

Hinterland Route - Cycle Friendly Road Upgrade

Zone 1: Tweed Heads to Chinderah

Note: Chainage 0 is at the Twin Towns roundabout. Route follows Wharf St, Minjungbal Drv, Laura St and the Old Pacific Highway

Side of Road	Speed Limit	Chainage	Description of Area	Treatment Required	Cost Estimate	Level of Service	
						Existing Layout	After upgrade
Western	60	0-1.8	NSW/QLD border to Boyds Bay Bridge	Reconfigure linemarking, mark exclusive bike lane & associated works	\$33,545		
		1.8-3.7	Boyd's Bay Bridge to Kirkwood Road	Mark shared bike/parking lane & associated works	\$133,397		
		3.7-4.7	Kirkwood Road to Sextons Hill	Demolish/reinstate kerb & mark exclusive bike lane	\$157,475		
		4.7-7.7	Sextons Hill to Chinderah	Facilities exist	\$0		
Eastern	60	0-1.8	NSW/QLD border to Boyds Bay Bridge	Reconfigure linemarking, mark exclusive bike lane & associated works	\$38,145		
		1.8-3.7	Boyd's Bay Bridge to Kirkwood Road	Mark shared bike/parking lane & associated works	\$132,597		
		3.7-4.7	Kirkwood Road to Sextons Hill	Demolish/reinstate kerb & mark exclusive bike lane	\$157,475		
		4.7-7.7	Sextons Hill to Chinderah	Facilities exist	\$0		
Additional Costs			project initiation	Survey, Design, Approvals, Community consultation etc	\$10,000		
			Positive identification of services	Vacuum dig, Survey, DBYD etc	\$15,000		
			Relocation of services	If required	\$15,000		
		0-7.7	Demolition	Old pavement/guardrails etc	\$35,000		
			Haulage	Floot of equipment, Removal of spoil etc	\$10,000		
			Road furniture + linemarking	Additional linemarking, guardrails, reflectors etc	\$25,000		
			Signage	Standard requirements. Additional at 'squeeze' points	\$10,000		
			Bicycle symbols every 200m	7700*2/200*40	\$3,080		
			Total		\$775,714		

Zone 2: Chinderah to Murwillumbah

Note: Chainage 0 is at Barneys Point. Cycleway follows Chinderah Bay Drive-Chinderah Road-Pacific Highway-Tweed Valley Way-Alma Street

Side of Road	Speed Limit	Chainage	Description of Area	Treatment Required	Cost Estimate	Level of Service	
						Existing Layout	After upgrade
Western Side of Road	60	0-0.8	Barneys Pt to Waugh St	None (Shared path on Eastern side of road)	\$0		
		0.8-1.9	Waugh St to Chinderah Rd	Some resealing required (300m)	\$18,000		
		1.9-2.3	Chinderah Rd to from Chinderah Bay drive to P	Widen pavement (1.2m shoulders)	\$38,702		
		2.3-2.5	Pacific Highway/Chinderah Rd interchange	Mark/provide bike lanes on roundabout	\$39,278		
		2.5-4.9	Pacific Highway/Tweed Valley Way(TVW) inter	None (Shoulder exists) (RMS area)	\$0		
		4.9-5.3	Northern end of Tweed Valley Way	0.5m widening of shoulder	\$15,200		
		5.3-7.2	North of Cudgen Rd	None (Shoulder exists)	\$0		
		7.2-7.7	Cudgen Rd intersection area	1.0m widening of shoulder	\$34,100		
		7.4	Stotts Creek Culvert	30m prefabricated structure and associated works	\$102,750		
		7.7-9.9	Cudgen Rd South past Leddays Creek Rd	None (Shoulder exists)	\$0		
		8.3	Leddys Creek Culvert	15m prefabricated structure and associated works	\$57,500		
		9.9-11.0	East of Tumbulgum	0.5-1.0 Widening of shoulder	\$56,850		
		9	East of Tumbulgum	8m prefabricated structure and associated works	\$42,750		
		10	East of Tumbulgum	8m prefabricated structure and associated works	\$42,750		
		10.6	East of Tumbulgum	150m of shift all lines South	\$25,050		
		11.0-13.3	Tumbulgum area of TVW	None (Shoulder exists)	\$0		
		12.5	Ritchies Creek Culvert	8m prefabricated structure and associated works	\$41,000		
		13.3-14.2	Ritchies Creek area	0.4m widening of shoulder	\$20,500		
		14.0-14.2	Bartletts Rd area	180m shift all lines West	\$29,750		
		14.2-14.75	Bartletts Rd area	0.3m widening of shoulder	\$10,450		
14.5	Dinseys Creek Culvert	10m prefabricated structure and associated works	\$53,500				
14.5-16.0	Johnsons Creek area	None (Shoulder exists)	\$0				
16.0-16.7	Condong North	0.6m widening of shoulder	\$31,400				
16.7-18	Condong South	None (Shoulder exists)	\$0				
18-20	Cane Rd to Quarry Rd	Bike facility in parking lane. Adjust linemarking	\$50,000				
20-20.1	East of Condong Creek	Cross-over facilities and associated paths	\$19,000				
20.1-20.35	Condong Creek culvert	30m pre-fabricated bridge structure and associated works	\$600,000				
20.35-21.3	Condong Creek to Alma Street Roundabout	Cantilever structure shared path (contra-flow) with separation	\$1,764,090				
21.3-21.5	Alma St	Widen footpath to shared path width	\$124,515				
21.5-21.7	Murwillumbah Bridge	Linemarking. Exclusive bike lane on-road	\$1,500				
Eastern Side of Road	60	0-0.8	Barneys Pt to Waugh St	None (Shared path exists)	\$0		
		0.8-1.9	Waugh St to Chinderah Rd	Some alterations required but will be addressed in roundabout upgrade	\$0		
		1.9	Chinderah Bay Drv & Chinderah Rd intersection	Reconfigure kerb, linemarking alteration	\$3,000		
		1.9-2.3	Chinderah Rd to from Chinderah Bay drive to P	Widen pavement (1.2m shoulders)	\$38,702		
		2.3-2.5	Pacific Highway/Chinderah Rd interchange	Mark/provide bike lanes on roundabout	\$39,278		
		2.5-4.9	Pacific Highway/Tweed Valley Way(TVW) inter	None (Shoulder exists) (RMS area)	\$0		
		5.1-5.4	Northern end of Tweed Valley Way	Alteration to existing lines and chevrons	\$800		
		5.4-6.5	North of Cudgen Rd	0.5m-0.8m widening required	\$50,650		
		6.5-7.4	Cudgen Rd intersection area	None (Shoulder exists)	\$0		
		7.4-7.6	Stotts Creek Culvert	Minor widening, grader trim	\$7,600		
		7.4	West of Stotts Creek	30m prefabricated structure and associated works	\$102,750		
		7.6	Cudgen Rd to Riverside Drv	Extend culvert, headwall etc	\$14,290		
		7.6-11.2	Leddys Creek Culvert	A widened pavement will be included in blackspot upgrade project	\$0		
		8.3	East of Tumbulgum	15m prefabricated structure and associated works	\$57,500		
		10	East of Riverside Drive turnoff	8m prefabricated structure and associated works	\$42,750		
		11	Riverside Drive turnoff	1 x 10m prefabricated structure and associated works	\$43,500		
		11.2	Riverside Drv area	Relocate 100m section of guardrail & 1 x culvert extension	\$43,400		
		11.4-11.8	Riverside Drv area	0.6m widening of shoulder	\$17,200		
		11.8-16.3	Tumbulgum to Condong	None (Shoulder exists)	\$0		
		12.5	Ritchies Creek Culvert	8m prefabricated structure and associated works	\$41,000		
13	Truckstop culvert near South of Ritchies Creek	1m of retaining wall, fill, seal relocated guardrail	\$20,700				
14.5	Dinseys Creek Culvert	10m prefabricated structure and associated works	\$53,500				
16.3-17.2	Condong North	0.6m widening of shoulder	\$40,000				
17.2-20.5	Condong to Quarry Rd	None (Shoulder exists)	\$0				
20.5-21.5	Quarry Road to Alma Street	Shared path opposite side of road (see above)	\$0				
21.5-21.7	Murwillumbah Bridge	Linemarking. Exclusive bike lane on-road	\$1,500				
Additional Costs			project initiation	Survey, Design, Approvals, Community consultation etc	\$136,000		
			Erosion + sediment control	Temporary measures. Permanent erosion/scour protection	\$20,000		
			Positive identification of services	Vacuum dig, Survey, DBYD etc	\$8,000		
			Relocation of services	If required	\$20,000		
			Demolition	Trees/old pavement/guardrails etc	\$35,000		
		0-21.5	Embankment stabilisation	Vegetation, revetment walls, shotcrete, drainage etc	\$90,000		
			Haulage	Floot of equipment, Removal of spoil etc	\$30,000		
			Road furniture + linemarking	Additional linemarking, guardrails, reflectors etc	\$20,000		
			Signage	Standard requirements. Additional at 'squeeze' points	\$75,000		
			Bicycle symbols every 500m	21500m*2/500m*\$40	\$3,440		
		Grader to heel off edges of shoulder	say 4km @ \$15 per m	\$60,000			
		Total		\$4,334,195			

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Hinterland Route - Cycle Friendly Road Upgrade

Zone 3: Commercial Road, Murwillumbah

Note: Chaimage 0 is at the Woolumbin Street roundabout. Route follows Commercial Rd, Elouera Tce and Bellvue Ave

Side of Road	Speed Limit	Chaimage	Description of Area	Treatment Required	Cost Estimate	Level of Service	
						Existing Layout	After upgrade
West/North	50	0-0.95	Woolumbin St to Elizabeth St	Alteration to linemarking	\$5,836		
	60	0.95-1.25	Elizabeth St to end of existing seal	Facilities exist. Bike symbols only	\$260		
		1.25-2.45	End of existing seal to end of gravel road	6m wide seal and bike symbols	\$118,875		
		2.45-2.85	Btw elouera tce and the end of commercial rd	Acquire land, concrete shared path, fences, gates	\$136,638		
		2.85-3.65	Elouera Tce, Bellvue Ave to Kyogle Rd	Facilities exist. Bike symbols only	\$1,750		
50	0-0.95	Woolumbin St to Elizabeth St	Alteration to linemarking	\$5,836			
East/South	60	0.95-1.25	Elizabeth St to end of existing seal	Facilities exist. Bike symbols only	\$260		
	60	1.25-2.45	End of existing seal to end of gravel road	6m wide seal and bike symbols (included above)	\$0		
		2.45-2.85	Btw elouera tce and the end of commercial rd	Acquire land, concrete shared path, fences, gates (included above)	\$0		
Additional Costs	50	2.85-3.65	Elouera Tce, Bellvue Ave to Kyogle Rd	Facilities exist. Bike symbols only	\$1,750		
			Project initiation	Legal fees, Survey, Design, Approvals, Community consultation etc	\$20,000		
			Demolition	Old pavement/guardrails etc	\$10,000		
			Haulage	Floot of equipment. Removal of spoil etc	\$20,000		
		0-3.65	Road furniture + linemarking	Additional linemarking, guardrails, reflectors etc	\$5,000		
			Signage	Standard requirements. Additional at 'squeeze' points	\$5,000		
			Bicycle symbols every 200m	included above	\$0		
				Total	\$331,205		

Zone 4: Bray Park to Uki

Note: Chaimage 0 is at Murwillumbah High School near the intersection of Fulford Lane and Riverview Street. Route = Kyogle Road

Side of Road	Speed	Chaimage	Description of Area	Treatment Required	Cost Estimate	Level of Service	
						Existing Layout	After upgrade
Western Side of the Road	50	1.8-2.2	Bray Park cutting	None (facilities exist)	\$0		
		2.1-2.3	Riveroak Drive	Shared path, contraflow lane, crossing point	\$117,163		
		2.2-3.3	Rivergum Rd to past Tyalgum Road	1.0m widening	\$81,000		
		3.3-3.3	East of Byangum bridge	Relocate section of guardrail (100m)	\$28,400		
		3.3-3.9	East of Byangum bridge	1.0m widening	\$46,900		
		4.1	Byangum bridge	Works on opposite side of road (see above)	0		
		3.9-4.2	Bakers Road area	0.8m widening	\$22,400		
		4.2-4.2	Bakers Road area	Widen culvert and relocate guardrail 600mm rc pipe	\$18,000		
		4.2-4.6	West of Bakers Road	0.8m widening	\$27,700		
		4.6-4.9	West of Bakers Road	None (shoulder exists)	\$0		
		5	East of Boulders Close	1 x 15m pre-fabricated bridge structure and associated headstocks etc	\$35,625		
		4.9-5.9	East of Boulders Close	1.0m widening	\$66,600		
		5.6-5.6	West of Boulders Close	Dowel slab into existing skewed headwall + handrail + support if necessary	\$50,000		
		5.9-6.9	West of Boulders Close	0.6m widening	\$45,600		
		6.85-7.1	Between Boulders Close and Glenock Road	Adjust linemarking to achieve as much as possible (Kerb/retaining wall)	\$24,550		
7.1-7.9		0.6m widening	\$40,200				
7.2		Relocate guardrail	\$3,360				
7.5		Relocate 30m of guardrail	\$3,600				
7.7		Relocate 30m of guardrail	\$3,600				
7.9		Relocate guardrail	\$3,600				
7.9-8.1	Between Boulders Close and Glenock Road	1.0m widening	\$16,500				
8.1-8.3	East of Glenock Road	None (shoulder exists)	\$0				
8.3-8.7		Adjust linemarking to achieve as much as possible (Kerb/embankment) +sign	\$0				
8.7-9.8	Glenock Road area	1.0m widening	\$79,500				
9.1	Braeside Drive area	Tree removal (50m)	\$25,000				
9.8-10.4	Braeside Drive area	None (shoulder exists)	\$0				
10.1	Braeside Drive to Meadow Place	Adjust linemarking (100m)	\$3,200				
10.4-11.6	Braeside Drive to Meadow Place	1.0m widening	\$79,500				
11	Meadow Place area	Widen culvert	\$4,400				
11.6-11.9	Meadow Place to Uki CBD	0.6m widening	\$15,500				
11.9-12.6	Bray Park cutting	Off-road shared path	\$151,350				
1.7-2.1	Riveroak Drive	None (shard path exists on opposite side of road)	\$0				
2.1-2.3	Culvert West of Riveroak Drive	Work on opposite side of road (see below)	0				
2.4	Culvert West of Riveroak Drive	1 x 15m pre-fabricated bridge structure and associated headstocks etc	\$46,750				
2.3-2.7	Rivergum Drive to Tyalgum Road	1.0m widening	\$26,500				
2.7-3.2	Tyalgum Road area	Adjust linemarking/removal, respray	\$4,000				
3.2-3.9	Byangum bridge area	Form 1.2m of shoulder	\$55,200				
3.9-4.2	Byangum bridge and Bakers Road area	Shared path, 2crossing points, reconfigure guardrail, remove bollards	\$68,515				
4.2-4.7	West of Bakers Road	0.5m widening	\$22,900				
5	West of Bakers Road	1 x 15m pre-fabricated bridge structure and associated headstocks etc	\$35,625				
4.7-5.6	East of Boulders Close	1.0m widening	\$58,200				
5.6-5.9	Boulders close intersection	None (shoulder exists)	\$0				
5.9-6.0	West of Boulders Close	Culvert widening required 1 length & headwall 600 mm rc pipes	\$15,000				
6.6-7.1	West of Boulders Close	Adjust linemarking to achieve as much as possible (Kerb/retaining wall)	\$7,750				
7.1-7.3	East of Mt Warning turnoff	Form 1.2m of shoulder	\$18,500				
7.3-8.0		0.5m widening.	\$24,000				
7.7		Relocate 30m of guardrail	\$3,600				
7.9		Relocate 30m of guardrail	\$3,600				
8-8.3	Mt Warning turnoff	1 x 12m pre-fabricated bridge structure, headstocks, fill to approach ramps	\$46,750				
8.3-8.7	West of Mt Warning turnoff	Adjust linemarking & chevrons	\$3,000				
8.7-8.8		Adjust linemarking to achieve as much as possible (Kerb/embankment) +sign	\$16,800				
8.8-9.1		None (shoulder exists)	\$0				
9.1-9.4	East of Glenock Road	Adjust linemarking	\$1,000				
9.4-9.5		Form 1.2m of shoulder	\$11,200				
9.5-9.9	Braeside Drive	Adjust linemarking	\$3,000				
9.9-10.3	West of Braeside Drive	None (shoulder exists)	\$0				
10.3-10.5		1.0m widening	\$15,200				
10.5-10.8		Adjust linemarking	\$2,000				
10.8-11.0	Between Braeside Drive and Lange Road	1.0m widening	\$15,200				
11.0-11.2	Lange Road area	0.6m widening	\$13,200				
11.2-11.3		1.0m widening	\$9,200				
11.3-11.5	Between Lange Road and Meadow Place	None (shoulder exists)	\$0				
11.5-11.9	Meadow Place area	1.0m widening	\$26,500				
11.9-12.6	Meadow Place to Uki CBD	Off-road shared path (opposite side of road)	\$0				
Additional Costs			project initiation	Survey, Design, Approvals, Community consultation etc	\$66,500		
			Erosion + sediment control	Temporary measures. Permanent erosion/scour protection	\$20,000		
			Positive identification of services	Vacuum dig. Survey. DBYD etc	\$10,000		
			Relocation of services	If required	\$5,000		
			Demolition	Trees/old pavement/guardrails etc	\$30,000		
			Embankment stabilisation	Vegetation, revetment walls, shotcrete, drainage etc	\$500,000		
		0-12.6	Haulage	Floot of equipment. Removal of waste/spoil etc	\$65,000		
			Road furniture + linemarking	Additional linemarking, guardrails, reflectors etc	\$100,000		
			Signage	Standard requirements. Additional at cost prohibitive areas.	\$60,000		
			Bicycle symbols every 500m	((11900*2)/500)*\$40	\$1,904		
		Yellow bicycle symbols at squeeze points	say 50 of	\$2,000			
		Grader to heel off edges of shoulder	say 5km @ \$15 per m	\$75,000			
			Total	\$2,531,342			

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