Strawberry Hill Bike Park

Strawberry Hill Ride Park

A - Easy machine built flow trail
B - Intermediate hand built flow trail
C - Difficult hand built trail with large flyover features
D - Very difficult option
E - Easy climbing trail
F - Intermediate climb with stacked turns
G - Easy beginner exit option
H - Second intermediate tech trail

Advanced skills features

Track Type
- Easiest
- Intermediate
- Difficult
- Most Difficult
- Climbing

0 62.5 125 190 255 320 385 450 515 580 feet

Saddle Practice
Starting Feature
Rolling Overpass
Step-Down Overpass
Step-Up Overpass
Intentional Entry Points Along Route
East River
Join Row

Evergreen Mountain Bike Alliance
Design

Family oriented, community bike park

Should allow newer riders to build skill in a fun and controlled environment while offering features that are fun for all skill levels.

The basic trail rating system features 4 difficulty levels that may be familiar to skiers:
- Green circle - Easy
- Blue square - Intermediate
- Black diamond - Advanced
- Double Black Diamond - Most Difficult or Expert

Strawberry Hill will offer mostly Green Circle and Blue Square with one Black diamond trail and a double black option.
Features

Start Ramp

Drops

Roll Downs

Rock Garden

Overpass

Skinny

Roller Coaster

Tabletop Jump
Features

Start Ramp

Drops
Roll Downs
Rock Garden
Overpass
Skinny
Roller Coaster
Tabletop Jump
Skill Building Feature: Drops

- Practice controlling the bike over drop offs and ledges
- Strong bike control and confidence builder
- Man made drop features less common in back country trails, but natural drops off of roots
Features

Roll Downs

- Rock Garden
- Overpass
- Skinny
- Roller Coaster
- Tabletop Jump

Skill Building Feature: Roll Down

- Learn to ride down steep faces
- Tires stay on ground
- Simulates changes terrain
Features

Drops
Roll Downs

Rock Garden

Overpass
Skinny
Roller Coaster
Tabletop Jump

Skill Building Feature: Rock Garden
- Build different levels of difficulty
- Gain experience and confidence riding over stone surfaces.
- Natural rock sections on nearby mountains less intimidating
**Features**

- Drops
- Roll Downs
- Rock Garden
- **Overpass**
- Skinny
- Roller Coaster
- Tabletop Jump

**Trail Feature: Overpass**

- Creates a fun way to manage intersections, and allows trails to use the space better
- Intermediate trails only. Beginner trail goes underneath
- Railing to prevent falls
Features

Drops
Roll Downs
Rock Garden

**Overpass**

Skinny
Roller Coaster
Tabletop Jump
Features

Drops
Roll Downs
Rock Garden

**Overpass**

Skinny
Roller Coaster
Tabletop Jump
Features

Drops
Roll Downs
Rock Garden

**Overpass**

Skinny
Roller Coaster
Tabletop Jump
Features

Drops
Roll Downs
Rock Garden
Overpass

Skinny
Roller Coaster
Tabletop Jump

Trail Feature: Skinny & Roller Coaster
- Roller Coaster
- Skinnies
Features

- Drops
- Roll Downs
- Rock Garden
- Overpass
- Skinny
- Roller Coaster

**Skill Building Feature: Tabletop Jumps**

- Skill Building feature:
- Tabletop Jumps
Safety:

- Design for target users
  - Skills ahead of consequence
- Use clear signage
- Create clear sight lines
  - Intersections, stopped rider, pedestrian
- Incorporate gateway features.
- Features appear harder than they are.
- Fall Zones
- More difficult features are optional with ride arounds
- Slow traffic down for intersections
- Educate riders
Where does Strawberry Hill fit?
Where does Strawberry Hill fit?

Strawberry Hill Bike Park will offer beginner to intermediate experience to build skill and confidence to complement the following riding areas and more:
Skill Building Feature:

Port Gamble Ride Park

Green Mountain

360 Trails

Swan Creek

Redmond Bike Park

Duthie Hill Bike Park

Tiger Mountain

Black Diamond Open Space
Sustainable Trail Construction
What is Mineral Soil?

Below the duff layer you will find inorganic **mineral soil** composed of sand, silt and clay.

This **mineral soil** is what we want to build trails with. **Mineral soil** will compact to form a hard trail surface that allows water to run off it, rather than soaking into it.
Even a trail surface built out of ideal mineral soil will get muddy if water is allowed to sit on top of it.

This is why drainage is so important.

Preventing standing water helps prevent mud, ruts, trail erosion, and trail creep.
Let’s Talk About Drainage

We are fortunate to have a year-round riding season in much of the PNW which means that a great deal of construction and maintenance effort goes into drainage.
To maintain proper drainage, we need to provide a place for water to flow off the trail. Also ensure enough out slope to force the water off the trail rather than flowing down it.
Drainage for *Bench Cut Trail*

- The example to the right here shows an example of a rolling grade reversal on a bench cut trail.

- The bottom of a grade reversal should have an obvious out slope that allows *water* to easily *flow* off trail.
**Drainage for Flat Trail**

Flat trails often use a ditch for drainage.

- The ditch starts approximately 12”-18” wide.
- Should go to daylight so water can evaporate.
- Width is greater than 2 times the depth.
- Taper the ditch sides into a gentle depression that will be less likely to plug.
- Steep edges could catch a bike tire.

*(We will cover this more later)*
All trail drains should run to day light whenever possible. This can be challenging on flat trails. When in doubt clear as much as you can without digging a big hole.

Flat trails often don’t have daylight drains which results in the entire drain filling up. Ditch and basin style drains will often need to be shoveled out to restore the catch basin’s effectiveness.
Green Up / Narrow Up

- Replanting the trail to restore the natural vegetation and natural feel.
- Healthy plants help stabilize soil and control erosion
- Strategic placement of ferns helps keep riders on trail
Trail Corridor

Trail corridors are built with consideration for sight lines for safety social sustainability. Too narrow of a corridor creates numerous potential hazards such as collision with objects or other riders, as well as nuisances that make the trail less enjoyable like thorns tearing your clothes or scratching your arms.

Corridor includes the trail ceiling. Plants like vine maple and Hazelnut will sag and hang low overhead. This can provide a nice archway, but only as long as people aren’t hitting their head on branches.
Sight Lines

- Route steeper grades / faster speeds in higher visibility areas
- Clear vegetation around turns
- Bring trails close together before a switchback or an intersection
- Bring trails uphill before a blind turn or intersection
- Consider 1-way trails
Speed Control

- Route trails uphill into and out of blind corners or before a merge
- Use chicanes and corralling where needed to reduce speed
Thank You
# Strawberry Hill Construction Cost Estimate

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