

## Item 4.5 - Traffic - 20/03/20

N O R T H   S Y D N E Y   C O U N C I L

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**To the General Manager**

**Attach**

1. North Sydney Pedestrian Crossing list

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**SUBJECT:** (4.05) Pedestrian Crossing Audit

**AUTHOR:** Report of Traffic & Transport Engineer, Iman Mohammadi

**DESCRIPTION/SUBJECT MATTER:**

The Traffic Committee at its 529<sup>th</sup> meeting held on 22 November 2019, recommended and Council subsequently resolved (24/2/20 - Item 01 – Min. 17):

*“THAT a report be submitted to the Traffic Committee on pedestrian crossings that are at street level, highlight within the report ones that are near schools, sporting fields and other key land uses, and any funding available to upgrade the crossings to raised crossings, and how quickly this can be done.”*

**RECOMMENDATION:**

- 1. THAT** each of the existing flush pedestrian crossings in the priority list attached to this report be added to the LATM Action Plans to upgrade to raised pedestrian crossings and three crossings per year be funded from the annual Traffic Facilities Program for upgrade.
- 2. THAT** should the nomination for the Kurraba Road at Thrupp Street (Ben Boyd Road to Kurraba Road) pedestrian crossing upgrade be unsuccessful in the 2020/21 Blackspot Program, that Council resubmit a nomination in the 2021/22 Blackspot Program.
- 3. THAT** Council nominate the upgrades of flush pedestrian crossings under eligible grant programs as appropriate.
- 4. THAT** an audit be undertaken at all existing raised pedestrian crossings to determine if upgrades are required and the estimated cost of those upgrades, and a report be provided to the Traffic Committee within the next 12 months.

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## CONSULTATION REQUIREMENTS

Consultation will be undertaken in accordance with Council's Community Engagement Protocol

**Relates to ECM No:** N/A

**Standard or Guideline Used:** AS1742.10; RMS Supplement to Austroads Guide Traffic Management Part 10 - 15 Feb 2017

**Signs & Lines Priority:** 2

**Precinct and Ward:** Across LGA

**Impact on Bicycles:** Nil

**Impact on Pedestrians:** Pedestrian Safety improvement

**Impact on Parking:** upgrading the existing pedestrian crossing to comply with the Australian Standard may result in loss of parking around pedestrian crossings.

## DETAIL

At the 529<sup>th</sup> Traffic Committee meeting held on 22 November 2019; it was resolved:

*“THAT a report be submitted to the Traffic Committee on pedestrian crossings that are at street level, highlight within the report ones that are near schools, sporting fields and other key land uses, and any funding available to upgrade the crossings to raised crossings, and how quickly this can be done.”*

The aim of this report is to identify the existing pedestrian crossings (both flush and raised) across the North Sydney LGA to raise the flush crossings and improve the existing raised crossings to comply with Australian Standard.

There are currently 46 raised and 31 flush pedestrian crossings across the North Sydney LGA. These crossings were identified and plotted on the map in Figure 1.

The following criteria and scoring were applied in order to prioritise the upgrade of all flush pedestrian crossings to raised crossings:

- Pedestrian Crashes at the existing crossings between 2014-2019 (score of 10).
- Locality of pedestrian crossings and key land uses, High Pedestrian Activity Areas (HPAA), within 200m radius of early education/primary schools, parks (score of 8).
- Within 200m radius of high schools and retirement villages (score of 7).
- TAFE, universities and shopping centers (Scoring of 5).
- Estimated cost of implementation (10 if the cost is less than \$50k, 5 if the cost is between \$50k and \$100K and 2 if the cost is greater than \$100k).

The total cost to upgrade all existing flush crossings to raised crossings is estimated to be in the order of \$2,180,000, at an average of \$70,000 per crossing.

Traffic Facilities projects are planned on an annual basis according to the priorities within the LATM Action Plans and the projects within the 2019/20 Traffic Facilities Program have been set. The 2020/21 Traffic Facilities Program has a budget of \$1,000,000.

Implementation of the upgrades to the flush pedestrian crossings to raised crossings is subject to availability of funding, obtaining necessary approvals from the Traffic Committee and TfNSW, and community engagement outcomes.

**Note:** after further investigations, including site visits, the priority may change due to different factors such as different treatment, lighting upgrades, estimated cost etc.

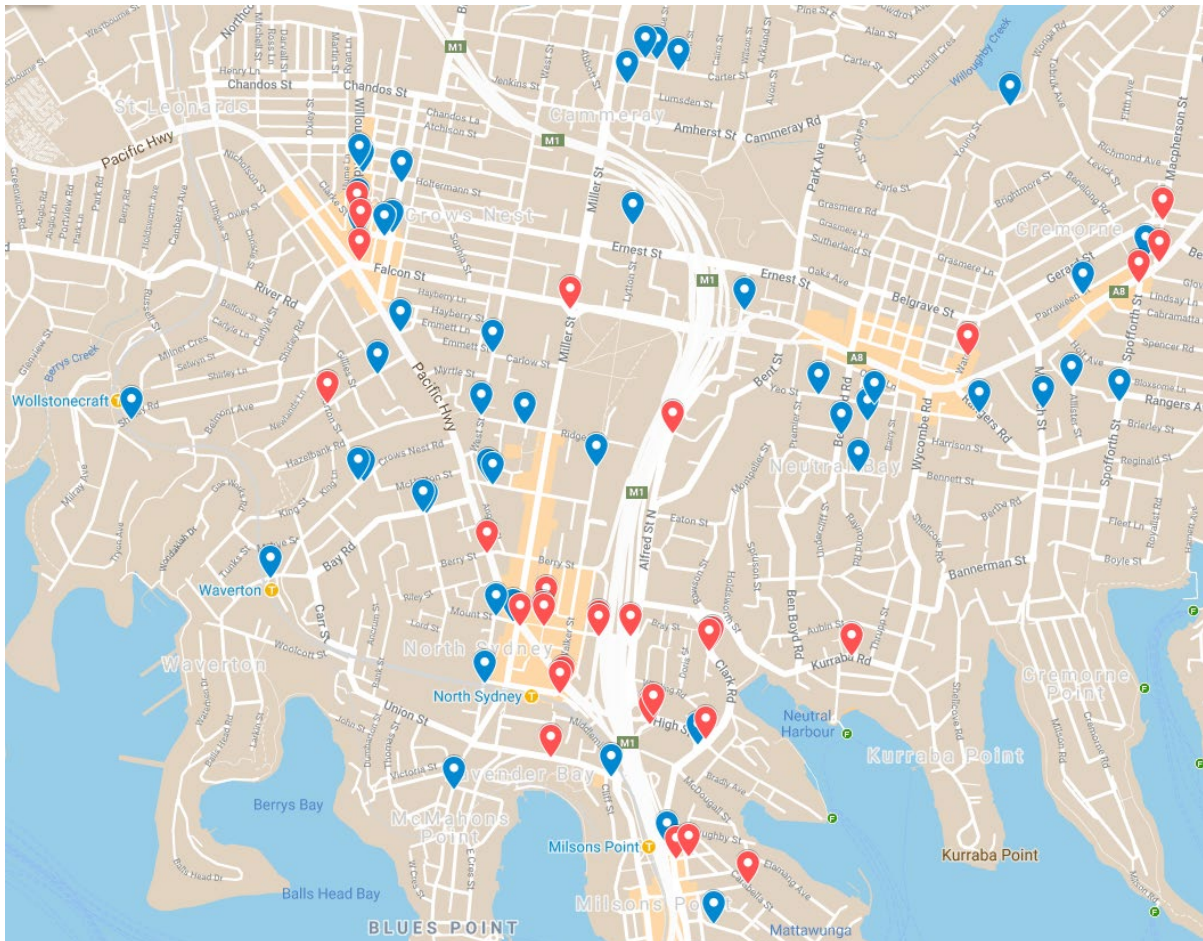




Figure 1: Existing Pedestrian Crossings across the North Sydney LGA

<u>LEGEND</u>	
Existing Raised Crossings	
Existing Flush Crossings	

### Community Engagement

Community consultation will be undertaken in accordance with Council’s Community Engagement Strategy for each crossing location, depending on the level of impact of the work required.

Additionally, modifications to the existing pedestrian crossings may require consultations/approvals from external organisations such as Transport for NSW (TfNSW).

No.	Street Name	From	To	Suburb	Raised	Score	Pedestrian Crashes (2014-2019)	HPAA	Near Early Education / Primary School (200m radius)	Parks	Near High School (200m radius)	Retirement Village/ Aged Care/ Hospital	Shopping	TAFE / University	Estimated Cost (\$)	Cost Scoring	Comments
1	KURRABA RD	Ben Boyd Rd	Wycombe Rd	Neutral Bay	N	55	5	0	0	0	0	0	0	0	\$150,000	5	2020-2021 Black Spot Submission
2	LAVENDER ST	At	Walker St	Lavender Bay	N	31	1	0	1	1	0	0	0	0	\$120,000	5	2020-2021 Black Spot Submission
3	HIGH ST	Clark Rd	Alfred St North	North Sydney	N	27	1	0	0	1	0	1	0	0	\$80,000	2	LATM 6 - T.42
4	SPOFFORTH ST (NB)	At	Military Rd	Cremorne	N	25	1	1	0	0	0	0	1	0	\$80,000	2	
5	MILLER ST	At	Falcon St	North Sydney	N	25	0	0	1	1	1	0	0	0	\$80,000	2	
6	CARABELLA ST	At	Fitzroy St	Kirribilli	N	25	0	0	1	0	1	0	0	0	\$50,000	10	LATM 7 - T.21
7	MORTON ST	At	Rocklands Rd	Wollstonecraft	N	25	0	1	0	0	0	1	0	0	\$50,000	10	LATM 1 - T.9
8	CLARKE ST	At	Willoughby Rd	Crows Nest	N	23	0	1	1	0	0	0	1	0	\$80,000	2	
9	BURTON ST	At	Broughton St	Kirribilli	N	23	0	1	1	0	0	0	1	0	\$80,000	2	
10	BURTON ST	At	Humphrey Pl	Kirribilli	N	23	0	1	1	0	0	0	1	0	\$80,000	2	
11	BERRY ST	Pacific Hwy	Edward St	North Sydney	N	23	0	1	0	0	0	0	0	1	\$50,000	10	LATM 1 - T.122
12	BLUE ST	At	Pacific Hwy	North Sydney	N	23	0	1	0	0	0	0	1	0	\$30,000	10	
13	BLUE ST	At	Pacific Hwy	North Sydney	N	23	0	1	0	0	0	0	1	0	\$30,000	10	
14	Denison St	Spring St	Berry St	North Sydney	N	23	0	1	0	0	0	0	1	0		10	Existing Shared Zone
15	Denison St	Mount St	Denison St	North Sydney	N	23	0	1	0	0	0	0	1	0		10	Existing Shared Zone
16	MILLER ST	At	Pacific Hwy	North Sydney	N	23	0	1	0	0	0	0	1	0	\$50,000	10	LATM 2 - T.117
17	WATERS RD	At	Belgrave St	Neutral Bay	N	22	0	0	1	0	1	0	1	0	\$60,000	2	LATM 5 - T.92
18	GERARD ST	At	Macpherson St	Cremorne	N	18	0	1	0	0	0	0	1	0	\$200,000	5	LATM 5 - T.28
19	HIGH ST	Clark Rd	Alfred St North	North Sydney	N	17	0	0	0	1	0	1	0	0	\$80,000	2	LATM 6 - T.42
20	HIGH ST	Clark Rd	Alfred St North	North Sydney	N	17	0	0	0	1	0	1	0	0	\$80,000	2	LATM 6 - T.42
21	CLARK RD	At	High St	North Sydney	N	17	0	0	0	0	0	1	0	0	\$30,000	10	
22	MACPHERSON ST (NB)	At	Military Rd	Cremorne	N	15	0	1	0	0	0	0	1	0	\$80,000	2	LATM 5 - T.53
23	BURLINGTON ST	Alexander St	Willoughby Rd	Crows Nest	N	15	0	1	0	0	0	0	1	0	\$80,000	2	
24	WILLOUGHBY RD	At	Pacific Hwy	Crows Nest	N	15	0	1	0	0	0	0	1	0	\$80,000	2	
25	MOUNT ST	Denison St	Mount St	North Sydney	N	15	0	1	0	0	0	0	1	0	\$80,000	2	
26	MOUNT ST	Walker St	Arthur St	North Sydney	N	15	0	1	0	0	0	0	1	0	\$80,000	2	
27	MOUNT ST	Walker St	Arthur St	North Sydney	N	15	0	1	0	0	0	0	1	0	\$80,000	2	
28	CLARK RD	At	Anderson Park	North Sydney	N	10	0	0	0	1	0	0	0	0	\$80,000	2	LATM 6 - T.24
29	CLARK RD	At	Anderson Park	North Sydney	N	10	0	0	0	1	0	0	0	0	\$80,000	2	LATM 6 - T.24
30	ALFRED ST NORTH(NB)	Kurraba Rd	Winter Ave	Neutral Bay	N	10	0	0	0	0	0	0	0	0		10	Under Design and construction
31	ALFRED ST NORTH(SB)	Kurraba Rd	Mount St	North Sydney	N	2	0	0	0	0	0	0	0	0	\$80,000	2	
<b>Total Estimated Cost \$2,180,000</b>																	
<b>Avg Cost per Site \$70,323</b>																	

No.	Street Name	From	To	Suburb	Raised	Score	Pedestrian Crashes (2014-2019)	HPAA	Near Early Education / Primary School (200m radius)	Parks	Near High School (200m radius)	Retirement Village/ Aged Care/ Hospital	Shopping	TAFE / University	Estimated Cost (\$)	Cost Scoring	Comments
1	BAY RD	At	Waverton Train Station	Waverton	Y	41	1	1	0	1	0	0	1	0	\$10,000	10	LATM 1 - T.97
2	LAVENDER ST	At	Cliff St	Lavender Bay	Y	36	1	1	0	1	0	0	0	0		10	Review Required
3	BAY RD	At	Edward St	North Sydney	Y	33	1	0	1	0	0	0	0	1	\$50,000	10	LATM 1 - T.94
4	ENNIS RD	At	Milsons Point Train Station	Milsons Point	Y	31	1	1	1	0	0	0	0	0	\$250,000	5	LATM 7 - T.13
5	WILLIAM ST	At	Blue St	North Sydney	Y	41	0	1	1	1	1	0	0	0		10	Review Required
6	RIDGE ST	at	Ridge Lane	North Sydney	Y	36	0	1	1	1	0	1	0	0	\$150,000	5	LATM 2 - T.138
7	WILLIAM ST	At	Mount St	North Sydney	Y	35	0	1	0	0	1	0	1	1	\$40,000	10	LATM 1 - T.32
8	WALKER ST	McLaren St	Ridge St	North Sydney	Y	34	0	1	1	1	0	0	0	0		10	Recently constructed (Late 2018)
9	BELLEVUE ST	At	Palmer St	Cammeray	Y	31	0	1	1	0	0	0	1	0		10	Review Required
10	CARTER ST	Bellevue St	Collin St	Cammeray	Y	31	0	1	1	0	0	0	1	0	\$50,000	10	LATM 4 - T.9
11	MILLER LA	Amherst St	Palmer St	Cammeray	Y	31	0	1	1	0	0	0	1	0	\$2,000	10	LATM 4 - T.4
12	PALMER ST	At	Bellevue St	Cammeray	Y	31	0	1	1	0	0	0	1	0		10	Review Required
13	ANZAC AVE	Ernest St	Rosalind St	Cammeray	Y	26	0	0	1	1	0	0	0	0		10	Recently constructed (Late 2018)
14	WEST ST	At	Ridge St	North Sydney	Y	26	0	1	1	0	0	0	0	0	\$50,000	10	LATM 2 - T.94
15	CRANBROOK AVE	At	Allister St	Cremorne	Y	25	0	0	1	0	1	0	0	0		10	Review Required
16	DAVID ST	Pacific Hwy	Hayberry St	Crows Nest	Y	25	0	0	1	0	1	0	0	0	\$50,000	10	LATM 2 - T.23
17	UPPER PITT ST	At	Jeffreys St	Kirribilli	Y	25	0	0	1	0	1	0	0	0		10	Review Required
18	MOUNT ST	Pacific Hwy	William St	North Sydney	Y	25	0	1	0	0	1	0	0	0		10	Review Required
19	ROCKLANDS RD	At	Sinclair St	Wollstonecraft	Y	24	0	0	0	0	1	1	0	0		10	Review Required
20	PARRAWEEN ST	At	Langley Ave	Cremorne	Y	23	0	0	1	0	0	0	1	0		10	Review Required
21	PARRAWEEN ST	At	Paling St	Cremorne	Y	23	0	0	1	0	0	0	1	0		10	Review Required
22	Burlington St	Alexander St	Willoughby Lane	Crows Nest	Y	23	0	1	0	0	0	0	1	0		10	Recently constructed (Late 2018)
23	HOLTERMANN ST	At	Willoughby Rd	Crows Nest	Y	23	0	0	1	0	0	0	1	0		10	Review Required
24	WILLOUGHBY RD	At	Clarke St	Crows Nest	Y	23	0	1	0	0	0	0	1	0		10	Review Required
25	WILLOUGHBY RD	At	Burlington St	Crows Nest	Y	23	0	1	0	0	0	0	1	0		10	Review Required
26	WILLOUGHBY RD	At	Holtermann St	Crows Nest	Y	23	0	1	0	0	0	0	1	0		10	Review Required
27	MERLIN ST	Ernest St	Military Rd	Neutral Bay	Y	23	0	0	0	1	0	0	1	0		10	Recently constructed (Late 2018)
28	YEO ST	At	Bydown St	Neutral Bay	Y	23	0	0	1	0	0	0	1	0		10	Review Required
29	YEO ST	At	Rangers Rd	Neutral Bay	Y	23	0	1	0	0	0	0	1	0		10	Review Required
30	CHURCH ST	at	McLaren St	North Sydney	Y	23	0	0	1	0	0	0	0	1		10	Review Required
31	EDWARD ST	At	Bay Rd	North Sydney	Y	23	0	0	1	0	0	0	0	1		10	Review Required
32	SPOFFORTH ST (NB)	Av	Rangers Ave	Cremorne	Y	18	0	0	1	0	0	0	0	0		10	Review Required
33	WONGA RD	Little Wonga Rd	Denos Lane	Cremorne	Y	18	0	0	0	1	0	0	0	0	\$50,000	10	LATM 5 - T.97
34	BEN BOYD RD	at	Hardie St	Neutral Bay	Y	18	0	0	1	0	0	0	0	0	\$500	10	LATM 6 - P.2
35	BYDOWN ST	Lindsay St	Yeo St	Neutral Bay	Y	18	0	0	1	0	0	0	0	0		10	Review Required
36	LINDSAY ST	At	Bydown St	Neutral Bay	Y	18	0	0	1	0	0	0	0	0	\$30,000	10	LATM 6 - T.57
37	CROWS NEST RD	At	Morton St	Waverton	Y	18	0	0	1	0	0	0	0	0		10	Review Required
38	ALEXANDER ST	At	Holtermann St	Crows Nest	Y	18	0	1	0	0	0	0	1	0	\$300,000	5	LATM 2 - T.6
39	MURDOCH ST	Military Rd	Rangers Rd	Cremorne	Y	17	0	0	1	0	1	0	0	0	\$80,000	2	LATM 6 - T.64*
40	WEST ST	At	Carlow St	Crows Nest	Y	17	0	0	0	0	1	0	0	0		10	Review Required
41	ALEXANDER ST	At	Burlington St	Crows Nest	Y	15	0	1	0	0	0	0	1	0	\$80,000	2	LATM 2 - T.82

No.	Street Name	From	To	Suburb	Raised	Score	Pedestrian Crashes (2014-2019)	HPAA	Near Early Education / Primary School (200m radius)	Parks	Near High School (200m radius)	Retirement Village/ Aged Care/ Hospital	Shopping	TAFE / University	Estimated Cost (\$)	Cost Scoring	Comments
42	BLUES POINT RD	At	King George St	McMahons Point	Y	15	0	1	0	0	0	0	1	0	\$60,000	2	LATM 3 - T.74
43	MCLAREN ST	At	Church St	North Sydney	Y	15	0	0	1	0	0	0	0	1	\$70,000	2	LATM 2 - T.88
44	YEO ST	At	Watson St	Neutral Bay	Y	15	0	0	0	0	0	0	1	0		10	Constructed in 2019
45	MORTON ST	At	Crows Nest Rd	Wollstonecraft	Y	13	0	0	1	0	0	0	0	0	\$200,000	5	LATM 1 - T.10
46	SHIRLEY RD	At	Wollstonecraft Train Station	Wollstonecraft	Y	13	0	0	1	0	0	0	0	0	\$250,000	5	LATM 1 - T.4
															<b>Total Estimated Cost \$1,772,500</b>		
															<b>Avg Cost per Site \$38,533</b>		