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	Criteria for protected right turn	Criteria met?			Opt 1 am	Opt 2	Opt 3	Opt					
	More than five injury right turn against crashes at the approach of interest in the last five years.	Х		The average intersection delay remains within 20% of the existing average intersection delay.	X	X	X	1					
Safety	More than fifteen reported non-injury crashes at the approach of interest in the last five years.	X	ficiency	The average intersection delay is not greater than 55 seconds per person.	V	$\checkmark$	4	V					
	Inadequate visibility (taking into account horizontal and vertical alignment) and approaching through	x	Am Efi	The capacity of the intersection is not reduced helow -5%	N	V	V	V					
	traffic hidden from view by queued right turning traffic.			Bus priority is achieved.	V	√	1	$\checkmark$					
	More than two through lanes opposing the right turn.	Х			Opt 1 pm	Opt 2 pm	Opt pr	Opt pm					
	Two or more right turn lanes.	Х		The average intersection delay remains within 20% of the existing average intersection delay.	1	1	$\checkmark$	V					
	Two or more opposing left turn lanes.	Х	ciency	The average intersection delay is not greater than 55 seconds per person.	V	$\checkmark$	$\checkmark$	$\checkmark$					
	The 85 <sup>th</sup> percentile operating speed of the opposing traffic is greater than 70 km/h.	Х	m Effi	The capacity of the intersection is not reduced below -5%.	V	V	V	V					
	The right turn flew is more than 120 vehicles per hour and is opposed by more than: <ul> <li>900 vehicles per hour when there is one opposing traffic larre; or</li> <li>700 vehicles per hour in any one lane when there are two or more opposing traffic larres.</li> </ul>	X	(	Bus priority is achieved Conclusions:									
	A need to protect pedestrians on a pecestrian crossing phase, identified by:     o Three pedestrian crashes on the departure crosswalk of the right turn movement of intoreet in the lact two years; or     A high proportion of vulnerable pedestrians using the crosswalk.	Х	western Memorial Ave approach, then filtering on both approaches										
			ا لـ ج	provides bus priority for ervice	or th	ie b	us						



















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Intersection Name	leg	LB Injuries	LB NI	Total Ped	TotalCrashes	Combined EEM Cost	Combine d EEM Rank	Total Points	Total Points Rank	>5 injury crashes	>15 NI crashes	> 3 ped crashes
Manchester/Moorhouse/Pilgrim	Е	10	9	0	19	\$ 229,800	27	58	1	$\checkmark$	Х	Х
Main North/Northcote/Queen Elizabeth II	Е	3	11	0	14	\$ 411,200	9	36	2	Х	Х	Х
Bealey/Manchester	w	2	14	0	16	\$ 72,800	35	36	2	Х	Х	Х
Gloucester/Latimer East/Madras	Е	6	5	0	11	\$ 137,000	28	34	3	$\checkmark$	Х	Х
Johns/Main North	Ν	6	3	0	9	\$ 456,600	7	32	4	$\checkmark$	Х	Х
Brougham/Waltham	Ν	5	1	1	7	\$ 776,200	2	31	5	Х	Х	Х
Fitzgerald/Gloucester	s	2	7	1	10	402,400	11	29	6	Х	Х	Х
Dyers/Linwood	w	3	6	0	9	\$ 400,200	12	26	7	Х	Х	Х
Clarence/Riccarton/Straven	s	5	3	0	8	\$ 111,600	29	26	7	$\checkmark$	Х	Х
Antigua/Tuam	s	2	2	2	6	\$ 73,400		16	7	Х	Х	Х









	lest ca	as	se	2	- outcomes					
	Criteria for protected right turn	с	riteria n	net?	]					
	More than five injury right turn against crashes at the approach of interest in the last five years.		No							
	More than fifteen reported non-injury crashes at the approach of interest in the last five years.	No								
	Inadequate visibility (taking into account horizontal and vertical alignment) and approaching through traffic hidden from view by queued right turning traffic.		No							
	More than two through lanes opposing the right turn.		No		Conclusion:					
	Two or more right turn lanes.		No							
	Two or more opposing left turn lanes.		No							
ery	The 85 <sup>th</sup> percentile operating speed of the opposing traffic is greater than 70 km/h.	No No No			No significant safety problem associated with turning movements issues, no options modeled improved efficiency of the					
LIBO	The right turn flow is more than 120 vehicles per hour and is opposed by more than: o 900 vehicles per hour when there is one opposing traffic lane; or o 700 vehicles per hour in any one lane when there are two or more opposing traffic lanes.									
	A need to protect pedestrians on a pedestrian crossing phase, identified by:				intersection.					
	<ul> <li>Three pedestrian crashes on the departure crosswalk of the right turn movement of interest in the last five years; or</li> </ul>									
	<ul> <li>A high proportion of vulnerable pedestrians using the crosswalk.</li> </ul>		-							
		Opt 1 am	Opt 1 pm	Opt 2 pm						
	The average intersection delay remains within 20% of the existing average intersection delay.	Yes	No	No						
	The average intersection delay is not greater than 55 seconds per person.	No	No	No						
	The capacity of the Intersection is not reduced below -5%.	No	No	No						
	Bus priority is achieved.	n/a	n/a	n/a	1					