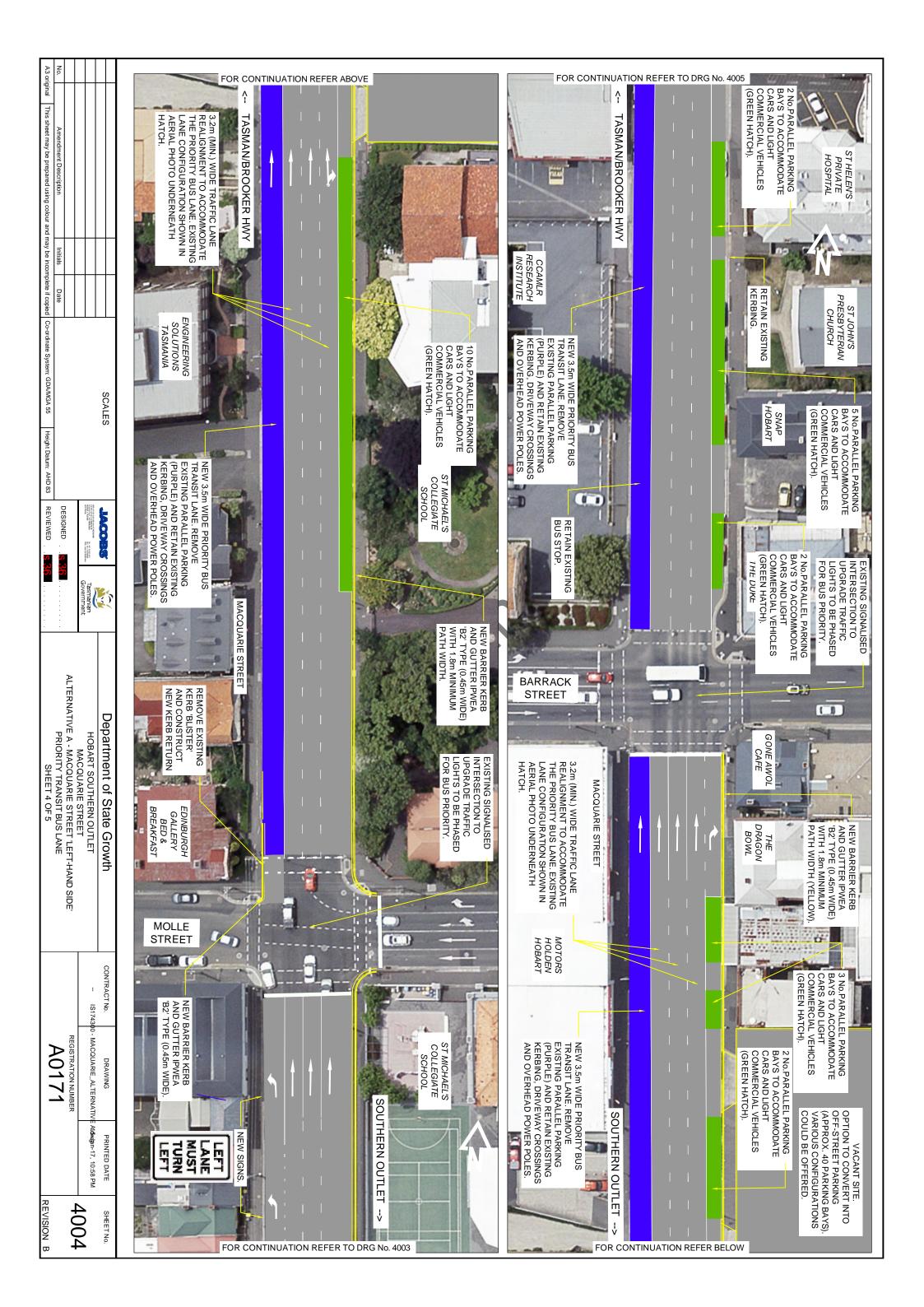
Appendix D. Concept Drawings Project 2 – Alternative 'A'

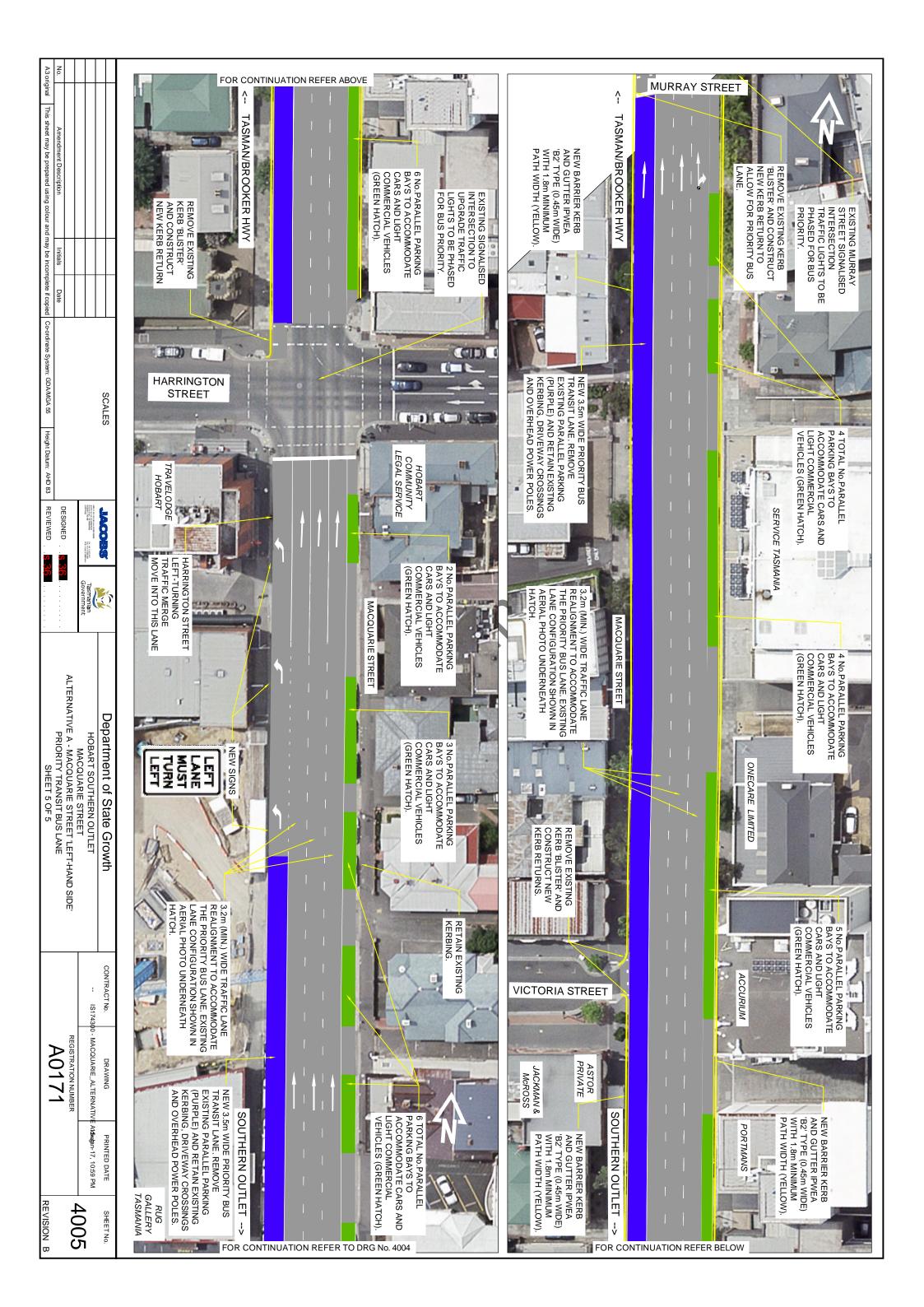
Released under Ril







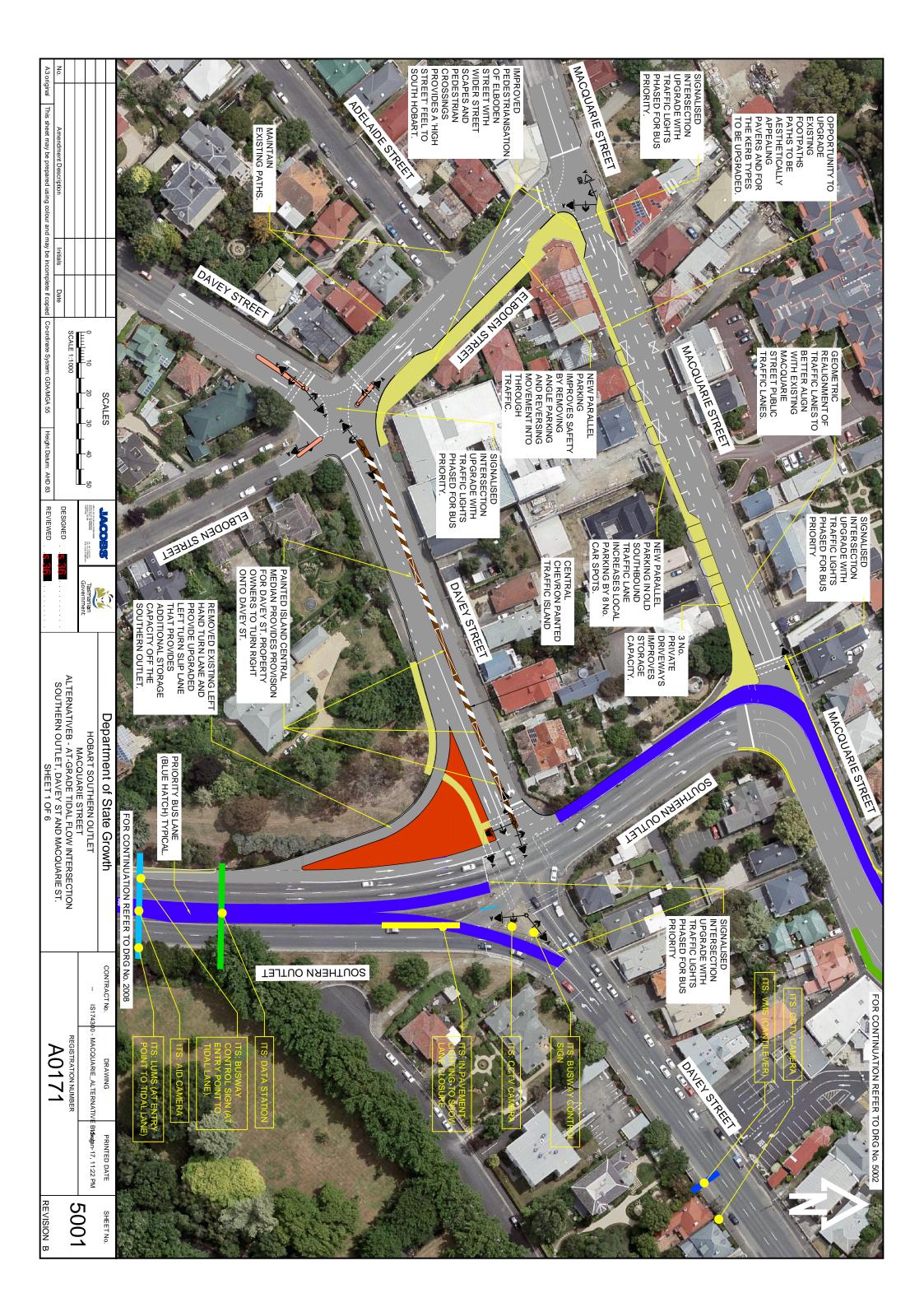


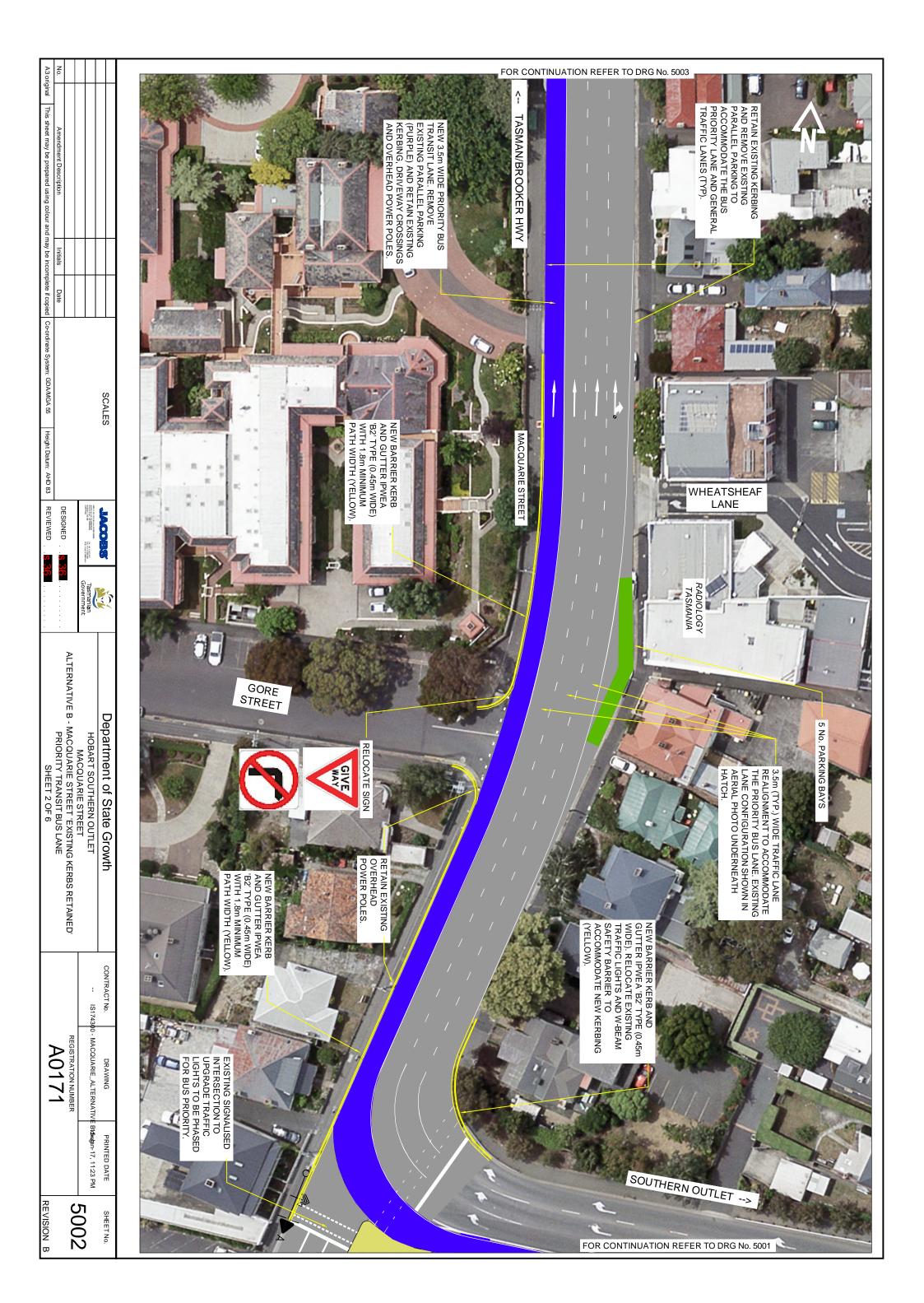


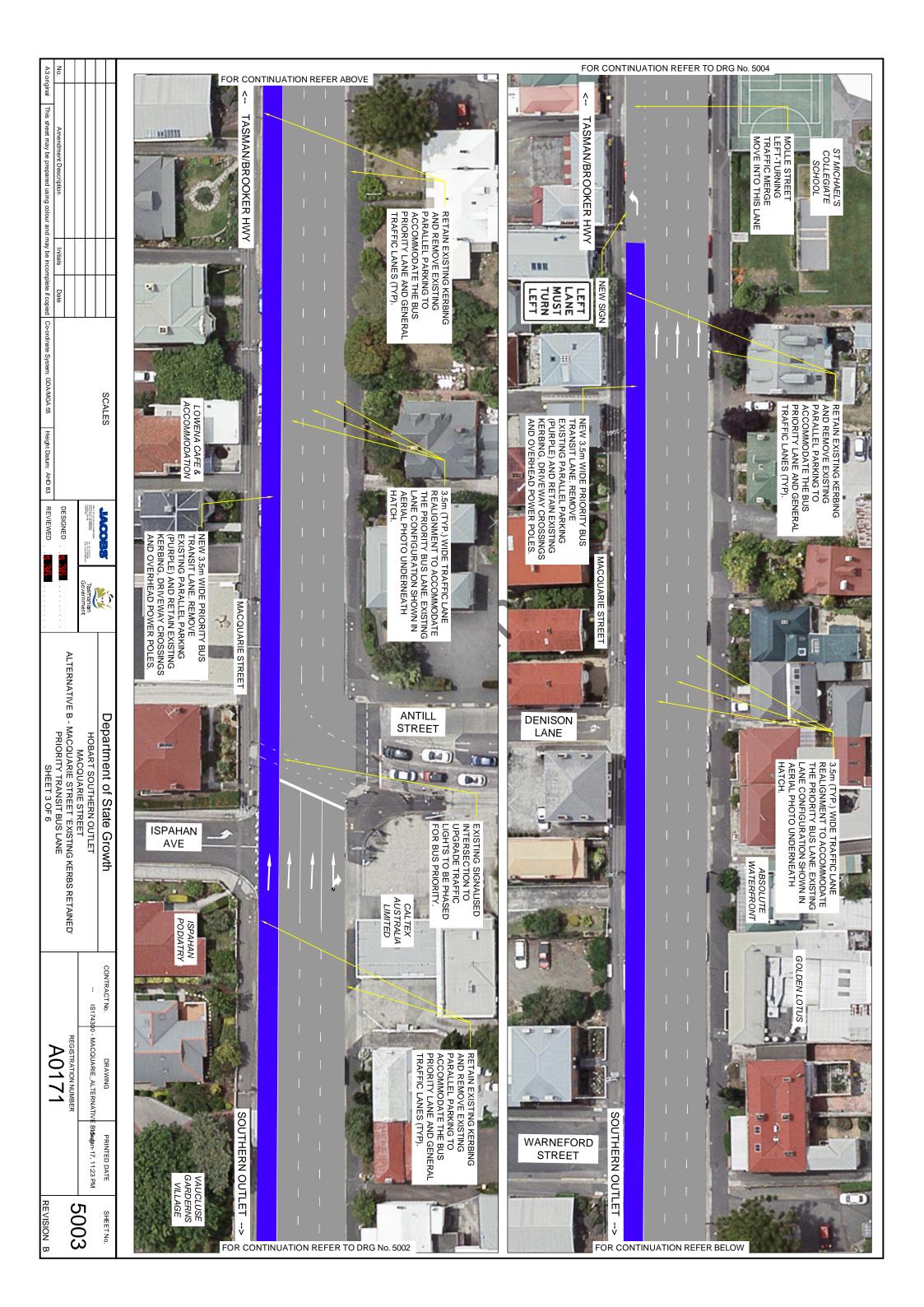


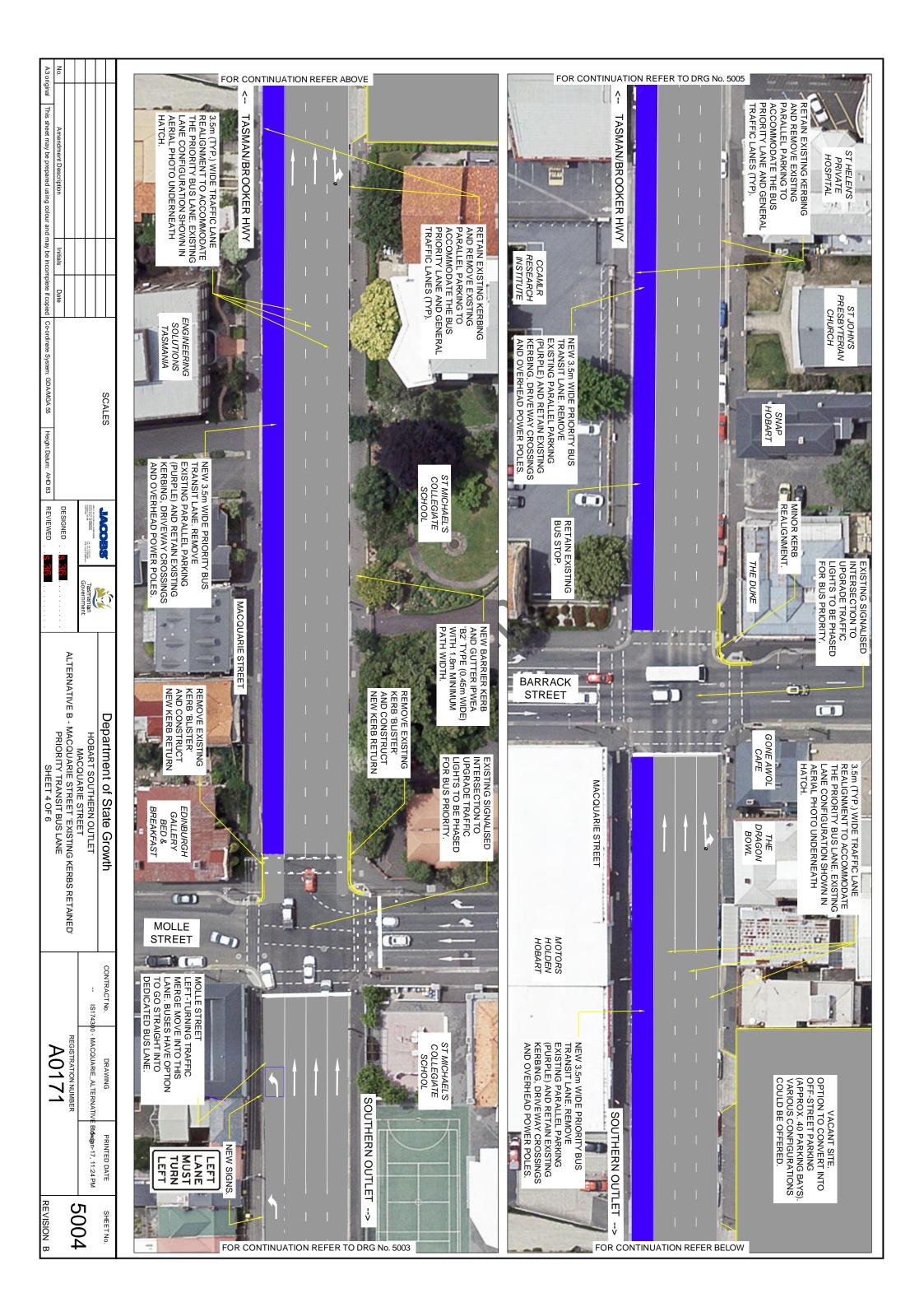
Appendix E. Concept Drawings Project 2 – Alternative 'B'

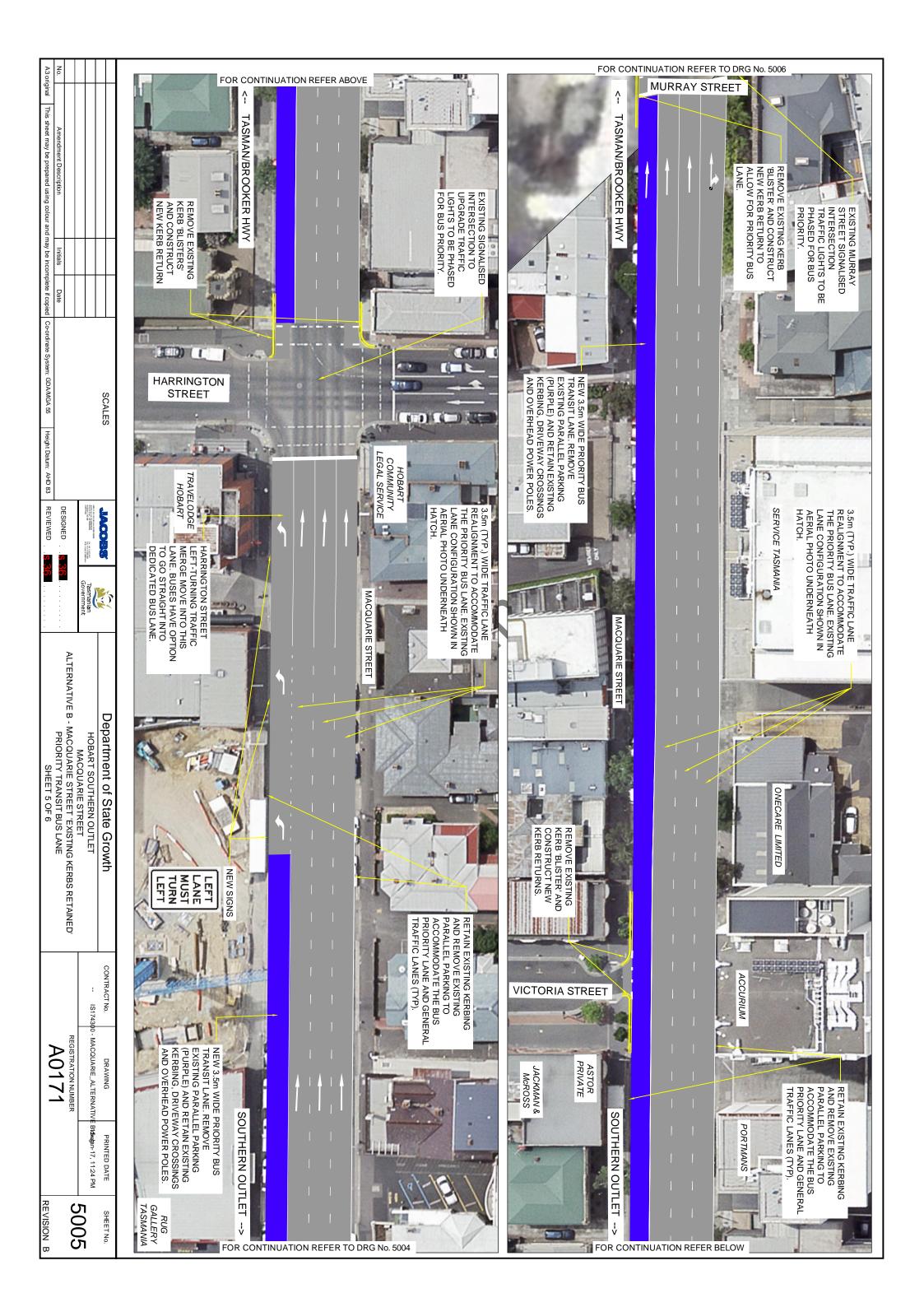
Released under Ril

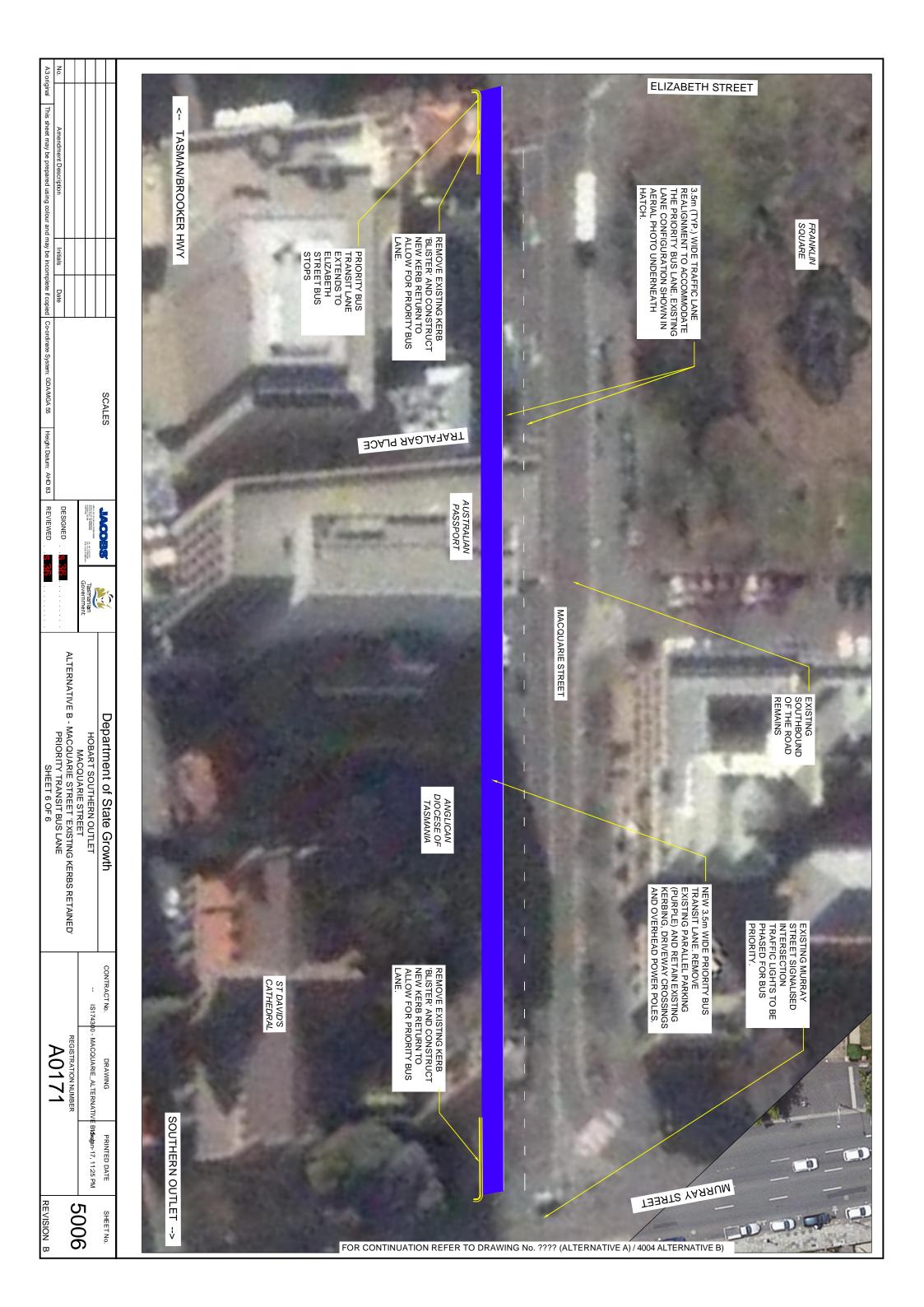














Appendix F. Cost Estimates (P50/P90) and Risk Assessment

Released under Rill

Department of State Growth - Southern Outlet Bus Lanes

Project Name: Southern Outlet Bus Lanes - Project 1 - Option

1 - Stage 1 - Alternate 'A' At Grade Option

Project Phase:

Early Planning / Concept Options

Brief reference number 2220-1-39 Project completion: State Growth Project Number 054758/1 2020 (assumed)

Consultant Project number IS174300

Consultant Project number IS174300 Date 7/11/2016

Description of Scope

Early planning phase concept design and high level cost estimate of proposed north bound bus lanes for the Southern Outlet from south of Olinda Grove to Hobart CBD - Northbound bus lane on the left hand side with At Grade Macquarie/Davey Street Intersection

Rates:

Rates are based on State Growth supplied rates for previous projects and past experience. The rates are subject to change depending on market conditions, and market rates may differ considerably to those adopted in the Cost Estimate.

Quantities:

Quantities have been taken from the high level Concept Designs.

Escalation

A 3.5% escalation rate has been applied to activities outside of the 2016/2017 construction seas

Summary of results:

Base Estimate (Owners Cost + Construction Cost)
Inherent risk allowance
Contingent risk allowance
Base Estimate + Contingency (Inherent + Contingent)
Total contingency % above base estimate
Escalation (Nominal - applied to base case + contingency)
, , , , , ,
Total Out turn

\$			19,970,000.00
P50			P90
9	1,950,802	\$	3,887,055
\$	2,255,100	\$	4,290,211
\$	24,175,902	\$	28,147,266
	21%		41%
\$	2,452,332	\$	2,810,516
\$	26,600,000	\$	31,000,000

Total Out turn Cost \$

P50	P90
\$ 26,600,000	\$ 31,000,000

Overall Cash Flow

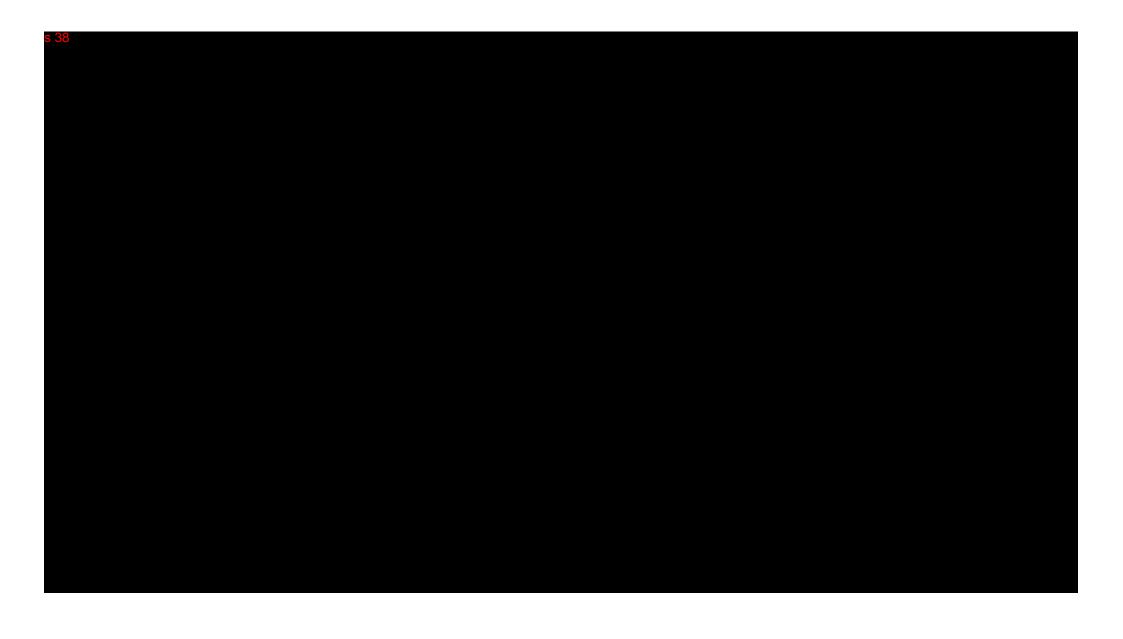
	Financial Year									
P50 Cash Flow	2016 / 2017	2017 / 2018	2017 / 2018 2018 / 2019							
Project Identification and Scoping	\$ -	\$ 400,000	\$ -	\$ -						
Project Development	\$ -	\$ -	\$ 1,850,000	\$ -						
Project Delivery (incll. CA)	\$ -	\$ -	\$ -	\$ 17,720,000						
Inherent Risk	\$ -	\$ 195,080	\$ 780,321	\$ 975,401						
Contingent Risk	\$ -	\$ 225,510	\$ 451,020	\$ 1,578,570						
Escalation costs (nominal)	\$ -	\$ 28,721	\$ 219,468	\$ 2,204,143						
Sub-Total (annual)	\$ -	\$ 850,000	\$ 3,300,000	\$ 22,480,000						
Accumulative Total	\$ -	\$ 850,000	\$ 4,150,000	\$ 26,630,000						

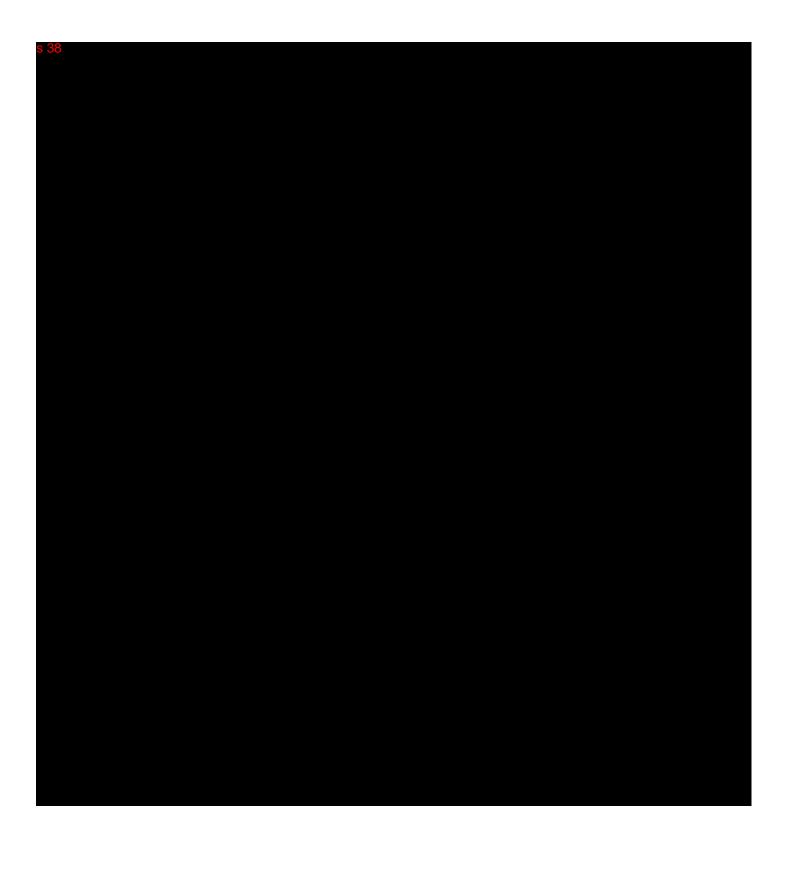
	Financial Year																		
P90 Cash Flow	2016 / 2017		2017 / 2018 2018 / 2019		2017 / 2018		2017 / 2018		2017 / 2018		2017 / 2018		2017 / 2018		2017 / 2018		7 / 2018 2018 / 2019		2019 / 2020
Project Identification and Scoping	\$ -	\$	400,000.00	\$	-	\$	-												
Project Development	\$ -	\$	=	\$	1,850,000.00	\$	-												
Project Delivery (incll. CA)	\$ -	\$	-	\$	-	\$	17,720,000.00												
Inherent Risk	\$ -	\$	388,705.48	\$	1,554,821.91	\$	1,943,527.38												
Contingent Risk	\$ -	\$	429,021.12	\$	858,042.23	\$	3,003,147.81												
Escalation costs (nominal)	\$ -	\$	42,620.43	\$	303,622.50	\$	2,464,272.76												
Sub-Total (annual)	\$ -	\$	1,260,000	\$	4,570,000	\$	25,130,000												
Accumulative Total	\$ -	\$	1,260,000	\$	5,830,000	\$	30,960,000												

Project Data 13/01/2017









Contract Value Estimations for:

Southern Outlet Bus Lanes - Project 1 - Option 1 -

Project Name Stage 1 - Alternate 'A' At Grade Option

Brief reference number 2220-1-39 Project completion: State Growth Project Number 054758/1 2020 (assumed)

Consultant Project number IS174300
Date 7/11/16

Assumptions

 CPI
 2.0%

 Real escalation
 1.5%

 Nominal escalation
 3.5%

Southern Outlet Bus Lanes - Project 1 - Option 1 - Stage 1 - Alternate 'A' At Grade O

Project Cash Flow

<u>Totals</u>

	Financial Year											
P50 Cash Flow	2016 / 2017		2017 / 2018		2018 / 2019		2019 / 2020		2020 / 2021			
Project Identification and Scoping	'	\$	400,000				,					
Project Development				\$	1,850,000							
Project Delivery (incl. CA)						\$	17,720,000					
Inherent Risk		\$	195,080	\$	780,321	\$	975,400.89					
Contingent Risk		\$	225,510	\$	451,020	\$	1,578,570.18					
Escalation costs (nominal)		\$	28,721	\$	219,468	\$	2,204,143					
Sub-Total (annual)	\$ -	\$	850,000	\$	3,300,000	\$	22,480,000	\$	-			
Accumulative Total	\$ -	\$	850.000	\$	4.150.000	\$	26.630.000	\$				

	Financial Year									
P90 Cash Flow	2016 / 2017		2017 / 2018	2018 / 2019		2019 / 2020	2020 / 2021			
Project Identification and Scoping	\$ -	\$	400,000	\$ -	\$		\$ -			
Project Development	\$ -	\$		\$ 1,850,000	\$		\$ -			
Project Delivery (incl. CA)	\$	\$		\$ -	\$	17,720,000	\$ -			
Inherent Risk		\$	388,705	\$ 1,554,822	\$	1,943,527.38				
Contingent Risk		\$	429,021		_	-,,				
Escalation costs (nominal)		\$	42,620							
Sub-Total (annual)		\$	1,260,000							
Accumulative Total	\$ -	\$	1,260,000	\$ 5,830,000	\$	30,960,000	\$ -			
Seleg ₂										



Released uno

Department of State Growth - Southern Outlet Bus Lanes

Project Name: Southern Outlet Bus Lanes -Project 1 - Option

1 - Stage 1 - Alternate 'B' Grade Separated

Project Phase:

Early Planning / Concept Options

Brief reference number 2220-1-39 Project completion: State Growth Project Number 054758/1 2020 (assumed)

Consultant Project number IS174300 Date 7/11/2016

Description of Scope

Early planning phase concept design and high level cost estimate of proposed north bound bus lanes for the Southern Outlet from south of Olinda Grove to Hobart CBD - Northbound bus lane on the left hand side with Grade Separated Macquarie/Davey Street Interchange

Rates

Rates are based on State Growth supplied rates for previous projects and past experience. The rates are subject to change depending on market conditions, and market rates may differ considerably to those adopted in the Cost Estimate.

Quantities:

Quantities have been taken from the high level Concept Designs.

Escalation

A 3.5% escalation rate has been applied to activities outside of the 2016/2017 construction season

Summary of results:

Base Estimate (Owners Cost + Construction Cost)
Inherent risk allowance Contingent risk allowance Base Estimate + Contingency (Inherent + Contingent) Total contingency % above base estimate
Escalation (Nominal - applied to base case + contingency)
Total Out turn

ı	\$		27,690,000.00
		P50	P90
b	\$	2,511,166	\$ 5,346,698
	\$	2,279,708	\$ 4,286,694
	\$	32,480,874	\$ 37,323,392
	1	17%	 35%
	\$	3,342,330	\$ 3,775,526
	\$	35,800,000	\$ 41,100,000

P50 P90 \$ 35,800,000 \$ 41,100,000

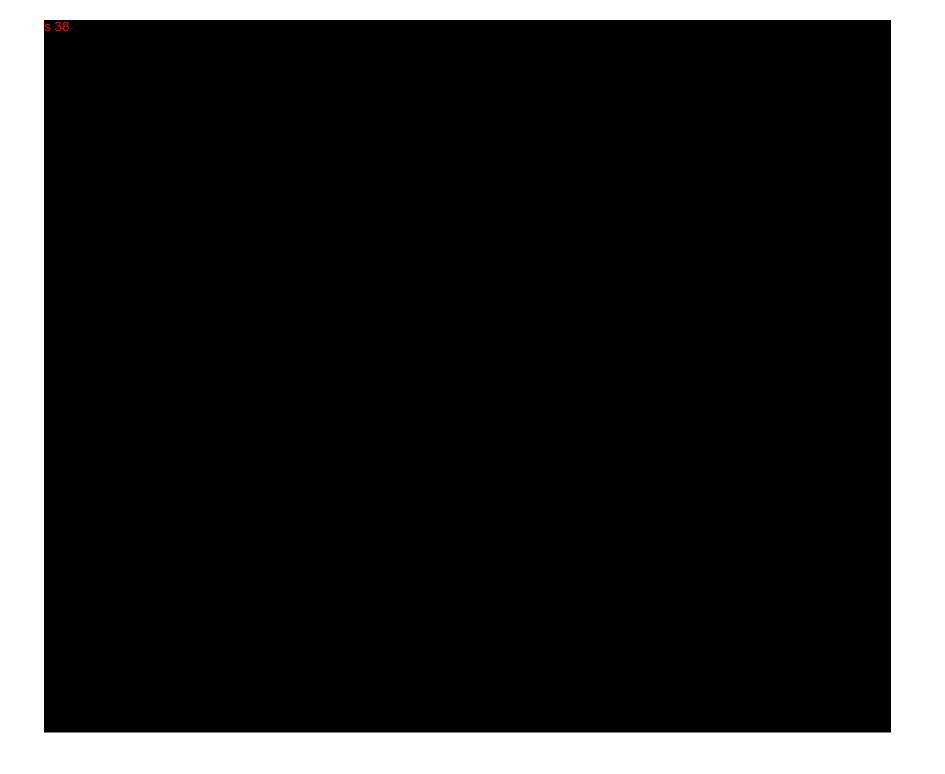
Total Out turn Co

Overall Cash Flow

	Financial Year																
P50 Cash Flow	2016 / 2017		2017 / 2018 2018		2018 / 2019		2018 / 2019		2018 / 2019		2018 / 2019		/2018 2018 / 2019		2018 / 2019		019 / 2020
Project Identification and Scoping	\$ -	\$	400,000	\$	-	\$	-										
Project Development	\$ -	\$	-	\$	1,850,000	\$	-										
Project Delivery (incll. CA)	\$ -	\$	-	\$	-	\$	25,440,000										
Inherent Risk	\$ -	\$	251,117	\$	1,004,467	\$	1,255,583										
Contingent Risk	\$ -	\$	227,971	\$	455,942	\$	1,595,796										
Escalation costs (nominal)	\$ -	\$	30,768	\$	235,784	\$	3,075,779										
Sub-Total (annual)	\$ -	\$	910,000	\$	3,550,000	\$	31,370,000										
Accumulative Total	\$ -	\$	910,000	\$	4,460,000	\$	35,830,000										

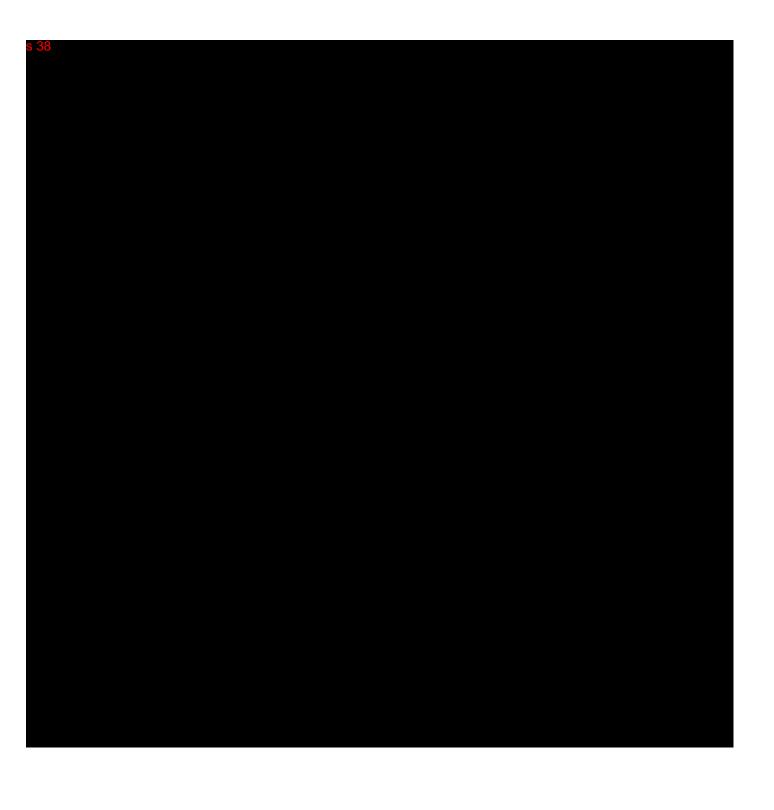
	Financial Year									
P90 Cash Flow	2016 / 2017		2017 / 2018		2018 / 2019		2019 / 2020			
Project Identification and Scoping	\$	- \$	400,000.00	\$	-	\$	-			
Project Development	\$	- \$	-	\$	1,850,000.00	\$	1			
Project Delivery (incll. CA)	\$	- \$	-	\$	-	\$	25,440,000.00			
Inherent Risk	\$	- \$	534,669.77	\$	2,138,679.07	\$	2,673,348.84			
Contingent Risk	\$	- \$	428,669.44	\$	857,338.88	\$	3,000,686.08			
Escalation costs (nominal)	\$	- \$	47,716.87	\$	345,157.63	\$	3,382,651.76			
Sub-Total (annual)	\$	- \$	1,410,000	\$	5,190,000	\$	34,500,000			
Accumulative Total	\$	- \$	1,410,000	\$	6,600,000	\$	41,100,000			

Project Data 13/01/2017









Contract Value Estimations for:

Southern Outlet Bus Lanes - Project 1 - Option 1 -

Project Name Stage 1 - Alternate 'B' Grade Separated

Brief reference number 2220-1-39 Project completion: State Growth Project Number 054758/1 2020 (assumed)

Consultant Project number IS174300
Date 7/11/16

Assumptions

Real escalation 1.5% Nominal escalation 3.5%

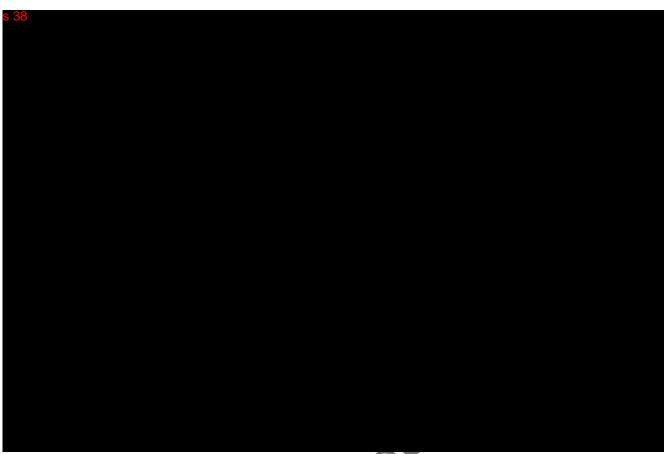
Southern Outlet Bus Lanes - Project 1 - Option 1 - Stage 1 - Alternate 'B' Grade Separ

Project Cash Flow

<u>Totals</u>

	Financial Year																				
P50 Cash Flow	2016 / 2017		2017 / 2018		2018 / 2019		2018 / 2019		2018 / 2019		2018 / 2019		2018 / 2019		2018 / 2019		2018 / 2019		019 / 2020	2020 / 2021	
Project Identification and Scoping	'	\$	400,000				,														
Project Development				\$	1,850,000																
Project Delivery (incl. CA)						\$	25,440,000														
Inherent Risk		\$	251,117	\$	1,004,467	\$	1,255,583.14														
Contingent Risk		\$	227,971	\$	455,942	\$	1,595,795.72														
Escalation costs (nominal)		\$	30,768	\$	235,784	\$	3,075,779														
Sub-Total (annual)	\$ -	\$	910,000	\$	3,550,000	\$	31,370,000	\$	-												
Accumulative Total	\$ -	\$	910,000	\$	4,460,000	\$	35,830,000	\$	-												

	Financial Year							
P90 Cash Flow		2016 / 2017	20	17 / 2018		2018 / 2019	2019 / 2020	2020 / 2021
Project Identification and Scoping	\$		\$	400,000	\$		\$	\$ -
Project Development	\$	-	\$	U'.	\$	1,850,000	\$ -	\$ -
Project Delivery (incl. CA)	\$		\$		\$	-	\$ 25,440,000	\$ -
Inherent Risk			\$	534,670			\$ 2,673,348.84	
Contingent Risk			\$	428,669			\$ 3,000,686.08	
Escalation costs (nominal			\$	47,717		345,158	3,382,652	
Sub-Total (annual)			\$	1,410,000		5,190,000	34,500,000	•
Accumulative Tota	1 \$	<u> </u>	\$	1,410,000	\$	6,600,000	\$ 41,100,000	\$ -
Release								



Released uno

Department of State Growth - Southern Outlet Bus Lanes

Project Name: Southern Outlet Bus Lanes - Project 1 -

Option 1 - Stage 2

Project Phase: Early Planning / Concept Options

Briefreference number2220-1-39Project completion:State Growth Project Number054758/12020 (assumed)

Consultant Project number IS174300 Date 7/11/2016

Description of Scope

Early planning phase concept designs and high level cost estimates of proposed north bound bus lanes for the Southern Outlet from Kingston to Olinda Grove - Northbound bus lane on the left hand side from Kingston to start of Stage 1

Rates:

Rates are based on State Growth supplied rates for previous projects and past experience. The rates are subject to change depending on market conditions, and market rates may differ considerably to those adopted in the Cost Estimate.

Quantities:

Quantities have been taken from the high level Concept Designs.

Escalation

A 3.5% escalation rate has been applied to activities outside of the 2016/2017 construction season

Summary of results:

Base Estimate (Owners Cost + Construction Cost)
Inherent risk allowance
Contingent risk allowance
Base Estimate + Contingency (Inherent + Contingent)
Total contingency % above base estimate
Escalation (Nominal - applied to base case + contingency)
Total Out turn

	\$	13,020,000.00
	P50	P90
	\$ 961,217	\$ 2,446,919
J	1,661,819	\$ 3,562,877
1	\$ 15,643,036	\$ 19,029,796
ı	20%	46%
	\$ 1,613,539	\$ 1,920,238
	\$ 17,300,000	\$ 21,000,000

P50	P90
\$ 17,300,000	\$ 21,000,000

Total Out turn Co

Overall Cash Flow

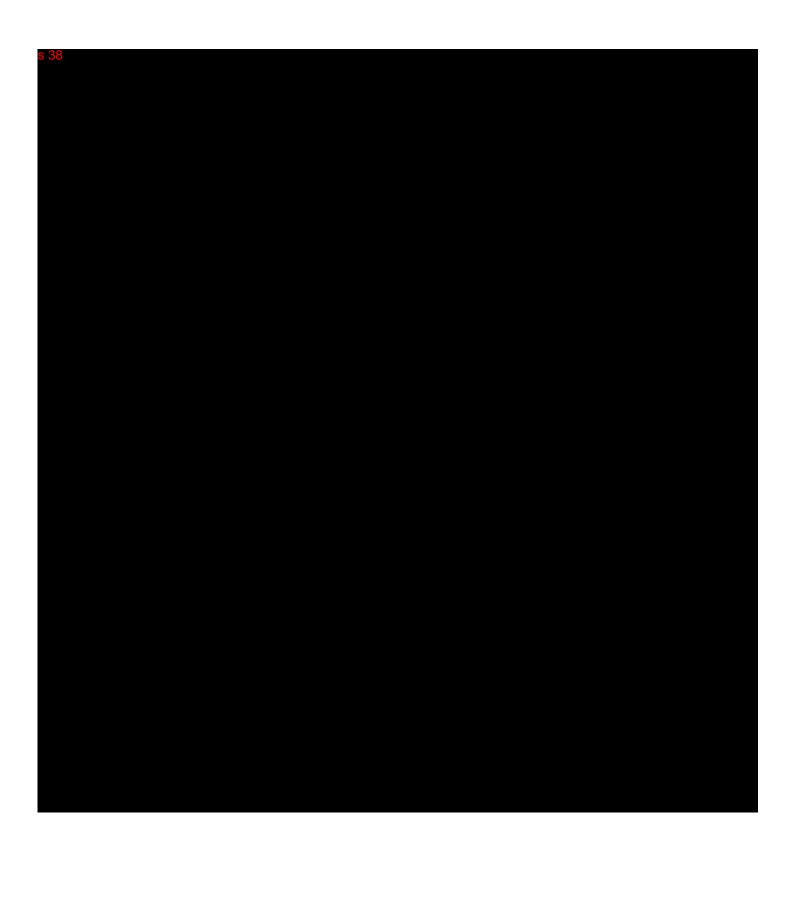
	Financial Year					
P50 Cash Flow	2016 / 2017	2017 / 2018	2018 / 2019	2019 / 2020		
Project Identification and Scoping	\$ -	\$ 250,000	\$ -	\$ -		
Project Development	\$ -	\$ -	\$ 600,000	\$ -		
Project Delivery (incll. CA)	\$ -	\$ -	\$ -	\$ 12,170,000		
Inherent Risk	\$ -	\$ 96,122	\$ 384,487	\$ 480,608		
Contingent Risk	\$ -	\$ 166,182	\$ 332,364	\$ 1,163,273		
Escalation costs (nominal)	\$ -	\$ 17,931	\$ 93,793	\$ 1,501,816		
Sub-Total (annual)	\$ -	\$ 530,000	\$ 1,410,000	\$ 15,320,000		
Accumulative Total	\$ -	\$ 530,000	\$ 1,940,000	\$ 17,260,000		

	Financial Year							
P90 Cash Flow	2016 / 2017	2017 / 2018	2018 / 2019	2019 / 2020				
Project Identification and Scoping	\$ -	\$ 250,000.00	\$ -	\$ -				
Project Development	\$ -	\$ -	\$ 600,000.00	\$ -				
Project Delivery (incll. CA)	\$ -	\$ -	\$ -	\$ 12,170,000.00				
Inherent Risk	\$ -	\$ 244,691.86	\$ 978,767.45	\$ 1,223,459.32				
Contingent Risk	\$ -	\$ 356,287.71	\$ 712,575.42	\$ 2,494,013.96				
Escalation costs (nominal)	\$ -	\$ 29,784.29	\$ 163,200.90	\$ 1,727,252.33				
Sub-Total (annual)	\$ -	\$ 880,000	\$ 2,450,000	\$ 17,610,000				
Accumulative Total	\$ -	\$ 880,000	\$ 3,330,000	\$ 20,940,000				

Project Data 13/01/2017







Southern Outlet Bus Lanes - Project 1 - Option 1 -

Project Name Stage 2

Brief reference number 2220-1-39 Project completion: State Growth Project Number 054758/1 2020 (assumed)

Consultant Project number IS174300
Date 7/11/16

Assumptions

 CPI
 2.0%

 Real escalation
 1.5%

 Nominal escalation
 3.5%

Southern Outlet Bus Lanes - Project 1 - Option 1 - Stage 2

Project Cash Flow

	Financial Year								
P50 Cash Flow	2016 / 2017		2017 / 2018 2018 / 2019		2017 / 2018 2018 / 2019		2019 / 2020	2020 / 2021	
Project Identification and Scoping		\$	250,000		,				
Project Development				\$ 600,000					
Project Delivery (incl. CA)					\$ 12,170,000				
Inherent Risk		\$	96,122	\$ 384,487	\$ 480,608.50				
Contingent Risk		\$	166,182	\$ 332,364	\$ 1,163,273.15				
Escalation costs (nominal)		\$	17,931	\$ 93,793	\$ 1,501,816				
Sub-Total (annual)	\$ -	\$	530,000	\$ 1,410,000	\$ 15,320,000	\$ -			
Accumulative Total	\$ -	\$	530,000	\$ 1,940,000	\$ 17,260,000	\$ -			

	Financial Year																				
P90 Cash Flow	2016 / 2017		2017 / 2018		2018 / 2019		2018 / 2019		2018 / 2019		2018 / 2019		2018 / 2019		2018 / 2019		2018 / 2019		2019 / 2020		2020 / 2021
Project Identification and Scoping	\$ -	\$	250,000	\$		\$		\$	-												
Project Development	\$ -	\$		\$	600,000	\$	-	\$	-												
Project Delivery (incl. CA)	\$	\$		\$	-	\$	12,170,000	\$	-												
Inherent Risk		\$	244,692		978,767	\$	1,223,459.32														
Contingent Risk		\$	356,288		712,575		2,494,013.96														
Escalation costs (nominal)		\$	29,784		163,201		1,727,252														
Sub-Total (annual)		\$	880,000		2,450,000		17,610,000		-												
Accumulative Total	\$ -	\$	880,000	\$	3,330,000	\$	20,940,000	\$	-												
Seleg ₂																					



Project Name: Southern Outlet Bus Lanes - Project 1 -

Option 2 - Stage 1 - Alternative 'A' At Grade

Option

Project Phase:

Early Planning / Concept Options

Brief reference number 2220-1-39
State Growth Project Number 054758/1
Consultant Project number IS174300
Date 7/11/2016

Project completion: 2020 (assumed)

Description of Scope

Early planning phase concept design and high level cost estimate of tidal flow bus lane for the south of Olinda Grove to Hobart CBD - Tidal Flow (centralised) bus lane with At Grade Macquarie/Davey Street Intersection.

Rates:

Rates are based on State Growth supplied rates for previous projects and past experience. The rates are subject to change depending on market conditions, and market rates may differ considerably to those adopted in the Cost Estimate.

Quantities:

Quantities have been taken from the high level Concept Designs.

<u>Escalation</u>

A 3.5% escalation rate has been applied to activities outside of the 2016/2017 construction

Summary of results:

Base Estimate (Owners Cost + Construction Cost)

Inherent risk allowance
Contingent risk allowance
Base Estimate + Contingency (Inherent + Contingent)
Total contingency % above base estimate
Escalation (Nominal - applied to base case + contingency)
3 3,
Total Out turn

\$	21,450,000.00
P50	P90
\$ 2,082,196	\$ 4,033,501
\$ 2,255,145	\$ 4,415,082
\$ 25,787,340	\$ 29,898,582
20%	39%
\$ 2,624,585	\$ 2,995,782
\$ 28,400,000	\$ 32,900,000

Tot	al Out	turn	Cost

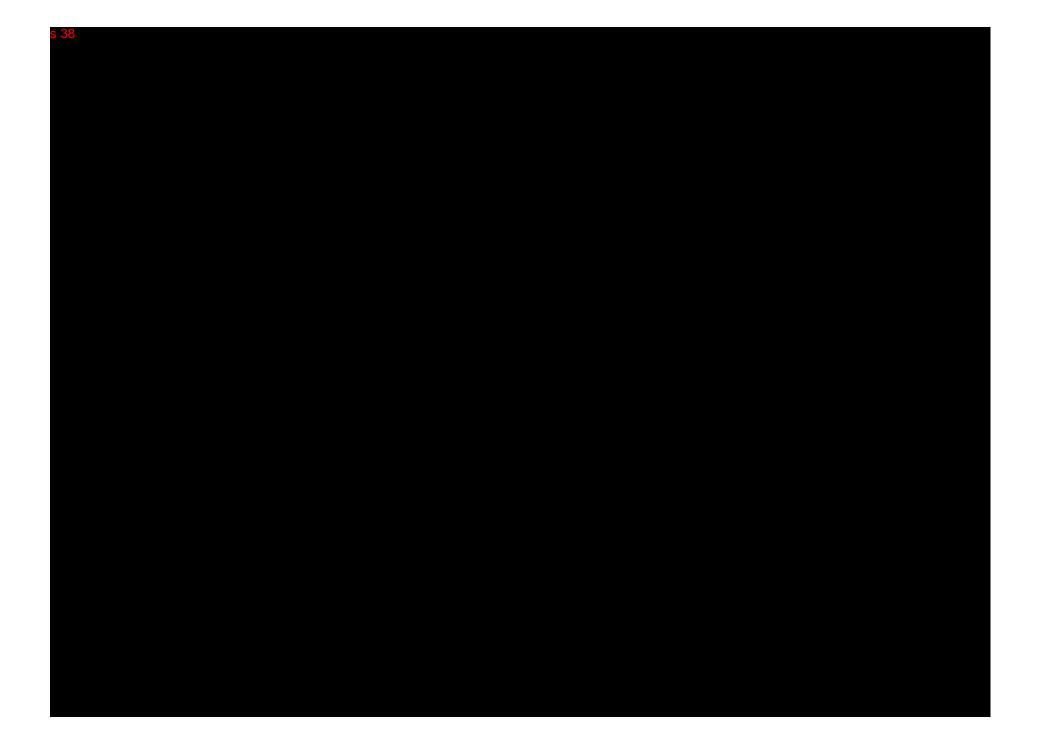
P50	P90
\$ 28,400,000	\$ 32,900,000

	Overall	Cash F	low
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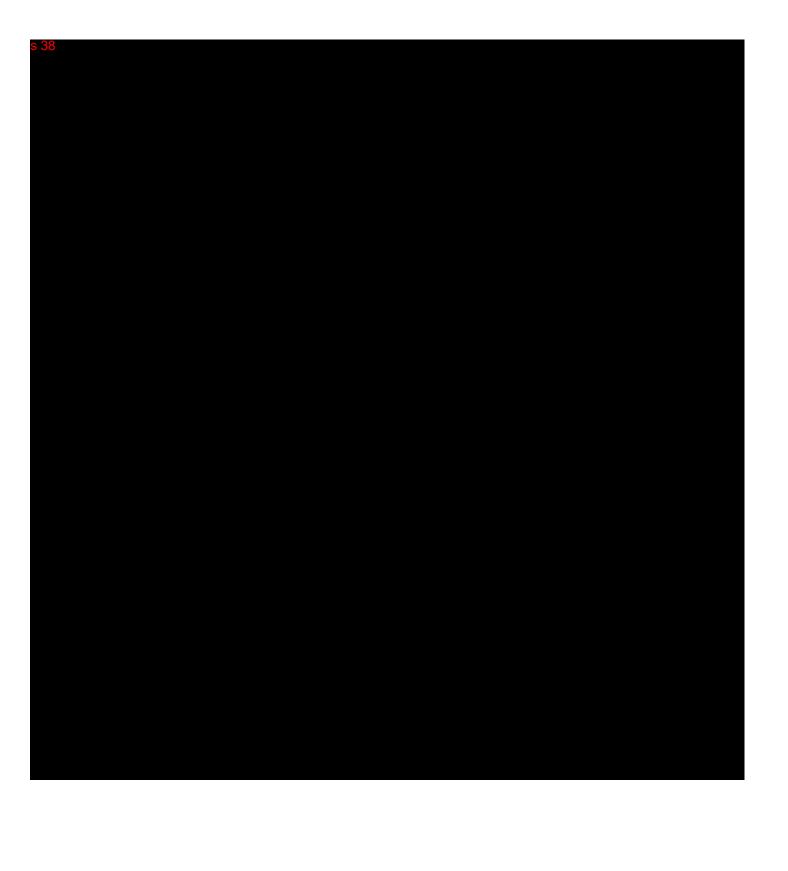
	Financial Year						
P50 Cash Flow	2016 / 2017		2017 / 2018		2018 / 2019	2	019 / 2020
Project Identification and Scoping	\$ -	\$	400,000	\$	-	\$	-
Project Development	\$ -	\$	-	\$	1,850,000	\$	-
Project Delivery (incll. CA)	\$ -	\$	-	\$	-	\$	19,200,000
Inherent Risk	\$ -	\$	208,220	\$	832,878	\$	1,041,098
Contingent Risk	\$ -	\$	225,514	\$	451,029	\$	1,578,601
Escalation costs (nominal)	\$ -	\$	29,181	\$	223,213	\$	2,372,191
Sub-Total (annual)	\$ -	\$	860,000	\$	3,360,000	\$	24,190,000
Accumulative Total	\$ -	\$	860,000	\$	4,220,000	\$	28,410,000

	Financial Year							
P90 Cash Flow	2016 / 2017		2017 / 2018	2018 / 2019 2019 /			2019 / 2020	
Project Identification and Scoping	\$ -	\$	400,000.00	\$	-	\$	-	
Project Development	\$ -	\$	=	\$	1,850,000.00	\$	=	
Project Delivery (incll. CA)	\$ -	\$	-	\$	-	\$	19,200,000.00	
Inherent Risk	\$ -	\$	403,350.08	\$	1,613,400.32	\$	2,016,750.40	
Contingent Risk	\$ -	\$	441,508.17	\$	883,016.34	\$	3,090,557.19	
Escalation costs (nominal)	\$ -	\$	43,570.04	\$	309,573.53	\$	2,642,638.83	
Sub-Total (annual)	\$ -	\$	1,290,000	\$	4,660,000	\$	26,950,000	
Accumulative Total	\$ -	\$	1,290,000	\$	5.950.000	\$	32,900,000	









Southern Outlet Bus Lanes - Project 1 - Option 2 -

Project Name Stage 1 - Alternative 'A' At Grade Option

Brief reference number 2220-1-39 Project completion: State Growth Project Number 054758/1 2020 (assumed)

Consultant Project number IS174300
Date 7/11/16

Assumptions

 CPI
 2.0%

 Real escalation
 1.5%

 Nominal escalation
 3.5%

Southern Outlet Bus Lanes - Project 1 - Option 2 - Stage 1 - Alternative 'A' At Grade (<u>Project Cash Flow</u>

	Financial Year																											
P50 Cash Flow	2016 / 2017		2017 / 2018		2017 / 2018		2017 / 2018		2017 / 2018		2017 / 2018		2017 / 2018 2		2018 / 2019 2019		2018 / 2019		2018 / 2019		2018 / 2019		2019 / 2020		2019 / 2020		2020 / 2021	
Project Identification and Scoping	''	\$	400,000				,																					
Project Development				\$	1,850,000																							
Project Delivery (incl. CA)						\$	19,200,000																					
Inherent Risk		\$	208,220	\$	832,878	\$	1,041,097.84																					
Contingent Risk		\$	225,514	\$	451,029	\$	1,578,601.16																					
Escalation costs (nominal)		\$	29,181	\$	223,213	\$	2,372,191																					
Sub-Total (annual)	\$ -	\$	860,000	\$	3,360,000	\$	24,190,000	\$																				
Accumulative Total	\$ -	\$	860,000	\$	4.220.000	\$	28.410.000	\$																				

	Financial Year					
P90 Cash Flow	2016 / 2017	2017 / 2018	2018 / 2019	2019 / 2020	2020 / 2021	
Project Identification and Scoping	\$ -	\$ 400,000	\$ -	\$ -	\$ -	
Project Development	\$	\$ -	\$ 1,850,000	\$ -	\$ -	
Project Delivery (incl. CA)	\$		\$ -	\$ 19,200,000	\$ -	
Inherent Risk		\$ 403,350	\$ 1,613,400	\$ 2,016,750.40		
Contingent Risk		\$ 441,508				
Escalation costs (nominal)		\$ 43,570				
Sub-Total (annual)		\$ 1,290,000				
Accumulative Total	\$ -	\$ 1,290,000	\$ 5,950,000	\$ 32,900,000	\$ -	
20/03						



Project Name: Southern Outlet Bus Lanes - Project 1 -

Option 2 - Stage 1 - Alternative 'B' Grade

Separated

Project Phase:

Early Planning / Concept Options

Brief reference number 2220-1-39
State Growth Project Number 054758/1
Consultant Project number IS174300
Date 7/11/2016

Project completion: 2020 (assumed)

Description of Scope

Early planning phase concept design and high level cost estimate of proposed tidal flow bus lanes for the Southern Outlet from south of Olinda Grove to Hobart CBD - Tidal Flow (centralised) bus lane with Grade Separated Macquarie/Davey Street Interchange.

Rates:

Rates are based on State Growth supplied rates for previous projects and past experience. The rates are subject to change depending on market conditions, and market rates may differ considerably to those adopted in the Cost Estimate.

Quantities:

Quantities have been taken from the high level Concept Designs.

Escalation:

A 3.5% escalation rate has been applied to activities outside of the 2016/2017 construction seas

Summary of results:

Base Estimate (Owners Cost + Construction Cost)
Inherent risk allowance Contingent risk allowance Base Estimate + Contingency (Inherent + Contingent) Total contingency % above base estimate
Escalation (Nominal - applied to base case + contingency)
Total Out turn

	\$		29,170,000.00
	P50		P90
	\$ 2,6	33,570	\$ 5,595,724
	2,2	52,285	\$ 4,277,819
_	\$ 34,0	55,855	\$ 39,043,543
	17%		 34%
1	\$ 3,5	11,229	\$ 3,957,099
	\$ 37,60	00,000	\$ 43,100,000

	_	V.	
Total Out	turn	Cost	ľ

P50	P90
\$ 37,600,000	\$ 43,100,000

Overall Cash Flow

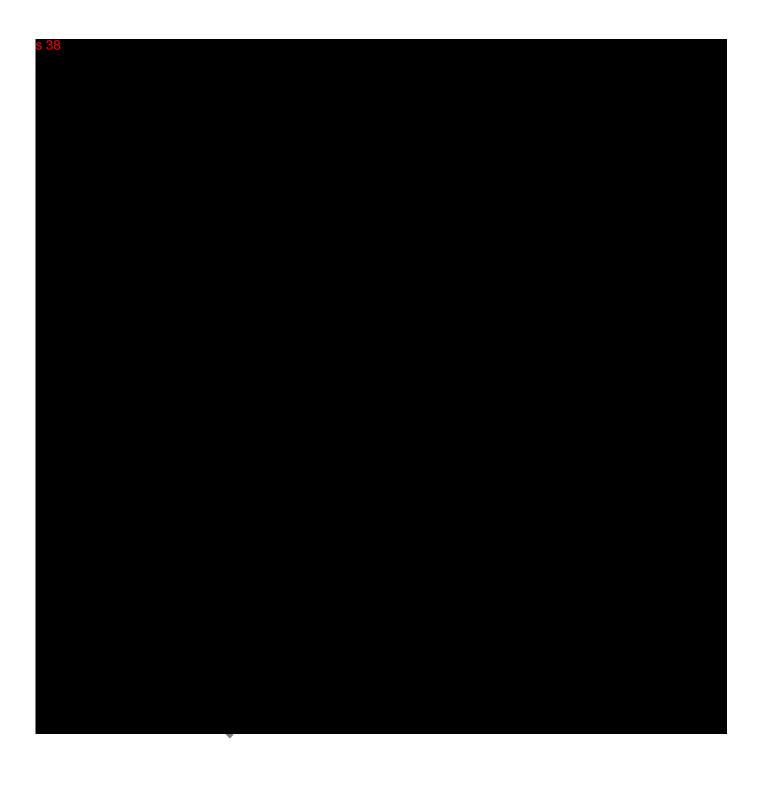
			Financial Year	
P50 Cash Flow	2016 / 2017	2017 / 2018	2018 / 2019	2019 / 2020
Project Identification and Scoping	\$ -	\$ 400,000	\$ -	\$ -
Project Development	\$ -	\$ -	\$ 1,850,000	\$ -
Project Delivery (incll. CA)	\$ -	\$ -	\$ -	\$ 26,920,000
Inherent Risk	\$ -	\$ 263,357	\$ 1,053,428	\$ 1,316,785
Contingent Risk	\$ -	\$ 225,229	\$ 450,457	\$ 1,576,600
Escalation costs (nominal)	\$ -	\$ 31,100	\$ 238,880	\$ 3,241,248
Sub-Total (annual)	\$ -	\$ 920,000	\$ 3,590,000	\$ 33,050,000
Accumulative Total	\$ -	\$ 920,000	\$ 4,510,000	\$ 37,560,000

	Financial Year									
P90 Cash Flow	2016 / 2017	2017 / 2018	2018 / 2019	2019 / 2020						
Project Identification and Scoping	\$ -	\$ 400,000.00	\$ -	\$ -						
Project Development	\$ -	\$ -	\$ 1,850,000.00	\$ -						
Project Delivery (incll. CA)	\$ -	\$ -	\$ -	\$ 26,920,000.00						
Inherent Risk	\$ -	\$ 559,572.37	\$ 2,238,289.49	\$ 2,797,861.86						
Contingent Risk	\$ -	\$ 427,781.94	\$ 855,563.88	\$ 2,994,473.59						
Escalation costs (nominal)	\$ -	\$ 48,557.40	\$ 352,125.96	\$ 3,556,415.60						
Sub-Total (annual)	\$ -	\$ 1,440,000	\$ 5,300,000	\$ 36,270,000						
Accumulative Total	\$ -	\$ 1,440,000	\$ 6,740,000	\$ 43,010,000						









Southern Outlet Bus Lanes - Project 1 - Option 2 -

Project Name Stage 1 - Alternative 'B' Grade Separated

Brief reference number 2220-1-39 Project completion: State Growth Project Number 054758/1 2020 (assumed)

Consultant Project number IS174300
Date 7/11/16

Assumptions

Real escalation 1.5% Nominal escalation 3.5%

Southern Outlet Bus Lanes - Project 1 - Option 2 - Stage 1 - Alternative 'B' Grade Sep

Project Cash Flow

		Financial Year									
P50 Cash Flow	2016 / 2017		2017 / 2018		2018 / 2019	2	019 / 2020	2020 / 2021			
Project Identification and Scoping	'	\$	400,000				,				
Project Development				\$	1,850,000						
Project Delivery (incl. CA)						\$	26,920,000				
Inherent Risk		\$	263,357	\$	1,053,428	\$	1,316,785.08				
Contingent Risk		\$	225,229	\$	450,457	\$	1,576,599.66				
Escalation costs (nominal)		\$	31,100	\$	238,880	\$	3,241,248				
Sub-Total (annual)	\$ -	\$	920,000	\$	3,590,000	\$	33,050,000	\$ -			
Accumulative Total	\$ -	\$	920,000	\$	4,510,000	\$	37,560,000	\$ -			

		Financial Year								
P90 Cash Flow		2016 / 2017	20	17 / 2018		2018 / 2019		2019 / 2020		2020 / 2021
Project Identification and Scoping	\$		\$	400,000	\$		\$,	\$	-
Project Development	\$	-	\$	U'.	\$	1,850,000	\$	-	\$	-
Project Delivery (incl. CA)	\$		\$		\$	-	\$	26,920,000	\$	-
Inherent Risk			\$	559,572		2,238,289	\$	2,797,861.86		
Contingent Risk	<u> </u>		\$	427,782		855,564	\$	2,994,473.59		
Escalation costs (nominal)		1	\$	48,557		352,126		3,556,416		
Sub-Total (annual)			\$	1,440,000		5,300,000		36,270,000		
Accumulative Total	\$	-	\$	1,440,000	\$	6,740,000	\$	43,010,000	\$	-
Selegi										



Project Name: Southern Outlet Bus Lanes - Project 1 -

Option 2 - Stage 2

Project Phase:

Early Planning / Concept Options

Brief reference number 2220-1-39
State Growth Project Number 054758/1
Consultant Project number IS174300
Date 7/11/2016

Project completion: 2020 (assumed)

Description of Scope

Early planning phase concept design and high level cost estimate of proposed tidal flowbus lane for the Southern Outlet from Kingston to Olinder Grove - Centralised (Tidal Flow) bus lane from Kingston to start of Stage 1

Rates:

Rates are based on State Growth supplied rates for previous projects and past experience. The rates are subject to change depending on market conditions, and market rates may differ considerably to those adopted in the Cost Estimate.

Quantities:

Quantities have been taken from the high level Concept Designs.

Escalation:

A 3.5% escalation rate has been applied to activities outside of the 2016/2017 construction seaso

Summary of results:

Base Estimate (Owners Cost + Construction Cost)
Inherent risk allowance Contingent risk allowance Base Estimate + Contingency (Inherent + Contingent) Total contingency % above base estimate
Escalation (Nominal - applied to base case + contingency)
Total Out turn

\$		15,590,000.00
	P50	P90
5	1,186,899	\$ 2,799,994
2	1,669,199	\$ 3,590,564
\$	18,446,098	\$ 21,980,557
•	18%	41%
\$	1,913,124	\$ 2,232,728
\$	20,400,000	\$ 24,300,000

P50 P90 sturn Cost \$ 20,400,000 \$ 24,300,000

Total out turi

Overall Cash Flow

			Financial Year	
P50 Cash Flow	2016 / 2017	2017 / 2018	2018 / 2019	2019 / 2020
Project Identification and Scoping	\$ -	\$ 250,000	\$ -	\$ -
Project Development	\$ -	\$ -	\$ 600,000	\$ -
Project Delivery (incll. CA)	\$ -	\$ -	\$ -	\$ 14,740,000
Inherent Risk	\$ -	\$ 118,690	\$ 474,760	\$ 593,450
Contingent Risk	\$ -	\$ 166,920	\$ 333,840	\$ 1,168,439
Escalation costs (nominal)	\$ -	\$ 18,746	\$ 100,327	\$ 1,794,050
Sub-Total (annual)	\$ -	\$ 550,000	\$ 1,510,000	\$ 18,300,000
Accumulative Total	\$ -	\$ 550,000	\$ 2,060,000	\$ 20,360,000

	Financial Year									
P90 Cash Flow	2016 / 2017	2017 / 2018	2018 / 2019	2019 / 2020						
Project Identification and Scoping	\$ -	\$ 250,000.00	\$ -	\$ -						
Project Development	\$ -	\$ -	\$ 600,000.00	\$ -						
Project Delivery (incll. CA)	\$ -	\$ -	\$ -	\$ 14,740,000.00						
Inherent Risk	\$ -	\$ 279,999.36	\$ 1,119,997.44	\$ 1,399,996.80						
Contingent Risk	\$ -	\$ 359,056.37	\$ 718,112.74	\$ 2,513,394.60						
Escalation costs (nominal)	\$ -	\$ 31,116.95	\$ 173,654.40	\$ 2,027,957.07						
Sub-Total (annual)	\$ -	\$ 920,000	\$ 2,610,000	\$ 20,680,000						
Accumulative Total	\$ -	\$ 920,000	\$ 3,530,000	\$ 24,210,000						







Southern Outlet Bus Lanes - Project 1 - Option 2 -

Project Name Stage 2

Brief reference number 2220-1-39 Project completion: State Growth Project Number 054758/1 2020 (assumed)

Consultant Project number IS174300
Date 7/11/16

Assumptions

 CPI
 2.0%

 Real escalation
 1.5%

 Nominal escalation
 3.5%

Southern Outlet Bus Lanes - Project 1 - Option 2 - Stage 2

Project Cash Flow

	Financial Year									
P50 Cash Flow	2016 / 2017		2017 / 2018		2018 / 2019		2019 / 2020		2020 / 2021	
Project Identification and Scoping	''	\$	250,000				,			
Project Development				\$	600,000					
Project Delivery (incl. CA)						\$	14,740,000			
Inherent Risk		\$	118,690	\$	474,760	\$	593,449.67			
Contingent Risk		\$	166,920	\$	333,840	\$	1,168,438.97			
Escalation costs (nominal)		\$	18,746	\$	100,327	\$	1,794,050			
Sub-Total (annual)	\$ -	\$	550,000	\$	1,510,000	\$	18,300,000	\$		
Accumulative Total	\$ -	\$	550,000	\$	2.060.000	\$	20,360,000	\$		

	Financial Year							
P90 Cash Flow	2016 / 2017		2017 / 2018		2018 / 2019		2019 / 2020	2020 / 2021
Project Identification and Scoping	\$ -	\$	250,000	\$		\$		\$ -
Project Development	\$ -	\$		\$	600,000	\$	-	\$ -
Project Delivery (incl. CA)	\$	\$		\$	-	\$	14,740,000	\$ -
Inherent Risk		\$	279,999	\$	1,119,997	\$	1,399,996.80	
Contingent Risk		\$	359,056	\$	718,113	\$	2,513,394.60	
Escalation costs (nominal)		\$	31,117		173,654			
Sub-Total (annual)		\$	920,000		2,610,000			-
Accumulative Total	\$ -	\$	920,000	\$	3,530,000	\$	24,210,000	\$ -
20/03								



Project Name: Southern Outlet Bus Lanes - Project 1 -

Option 3

Project Phase:

Early Planning / Concept Options

Brief reference number 2220-1-39
State Growth Project Number 054758/1
Consultant Project number IS174300
Date 7/11/2016

Project completion: 2020 (assumed)

Description of Scope

Early planning phase concept design and high level cost estimate of proposed south bound bus lane for the Southern Outlet from Olinder Grove to Kingston. Southbound right hand side bus lane (Note: removes barriers for Option 2 - Stage 2 Tidal Flow from Kingston to Olinda Grove Overpass)

Rates:

Rates are based on State Growth supplied rates for previous projects and past experience. The rates are subject to change depending on market conditions, and market rates may differ considerably to those adopted in the Cost Estimate.

Quantities:

Quantities have been taken from the high level Concept Designs.

Escalation

A 3.5% escalation rate has been applied to activities outside of the 2016/2017 construction season

Summary of results:

Base Estimate (Owners Cost + Construction Cost)
Inherent risk allowance
Contingent risk allowance
Base Estimate + Contingency (Inherent + Contingent)
Total contingency % above base estimate
Escalation (Nominal - applied to base case + contingency)
, , , , , ,
Total Out turn

	\$	14,790,000.00
J	P50	P90
1	\$ 1,139,354	\$ 2,699,073
Ì	\$ 1,669,164	\$ 3,620,426
	\$ 17,598,518	\$ 21,109,499
١	19%	 43%
	\$ 1,822,041	\$ 2,139,842
	\$ 19,400,000	\$ 23,300,000

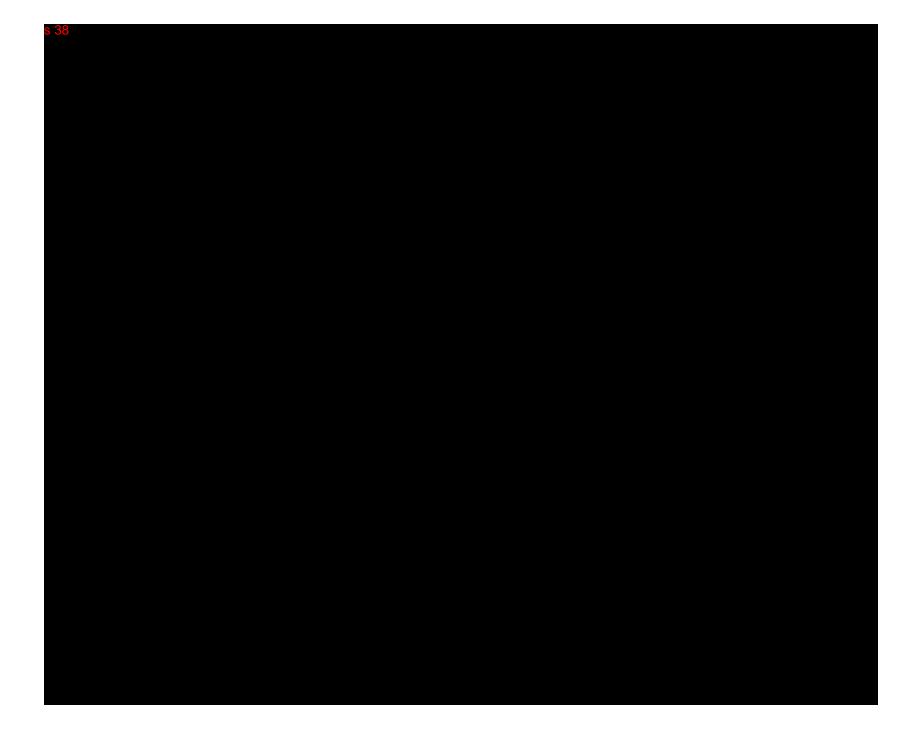
P50	P90	
\$ 19,400,000	\$ 23,	300,000

Total Out turn Co

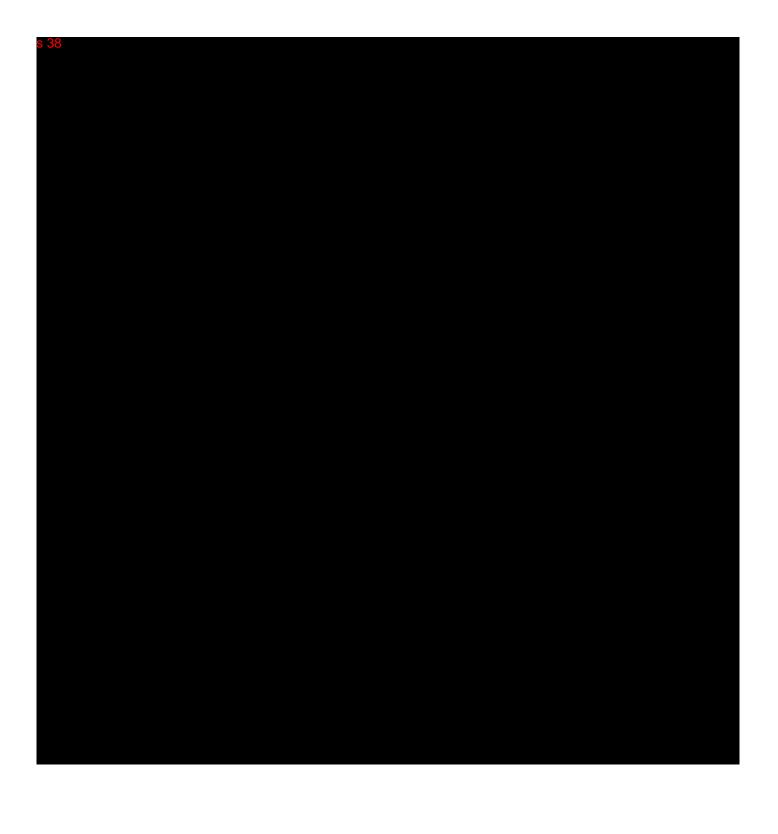
Overall Cash Flow

	Financial Year				
P50 Cash Flow	2016 / 2017	2017 / 2018	2018 / 2019	2019 / 2020	
Project Identification and Scoping	\$ -	\$ 250,000	\$ -	\$ -	
Project Development	\$ -	\$ -	\$ 600,000	\$ -	
Project Delivery (incll. CA)	\$ -	\$ -	\$ -	\$ 13,940,000	
Inherent Risk	\$ -	\$ 113,935	\$ 455,742	\$ 569,677	
Contingent Risk	\$ -	\$ 166,916	\$ 333,833	\$ 1,168,415	
Escalation costs (nominal)	\$ -	\$ 18,580	\$ 98,972	\$ 1,704,489	
Sub-Total (annual)	\$ -	\$ 550,000	\$ 1,490,000	\$ 17,380,000	
Accumulative Total	\$ -	\$ 550,000	\$ 2,040,000	\$ 19,420,000	

	Financial Year							
P90 Cash Flow	2016 / 2017	2017 / 2018 2018 / 2019 2019 / 202					2019 / 2020	
Project Identification and Scoping	\$ -	\$	250,000.00	\$	-	\$	-	
Project Development	\$ -	\$	=	\$	600,000.00	\$	-	
Project Delivery (incll. CA)	\$ -	\$	-	\$	-	\$	13,940,000.00	
Inherent Risk	\$ -	\$	269,907.27	\$	1,079,629.07	\$	1,349,536.33	
Contingent Risk	\$ -	\$	362,042.63	\$	724,085.25	\$	2,534,298.38	
Escalation costs (nominal)	\$ -	\$	30,868.25	\$	171,204.55	\$	1,937,769.43	
Sub-Total (annual)	\$ -	\$	910,000	\$	2,570,000	\$	19,760,000	
Accumulative Total	\$ -	\$	910,000	\$	3,480,000	\$	23,240,000	







Project Name Southern Outlet Bus Lanes - Project 1 - Option 3

Brief reference number 2220-1-39 Project completion:
State Growth Project Number 054758/1 2020 (assumed)

Consultant Project number IS174300
Date 7/11/16

Assumptions

 CPI
 2.0%

 Real escalation
 1.5%

 Nominal escalation
 3.5%

Southern Outlet Bus Lanes - Project 1 - Option 3

Project Cash Flow

	Financial Year								
P50 Cash Flow	2016 / 2017		2017 / 2018	2018 / 2019	2019 / 2020	2020 / 2021			
Project Identification and Scoping	"	\$	250,000		,				
Project Development				\$ 600,000					
Project Delivery (incl. CA)					13,940,000)			
Inherent Risk		\$	113,935	\$ 455,742	\$ 569,677.03	2			
Contingent Risk		\$	166,916	\$ 333,833	\$ 1,168,414.6	5			
Escalation costs (nominal)		\$	18,580	\$ 98,972	\$ 1,704,489	9			
Sub-Total (annual)	\$ -	\$	550,000	\$ 1,490,000	\$ 17,380,000) \$ -			
Accumulative Total	\$ -	\$	550,000	\$ 2,040,000	\$ 19,420,000) \$ -			

	Financial Year						
P90 Cash Flow	2016 / 2017	2017 / 2018	2018 / 2019	2019 / 2020	2020 / 2021		
Project Identification and Scoping	\$ -	\$ 250,000	\$ -	\$ -	\$ -		
Project Development	\$ -	\$ -	\$ 600,000	\$ -	\$ -		
Project Delivery (incl. CA)	\$	\$ -	\$ -	\$ 13,940,000	\$ -		
Inherent Risk		\$ 269,907	\$ 1,079,629	\$ 1,349,536.33			
Contingent Risk		\$ 362,043					
Escalation costs (nominal)		\$ 30,868					
Sub-Total (annual)		\$ 910,000					
Accumulative Total	\$ -	\$ 910,000	\$ 3,480,000	\$ 23,240,000	\$ -		
20/03							



Department of State Growth - Macquarie Street Bus Lane Project Name: Macquarie Street Bus Lane - Alternative 'A'

Project Phase:

Early Planning / Concept Options

Brief reference number 2220-1-39
State Growth Project Number 054758/1
Consultant Project number IS174300
Date 20/12/2016

Project completion: 2020 (assumed)

Description of Scope

Early planning phase concept design and high level cost estimate of proposed bus lane for Macquarie Street from Southern Outlet to Elizabeth Street. Parking retained where possible. Significant kerb realignment required and traffic lanes generally 3.2m (min) wide.

Rates:

Rates are based on State Growth supplied rates for previous projects and past experience. The rates are subject to change depending on market conditions, and market rates may differ considerably to those adopted in the Cost Estimate.

Quantities:

Quantities have been taken from the high level Concept Designs.

Escalation:

A 3.5% escalation rate has been applied to activities outside of the 2016/2017 construction

Summary of results:

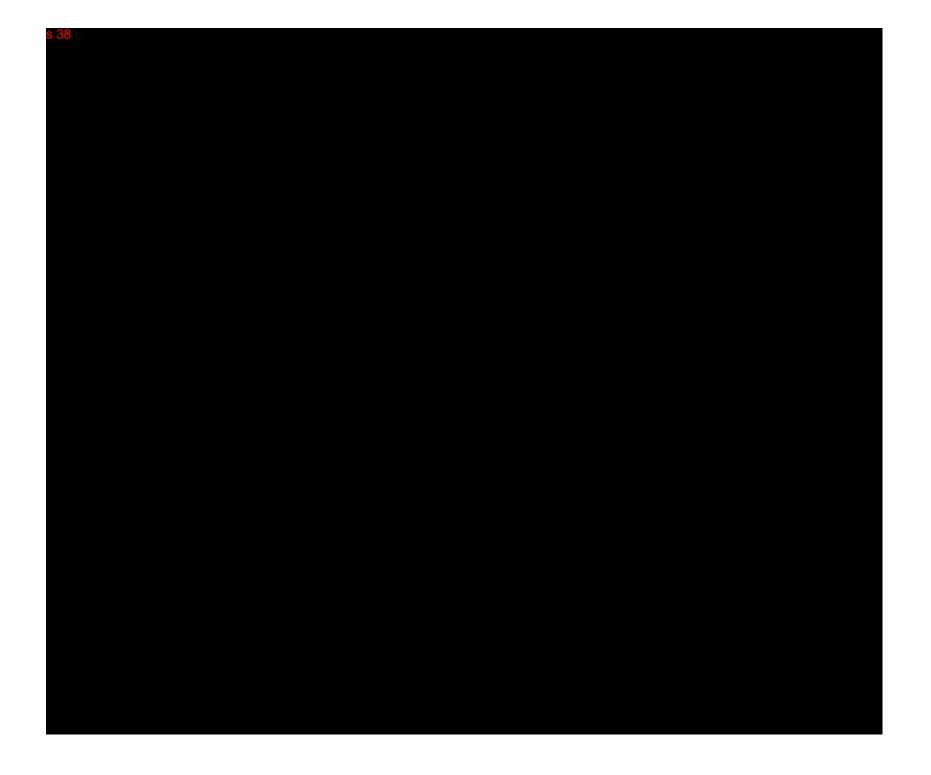
Base Estimate (Owners Cost + Construction Cost)
Inherent risk allowance
Contingent risk allowance
Base Estimate + Contingency (Inherent + Contingent) Total contingency % above base estimate
Escalation (Nominal - applied to base case + contingency)
Total Out turn

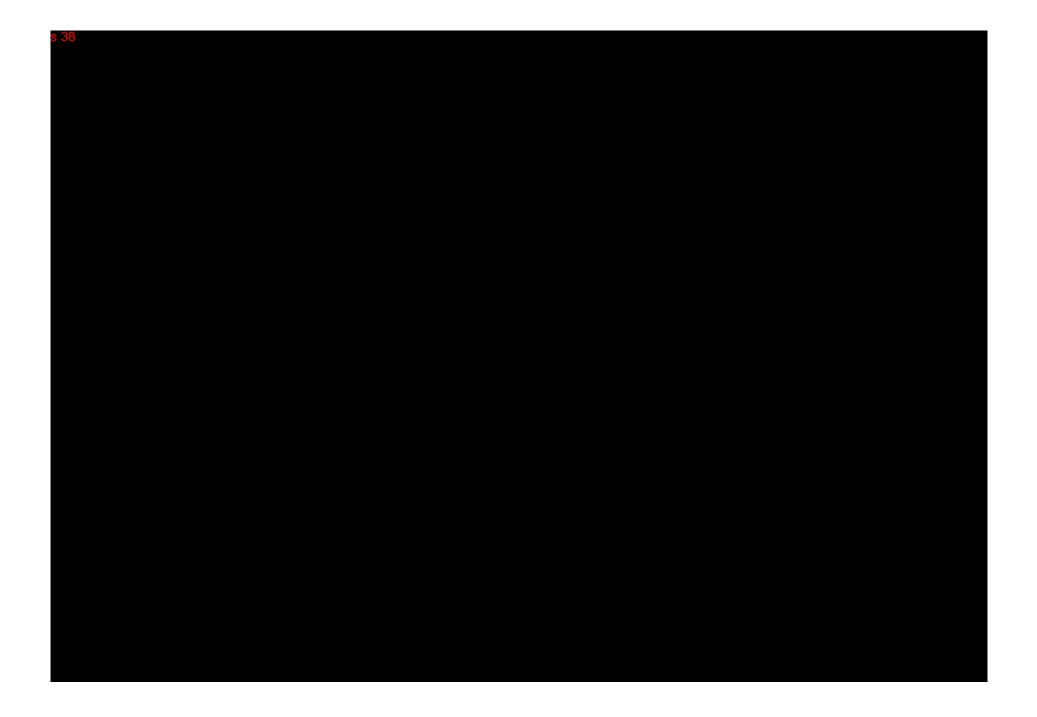
\$	1,460,000.00
P50	P90
122,086	\$ 229,128
105,387	\$ 194,820
\$ 1,687,473	\$ 1,883,948
16%	29%
\$ 168,027	\$ 185,663
\$ 1,900,000	\$ 2,100,000

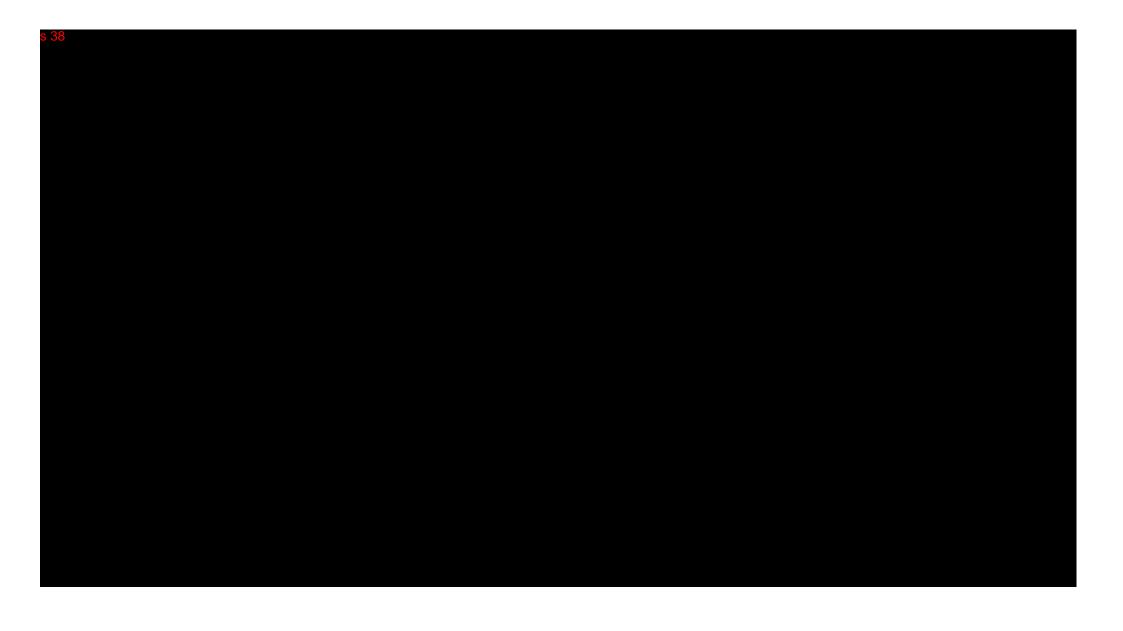
P50	P90
\$ 1,900,000	\$ 2,100,000

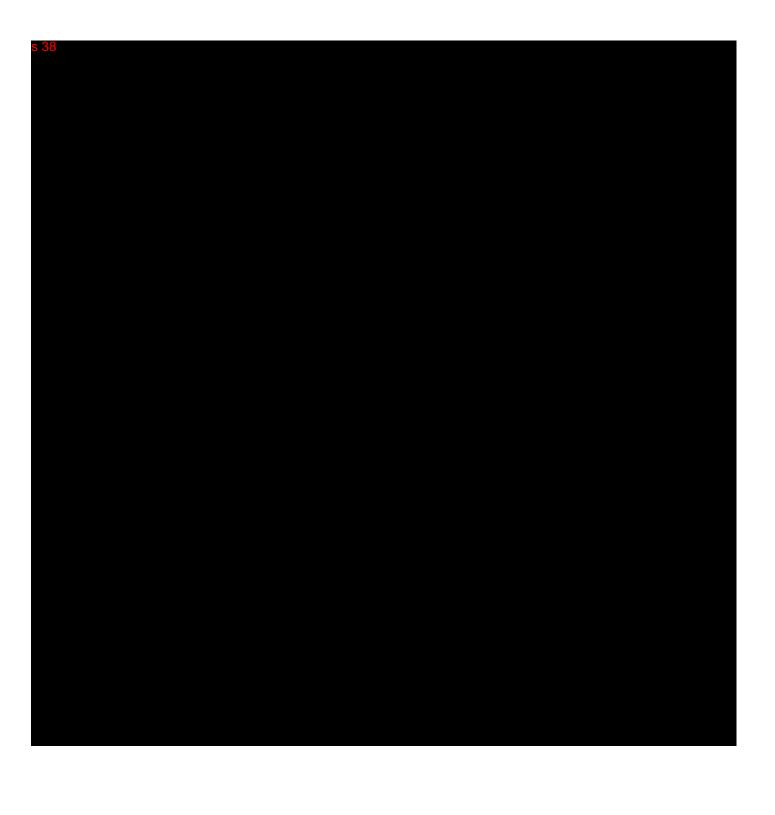
Overall Cash Flow							
	Financial Year						
P50 Cash Flow	2016 / 2017	:	2017 / 2018		2018 / 2019		019 / 2020
Project Identification and Scoping	\$ -	\$	90,000	\$	-	\$	-
Project Development	\$ -	\$	-	\$	120,000	\$	-
Project Delivery (incll. CA)	\$ -	\$	-	\$	-	\$	1,250,000
Inherent Risk	\$ -	\$	12,209	\$	48,834	\$	61,043
Contingent Risk	\$ -	\$	10,539	\$	21,077	\$	73,771
Escalation costs (nominal)	\$ -	\$	3,946	\$	13,526	\$	150,554
Sub-Total (annual)	\$ -	\$	120,000	\$	200,000	\$	1,540,000
Accumulative Total	\$ -	\$	120,000	\$	320,000	\$	1,860,000

	Financial Year								
P90 Cash Flow	2016 / 2017		2017 / 2018		2017 / 2018 2018 / 2019		2018 / 2019		2019 / 2020
Project Identification and Scoping	\$ -	\$	90,000.00	\$	-	\$	-		
Project Development	\$ -	\$	-	\$	120,000.00	\$	-		
Project Delivery (incll. CA)	\$ -	\$	-	\$	-	\$	1,250,000.00		
Inherent Risk	\$ -	\$	22,912.80	\$	91,651.19	\$	114,563.99		
Contingent Risk	\$ -	\$	19,482.04	\$	38,964.07	\$	136,374.25		
Escalation costs (nominal)	\$ -	\$	4,633.82	\$	17,850.07	\$	163,178.82		
Sub-Total (annual)	\$ -	\$	140,000	\$	270,000	\$	1,660,000		
Accumulative Total	\$ -	\$	140,000	\$	410,000	\$	2,070,000		









Project NameMacquarie Street Bus Lane - Alternative 'A'Brief reference number2220-1-39Project completion:State Growth Project Number054758/12020 (assumed)

Consultant Project number IS174300
Date 20/12/16

Assumptions

 CPI
 2.0%

 Real escalation
 1.5%

 Nominal escalation
 3.5%

Macquarie Street Bus Lane - Alternative 'A'

Project Cash Flow

	Financial Year							
P50 Cash Flow	2016 / 2017	201	2017 / 2018 2018 / 201		2019 / 2020	2020 / 2021		
Project Identification and Scoping	,,	\$	90,000		,			
Project Development				\$ 120,000				
Project Delivery (incl. CA)					\$ 1,250,000			
Inherent Risk		\$	12,209	\$ 48,834	\$ 61,042.81			
Contingent Risk		\$	10,539	\$ 21,077	\$ 73,771.10			
Escalation costs (nominal		\$	3,946	\$ 13,526	\$ 150,554			
Sub-Total (annual)	\$ -	\$	120,000	\$ 200,000	\$ 1,540,000	\$ -		
Accumulative Tota	\$ -	\$	120,000	\$ 320,000	\$ 1,860,000	\$ -		

	Financial Year								
P90 Cash Flow	20	16 / 2017	201	7 / 2018		2018 / 2019		2019 / 2020	2020 / 2021
Project Identification and Scoping	\$	-	\$	90,000	\$	-	\$		\$ -
Project Development	\$	-	\$		\$	120,000	\$	-	\$ -
Project Delivery (incl. CA)	\$	-	\$		\$	-	\$	1,250,000	\$ -
Inherent Risk			\$	22,913	\$	91,651	\$	114,563.99	
Contingent Risk			\$	19,482		38,964	\$	136,374.25	
Escalation costs (nominal)			\$	4,634		17,850		163,179	
Sub-Total (annual)		-	\$	140,000		270,000		1,660,000	-
Accumulative Total	\$	-	\$	140,000	\$	410,000	\$	2,070,000	\$ -
26/69									



Department of State Growth - Macquarie Street Bus Lane

Project Name: Macquarie Street Bus Lane - Project 2 -

Alternative 'B'

Project Phase:

Early Planning / Concept Options

Brief reference number 2220-1-39
State Growth Project Number 054758/1
Consultant Project number IS174300
Date 20/12/2016

Project completion: 2020 (assumed)

Description of Scope

Early planning phase concept design and high level cost estimate of proposed bus lane for the Macquarie Street from Southern Outlet to Elizabeth Street. Existing kerbs retained where practical. No parking retained.

Rates:

Rates are based on State Growth supplied rates for previous projects and past experience. The rates are subject to change depending on market conditions, and market rates may differ considerably to those adopted in the Cost Estimate.

Quantities:

Quantities have been taken from the high level Concept Designs.

Escalation

A 3.5% escalation rate has been applied to activities outside of the 2016/2017 construction seasons.

Summary of results:

Base Estimate (Owners Cost + Construction Cost)
Inherent risk allowance Contingent risk allowance Base Estimate + Contingency (Inherent + Contingent) Total contingency % above base estimate Escalation (Nominal - applied to base case + contingency)
, , , , , , , , , , , , , , , , , , ,
Total Out turn

\$		1,240,000.00				
P50	P90					
\$ 100,267	\$	212,516				
112,528	\$	203,040				
\$ 1,452,795	\$	1,655,556				
 17%		34%				
\$ 142,895	\$	161,082				
\$ 1,600,000	\$	1,900,000				

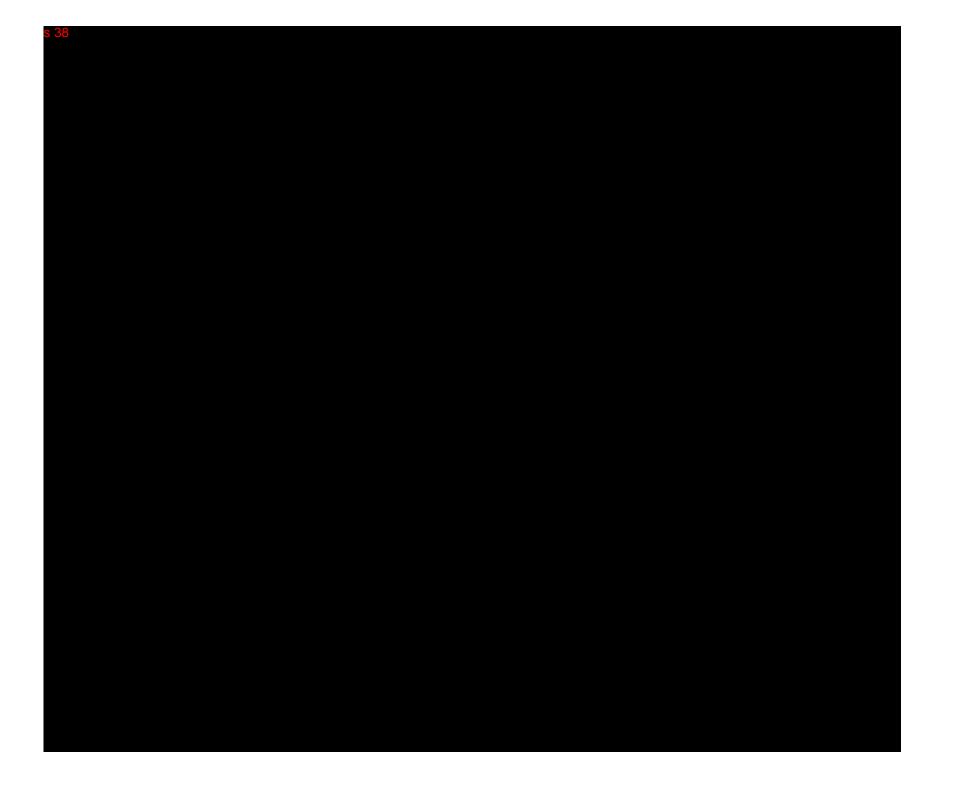
		V
Total Out	turn	Cost

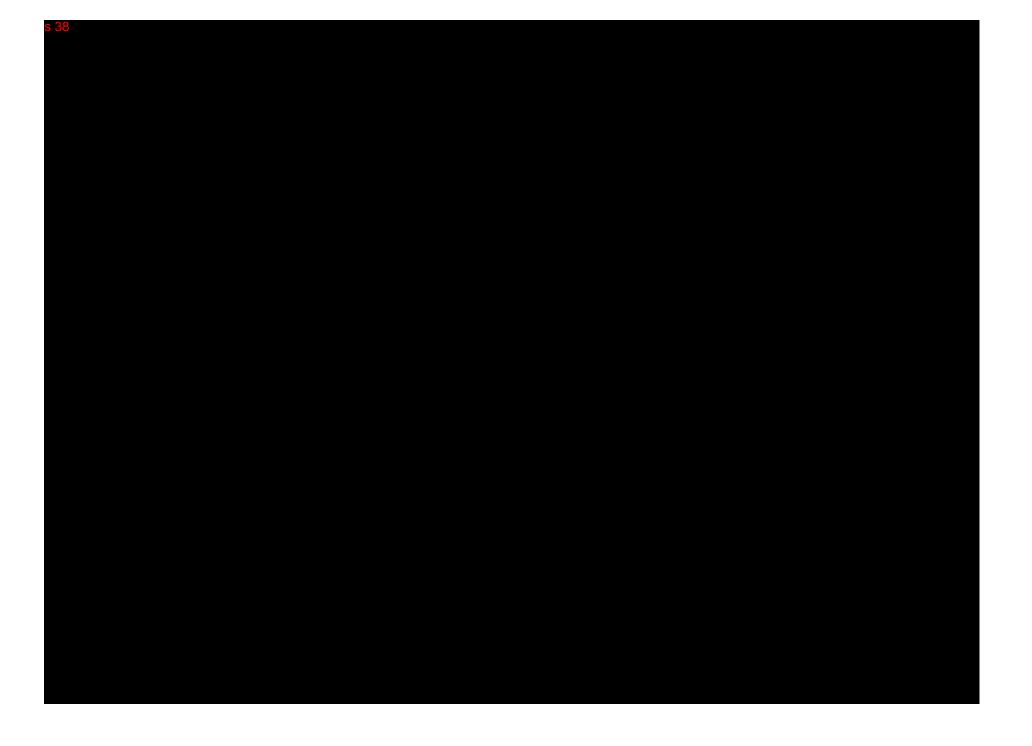
P50	P90
\$ 1,600,000	\$ 1,900,000

Overall Cash Flow

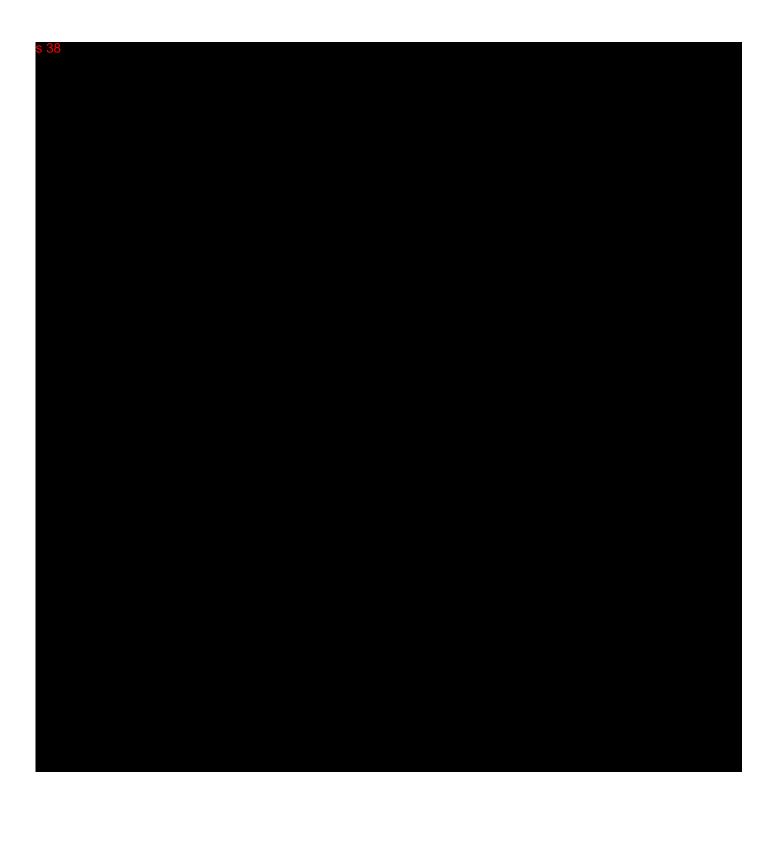
	Financial Year						
P50 Cash Flow	2016 / 2017	2017 / 2018	2018 / 2019	2019 / 2020			
Project Identification and Scoping	\$ -	\$ 90,000	\$ -	\$ -			
Project Development	\$ -	\$ -	\$ 120,000	\$ -			
Project Delivery (incll. CA)	\$ -	\$ -	\$ -	\$ 1,030,000			
Inherent Risk	\$ -	\$ 10,027	\$ 40,107	\$ 50,134			
Contingent Risk	\$ -	\$ 11,253	\$ 22,506	\$ 78,769			
Escalation costs (nominal)	\$ -	\$ 3,895	\$ 13,007	\$ 125,993			
Sub-Total (annual)	\$ -	\$ 120,000	\$ 200,000	\$ 1,280,000			
Accumulative Total	\$ -	\$ 120,000	\$ 320,000	\$ 1,600,000			

	Financial Year						
P90 Cash Flow	2016 / 2017		2017 / 2018	2018 / 2019 2		2019 / 2020	
Project Identification and Scoping	\$ -	\$	90,000.00	\$	-	\$	-
Project Development	\$ -	\$	-	\$	120,000.00	\$	-
Project Delivery (incll. CA)	\$ -	\$	-	\$	-	\$	1,030,000.00
Inherent Risk	\$ -	\$	21,251.63	\$	85,006.53	\$	106,258.17
Contingent Risk	\$ -	\$	20,303.99	\$	40,607.99	\$	142,127.96
Escalation costs (nominal)	\$ -	\$	4,604.45	\$	17,493.89	\$	138,983.42
Sub-Total (annual)	\$ -	\$	140,000	\$	260,000	\$	1,420,000
Accumulative Total	\$ -	\$	140,000	\$	400,000	\$	1,820,000









Macquarie Street Bus Lane - Project 2 - Alternative

Project Name 'E

Brief reference number 2220-1-39 Project completion: State Growth Project Number 054758/1 2020 (assumed)

Consultant Project number IS174300
Date 20/12/16

Assumptions

 CPI
 2.0%

 Real escalation
 1.5%

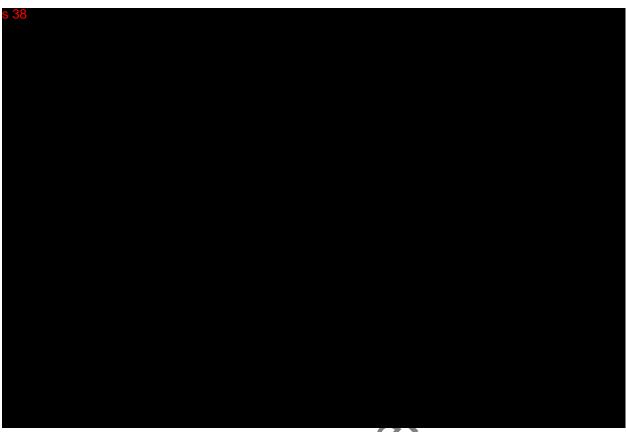
 Nominal escalation
 3.5%

Macquarie Street Bus Lane - Project 2 - Alternative 'B'

Project Cash Flow

	Financial Year							
P50 Cash Flow	2016 / 2017	2017 / 2018	2018 / 2019 2019 / 2020		2020 / 2021			
Project Identification and Scoping	"	\$ 90,000		,				
Project Development			\$ 120,000					
Project Delivery (incl. CA)				\$ 1,030,000				
Inherent Risk		\$ 10,027	\$ 40,107	\$ 50,133.51				
Contingent Risk		\$ 11,253	\$ 22,506	\$ 78,769.40				
Escalation costs (nominal)		\$ 3,895	\$ 13,007	\$ 125,993				
Sub-Total (annual)	\$ -	\$ 120,000	\$ 200,000	\$ 1,280,000	\$ -			
Accumulative Total	\$ -	\$ 120,000	\$ 320,000	\$ 1,600,000	\$ -			

			Financial Year		
P90 Cash Flow	sh Flow 2016/2017 2017/2018 2018/2019		2018 / 2019	2019 / 2020	2020 / 2021
Project Identification and Scoping	\$ -	\$ 90,000	\$ -	\$ -	\$ -
Project Development	\$ -	\$ -	\$ 120,000	\$ -	\$ -
Project Delivery (incl. CA)	\$ -	\$ -	\$ -	\$ 1,030,000	\$ -
Inherent Risk		\$ 21,252	\$ 85,007	\$ 106,258.17	
Contingent Risk		20,304	\$ 40,608	\$ 142,127.96	
Escalation costs (nominal)		\$ 4,604	\$ 17,494	\$ 138,983	
Sub-Total (annual)		\$ 140,000			
Accumulative Total	\$ -	\$ 140,000	\$ 400,000	\$ 1,820,000	\$ -
Sologia					



Risk Likelihood Evaluation Criteria

The likelihood that a risk event will occur is based on the following contributing factors:

- Complexity evaluated in the context of the complexity of a process or activity
- . Susceptibility evaluated in the context of people, processes, stakeholders involved or the rate of change within industry.
- History evaluated in the context of the history of previous incidents directly within the organisation, industry or more broadly.

Some events happen once in a lifetime. Other cans happen almost every day. Analysing risk requires an assessment of their frequency of occurrence. This following table provides broad descriptions used to support likelihood ratings. The occurrence will be evaluated without reference to known management practices since these are at a later stage of the risk assessment process.

RISK ASSESSMENT MATRIX		LIKELIHOOD (Refer to Definitions right)					
		A. Rare	B. Unlikely	C. Possible	D. Likely	E. Almost Certain	
CONSEQUENCES (Refer to Definitions Overleaf)	5 - Catastrophic	M	H	H	VH	VH	
	4 - Major	M	M	Н	H	VH	
	3 - Moderate	L	M	M	Н	H	
	2 - Minor	L	L	M	M	Н	
	1 - Notable	L	L	L	M	M	

	Risk Action Levels			
VH - Very High	Minister/Secretary decision/direction may be required Provide memorandum to Manager Project Services Include in Project Monthly Report			
H – High	Take immediate action to further control the risk Include in Project Monthly Report Consider providing supplementary advice to Manager Project Services			
M – Medium	Proactively manage risks Report to Project Steering Committee through risk register Review for improvement opportunities			
L – Low	Monitor risk, reduce if practicable			

What is the likelihood of the selected consequences occurring?				
Likelihood Rating	Description			
5 - Almost Certain	Over 90% probability; or "Happens Often"; or "Unlikely that it won't happen"			
4 - Likely	Greater than 50% probability; or "Could easily happen"			
3 - Possible	Greater than 10% probability; or "Could happen, has occurred before".			
2 - Unlikely	Greater than 1% probability; or Hasn't happened yet but could".			
1 - Rare	Less than 1% probability, or Conceivable, but only as a result of combination of unusual events.			



Risk Consequence Evaluation Criteria

In the context of the risk assessment, risks are assessed in terms of their impact on the achievement of business strategies and operational outcomes. Risk evaluation criteria may be based on operational, technical, financial, legal, social, environmental or other criteria. Each consequence can be rated, in terms of its severity, from notable to cat astrophic as follows:

Consequence Definitions – What are the likely consequences in the event of a failure?									
Rating	Community	Environment & Heritage	Legal & Compliance	Reputation	Management Impact	Financial Impact	Program Impact		
5 - Catastrophic	§ Complete loss of trust by affected community leading to social unrest & outrage	§ Unacceptable impact on environmental values with high significance § Unacceptable impact on heritage values with high significance	§ Major litigation with significant damages costs § Potential prosecution by authorities § Court or NGO' imposed fine	§ Reputation and standing of DIER affected locally, national and in ternation ally § Catastrophic loss of confidence by key stakeholders	§ Requires management at Ministerial level § Requires new or amended Legis lation	§ Project unable to proceed § Loss of Federal funding § Election commitment projects cancelled or deferred to balance budget	§ Project is never able to proceed		
4 - Major	§ Prolonged community outrage	§ Serious long term environmental impact § Partial loss of significant heritage values	§ Major litigation § Class action § Possibility of custod al senlence for Senior Mana gement	§ Major embarrassment for DIER locally and nationally § Significant loss of confidence of key stake holders	§ Critical event that requires considerable Secretarial and General Manager time to manage over many months	§ A dditional funding required from Federal Government at project level § A dditional funding required from State to balance program bud det	§ Project is delayed indefinitely		
3 - Moderate	§ Sustained community disruption leading to actions requiring continual management attention	§ Moderate impact but not affecting ecosystem function § Moderate impact on heritage values	§ Major breach of regulation with punitive fine § Significant litigation involving many weeks of senior management time	§ Community and stakeholder concern on a number of is sues suggesting an inability to deliver results	§ Significant event that can be managed with careful management attention § Will take some Branch- level Management time over se veral weeks	§ Other projects cancelled or deferred (Internal budget reallocation) § Scope reduced on other projects in the program	§ Critical timeframe for delivery cannot be met		
2 - Minor	§ Short term community outrage or sustained but localised community disruption	§ Min or impacts on environmental values § Min or impacts on heritage values	§ Serious breach of regulation with investigation or report to authority with prosecution and/or moderate fine possible	§ Issues raised by community and stake holders § Negative perception of DIER in parts of the community or with key stake holders	§ Will require Group Managerattention over several days	§ Scope reduced on this project § Internal budget real location	§ Mo derate delay a gainst non-critical tim eframe for d eli very		
1 -Notable	§ In significant localis ed community dis ruption	§ No impact values	§ Minor breach of regulation	§ Some isolated impact on DIER reputation at any level	§ Impact of event absorbed in normal management activity	§ Use of contingency funds is required	§ Minor delay to program		

¹ Non Government Organisation