

School District 83 Greenway Trail Planning

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Contents

Purpose:.....3

Background:.....3

Proposed Phases/Timelines:5

Project Details:6

Construction Standards: 11

Trail Sign Standards: 14

DRAFT

Purpose:

The purpose of this phased project is to formalize existing urban connector trails, which cross through School District 83 (SD83) property and incorporate them into the City of Salmon Arm (City) Greenways trail network. These “Social Routes” are currently used heavily by the general public, and students alike, and fit within the Salmon Arm Greenways strategy for pedestrian planning.

First steps will involve surveying SD83 property to identify the official, agreed upon, trail line for each proposed SD83 property. A formal Right-Of-Way agreement between the City of Salmon Arm and SD83 will be required, which will allow the City to assume liability and upgrade the trail routes to the Shuswap Trail Alliance (STA) trail standard, which follows the Recreation Sites and Trail BC (RSTBC) and Whistler trail standards.

Once complete, these trails should be suitable for pedestrians, bicycles, strollers, and wheelchairs as terrain permits. This will involve trail upgrades and improvements, installing wayfinding and informational signage, and on-going maintenance. The City would ensure that the necessary maintenance was completed on an ongoing basis, most often by contracting the STA to complete the work.

This proposal is suggesting a phased approach, targeting one campus per year as funds permit. The City of Salmon Arm currently has \$20,000 in reserved funds for this project and Brown Johnson has committed to provide surveying services of up to \$5,000 per year.

Proposed timeline of trail development:

- a) Jackson Campus 2023
- b) Sullivan Campus 2024
- c) Shuswap Middle School 2025
- d) Bastion School 2026

Background:

Greenways Overview

The City of Salmon Arm Greenways Trails are an interconnected network of greenways and trails, serving all forms of non-vehicular movement and all ability levels, linking the City Centre, neighbourhoods, and major points of interest with each other and with surrounding lands, and providing healthy transportation, outdoor recreation and tourism opportunities, and ecological connectivity.

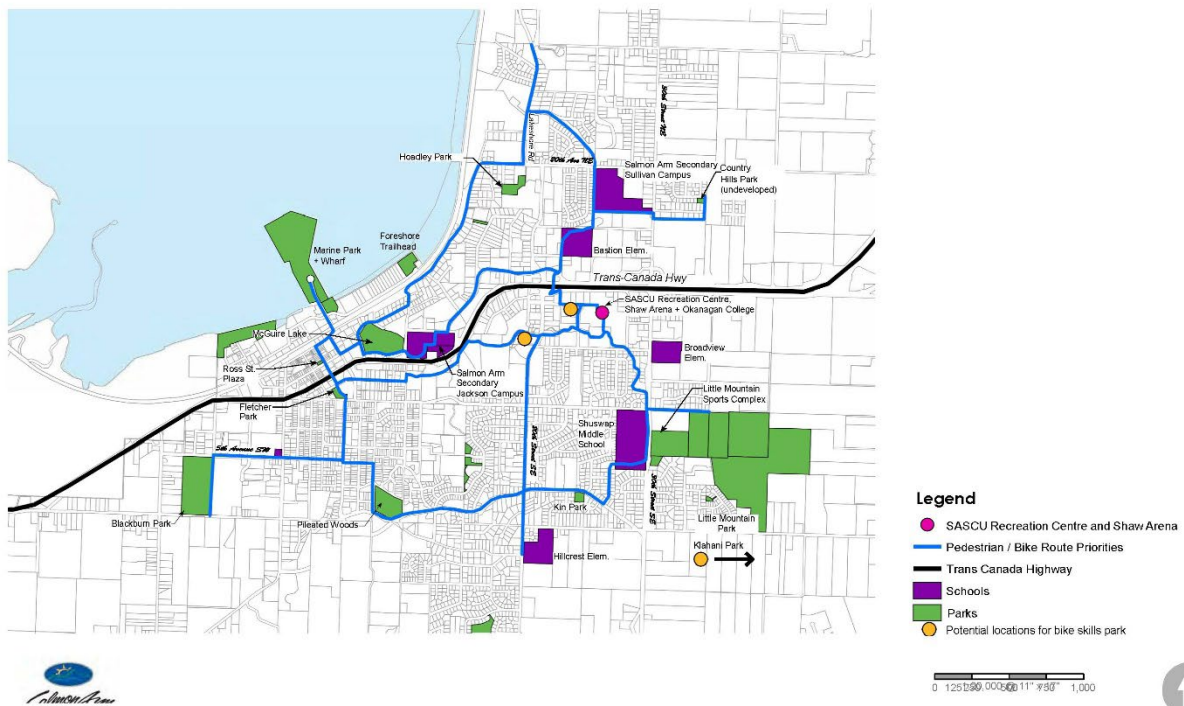
The purpose of the Greenways Strategy is to provide direction for the long-term planning and implementation of a trail/path network spanning the City, integrated with the sidewalk and bicycle networks, and connecting to existing and future regional trails, to provide recreational opportunities, to accommodate alternative transportation for a diverse range of trail/path users, and to support corridors for ecological connectivity.

Heatmaps

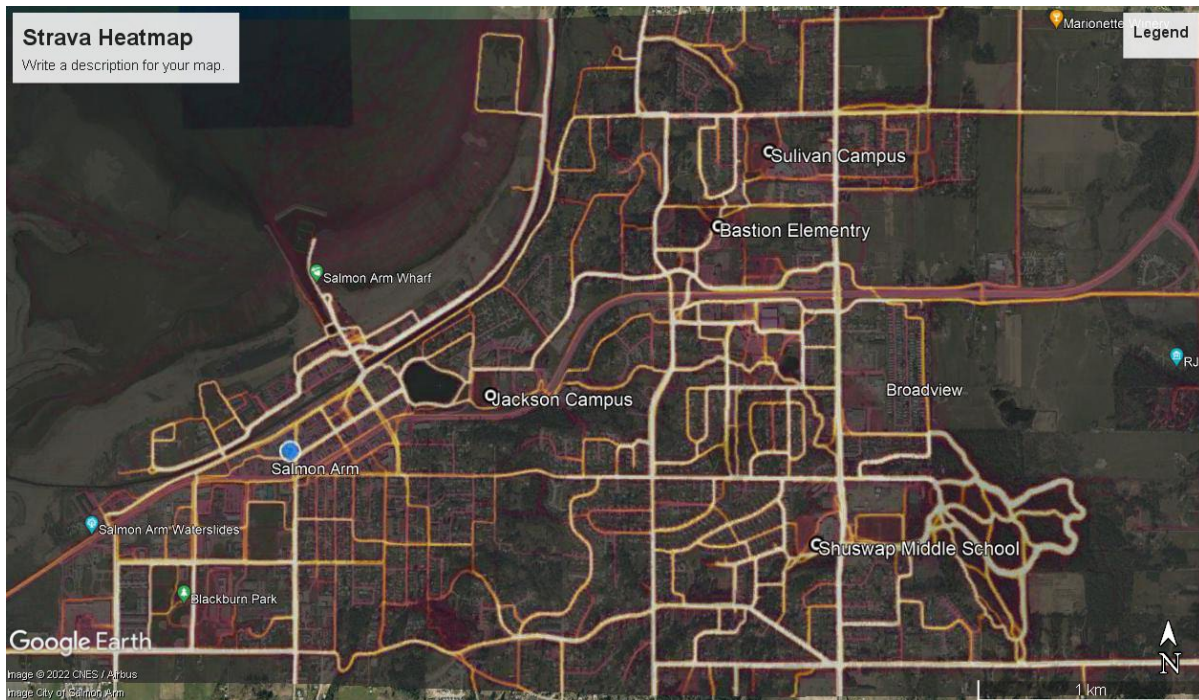
Strava and Trailforks are activity tracking apps which are used to track recreational activities. Strava is used by 76 million people worldwide and Trailforks has 1,309,510 user profiles and 42,897,836 individual ride logs.

These apps are continuously generating data on ridership at very high spatial and temporal resolutions. Heatmaps can be thought of as a sample of bike and pedestrian volumes, where the sample is generated from app users.

The number of total bicyclists represented by one user count varies depending on location and should be combined with trail count programs for an accurate count.



Salmon Arm Greenways Pedestrian Routes



Example of Strava Heatmap for the core area of Salmon Arm

Proposed Phases/Timelines:

Timeline of proposed trail development:

- e) Jackson Campus 2023
- f) Sullivan Campus 2024
- g) Shuswap Middle School 2025
- h) Bastion School 2026

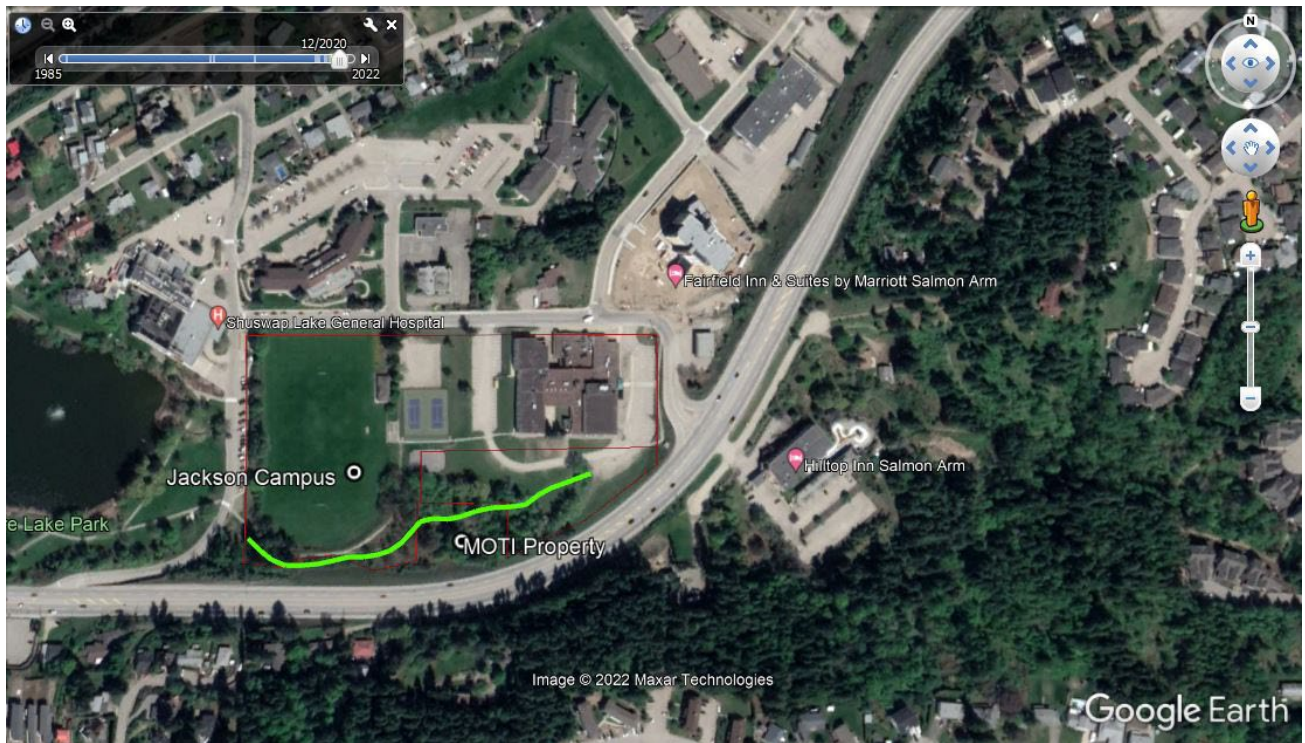
Labour			
Section Name	Task/Description	Timeline	metres
Jackson Campus	Formalize Trail	2023	290
Bastion Campus	Brush and Install Sign Posts	2024	160
			160
Sullivan Campus	Brush and Install Sign Posts	2024	310
	Gravel Cap Trail	2024 - 2025	310
Shuswap Middle School Campus	Trail Planning	2024	225
	Trail Constuction	2025	225
	5th ave Trail Constuction	2025	75

Project Details:

Jackson Campus

The Turner Creek trail connects uptown Salmon Arm, starting near the Shuswap Middle School, to downtown along Turner Creek, through the Jackson Campus to McGuire Lake. This trail would be added to the Salmon Arm Greenways Maintenance Budget and maintained as a type 2 trail through SD83 property. There is a gap in the trail connection on the east end of the trail where the current trail enters the parking lot. It would be difficult to direct pedestrians around the parking lot as users will always default to the more efficient route from point A to Point B. We could create a trail along the edge of the parking lot and develop a true edge to this parking area taking the most desired pedestrian route in consideration for the trail alignment. The other option if to leave this trail gap as is.

Labour			
Section Name	Task/Description	Timeline	metres
Jackson Campus	Survey	2023	290
	Brush and Sign	2023	290



Map of the existing trail through Jackson Campus

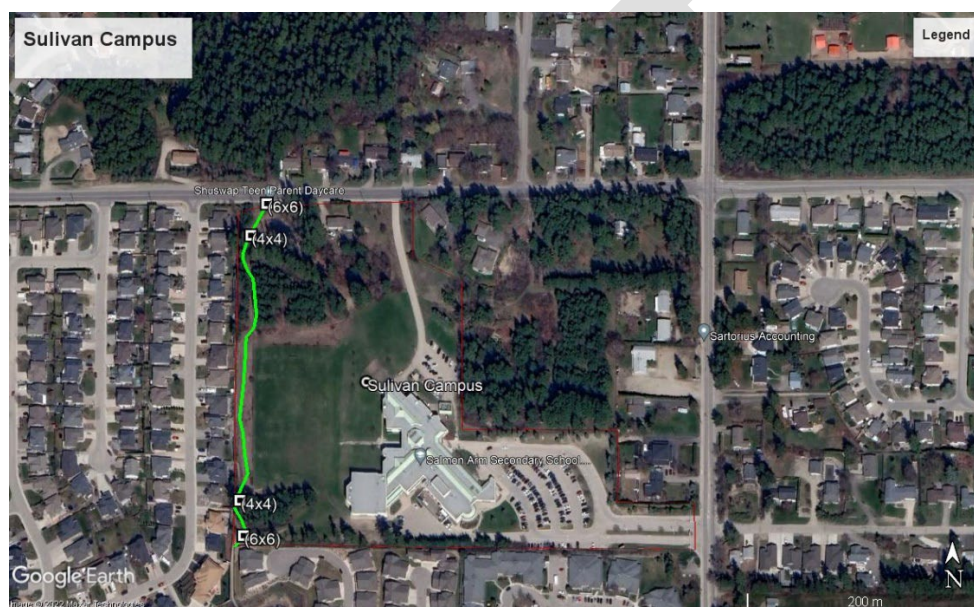


Trail Forks Heat Map of existing use

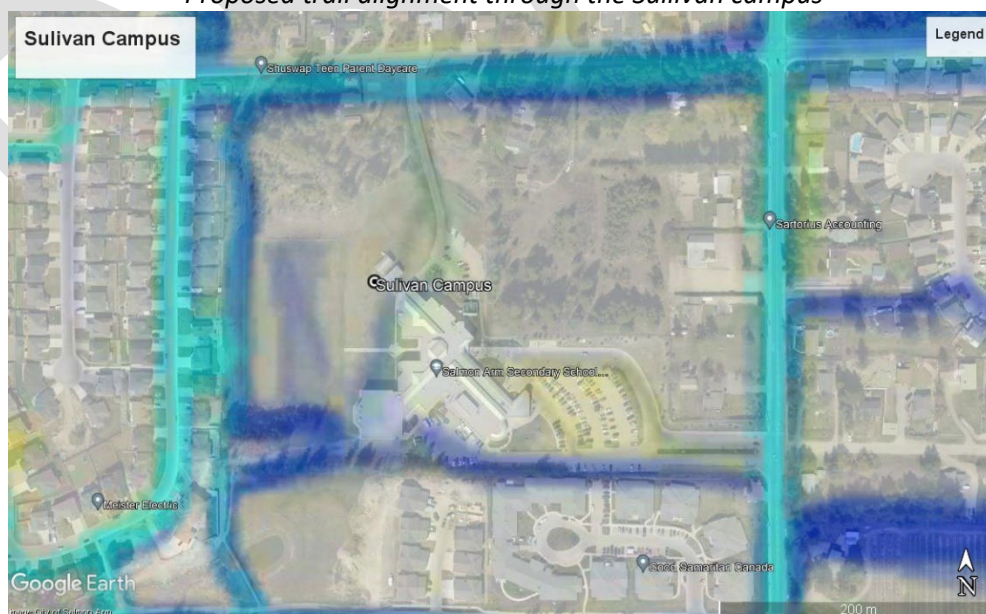
Sullivan Campus

The trail alignment through the Sullivan campus would keep to the western edge of the property, following the social trail in place, and tie into the existing City of Salmon Arm trail on 20th Ave NE. This trail would be upgraded to a crush gravel, type 2 trail.

Labour			
Section Name	Task/Description	Timeline	metres
Sullivan Campus	Survey	2024	
	Brush and Install Sign Posts	2024	310
	Gravel Cap Trail	2024 - 2025	310



Proposed trail alignment through the Sullivan campus

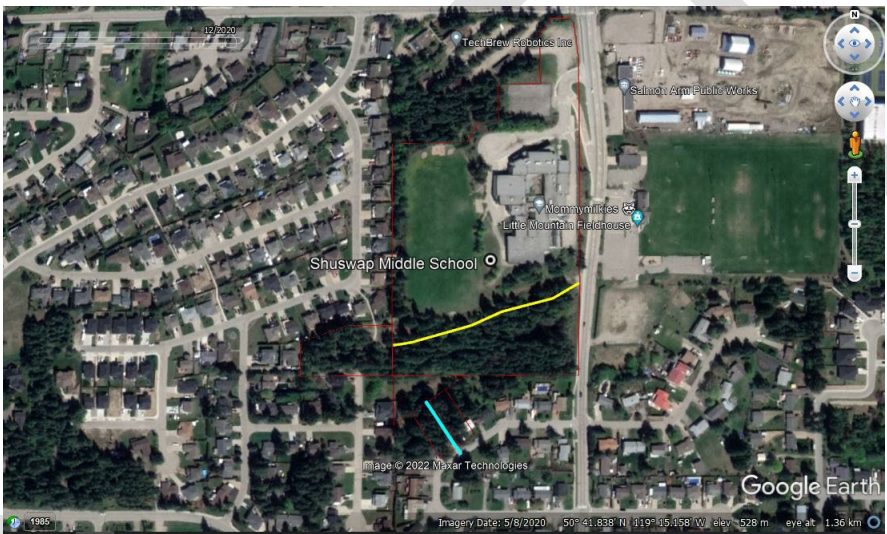


Trailforks heatmap of current use

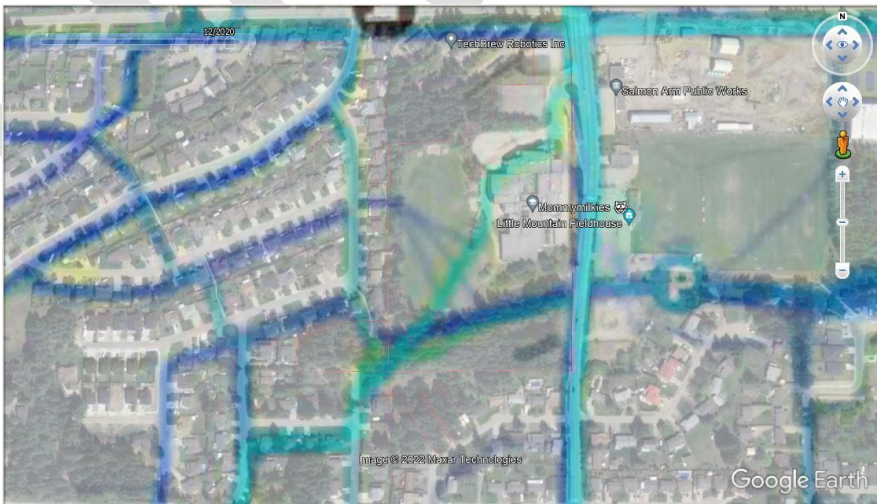
Shuswap Middle School

The trail alignment through the Shuswap Middle School campus will need further trail planning and will be a type 3 trail near the pond on the south end of the property connecting 27th St SE to 30th St SE. There is also an opportunity to connect 5th Ave SE to 27th ST SE via an easement between two houses onto City of Salmon Arm parkland.

Labour			
Section Name	Task/Description	Timeline	metres
Shuswap Middle School Campus	suvey	2024	225
	Trail Planning	2024	225
	Trail Constuction	2025	225
	5th ave trail constuction	2025	75



Shuswap Middle School Trail Planning Proposed

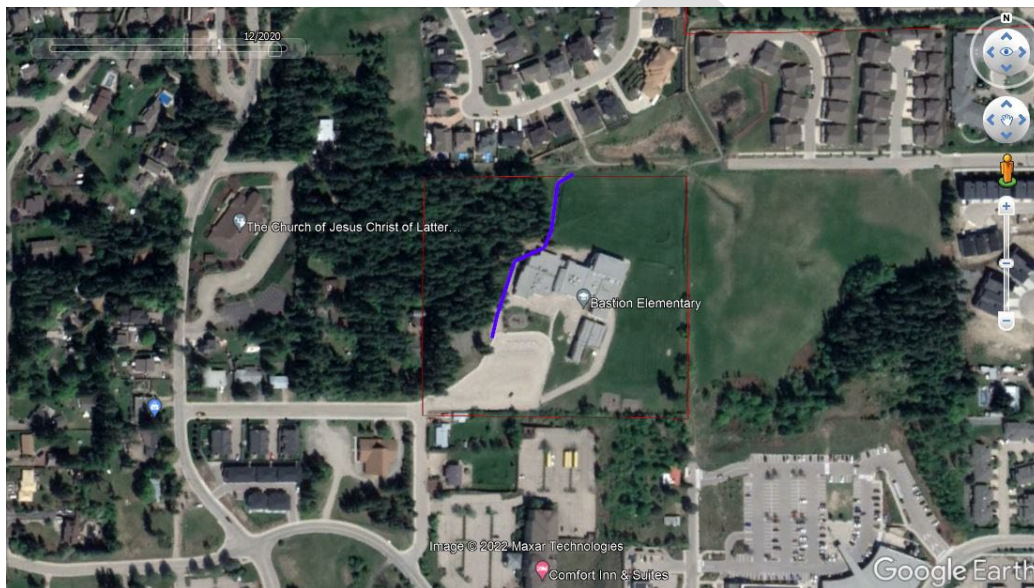


Trailforks Heatmap of existing use

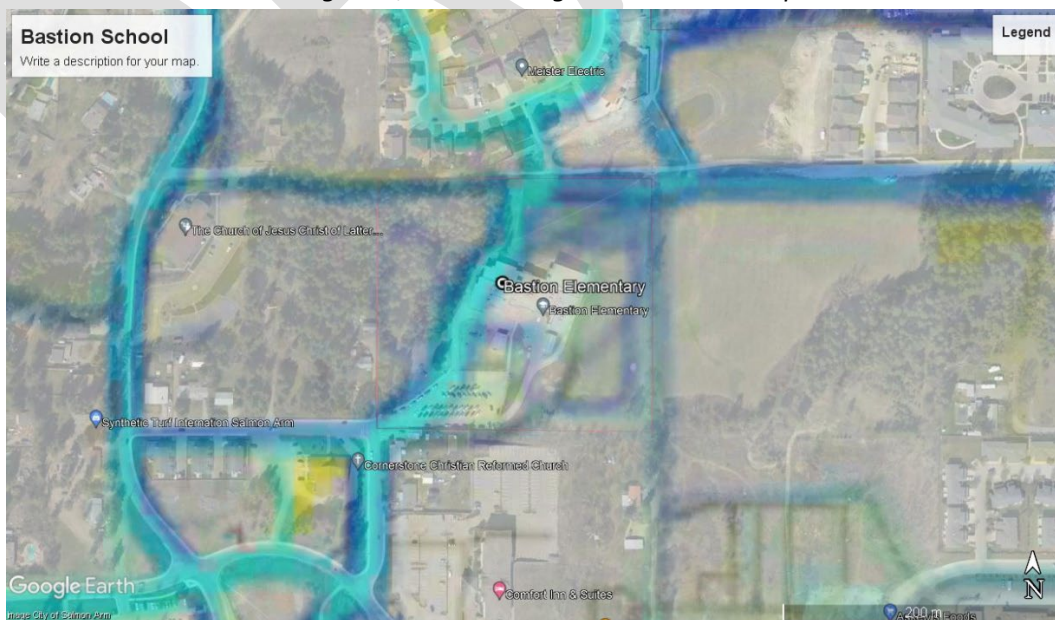
Bastion Elementary

There is existing City access along the western edge of the Bastion schoolyard. Most of this trail is paved, but there is a short section along the field fence, which is a type 2 trail, and is the only part that will need to be added into the City of Salmon Arm trail maintenance budget.

Labour			
Section Name	Task/Description	Timeline	metres
Bastion Campus	Survey	2026	160



Existing trail / route through the Bastion Campus



Trailforks heatmap of existing use.

Construction Standards:

All work will be completed to the Shuswap Trail Design Standards (STA, 2008. aka Provincial/Whistler/IMBA Standards, 2003). The suggested trail types, descriptions to follow, are Type 2 and Type 3.

Type 2 Trail

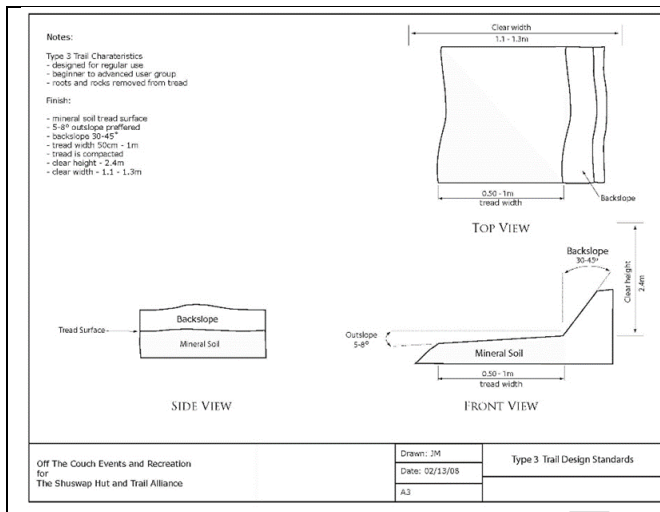
- surfaced double-track or single-track trail
- machine built
- remove all embedded trail obstacles
- use crushed limestone with fines, well-compacted gravel, or existing old roadbeds
- clear width to 5.0m for double-track and 1.6m for single-track trails
- clear height to 2.4m
-
- provide 2-3m tread width for double-track trails, 1m for single-track trails



Type 2 Trail Example

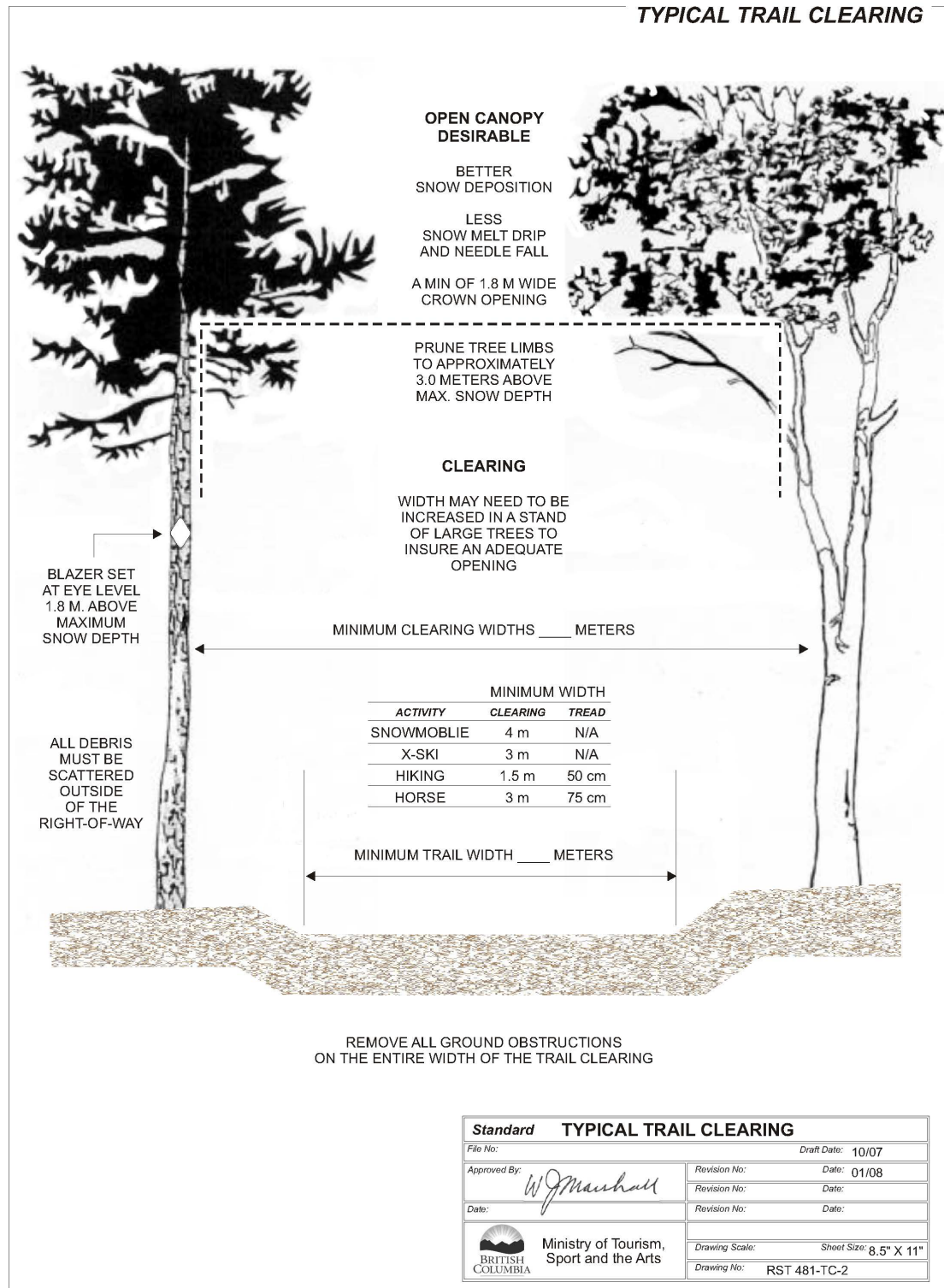
Type 3 Trail

- natural surface single-track trail
- may be machine built
- clear width to 1.1-1.3m
- clear height to 2.4m
- provide 50-70cm tread width on native soil



Type 3 Trail Standard

TYPICAL TRAIL CLEARING



Standard TYPICAL TRAIL CLEARING	
File No:	Draft Date: 10/07
Approved By: <i>WJ Marshall</i>	Revision No: Date: 01/08
Date:	Revision No: Date:
 Ministry of Tourism, Sport and the Arts	Drawing Scale: Sheet Size: 8.5" X 11"
	Drawing No: RST 481-TC-2

RST 481-TC-2 - Rev. 01/08

Trail Sign Standards:

4X4 post sign	6X6 post sign
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