

Section 3-3 Carn Daimh		
<b>Length</b>	1050 climbing singletrack	<b>Machine Type</b> 14 ton zero tail swing 360° excavator
<b>Strategic Value</b>	High, reduces conflict issues with riders descending fast through steep downhill blind corners and increases value of section 3-2.	<b>Clearance</b> 241 trees will need felled of which 25% are windblow.
<b>Stock Details</b>	Unthinned, windblown Lodge Pole.	<b>Bench Cut</b> 1050m, modified with topsoil ditch to give robust drainage regime
<b>Control Points</b>	Leaves from existing turning circle at end of forestry road, follows old extraction rutted track, exits just uphill of fenced clearfell site on top road.	<b>Surfing</b> Locally won, minimum 300mm raised to correct profile and compacted to refusal.
<b>Ground Conditions</b>	Badly drained with 100-300mm soil over stony to good sub soils.	<b>Stone pitching</b> none.
<b>Topography</b>	up to 25% sideslopes.	<b>Culverts</b> 300mm twinwall as required
<b>Constraints</b>	Wet areas to consider	<b>Hand finishing</b> 1050m.
<b>Construction</b>	Locally won ASDUG will be used to overlay a formation 0.65m wide on the centre line of the old track, overburden and existing hag will be landscaped into running bottom side borrow pit. Top side battered back to give shallow top side ditch draining through 300mm twin wall polypropylene pipes as required.	<b>Interpretation</b> Waymarkers at start and finish plus vehicle warning on exit to road.

### Maintenance

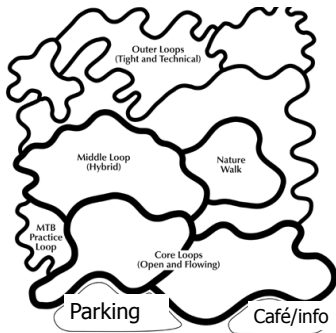


### Building Trails

- Layout
- Guidelines
- Construction
  - Costs
  - ASDUG v Surfaced
  - F.B.C. v Ditched
  - Machine v Hand dug
- Stages of Build
- Signing-off



### Trail Layout.

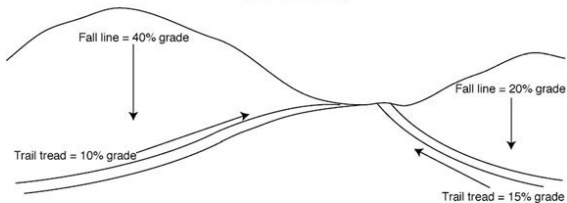


### Sustainable Trails

- [IMBA guidelines](#)



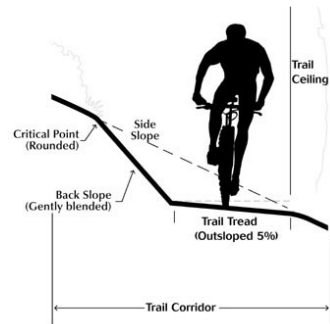
### 50 % Rule

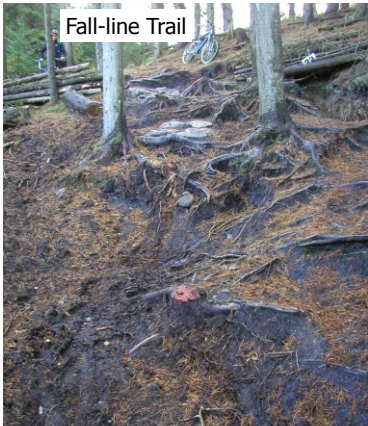


This trail is properly designed to be well below 50 percent of sideslope. Water coming down the hillside will cross the trail and flow off of it, minimizing erosion.

This trail is poorly designed because its grade exceeds 50 percent of sideslope. Water will run down the trail, building volume and velocity and carry away tread material loosened by users. This trail should have been designed with a maximum grade of 10 percent.

### Trail Cross Section





Trail Costs

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	
1.	Excavate F.B.C to mineral base, width 1.2m.	230	m	3.50	805.00	
2.	On F.B.C construct formation 0.9m wide with washed mineral based material to a depth of no less than 150mm compacted.	230	m	5.00	1150.00	
3*	Construct trail 0.75m wide on FBC using 75mm Type 1, compact to refusal.	190	m	5.00	950.00	
4*	Construct rock features on trail formation as per specification in 8, page 12 & 14.	40	m	50.00	2000.00	
4.	Re-instate trail margins.	230	m	1.50	345.00	
* 25 tons Type 1 * 30 tons rock.					TOTAL THIS SECTION	5250.00 422.82/ m





Bringing in Materials



Dumper to Powerbarrow



Avoid This!



Shaping materials by hand – still necessary!



Shape up and compact



Compact – heavier the better.



