

Kerb Priorities for 2018/19 and 2019/20

TO	Whangamata Community Board
FROM	Matt Lamb - Roading Engineer
DATE	24 October 2018
SUBJECT	Kerb Priorities for 2018/19 and 2019/20

1 Purpose of Report

The purpose of the report is to seek feedback from the Whangamata Community Board on the kerb programmes for the 2018/19 and 2019/20 financial years.

2 Background

Staff have completed a site investigation and updated the kerb programme from the 2014 prioritised list, including adding some sites and changing proposed treatments. This programme review is designed to ensure proposed treatments are fit for purpose and minimise the risk of road surface water runoff from road berms onto private property.

3 Issue

Confirmation is required from the Whangamata Community Board on the kerb construction work programmes for the 2018/19 and 2019/20 financial years to allow design and physical work to commence.

4 Discussion

The 2018/19 and 2019/20 Annual Plan local roading budgets for nib kerb are as follows:

Nib Kerb Construction 2018/19 = \$257,047

Nib Kerb Construction 2019/20 = \$263,481

Staff completed a site inspection and recommend some areas which have been identified for nib kerb will be more appropriately treated with a mountable kerb. The mountable kerb provides some stormwater control to stop runoff onto properties which are lower than the road, while still being traversable for vehicles and trailers.

The current allocated budget will not be sufficient to complete all the identified sites.

There are other areas in Whangamata that would benefit from having a kerb that are not on the current kerb construction work programme.

Staff propose that approximately \$5,000 of the 2018/19 budget is used to retrofit a mountable kerb in place of a section of nib kerb where there is a runoff issue onto private property. The street requiring this treatment is Pipi Road.

There is also a section of nib kerb requiring realignment to avoid encroachment onto private property on Winifred Avenue where staff propose approximately \$5,000 of the 2018/19 budget is used to complete the kerb realignment work required.

Below are examples where differing road berm features require the different kerb treatments, nib kerb vs mountable kerb.

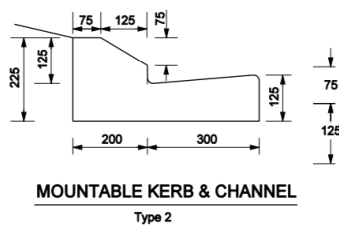


Nib kerb treatment is appropriate where the adjoining properties are higher than the road level and there is sufficient berm width to create a shallow swale for surface water runoff and soakage without significant earthworks.

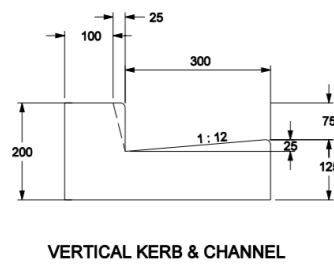


Mountable kerb is appropriate where the adjoining properties are lower than the road level to prevent runoff entering private property.

Typical mountable kerb profile:



Typical vertical kerb profile:



The kerb priority list is detailed in Table 1

Table 1 – Nib Kerb Construction Priority List

Priority - 1 = easy design no SW issues - design and undertake work asap. Priority - 2 = Some SW solutions needed - design to start with associated SW solutions explored and costed	Comm. Board Priority	Construction year	Design Comments	Road Name	Cway Start (m)	Cway End (m)	Start Name	End Name	Lanes	Road Length	Kerb length	Addition al width required	Kerb amount \$	Pavement amount \$	Seal amount \$	Total Estimated Cost	Cway Width	ADT Estimate	% Heavies	cway_he rarchy	
1			Replace section of nib kerb with mountable kerb to control road SW runoff onto private property	PIPI RD	0	399	ISLAND VIEW RD	OCEAN RD	2	399	50	0	\$ 4,750	\$ -	\$ 150	\$ 4,900				LOCAL	
1			New nib kerb realigned around curve	WINIFRED AVE	200	323	DIANA AVE	RANFURLY RD	2	123	50	0	\$ 4,750	\$ -	\$ 150	\$ 4,900				LOCAL	
1	1		Nib kerb	SHORT RD	0	143	OCEAN RD	BEVERLY TCE	2	143	286	0	\$27,170	\$ 1,158	\$ 1,430	\$ 29,758	6.6	144	3	LOCAL	
2	1		Further design needed - #115 flooding of properties and garages caused by lack of kerbing or stormwater system - requires additional xcesspits and pipework	DIANA AVE	0	257	WINIFRED AVE	END	2	257	514	0	\$48,830	\$ 2,082	\$ 2,570	\$ 53,482	6	72	2	LOCAL	
2	1		#120B flooding in cul de sac possibly entering Mooloo Cres via walkway which connects the two streets	ST PATRICKS ROW (WHANGAMATA)	0	183	BEVERLY TCE	START ISLAND RHS	2	183	366	0	\$34,770	\$ 1,482	\$ 1,830	\$ 38,082	6.5	72	2	LOCAL	
2	1		Mountable kerb required from the first curve - investigation into drainage required	ST PATRICKS ROW (WHANGAMATA)	183	249	START ISLAND RHS	END ISLAND RHS	1	66	132	0	\$12,540	\$ 535	\$ 660	\$ 13,735	6.5	41	2	LOCAL	
2	3		Would be opportunity to increase/tidy up carparking at the roadend	BARROWCLOUGH RD	594	737	START ISLAND RHS	END ISLAND RHS	1	143	286	1.9	\$27,170	\$ 16,139	\$ 6,292	\$ 49,601	4.1	103	2	LOCAL	
																2018/19	\$ 194,458				
2			Mountable kerb. Will need investigation into drainage. Substantial edgebreak	KIWI RD	0	285	ACHILLES AVE	KEA ST	2	285	540	0.9	\$51,300	\$ 14,434	\$ 6,480	\$ 72,214	5.1	138	3	LOCAL	
2			Mountable kerb.	KIWI RD	285	588	KEA ST	WILLIAMSON RD	2	303	555	0.9	\$52,725	\$ 14,835	\$ 6,660	\$ 74,220	5.1	135	3	LOCAL	
2	3		Mountable kerb.	BARROWCLOUGH RD	0	135	MARTYN RD	LEIGHTON RD	2	135	270	0.6	\$25,650	\$ 4,811	\$ 2,430	\$ 32,891	5.4	180	3	LOCAL	
2	3		Mountable kerb.	BARROWCLOUGH RD	135	267	LEIGHTON RD	RUTHERFORD RD	2	132	264	0.7	\$25,080	\$ 5,489	\$ 2,640	\$ 33,209	5.3	181	3	LOCAL	
																2019/20	\$ 212,534				
2	3		Mountable kerb.	BARROWCLOUGH RD	267	398	RUTHERFORD RD	BOND RD	2	131	262	0.6	\$24,890	\$ 4,669	\$ 2,358	\$ 31,917	5.4	187	3	LOCAL	
2	3		203 & 219 flood of garage due to undersized catchpit - reccommendation replace existing cespitwith double and increase connectons sieze from 150mm to 300mm	BARROWCLOUGH RD	398	528	BOND RD	PORT RD (EAST)	2	130	260	0.6	\$24,700	\$ 4,633	\$ 2,340	\$ 31,673	5.4	175	3	LOCAL	
2	3		Mountable kerb.	BARROWCLOUGH RD	540	594	PORT RD (WEST)	START ISLAND RHS	2	54	108	1.2	\$10,260	\$ 3,849	\$ 1,620	\$ 15,729	4.8	144		LOCAL	
2	3		Mountable kerb required to prevent runoff onto properties	GIVEN AVE	695	868	ISLAND VIEW RD	MARY RD	2	173	460	0.3	\$43,700	\$ 4,099	\$ 2,760	\$ 50,559	5.7	154	3	LOCAL	
2	3			RUTHERFORD RD	0	113	ICKEN RD	CASEMENT RD	2	113	226	1	\$21,470	\$ 6,712	\$ 2,938	\$ 31,120	5	134	3	LOCAL	
2	3			RUTHERFORD RD	113	225	CASEMENT RD	HEATHERINGTON RD	2	112	224	1	\$21,280	\$ 6,653	\$ 2,912	\$ 30,845	5	134	3	LOCAL	
2	3			RUTHERFORD RD	225	293	HEATHERINGTON RD	THE SQUARE (SOUTH)	2	68	136	0	\$12,920	\$ 551	\$ 680	\$ 14,151	6.6	134	3	LOCAL	
2	3			RUTHERFORD RD	293	362	THE SQUARE (SOUTH)	TUCK RD	2	69	138	0	\$13,110	\$ 559	\$ 690	\$ 14,359	6.6	134	3	LOCAL	
2	3			RUTHERFORD RD	362	428	TUCK RD	THE SQUARE (NORTH)	2	66	132	0	\$12,540	\$ 535	\$ 660	\$ 13,735	6.6	134	3	LOCAL	
2	3			RUTHERFORD RD	428	496	THE SQUARE (NORTH)	BARROWCLOUGH RD	2	68	136	0	\$12,920	\$ 551	\$ 680	\$ 14,151	6.6	122	3	LOCAL	
2	3		Mountable kerb required for full length with drainage investigation	RUTHERFORD RD	496	622	BARROWCLOUGH RD	HARBOUR VIEW RD	2	126	252	0	\$23,940	\$ 1,021	\$ 1,260	\$ 26,221	6.6	134	3	LOCAL	
2	3			RUTHERFORD RD	622	745	HARBOUR VIEW RD	BEACH RD	2	123	246	0	\$23,370	\$ 996	\$ 1,230	\$ 25,596	6.6	134	3	LOCAL	
2	3		Good soakage - area around 2015-2019 tuck road has had a number of reported flooding problems, they have a low lying basin at the back fo properties	TUCK RD	0	261	RUTHERFORD RD	PORT RD	1	261	522	0.3	\$49,590	\$ 4,651	\$ 3,132	\$ 57,373	5.7	93	2	LOCAL	
2	3			TUCK RD	261	315	PORT RD	START ISLAND RHS	1	54	108	0	\$10,260	\$ 437	\$ 540	\$ 11,237	7.1	72	2	LOCAL	
2	3			TUCK RD	315	434	START ISLAND RHS	END ISLAND RHS	1	119	238	2.5	\$22,610	\$ 17,672	\$ 6,664	\$ 46,946	3.5	51	2	LOCAL	
2	3		Mountable kerb with catchpit and lead at cul de sac	MAKO RD	0	81	MARTYN RD	END	2	81	162	1.9	\$15,390	\$ 9,142	\$ 3,564	\$ 28,096	4.1	51	2	LOCAL	
2	3		Mountable kerb - drainage investigation required	THE SQUARE	0	415	RUTHERFORD RD (SOUTH)	RUTHERFORD RD (NORTH)	2	415	830	0.9	\$78,850	\$ 22,186	\$ 9,960	\$ 110,996	5.1	31	2	LOCAL	
																Remaining	\$ 554,702				
																Total	\$ 961,694				
<p>Breakdown of costs for 2018/19: Budget = \$ 257,047.00 Prof. services fees (design & MSQA 2018/19 sites) = \$ 25,704.70 Prof. services fees (design of 2019/20 sites) = \$ 11,527.29 Physical works (incl. P & G items) = \$ 219,815.01 Preliminary & general = \$ 21,981.50 Construction = \$ 197,833.51</p>																					
<p>Breakdown of costs for 2019/20: Budget = \$ 263,481.00 Prof. services fees MSQA 2019/20 sites = \$ 9,221.84 Prof. services fees (design of 2019/20 sites) = \$ 254,259.17 Preliminary & general = \$ 25,425.92 Construction = \$ 228,833.25</p>																					

5 Suggested resolution(s)

That the Whangamata Community Board:

1. Receives the 'Kerb priorities for 2018/19 and 2019/20' report, dated 24 October 2018.
2. Approves the proposed Whangamata kerb construction work programme construction for 2018/19 and 2019/20.