

PEDESTRIAN AND GENERAL SAFETY

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Methodology

- Historic crash data along the Golden Mile
 - *Crash type*
 - *Crash Cause*
 - *User*
 - *Vehicle*
- Route Knowledge and Focus Areas
 - *2010 Golden Mile Bus Route Changes (and subsequent safety studies)*
 - *WCC Institutional Knowledge*
 - *Focus area – Manners Street, Willis Street to Victoria Street*
 - *'Jaywalking'*

Methodology

- Prediction Models
 - *Relevance*
- Used historic crash data to extrapolate expected crash profiles
- Considered users – pedestrians, cyclists, buses & ‘other’
- Compared proposed changes to current environment & crash history
- Used experienced practitioner judgement

Key assumptions

- Future crashes will follow the same pattern as historic crashes.

Evaluation outcomes

OPTION 1 - REDUCED TRAFFIC

Section	Pedestrian Safety		General Safety	
	Score	Key Benefits/Disbenefits	Score	Key Benefits/Disbenefits
Courtenay Place	1	<ul style="list-style-type: none"> • RT conflicts removed (Blair, Allen, Tory) • Removal of Parking / Loading • Traffic / Crash Migration • Additional Bus Stops = greater crossing desire • Conflict with service vehicle access • Increase bus volumes / reduced crossing opportunities • No PMV reduction • Multiple lanes of traffic vs impaired pedestrians 	1	<ul style="list-style-type: none"> • RT conflicts removed (Blair, Allen, Tory) • Removal of Parking / Loading • Traffic / Crash Migration • High bus v LMV crash rate unchanged
Manners Street	1	<ul style="list-style-type: none"> • Manners / Cuba Intersection closed to vehicles • Closed to general traffic • Conflict with service vehicle access • Traffic / Crash Migration 	1	<ul style="list-style-type: none"> • Remove LMV v bus crashes • Traffic / Crash Migration

Evaluation outcomes

OPTION 1 - REDUCED TRAFFIC

Section	Pedestrian Safety		General Safety	
	Score	Key Benefits/Disbenefits	Score	Key Benefits/Disbenefits
Willis Street	1	<ul style="list-style-type: none"> • Increase bus volumes / reduced crossing opportunities • Side road closed to vehicles • No PMV reduction 	1	<ul style="list-style-type: none"> • RT conflicts removed (Mercer) • No crash reduction due to retention of NB PMV
Lambton Quay	1	<ul style="list-style-type: none"> • Reduced PMV southbound • Removal of Parking / Loading • Northbound PMV remain 	1	<ul style="list-style-type: none"> • Removal of Parking / Loading • Northbound PMV remain • Increased traffic vols turning into uncontrolled side roads

Evaluation outcomes

OPTION 2 – BUS EMPHASIS

Section	Pedestrian Safety		General Safety	
	Score	Key Benefits/Disbenefits	Score	Key Benefits/Disbenefits
Courtenay Place	-1	<ul style="list-style-type: none"> • PMV removal • RT conflicts removed (Blair, Allen, Tory) • Removal of Parking / Loading • Traffic / Crash Migration • Conflict with service vehicle access • Increase bus volumes / reduced crossing opportunities • Multiple lanes of traffic vs impaired pedestrians • Increase bus volumes 	0	<ul style="list-style-type: none"> • High bus v LMV crashes removed • RT conflicts removed (Blair, Allen, Tory) • Removal of Parking / Loading • Traffic / Crash Migration • Cyclists mixing with two lanes of buses
Manners Street	1	<ul style="list-style-type: none"> • Manners / Cuba Intersection closed to vehicles • Closed to general traffic • Conflict with service vehicle access • Traffic / Crash Migration 	1	<ul style="list-style-type: none"> • Removes LMV v bus crashes • Traffic / Crash Migration • Merge conflicts -Courtenay into Manners (two lanes into one)

Evaluation outcomes

OPTION 2 – BUS EMPHASIS

Section	Pedestrian Safety		General Safety	
	Score	Key Benefits/Disbenefits	Score	Key Benefits/Disbenefits
Willis Street	1	<ul style="list-style-type: none"> • PMV Removed • Increase bus volumes / reduced crossing opportunities • Side road closed to vehicles • Multiple bus lanes vs peds 	1	<ul style="list-style-type: none"> • PMV related crashes removed • RT conflicts removed (Mercer)
Lambton Quay	0	<ul style="list-style-type: none"> • PMV Removed • Removal of Parking / Loading • Side roads closed to vehicles • Dual bus lanes vs peds crossing 	1	<ul style="list-style-type: none"> • PMV Removed • Removal of Parking / Loading • Side roads closed to vehicles • Cyclists mixing with two lanes of buses

Evaluation outcomes

OPTION 3 – BUS & PEDESTRIAN EMPHASIS

Section	Pedestrian Safety		General Safety	
	Score	Key Benefits/Disbenefits	Score	Key Benefits/Disbenefits
Courtenay Place	2	<ul style="list-style-type: none"> • PMV removal • Vehicle conflicts removed (Blair, Allen, Tory) • Removal of Parking / Loading • Wider Footpaths • Traffic / Crash Migration • Conflict with service vehicle access 	2	<ul style="list-style-type: none"> • High bus v LMV crashes removed • Intersection conflicts removed (Blair, Allen, Tory) • Removal of Parking / Loading • Cycle lane/path opportunities • Traffic / Crash Migration
Manners Street	1	<ul style="list-style-type: none"> • Manners / Cuba Intersection closed to vehicles • Closed to general traffic • Conflict with service vehicle access • Traffic / Crash Migration 	1	<ul style="list-style-type: none"> • Remove LMV v bus crashes • Cycle lane/path opportunities • Traffic / Crash Migration

Evaluation outcomes

OPTION 3 – BUS & PEDESTRIAN EMPHASIS

Section	Pedestrian Safety		General Safety	
	Score	Key Benefits/Disbenefits	Score	Key Benefits/Disbenefits
Willis Street	1	<ul style="list-style-type: none"> • PMV Removed • Side road closed to vehicles 	1	<ul style="list-style-type: none"> • PMV related crashes removed • Cycle lane/path opportunities • RT conflicts removed (Mercer)
Lambton Quay	2	<ul style="list-style-type: none"> • PMV Removed • Removal of Parking / Loading • Wider Footpaths • Side roads closed to vehicles • Reduced ped crossings 	2	<ul style="list-style-type: none"> • PMV Removed • Removal of Parking / Loading • Cycle lane/path opportunities • Side roads closed to vehicles

Summary

Road	Pedestrians	Overall
Courtenay Place option 1	1	1
Courtenay Place option 2	-1	0
Courtenay Place option 3	2	2
Manners Street		
Manners Street option 1	1	1
Manners Street option 2	1	1
Manners Street option 3	1	1
Willis Street		
Willis Street option 1	1	1
Willis Street option 2	1	1
Willis Street option 3	1	1
Lambton Quay		
Lambton Quay option 1	1	1
Lambton Quay option 2	0	1
Lambton Quay option 3	2	2

Comments

OPTION	OVERALL
Option 1	1
Option 2	2
Option 3	3

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MOVING

