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3.2 Design Criteria

Six grades of off-road trail relating to level of difficulty are presented in Table 2. These grades have been derived from the International Mountain Bike Association's trail rating Zealand were used when developing these criteria and characteristics. Guidelines from the Department of Conservation, and Mountain Bike New

of the trails (Grades 3 and higher). Additional challenges can be built in for more advanced riders to ensure their appreciation characteristics. From an economic point of view, it may be best to design routes for less experienced or less energetic riders to maximise market potential (Grades 1 and 2). The grade system is important for distinguishing between users' abilities and desired ride

sections of the DOC guide for subsequent considerations. account of the various stages of producing off-road trails. DOC's Track Construction and Maintenance Guidelines (2008) provides a comprehensive Designers are directed to

necessary to build Grade 2 sections, as Grade 3 features will suffice. necessary to improve the Grade 4 sections to Grade 3 by those riders whose level of experience and skill is suited for a Grade 2 trail. It will be category over the course of the route. There is no point building a path that incorporates Grades 2 to Grade 4, as the Grade 4 sections will be impossible to negotiate It is most important that the trail's grade does not change more than one grade standard, or it will not be

Table 2: Design specifications for off-road trails

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									EASIES?	0	0			Grade	
come hand ralls.	Length: 3.5-4.5 hours/day (30-50 km/day). Barriers/Guard rails: Areas such as bluffs or bridges where a fall would result in death or significant harm require hand solve.	Obstacles : None. No stiles. Cattle stops should preferably be at least 1.5 m wide, and minimum 1.2 m wide.	Bridge Width: Recommended bridge width of at least 1.5 m, absolute minimum width of 1.2 m.	Watercourses: All water courses bridged	Surface: Compacted/stabilised base course or similar, with maximum top course aggregate of 20 mm.	Radius of turn: 6 m minimum.	cyclists may ride side by side. 'Single trail' average width 1.8 m, with 1.2 m minimum. Horizontal clearances as in Section 3.5.	degrees for stretches up to 20 m long, if a straight, flat section follows).	time. If the track is designed to be ridden predominantly in one direction then the downhills can be steeper (up to 5 decrease to 1).	Gradient: 0-2 degrees for 98% of trail on any one day, maximum 4	the total distance of the trail without dismounting for obstacles	first ride for non-cyclists, and those wanting an easy gradient or experience. Trail allows for cyclists to ride two above.	Description: Flat wide smooth trail Table	Grade Description	Si chomicanolis for off-road trails





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riders, the trail is predictable with no surprises. Social component with riders able to ride side by side at times, but possibly large sections of Suitable for beginner Description: Some gentle climbs, smooth trail. single trail.

degrees, and more than 4 degree gradient for no longer than 200 m at a time. If the track is ridden predominantly in one direction then the downhills can be steeper (up to 8 degrees or 10 degrees for stretches up to 20 m long, if a straight, flatter section follows). for 96% of trail on any one day, maximum Gradient: 0-4 degrees

Width: Between 0.9 m and 1.5 m for single trail and minimum 2.2 m for double trail sections with adequate clearances. Horizontal clearances as in Section 3.5.

Radius of turn: 3 m minimum with at least 4 m desirable.

Surface: Compacted/stabilised base course, with maximum top course aggregate of 30 mm.

Watercourses: Watercourses bridged, except for fords with less than 100 Surface should be mm of water in normal flow which can be easily ridden. as smooth as adjacent trail.

m, absolute Bridge Width: Recommended bridge width at least 1.5 minimum width of 1.2 m.

Obstacles: Some rocks/roots/ruts that can either be avoided, or are less Cattle stops should be minimum 1.2 m wide. than 50 mm high. No stiles.

Length: 4-5 hours/day (30-50 km/day).

Barriers/Guard rails: Areas such as bluffs or bridges where a fall would result in death or significant harm require hand rails.

Description: Narrow trail, there will be some hills to climb, obstacles may be encountered on the trail, and there may be exposure on the edge of the trail. Suitable for riders with intermediate level skills.

Gradient: 0-5 degrees for 90% of the trail, maximum 9 degrees (up to degrees for stretches up to 20 m long, if a straight, flatter section follows)

Width: 0.9 m for 90% of the trail, 0.6 m minimum with adequate clearances. Horizontal clearances as in Section 3.5.

Radius of turn: 2 m minimum, with at least 3 m desirable.

Surface: Generally firm, but may have some muddy or loose sections.

Watercourses: Watercourses bridged, except for fords with less than 200 mm of water in normal flow, which can be easily ridden.

Bridge Width: 1.2 m with minimum width 0.9 m.

E Obstacles: Occasional rocks/roots and ruts may be up to 100 high/deep and may be unavoidable.

Length: 4-6 hours/day (30-50 km/day for an intermediate cyclist).

Barriers/Guard rails: Areas such as bluffs or bridges where a fall would result in death or significant harm require hand rails.



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	Radius of turn: Minimum 1 m Surface: Anything – likely to be unsustainable. Obstacles: 'North Shore' wooden obstacles, big jumps, etc Length: Trail may take less than a minute to ride, but will be ridden over and over again.	Gradient: Anything goes! Width: Minimum of tyre width.	Description: Purpose built extreme Downhill/Free ride trails. Extremely	Obstacles: Many rocks, roots and ruts, up to 0.6 m high/deep. If there are not obstacles then they are likely to be added afterwards (i.e. jumps, and wooden structures). Length: 4-12 hours/day.	Radius of turn: 1 m minimum. Surface: Huge variety of surfaces. Bridge Width: 1.2 m with minimum width 0.2	Gradient : 0-9 degrees for 80% of trail, maximum 20 degrees Width: 0.4 m average, 0.25 m minimum. Horizontal clearances as in Section 3.5.	Description : Technically challenging, and suitable for advanced/expert riders. Physically tough. Big hills, lots of rocks, some walking likely	Barriers/Guard rails: Areas such as bluffs or bridges where a fall would result in death or significant harm require hand rails.	Obstacles: Many rocks/roots and ruts up to 200 mm high/deep. Also some purpose built obstacles to liven things up, such as sea-saws and jumps.	Watercourses: Watercourses bridged, except for fords with less than 300 mm of water in normal flow, which can be easily ridden. Bridge Width: 1.2 m with minimum width 0.9 m.	Radius of turn: 1-2 m minimum. Surface: Firm and loose.	Width: 0.6 m average, 0.4 m minimum. Horizontal clearances as in Section 3.5.	Gradient: 0-7 degrees for 90% of trail, maximum 12 degrees (may be steeper if a straight, flatter section follows).	Description: Steep climbs, with unavoidable obstacles on a narrow trail, and there will be poor traction in places. Possibly some walking sections. Suitable for intermediate and advanced riders.

Note:

- ._ Any short sections of trail that do not meet the stated criteria should only be one grade harder, but only in short sections of no more than 200 m.
- N If a more difficult section is included in the trail, over and above the minimum criteria, it may be looked upon more favourably for funding approval if compensatory factors are included to mitigate the difficulties.
- ω be compensated for by making the trail wider, easing the turns, improving the If a section of a trail is steeper than that recommended for the trail grade, this may



8 March 2012

Richard Kempthorne The Mayor Tasman District Council Private Bag 4 Richmond Nelson 7050

Dear Richard

Re: The Completion of the Great Taste Trail

Thank you for the meeting with us to discuss the status of the Great Taste Trail and what is required to complete construction of the trail. The original plan was for a three stage roll out, with stages two and three being largely funded by Tasman District Council (TDC). We now understand your draft Long Term Council Community Plan shows this funding being deferred for ten years.

If the Great Taste Trail is to deliver economic growth and jobs to your community, then it is vital that the trail developed is attractive to cycling tourists. The short return rides to Mapua and Wakefield (stage one) will not attract many riders from out of your district.

We did discuss a solution to this problem that would be a Great Ride and construction would be completed within 12 months (proposed by The Nelson Tasman Cycle Trails Trust - the Trust). The solution trail links the downtown Nelson I-site with Kaiteriteri and provides a 175km loop via Dovedale and Wakefield. This is shown on the attached map labelled: Plan B -- Route Options.

This Great Taste Trail will attract international and domestic cycle tourists, while also providing significant investment opportunities for businesses along the route. It is this investment that will provide economic growth and jobs to the Tasman District, and was the primary reason why the New Zealand Cycle Trail, and in particular the Nelson/Tasman trails were funded by the Government.

The current cost estimate for this option is set out in the table below.

Great Taste Trail Funding Priorities

Notes	Tasman View Road New opportunity Short link needed to	country road Opportunity to use quiet	road Saving of \$400 if speed	reduced on Higgins Road Employing all cheapest	opiloris		
Diannod	\$1,570k \$850k \$380k \$100k	000	\$500k	Total planned: \$3,400k	Spent + planned: \$4,010k NZCT funds: \$2,146k	Tunds: \$1,041	funds = \$823k Funding gap = \$823k
Spent	\$300K		\$310k	Total spent: \$610k			1.114464deppy
	Airport to Mapua Mapua to Riwaka Riwaka to Kaiteriteri Riwaka to Woodstock	Woodsfock to Wakefield	Wakefield to Richmond	ž			

TDC, the Trust and the NZCT team are reviewing all components for this estimate to ascertain where savings can be made without compromising safety or the experience of the ride.

In order to gain certainty to the completion of the Great Taste Trail, I suggest a variation be submitted to the NZCT team by 31 March 2012, including the following:

- Project milestones to complete the full loop
 Revised budget with cost estimates for each section
 Confirmation of the sources of co-funding

We do have a modest "client reserve" fund available and we would be amenable to receiving an application for up to a maximum of \$150,000. This would be provided that this, along with TDC funding, will complete the Great Taste loop and Kaiterteri link by 31 December 2012.

Yours sincerely

John Dung

Programme Manager, New Zealand Cycle Trail

CC: Chair, The Nelson Tasman Cycle Trails Trust; Chief Executive, Tasman District Council

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