# The Parade Upgrade

Short-term safety improvements and long-term upgrades

25 May 2021





#### 8 October 2020 – Strategy and Policy Committee



#### Cycleways update 20/21

#### STRATEGY AND POLICY COMMITTEE 8 OCTOBER 2020

Absolutely Positively Wellington City Council Me Heke Ki Pöneke

2.3 Cycleways Programme Update 20/21

Moved Deputy Mayor Free, seconded Mayor Foster, the following motion

#### **Recommendation/s**

That the Strategy and Policy Committee:

- 1. Receive the information.
- 2. Agree that funding to cover the budget shortfall for Cobham Drive is reprioritised from elsewhere within the cycleways budget.
- Agree to additional funding to cover the overspend on Evans Bay (stage 1) and for budget uplift for the Miramar cutting bike and walking improvements to complete 80% of these projects as per agreed with Waka Kotahi in our Memorandum of Understanding for the Urban Cycleways funding.
- Note that officers will be progressing planning for the Island Bay project this financial year, after being advised that the project was not successful as a shovel ready project.
- 5. Note that officers are progressing the four innovating streets projects approved by Waka Kotahi.

#### Moved Councillor Foon, seconded Councillor Fitzsimons, the following amendment

#### Resolved

- Ask officers to update the Newtown connections website with indicative process and timeline as soon as we have direction from LGWM on a Southern connections plan from the central city to Island Bay.
- Ask officers to contact Waka Kotahi seeking funding for the Island Bay Parade upgrade cycle way as soon as possible.

#### 8 October 2020 – Strategy and Policy Committee



#### Annual Plan 20/21

#### ANNUAL PLAN/LONG-TERM PLAN COMMITTEE 18 FEBRUARY 2021

Absolutely Positively Wellington City Council Me Heke Ki Pôneke

#### 2. General Business

2.1 Long-Term Plan - Proposed Plan and Budget for Consultation

#### Moved Mayor Foster, seconded Deputy Mayor Free, the following motion

#### **Recommendation/s**

That the Annual Plan/Long-Term Plan Committee:

- 1. Receive the information.
- • •

. .

- Instruct officers to bring forward the resealing of the Island Bay Parade and simultaneously remove ghost markings, complete minor safety improvements and install buffers between the cycleway and parking lanes.
- 13. Note that the minor safety improvement is expected to require removal of some parking and therefore a traffic resolution.

Moved Councillor Foon, seconded Councillor Rush, the following amendment

#### Resolved

That the Annual Plan/Long-Term Plan Committee:

- 17. Increase spending for cycleways by \$45 million over years 4-10 which will keep us under the debt to revenue ratio.
- Request officers to advise us how the Island Bay project can be included within that programme.

Page 8 in minutes

Page 7 in minutes

Page 12 in minutes



# TODAY'S PURPOSE

• To outline what can be achieved on The Parade within three funding brackets:

#### 1. \$0

- 2. Up to \$6.1 million (the previously approved budget)
- 3. Greater than \$6.1 million (to implement the option previously approved by Councillors)

• To inform decision making around Long-Term Plan budget, **not** to select a preferred outcome



# AGENDA

#### • Background

- Historic timeline
- Current issues on The Parade

#### • Short-term safety improvements

- Options considered
- Recommended improvements
- Implementation
- Long-term upgrades
  - Assessment process
  - Short-listed options
  - MCA results for the short list options
  - Key features of the short list options
  - Recommendation



# HISTORIC TIMELINE





# **CURRENT ISSUES**

#### Road Safety Audit findings:

- Inconsistency in road markings (cycle markings and ghost markings)
- Intervisibility at:
  - Bus shelters
  - Drive ways
  - Intersections
- Parking in the buffer zone
- Narrow lanes at the bend (south of Medway St
- Transition for cyclists from the cycle lane to th





# **CURRENT ISSUES**

#### Community feedback:

- Inconsistent and confusing layout
- Lack of visibility of cyclists at:
  - Drive ways
  - Intersections
- Confusing parking layout
- Difficult for passengers to unload from parked vehicles and cross the cycle lane
- Narrow traffic lanes; cars exiting driveways need to cross the centreline
- Bus stops and traffic islands block traffic, causing delays



# **CURRENT ISSUES**

#### Crash history (post construction, Mar 2016 - Feb 2021):



Reported crashes on The Parade after construction of the cycleway

- 44 crashes total
- 9 crashes involving cyclists:
  - 2 in the town centre
  - 3 between motor vehicles and cyclists at driveways
  - 3 between motor vehicles and cyclists at intersections
  - 1 between a cyclist and a pedestrian in the midblock



# Short-term safety improvements



Impro	vement	Issue(s) addressed					
	Vertical posts	Vehicles parked in the buffer zone					
	Low mountable separators	<ul> <li>Vehicles parked in the buffer zone</li> <li>Conflict between cyclists and vehicles turning into/out of driveways</li> </ul>					
Separators	Kerb separators	<ul> <li>Vehicles parked in the buffer zone</li> <li>Narrow car door buffer zone</li> <li>Confusing layout</li> <li>Difficulty unloading from parked cars</li> </ul>					
	Planter boxes	<ul> <li>Vehicles parked in the buffer zone</li> <li>Narrow car door buffer zone</li> <li>Confusing layout</li> </ul>					
	1m setback at driveways	Lack of visibility of cyclists at driveways					
rking	3m setback at driveways	<ul><li>Lack of visibility of cyclists at driveways</li><li>Vehicles crossing the centreline when exiting driveways</li></ul>					
Pa	30m setback on intersection approaches	Lack of visibility of cyclists at intersections					
	No individual car parks	Individual car park markings					
S	Consistent cycle markings	<ul><li>Lack of consistency along The Parade</li><li>Lack of visibility of the cycle lanes at intersections</li></ul>					
Road arking	Wider buffer space	<ul><li>The existing buffers are narrower than the minimum recommended width</li><li>Difficulty unloading from parked cars</li></ul>					
E	Wider traffic lanes	<ul><li>Difficulty entering and exiting driveways</li><li>Difficult for buses and heavy vehicles to pass each other</li></ul>					
Bus s	top improvements	<ul> <li>Lack of intervisibility between cyclists and pedestrians at bus stops</li> <li>Lack of consistency</li> <li>Delay at bus stops</li> </ul>					
Raise	d tables	<ul><li>Conflict at intersections</li><li>Lack of visibility of cyclists</li></ul>					
Remo	ve ghost markings	<ul><li>Lack of consistency along The Parade</li><li>Confusing layout</li></ul>					
s.	Cycle lanes	Shared traffic lanes through the town centre					
nes: ne	Bus and bike-friendly road humps	Non-cycle-friendly traffic calming measures for the shared traffic lanes in the town centre					
Busi	Remark transitions from the cycle lanes	<ul> <li>Lack of consistency along The Parade</li> <li>Lack of clarity at transitions to/from the cycle lanes and the business zone</li> </ul>					



Impro	ovement	Issue(s) addressed	Recommended?			
	Vertical posts	Vehicles parked in the buffer zone	×			
	Low mountable separators	<ul><li>Vehicles parked in the buffer zone</li><li>Conflict between cyclists and vehicles turning into/out of driveways</li></ul>	✓			
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Setback to downstream parks (≥ 3m)	E	Wider traffic lanes	<ul><li>Difficulty entering and exiting driveways</li><li>Difficult for buses and heavy vehicles to pass each other</li></ul>	
	Bus ste	op improvements	<ul> <li>Lack of intervisibility between cyclists and pedestrians at bus stops</li> <li>Lack of consistency</li> <li>Delay at bus stops</li> </ul>	
	Raised	tables	<ul><li>Conflict at intersections</li><li>Lack of visibility of cyclists</li></ul>	
C (Optional) space for locating rubbish bins	Remov	e ghost markings	<ul><li>Lack of consistency along The Parade</li><li>Confusing layout</li></ul>	
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#### Short-term safety improvements: recommendation

- 1. Physical separators in the buffer:
  - a. Precast concrete kerb separators
  - b. Low mountable separators across driveways
- 2. Parking (residential area):
  - a. 3m setbacks at driveways
  - b. 30m setbacks on approaches to intersections
  - c. No individual car parks
- 3. Road markings:
  - a. Cycle facilities marked consistently across intersections
  - b. 0.9m buffer
  - c. 3.2m traffic lanes
- 4. Resurfacing
- 5. Town centre:
  - a. Replace the existing road cushions with road humps
  - b. Remark the road markings south of Medway Street



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### Short-term safety improvements: implementation

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Existing	Marked spaces	151			
(residential zone)	Legal spaces (1m setback)	135 - 140			

Parking removal (compared to legal spaces)	Option 1	Options 2 to 4
3m setbacks at driveways and 30m setbacks at intersection approaches	15 –25	40 - 50
Cross-section changes	10 -15	20 –25
Total removed	25 –40	60 –75
Total remaining	95 –115	60 –80



# Long-term upgrades



![](_page_20_Figure_1.jpeg)

![](_page_20_Figure_2.jpeg)

#### Long-term upgrades: short-listed options

![](_page_21_Picture_1.jpeg)

![](_page_21_Figure_2.jpeg)

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Combination	Residential Zone Option	<b>Business Zone Option</b>
1-A	1	А
1-D	1	D
2-A	2	А
2-D	2	D
3-D	3	D
6-1	6	Ι
	Combination 1-A 1-D 2-A 2-D 3-D 6-I	Combination         Residential Zone Option           1-A         1           1-D         1           2-A         2           2-D         2           3-D         3           6-I         6

\*the red dashed lines represent the indicative location of the existing kerbs

#### Long-term upgrades: intersections and bus stops

![](_page_22_Picture_1.jpeg)

#### Textured surfacing

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#### Long-term upgrades: MCA results for the short list

![](_page_23_Picture_1.jpeg)

			\$	0	up to \$6.1 million							\$6.1 million +		
Criteria					Combo 1-D		Combo 2-A		Combo 2-D		Comb	o 3-D	Com	bo 6-1
			Res. 1	Bus. A	Res. 1	Bus. D	Res. 2	Bus. A	Res. 2	Bus. D	Res. 3	Bus. D	Res. 6	Bus. I
		Achieve a high level of service for cyclists within an integrated transport network												
		Improve cycling infrastructure and facilities so that cycling makes a much greater contribution to network efficiency, effectiveness and resilience												
	WCC Cycling	Cycling is a viable and attractive transport choice												
	Investment Objectives	The crash rate, number and severity of crashes involving people on bikes is reduced												
bjectives		Providing transport choices by increasing the opportunity for people to ride bikes so as to improve the sustainability, liveability and attractiveness of Wellington												
0		The Parade is safe for all users												
	Effectiveness meeting	The layout is intuitive and easy to understand												
	Love the Bay	The Parade accommodates all current and future users												
	Objectives	The visual environment is cohesive and clean												
		Central Island Bay is a pleasant and welcoming environment	N/A		N/A		N/A		N/A		N/A		N/A	
	Dedestrian Effects	Pedestrian Safety												
	Pedestrian Effects	Pedestrian Experience												
	Cyclist Effects	Cyclist Safety												
	Cyclist Effects	Cyclist Experience												
	PT Effects	Public Transport Safety												
ects		Public Transport Experience												
Ш	Motor Vehicle Effects	Motor Vehicle Safety												
		Motor Vehicle Experience												
	Parking Effects	Removal of existing parking spaces												
		Effect on access to businesses for pedestrians												
	Property Effects	Effect on access to businesses for cyclists												
		Effect on access to businesses for motor vehicles												
<u>o</u>	Delivery	Disruption during construction												
Intat	Derivery	Integration with Let's Get Wellington Moving												
Impleme	Funding	Indicative cost estimate												

![](_page_24_Picture_1.jpeg)

			\$0		up to \$6.1 million		\$6.1 m	illion +
			Combo 1-A	Combo 1-D	Combo 2-A	Combo 2-D	Combo 3-D	Combo 6-I
Item			Retain short-term safety improvements	Retain short-term safety improvements + cycle lanes through the town centre	Retain short-term safety improvements + intersection/bus stop improvements	Retain short-term safety improvements + intersection/bus stop improvements + cycle lanes through the town centre	Move kerbs (to achieve preferred carriageway and cycle lane widths) + intersection/bus stop improvements + cycle lanes through the town centre	Councillor-approved option (cycle paths), value engineered with parallel parking in the town centre
Effectiveness meeting Love the Bay			<ul> <li>Minor safety improvements at intersections</li> <li>No opportunity to realign the cycle lanes and make the layout</li> </ul>	<ul> <li>Minor safety improvements at intersections</li> <li>No opportunity to realign the cycle lanes and make the layout</li> </ul>	<ul> <li>Substantial safety improvements at intersections in the residential zone only</li> <li>Cycle lanes realigned to make the layout more</li> </ul>	<ul> <li>Substantial safety improvements at intersections</li> <li>Cycle lanes realigned to make the layout more intuitive</li> </ul>	<ul> <li>Substantial safety improvements at intersections</li> <li>Cycle lanes realigned to make the layout more intuitive</li> </ul>	<ul> <li>Substantial safety improvements at intersections</li> <li>Cycle lanes realigned to make the layout more intuitive</li> </ul>
objectives	objectives		<ul> <li>Mo opportunity to improve cohesiveness</li> </ul>	<ul> <li>more intuitive</li> <li>Improved cohesiveness between residential and business zones</li> </ul>	<ul> <li>No opportunity to improve cohesiveness</li> </ul>	• Improved cohesiveness between residential and business zones	• Improved cohesiveness between residential and business zones	• Improved cohesiveness between residential and business zones
			• No upgrades to the town centre layout	• Town centre upgrades	• No upgrades to the town centre layout	• Town centre upgrades	• Town centre upgrades	• Town centre upgrades
Eastrath	i déb a	Residential	2.0 - 3.0  m	2.0 - 3.0  m	2.0 - 3.0  m	2.0 - 3.0  m	2.0 -2.5m	2.0 m
Footpath w	iauns	Business	3.2m / 5.2m	3.2m / 5.9m	3.2m / 5.2m	3.2m / 5.9m	3.2 / 5.9m	3.2 / 6.5m
Cycle feeilit	huvidtha	Residential	1.5 –2.0 m	1.5 - 2.0  m	1.5 –2.0 m	1.5 –2.0 m	2.0m	1.5m
		Business	No cycle facilities	1.5m	No cycle facilities	1.5m	1.5 m	1.2m
Troffic Iono	widtho	Residential	3.2m	3.2m	3.2m	3.2m	3.2m	3.5m with 0.5m median
Tranic lane	widens	Business	3.6m / 3.9m	3.2m	3.6m / 3.9m	3.2m	3.2m	3.2m
Remaining	# of car	Residential	60-80 (43-56% reduction)	60-80 (43-56% reduction)	60-80 (43-56% reduction)	60-80 (43-56% reduction)	85-100 (29-37% reduction)	85-100 (29-37% reduction)
parks		Business	55 (no change)	40-45 (18-27% reduction)	55 (no change)	40-45 (18-27% reduction)	40-45 (18-27% reduction)	40-45 (18-27% reduction)
Indicative	Base cost	*	\$0	\$2.4 to \$3.2 m	\$2.6 to \$3.4 m	\$5.1 to \$6.6 m	\$6.6 to \$8.5 m	\$9.4 to \$12.2 m
cost	Uncertain	ty allowance	\$0	\$0 to \$1.2 m	\$0 to \$1.3 m	-\$0.1 to \$2.5 m	-\$0.1 to \$3.3 m	-\$0.1 to \$4.7 m
estimate	Total cost		\$0	\$2.4 to \$4.4 m	\$2.6 to \$4.7 m	\$5.0 to \$9.1 m	\$6.5 to \$11.8 m	\$9.3 to \$16.9 m

![](_page_25_Picture_1.jpeg)

		\$0		up to \$6.1 million	\$6.1 million +			
			Combo 1-A	Combo 1-D	Combo 2-A	Combo 2-D	Combo 3-D	Combo 6-I
Item			Retain short-term safety improvements	Retain short-term safety improvements <mark>+ cycle lanes through the</mark> town centre	Retain short-term safety improvements <mark>+ intersection/bus stop</mark> improvements	Retain short-term safety improvements + intersection/bus stop improvements + cycle lanes through the town centre	Move kerbs (to achieve preferred carriageway and cycle lane widths) + intersection/bus stop improvements + cycle lanes through the town centre	Councillor-approved option (cycle paths), value engineered with parallel parking in the town centre
Effectiveness meeting Love the Bay objectives		<ul> <li>Minor safety improvements at intersections</li> <li>No opportunity to realign the cycle lanes and make the layout more intuitive</li> <li>No opportunity to improve cohesiveness</li> <li>No upgrades to the town centre layout</li> </ul>	<ul> <li>Minor safety improvements at intersections</li> <li>No opportunity to realign the cycle lanes and make the layout more intuitive</li> <li>Improved cohesiveness between residential and business zones</li> <li>Town centre upgrades</li> </ul>	<ul> <li>Substantial safety improvements at intersections in the residential zone only</li> <li>Cycle lanes realigned to make the layout more intuitive</li> <li>No opportunity to improve cohesiveness</li> <li>No upgrades to the town centre layout</li> </ul>	<ul> <li>Substantial safety improvements at intersections</li> <li>Cycle lanes realigned to make the layout more intuitive</li> <li>Improved cohesiveness between residential and business zones</li> <li>Town centre upgrades</li> <li>Substantial safety improvements at intersections</li> <li>Cycle lanes realigned to make the layout more intuitive</li> <li>Improved cohesiveness between residential and business zones</li> <li>Town centre upgrades</li> </ul>		<ul> <li>Substantial safety improvements at intersections</li> <li>Cycle lanes realigned to make the layout more intuitive</li> <li>Improved cohesiveness between residential and business zones</li> <li>Town centre upgrades</li> </ul>	
Ecotooth w	idthe	Residential	2.0 - 3.0  m	2.0 - 3.0  m	2.0 - 3.0  m	2.0 - 3.0  m	2.0 -2.5 m	2.0m
Footpath		Business	3.2m / 5.2m	3.2m / 5.9m	3.2m / 5.2m	3.2m / 5.9m	3.2 / 5.9m	3.2 / 6.5 m
Cycle feeilit	v widtho	Residential	1.5 –2.0 m	1.5 - 2.0  m	1.5 - 2.0  m	1.5 - 2.0  m	2.0m	1.5 m
	y widths	Business	No cycle facilities	1.5m	No cycle facilities	1.5 m	1.5 m	1.2m
Troffic Iono	widtho	Residential	3.2m	3.2m	3.2m	3.2m	3.2m	3.5m with 0.5m median
	widths	Business	3.6m / 3.9m	3.2m	3.6m / 3.9m	3.2m	3.2m	3.2m
Remaining	# of car	Residential	60-80 (43-56% reduction)	60-80 (43-56% reduction)	60-80 (43-56% reduction)	60-80 (43-56% reduction)	85-100 (29-37% reduction)	85-100 (29-37% reduction)
parks		Business	55 (no change)	40-45 (18-27% reduction)	55 (no change)	40-45 (18-27% reduction)	40-45 (18-27% reduction)	40-45 (18-27% reduction)
Indicative	Base cost	*	\$0	\$2.4 to \$3.2 m	\$2.6 to \$3.4 m	\$5.1 to \$6.6 m	\$6.6 to \$8.5 m	\$9.4 to \$12.2 m
cost	Uncertain	ty allowance	\$0	\$0 to \$1.2 m	\$0 to \$1.3 m	-\$0.1 to \$2.5 m	-\$0.1 to \$3.3 m	-\$0.1 to \$4.7 m
estimate	Total cost		\$0	\$2.4 to \$4.4 m	\$2.6 to \$4.7 m	\$5.0 to \$9.1 m	\$6.5 to \$11.8 m	\$9.3 to \$16.9 m

![](_page_26_Picture_1.jpeg)

Item		\$0	up to \$6.1 million			\$6.1 million +		
		Combo 1-A	Combo 1-D	Combo 2-A	Combo 2-D	Combo 3-D	Combo 6-I	
		Retain short-term safety improvements	Retain short-term safety improvements + cycle lanes through the town centre	Retain short-term safety improvements <mark>+ intersection/bus stop</mark> improvements	Retain short-term safety improvements + intersection/bus stop improvements + cycle lanes through the town centre	Move kerbs (to achieve preferred carriageway and cycle lane widths) + intersection/bus stop improvements + cycle lanes through the town centre	Councillor-approved option (cycle paths), value engineered with parallel parking in the town centre	
Effectiveness meeting Love the Bay objectives		• Minor safety improvements at intersections	• Minor safety improvements at intersections	• Substantial safety improvements at intersections in the	• Substantial safety improvements at intersections	• Substantial safety improvements at intersections	• Substantial safety improvements at intersections	
		• No opportunity to realign the cycle lanes and make the layout	• No opportunity to realign the cycle lanes and make the layout	<ul> <li>Cycle lanes realigned to make the layout more</li> </ul>	• Cycle lanes realigned to make the layout more intuitive	• Cycle lanes realigned to make the layout more intuitive	• Cycle lanes realigned to make the layout more intuitive	
		<ul> <li>No opportunity to improve cohesiveness</li> </ul>	<ul> <li>Improved cohesiveness between residential and</li> </ul>	<ul> <li>No opportunity to improve cohesiveness</li> </ul>	• Improved cohesiveness between residential and business zones	• Improved cohesiveness between residential and business zones	• Improved cohesiveness between residential and business zones	
		• No upgrades to the town centre layout	business zones • Town centre upgrades	• No upgrades to the town centre layout	• Town centre upgrades	• Town centre upgrades	• Town centre upgrades	
Footpathw	idtho	Residential	2.0 - 3.0  m	2.0 - 3.0  m	2.0 - 3.0  m	2.0 - 3.0  m	2.0 -2.5m	2.0 m
Footpath w	launs	Business	3.2m / 5.2m	3.2m / 5.9m	3.2m / 5.2m	3.2m / 5.9m	3.2 / 5.9m	3.2 / 6.5m
Cycle facilit	wwidthe	Residential	1.5 –2.0 m	1.5 - 2.0  m	1.5 –2.0 m	1.5 - 2.0  m	2.0 m	1.5m
	y widtis	Business	No cycle facilities	1.5m	No cycle facilities	1.5m	1.5 m	1.2m
Troffic Jano	widthe	Residential	3.2m	3.2m	3.2m	3.2m	3.2m	3.5m with 0.5m median
		Business	3.6m / 3.9m	3.2m	3.6m / 3.9m	3.2m	3.2m	3.2m
Remaining	# of car	Residential	60-80 (43-56% reduction)	60-80 (43-56% reduction)	60-80 (43-56% reduction)	60-80 (43-56% reduction)	85-100 (29-37% reduction)	85-100 (29-37% reduction)
parks		Business	55 (no change)	40-45 (18-27% reduction)	55 (no change)	40-45 (18-27% reduction)	40-45 (18-27% reduction)	40-45 (18-27% reduction)
Indicative cost estimate	Base cost*		\$0	\$2.4 to \$3.2 m	\$2.6 to \$3.4 m	\$5.1 to \$6.6 m	\$6.6 to \$8.5 m	\$9.4 to \$12.2 m
	Uncertainty allowance		\$0	\$0 to \$1.2 m	\$0 to \$1.3 m	-\$0.1 to \$2.5 m	-\$0.1 to \$3.3 m	-\$0.1 to \$4.7 m
	Total cost		<b>\$</b> 0	\$2.4 to \$4.4 m	\$2.6 to \$4.7 m	\$5.0 to \$9.1 m	\$6.5 to \$11.8 m	\$9.3 to \$16.9 m

![](_page_27_Picture_1.jpeg)

Item		\$0	up to \$6.1 million			\$6.1 million +		
		Combo 1-A	Combo 1-D	Combo 2-A	Combo 2-D	Combo 3-D	Combo 6-I	
		Retain short-term safety improvements	Retain short-term safety improvements <mark>+ cycle lanes through the</mark> town centre	Retain short-term safety improvements + intersection/bus stop improvements	Retain short-term safety improvements + intersection/bus stop improvements + cycle lanes through the town centre	Move kerbs (to achieve preferred carriageway and cycle lane widths) + intersection/bus stop improvements + cycle lanes through the town centre	Councillor-approved option (cycle paths), value engineered with parallel parking in the town centre	
Effectiveness meeting Love the Bay objectives		<ul> <li>Minor safety improvements at intersections</li> </ul>	• Minor safety improvements at intersections	• Substantial safety improvements at intersections in the	• Substantial safety improvements at intersections	<ul> <li>Substantial safety improvements at intersections</li> </ul>	• Substantial safety improvements at intersections	
		• No opportunity to realign the cycle lanes and make the layout	• No opportunity to realign the cycle lanes and make the layout	<ul> <li>residential zone only</li> <li>Cycle lanes realigned to make the layout more</li> </ul>	• Cycle lanes realigned to make the layout more intuitive	• Cycle lanes realigned to make the layout more intuitive	• Cycle lanes realigned to make the layout more intuitive	
		<ul> <li>No opportunity to improve cohesiveness</li> </ul>	<ul> <li>Improved cohesiveness between residential and</li> </ul>	<ul> <li>No opportunity to improve cohesiveness</li> </ul>	• Improved cohesiveness between residential and business zones	• Improved cohesiveness between residential and business zones	• Improved cohesiveness between residential and business zones	
		<ul> <li>No upgrades to the town centre layout</li> </ul>	<ul> <li>business zones</li> <li>Town centre upgrades</li> </ul>	• No upgrades to the town centre layout	• Town centre upgrades	• Town centre upgrades	• Town centre upgrades	
Eastnath w	idtho	Residential	2.0 - 3.0 m	2.0 - 3.0  m	2.0 - 3.0  m	2.0 - 3.0  m	2.0 - 2.5 m	2.0m
Footpath w		Business	3.2m / 5.2m	3.2m / 5.9m	3.2m / 5.2m	3.2m / 5.9m	3.2 / 5.9m	3.2 / 6.5m
Cycle feeilit	widthe	Residential	1.5 –2.0 m	1.5 - 2.0  m	1.5 –2.0 m	1.5 - 2.0  m	2.0 m	1.5m
	y widths	Business	No cycle facilities	1.5m	No cycle facilities	1.5 m	1.5 m	1.2m
Traffic Jane	widthe	Residential	3.2m	3.2m	3.2m	3.2m	3.2m	3.5m with 0.5m median
		Business	3.6m / 3.9m	3.2m	3.6m / 3.9m	3.2m	3.2m	3.2m
Remaining	# of car	Residential	60-80 (43-56% reduction)	60-80 (43-56% reduction)	60-80 (43-56% reduction)	60-80 (43-56% reduction)	85-100 (29-37% reduction)	85-100 (29-37% reduction)
parks		Business	55 (no change)	40-45 (18-27% reduction)	55 (no change)	40-45 (18-27% reduction)	40-45 (18-27% reduction)	40-45 (18-27% reduction)
Indicative cost estimate	e Base cost*		\$0	\$2.4 to \$3.2 m	\$2.6 to \$3.4 m	\$5.1 to \$6.6 m	\$6.6 to \$8.5 m	\$9.4 to \$12.2 m
	Uncertainty allowance		\$0	\$0 to \$1.2 m	\$0 to \$1.3 m	-\$0.1 to \$2.5 m	-\$0.1 to \$3.3 m	-\$0.1 to \$4.7 m
	Total cost		\$0	\$2.4 to \$4.4 m	\$2.6 to \$4.7 m	\$5.0 to \$9.1 m	\$6.5 to \$11.8 m	\$9.3 to \$16.9 m

![](_page_28_Picture_1.jpeg)

Item		\$0	up to \$6.1 million			\$6.1 million +		
		Combo 1-A	Combo 1-D	Combo 2-A	Combo 2-D	Combo 3-D	Combo 6-I	
		Retain short-term safety improvements	Retain short-term safety improvements <mark>+ cycle lanes through the</mark> town centre	Retain short-term safety improvements <mark>+ intersection/bus stop</mark> improvements	Retain short-term safety improvements + intersection/bus stop improvements + cycle lanes through the town centre	Move kerbs (to achieve preferred carriageway and cycle lane widths) + intersection/bus stop improvements + cycle lanes through the town centre	Councillor-approved option (cycle paths), value engineered with parallel parking in the town centre	
Effectiveness meeting Love the Bay objectives		• Minor safety improvements at intersections	• Minor safety improvements at intersections	• Substantial safety improvements at intersections in the	<ul> <li>Substantial safety improvements at intersections</li> </ul>	<ul> <li>Substantial safety improvements at intersections</li> </ul>	• Substantial safety improvements at intersections	
		• No opportunity to realign the cycle lanes and make the layout	• No opportunity to realign the cycle lanes and make the layout	<ul><li>residential zone only</li><li>Cycle lanes realigned to make the layout more</li></ul>	• Cycle lanes realigned to make the layout more intuitive	• Cycle lanes realigned to make the layout more intuitive	• Cycle lanes realigned to make the layout more intuitive	
		<ul> <li>Mo opportunity to improve cohesiveness</li> </ul>	<ul> <li>Improved cohesiveness between residential and</li> </ul>	<ul> <li>No opportunity to improve cohesiveness</li> </ul>	• Improved cohesiveness between residential and business zones	• Improved cohesiveness between residential and business zones	• Improved cohesiveness between residential and business zones	
		• No upgrades to the town centre layout	business zones • Town centre upgrades	• No upgrades to the town centre layout	• Town centre upgrades	• Town centre upgrades	• Town centre upgrades	
Eastnath w	idtho	Residential	2.0 - 3.0  m	2.0 - 3.0  m	2.0 - 3.0  m	2.0 - 3.0  m	$2.0 - 2.5 \mathrm{m}$	2.0 m
Footpath w	latins	Business	3.2m / 5.2m	3.2m / 5.9m	3.2m / 5.2m	3.2m / 5.9m	3.2 / 5.9m	3.2 / 6.5m
Cuolo fooilit	widtho	Residential	1.5 –2.0 m	1.5 - 2.0  m	1.5 –2.0 m	1.5 –2.0 m	2.0m	1.5m
	y widths	Business	No cycle facilities	1.5m	No cycle facilities	1.5m	1.5 m	1.2m
Troffic Jono	widthe	Residential	3.2m	3.2m	3.2m	3.2m	3.2m	3.5m with 0.5m median
Traffic lane widths		Business	3.6m / 3.9m	3.2m	3.6m / 3.9m	3.2m	3.2m	3.2m
Remaining	# of car	Residential	60-80 (43-56% reduction)	60-80 (43-56% reduction)	60-80 (43-56% reduction)	60-80 (43-56% reduction)	85-100 (29-37% reduction)	85-100 (29-37% reduction)
parks		Business	55 (no change)	40-45 (18-27% reduction)	55 (no change)	40-45 (18-27% reduction)	40-45 (18-27% reduction)	40-45 (18-27% reduction)
Indicative	Base cost*		\$0	\$2.4 to \$3.2 m	\$2.6 to \$3.4 m	\$5.1 to \$6.6 m	\$6.6 to \$8.5 m	\$9.4 to \$12.2 m
cost estimate	Uncertainty allowance		\$0	\$0 to \$1.2 m	\$0 to \$1.3 m	-\$0.1 to \$2.5 m	-\$0.1 to \$3.3 m	-\$0.1 to \$4.7 m
	Total cost		<b>\$</b> 0	\$2.4 to \$4.4 m	\$2.6 to \$4.7 m	\$5.0 to \$9.1 m	\$6.5 to \$11.8 m	\$9.3 to \$16.9 m

![](_page_29_Picture_1.jpeg)

Item		\$0	up to \$6.1 million			\$6.1 million +		
		Combo 1-A	Combo 1-D	Combo 2-A	Combo 2-D	Combo 3-D	Combo 6-I	
		Retain short-term safety improvements	Retain short-term safety improvements <mark>+ cycle lanes through the</mark> town centre	Retain short-term safety improvements <mark>+ intersection/bus stop</mark> improvements	Retain short-term safety improvements + intersection/bus stop improvements + cycle lanes through the town centre	Move kerbs (to achieve preferred carriageway and cycle lane widths) + intersection/bus stop improvements + cycle lanes through the town centre	Councillor-approved option (cycle paths), value engineered with parallel parking in the town centre	
Effectiveness meeting Love the Bay objectives		• Minor safety improvements at intersections	• Minor safety improvements at intersections	• Substantial safety improvements at intersections in the	• Substantial safety improvements at intersections	• Substantial safety improvements at intersections	• Substantial safety improvements at intersections	
		• No opportunity to realign the cycle lanes and make the layout	• No opportunity to realign the cycle lanes and make the layout	<ul> <li>residential zone only</li> <li>Cycle lanes realigned to make the layout more</li> </ul>	• Cycle lanes realigned to make the layout more intuitive	• Cycle lanes realigned to make the layout more intuitive	• Cycle lanes realigned to make the layout more intuitive	
		<ul> <li>No opportunity to improve cohesiveness</li> </ul>	<ul> <li>Improved cohesiveness between residential and</li> </ul>	<ul> <li>No opportunity to improve cohesiveness</li> </ul>	• Improved cohesiveness between residential and business zones	• Improved cohesiveness between residential and business zones	• Improved cohesiveness between residential and business zones	
		• No upgrades to the town centre layout	<ul> <li>business zones</li> <li>Town centre upgrades</li> </ul>	• No upgrades to the town centre layout	• Town centre upgrades	• Town centre upgrades	• Town centre upgrades	
Eastnoth w			$2.0 - 3.0 \mathrm{m}$	2.0 - 3.0  m	$2.0 - 3.0 \mathrm{m}$	2.0 - 3.0  m	2.0 –2.5m	2.0m
Foolpain w	latins	Business	3.2m / 5.2m	3.2m / 5.9m	3.2m / 5.2m	3.2m / 5.9m	3.2 / 5.9m	3.2 / 6.5m
Cuelo focili	huvidtho	Residential	1.5 –2.0 m	1.5 - 2.0  m	1.5 –2.0 m	1.5 –2.0 m	2.0m	1.5 m
		Business	No cycle facilities	1.5m	No cycle facilities	1.5m	1.5 m	1.2m
Troffic long	widthe	Residential	3.2m	3.2m	3.2m	3.2m	3.2m	3.5m with 0.5m median
Traffic lane widths		Business	3.6m / 3.9m	3.2m	3.6m / 3.9m	3.2m	3.2m	3.2m
Remaining	# of car	Residential	60-80 (43-56% reduction)	60-80 (43-56% reduction)	60-80 (43-56% reduction)	60-80 (43-56% reduction)	85-100 (29-37% reduction)	85-100 (29-37% reduction)
parks		Business	55 (no change)	40-45 (18-27% reduction)	55 (no change)	40-45 (18-27% reduction)	40-45 (18-27% reduction)	40-45 (18-27% reduction)
Indicative cost estimate	ve Base cost*		\$0	\$2.4 to \$3.2 m	\$2.6 to \$3.4 m	\$5.1 to \$6.6 m	\$6.6 to \$8.5 m	\$9.4 to \$12.2 m
	Uncertainty allowance		\$0	\$0 to \$1.2 m	\$0 to \$1.3 m	-\$0.1 to \$2.5 m	-\$0.1 to \$3.3 m	-\$0.1 to \$4.7 m
	<b>P</b> Total cost		<b>\$</b> 0	\$2.4 to \$4.4 m	\$2.6 to \$4.7 m	\$5.0 to \$9.1 m	\$6.5 to \$11.8 m	\$9.3 to \$16.9 m

![](_page_30_Picture_0.jpeg)