





North Road Context

Legend

- Proposed Village Trail
- Land Use
  - Residential
  - Commercial
  - Institutional
  - Parks
  - Agricultural
  - Gabriola Commons
- Driveway entrance
- Connecting trails
- Gertie stop
- Road intersection

Gabriola's Village Trail

Why a roadside trail?
- To provide a safer environment for pedestrians and cyclists.
- To promote community health by encouraging walking and cycling.
- To reduce green house gas emissions by supporting human-powered transportation.

Why along North Road?
- To connect the businesses and community amenities of Gabriola's village core.
- To provide a safer non-vehicular option along Gabriola's busiest thoroughfare.
- To promote a pedestrian friendly, attractive village core environment that is both a community amenity and visitor attraction.

Why the north side of North Road?
- Generally, there is a wider right of way available on the north side. The trail will be constructed within the Ministry of Transportation and Infrastructure right of way.
- It is the sunny side of the road.
- There are more commercial and institutional properties on the north side.
- There is direct access to the elementary school and seniors' housing.
- There are fewer hydro poles than the south side.
- Keeping the trail on one side of the road increases efficiency of travel, and avoids the additional safety risk of crossing North Road.

What are the proposed design goals & decision criteria?

Safety First:
The trail route will be designed with safety as paramount. Potential conflicts and hazards will be minimized. The route will be clear and easy to use.

Multi-use:
The trail surfacing and width will be designed as bidirectional, and to accommodate the needs of multiple user types and ability. Wheelchairs, walking and recreational cycling are the priority uses. The trail will not be designed for vehicles (including service or emergency vehicles). The trail will also be designed to allow room for a future on-street bike lane for commuter cyclists, if possible.

Invest Wisely:
Materials and design elements will be chosen with consideration of life-cycle costs and benefits, including capital costs, maintenance costs, and life-span of materials. Allow for a phased approach if necessary.

Connect and Create Places:
The trail is an exciting opportunity to add a pedestrian connecting element to Gabriola's Village Core, linking many businesses and community destinations. Consider both the existing Village Core and potential future improvements. Design the trail so it is also an attractive amenity in and of itself, adding appeal and interest for both the community and visitors.

Environmental Responsibility:
Design the trail with consideration of our natural resources, such as trees, groundwater quality, and water use. Choose materials with consideration of local availability, carbon footprint of production, and safety for the environment.

What are the funding sources for the trail?

Funding for the trail design and construction is through the federal Community Works Fund, which supports projects that improve public infrastructure and reduce greenhouse gases.

When will the trail be constructed?

Design will continue through the summer. Construction could begin as early as 2015.

The Village Trail

Gabriola's Village Core Multi-Use Pathway

TOPOGRAPHICS
landscape architecture
March 29, 2014

Regional District of Nanaimo
Recreation and Parks

The Village Trail

Gabriola's Village Core Multi-Use Pathway

Concept Design Phase

Area 1

1 A1 Area 1 - Section 1 _ Existing Conditions

3 A1 Area 1 - Section 3 _ Existing Conditions

Area 1 - Site Plan
1:250

- Proposed trail alignment
- Swale, re-seeding, or re-seeded fill slope
- Retaining wall or boardwalk structure + guardrail
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- Potential future bike lane allowance (1.2m)
- Seating
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- Existing signage + structures
- Existing hydro poles + utilities

Key Plan

March 29, 2014

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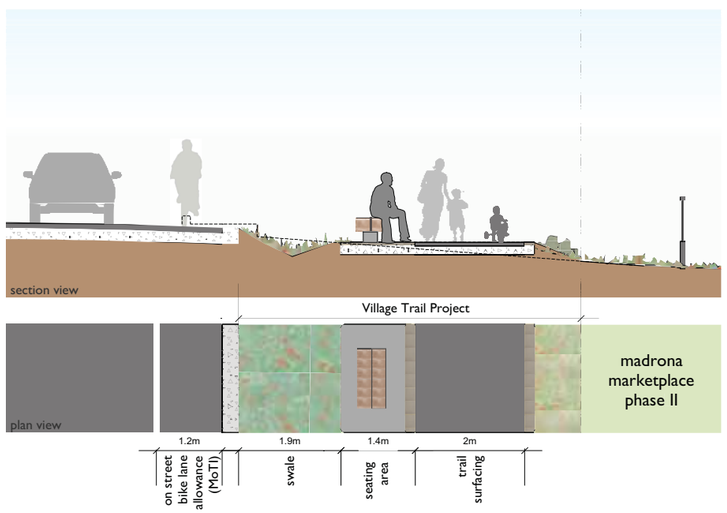
REGIONAL DISTRICT OF NANAIMO
RECREATION AND PARKS



1 A1 Area 1- Section 1
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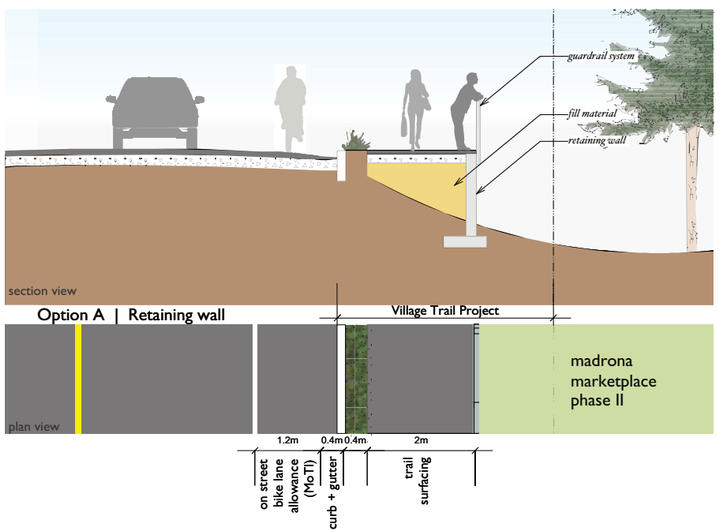

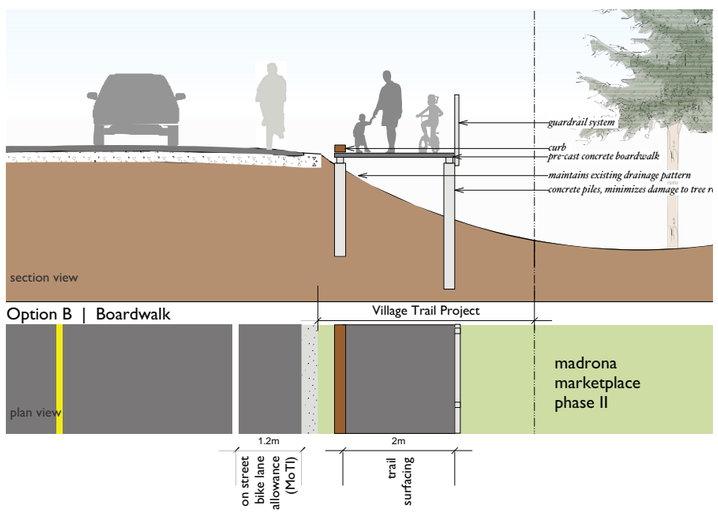

3 A1 Area 1- Section 3
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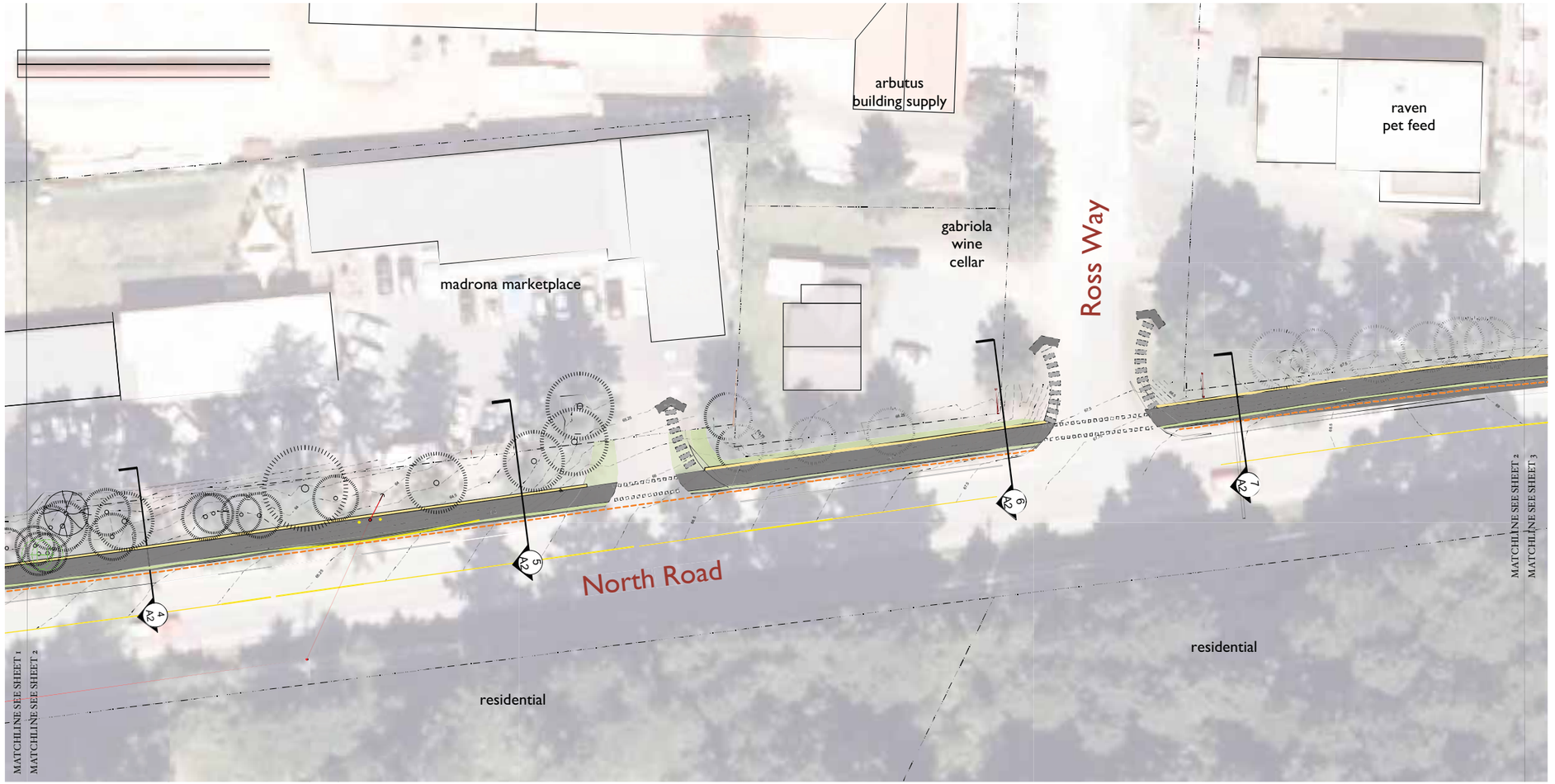
The Village Trail

Gabriola's Village Core Multi-Use Pathway

Concept Design Phase

Area 2



Area 1 - Site Plan
1:250

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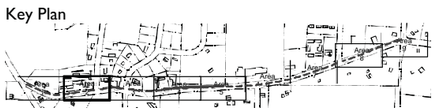

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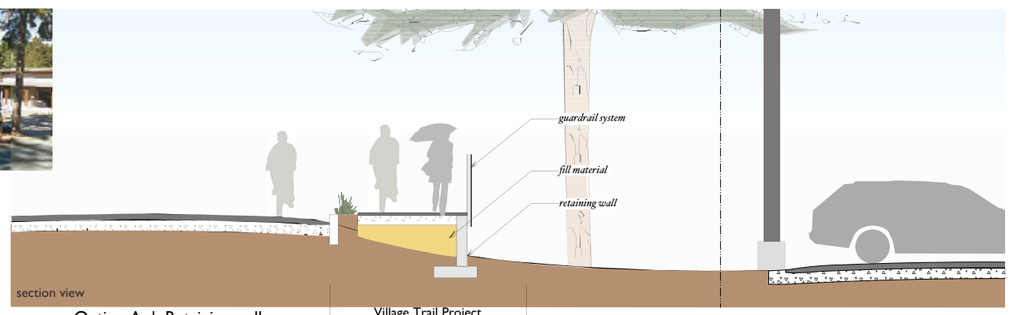
Section 5 _ Existing Conditions



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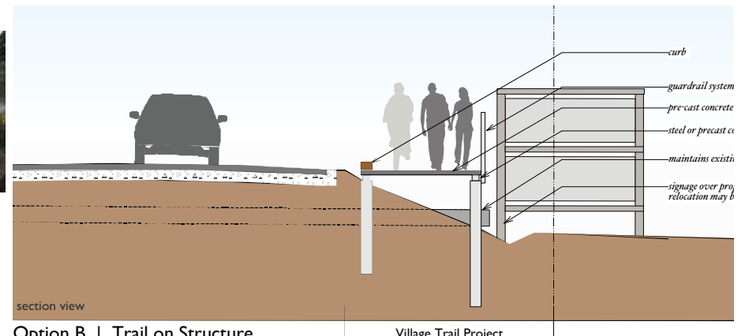
Section 7 _ Existing Conditions



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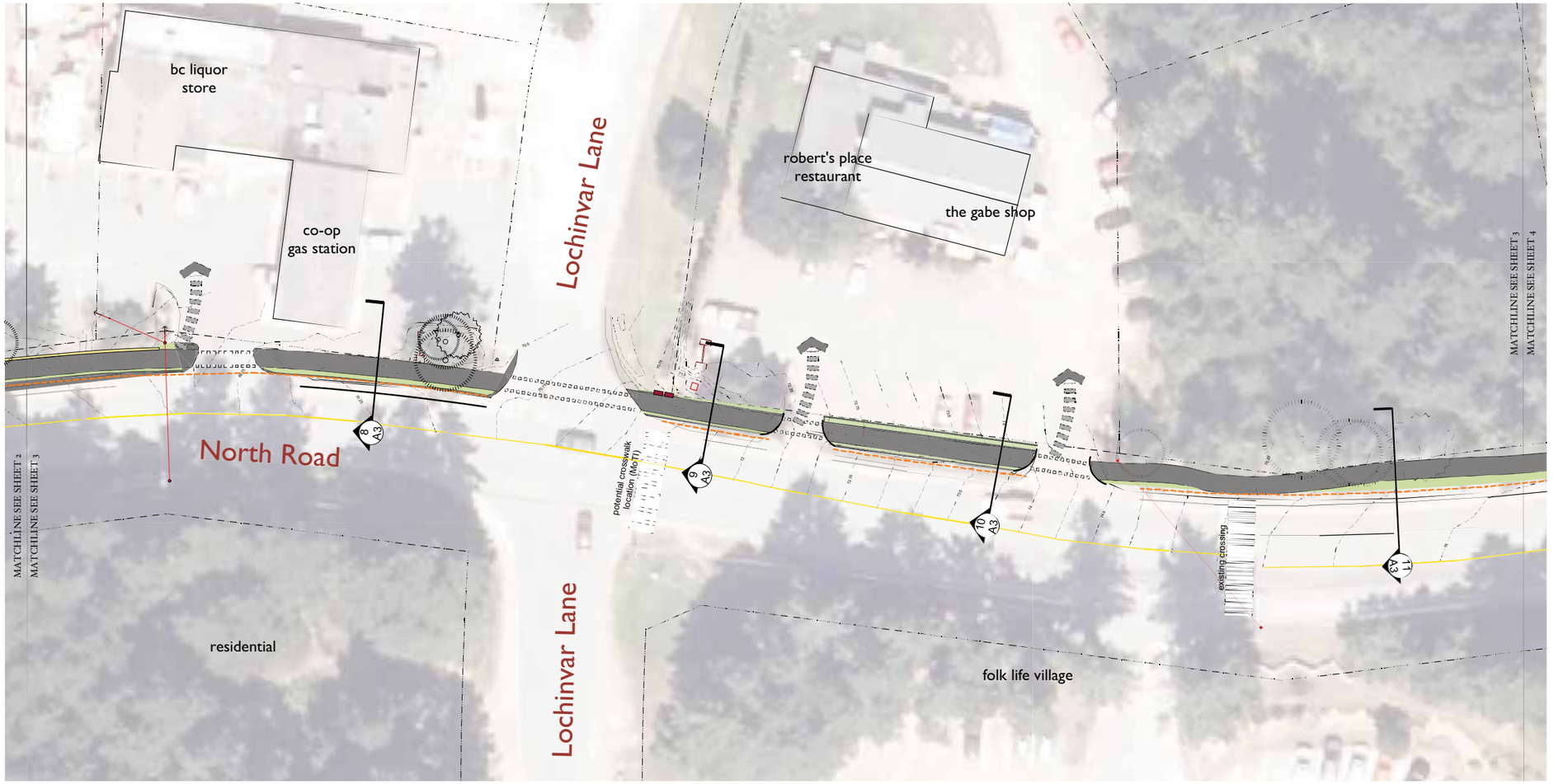
The Village Trail

Gabriola's Village Core Multi-Use Pathway

Concept Design Phase

Area 3



Area 3 - Site Plan
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Key Plan

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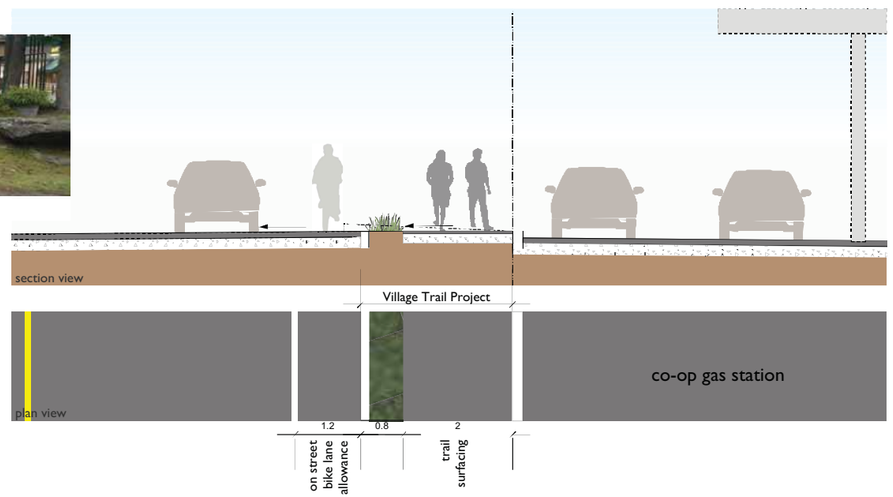
Section 8 _ Existing Conditions



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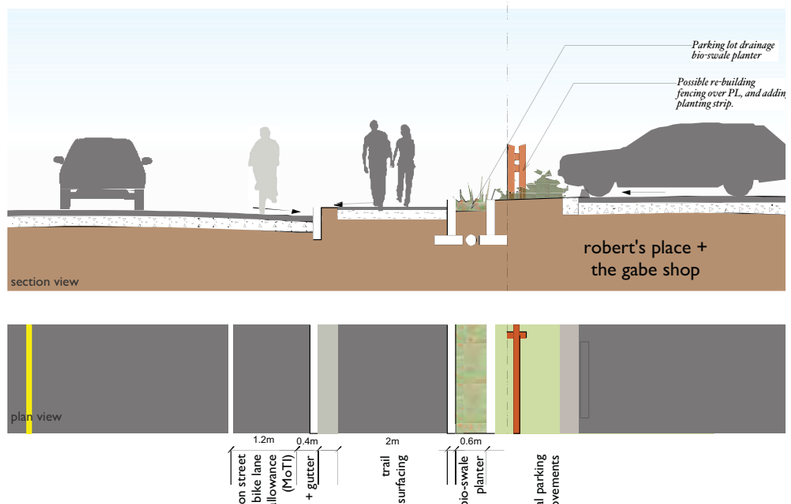

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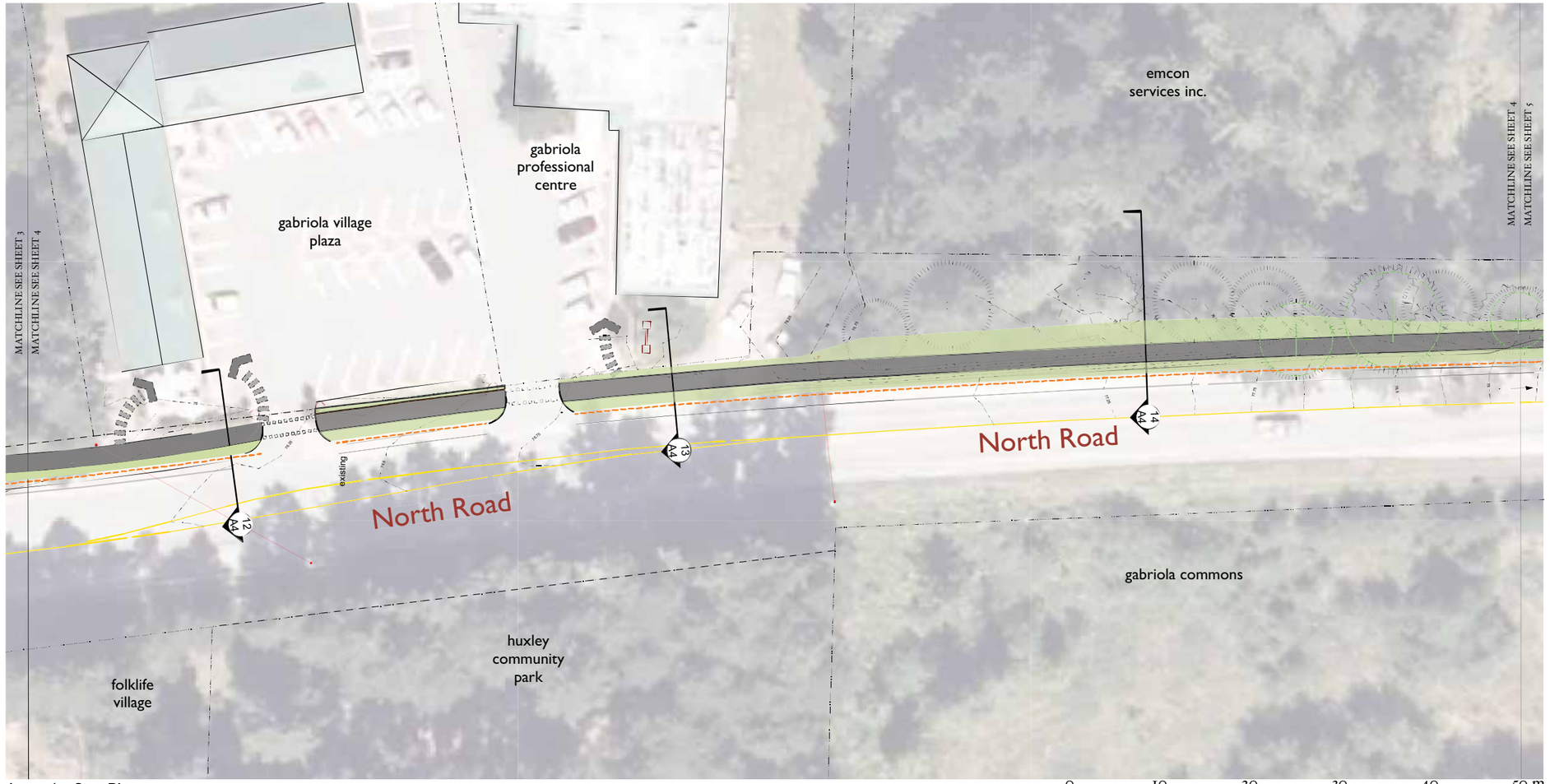
The Village Trail

Gabriola's Village Core Multi-Use Pathway

Concept Design Phase

Area 4



Area 4 - Site Plan

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March 29, 2014

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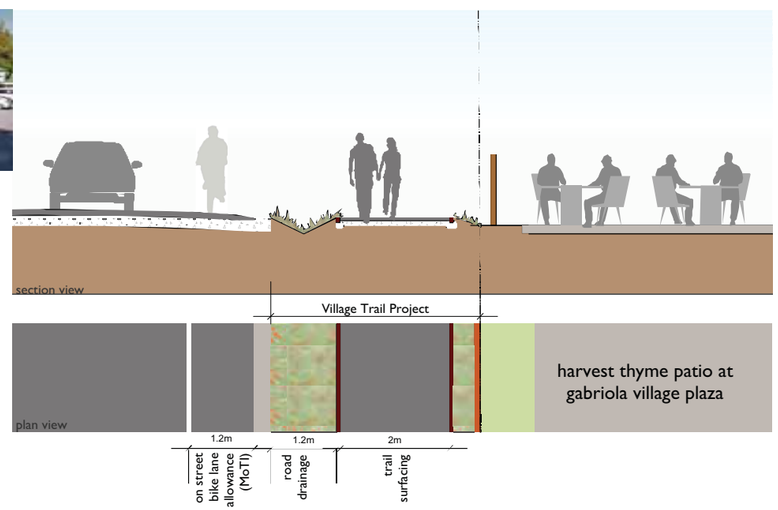
Section 12 _ Existing Conditions



12 A4 Section 12

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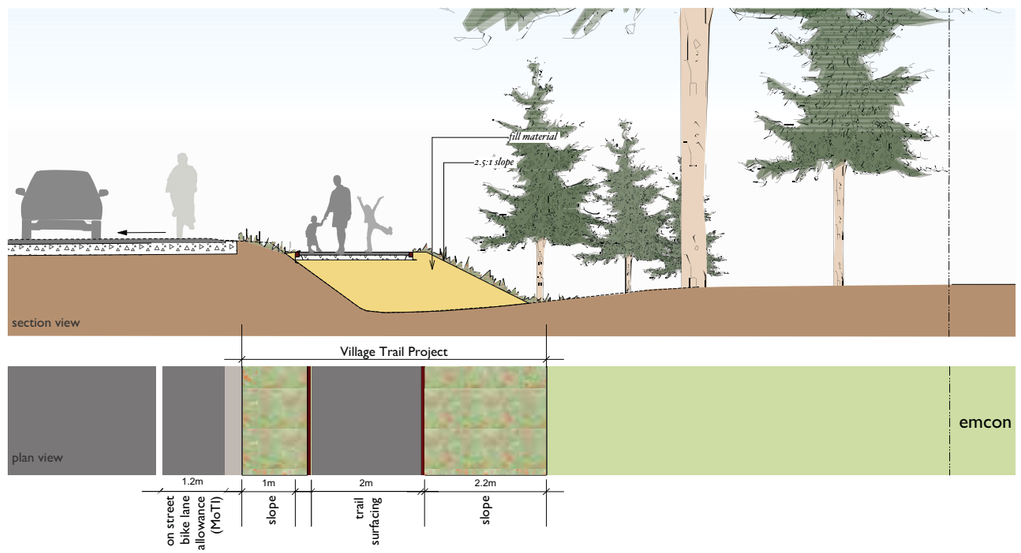
Section 14 _ Existing Conditions



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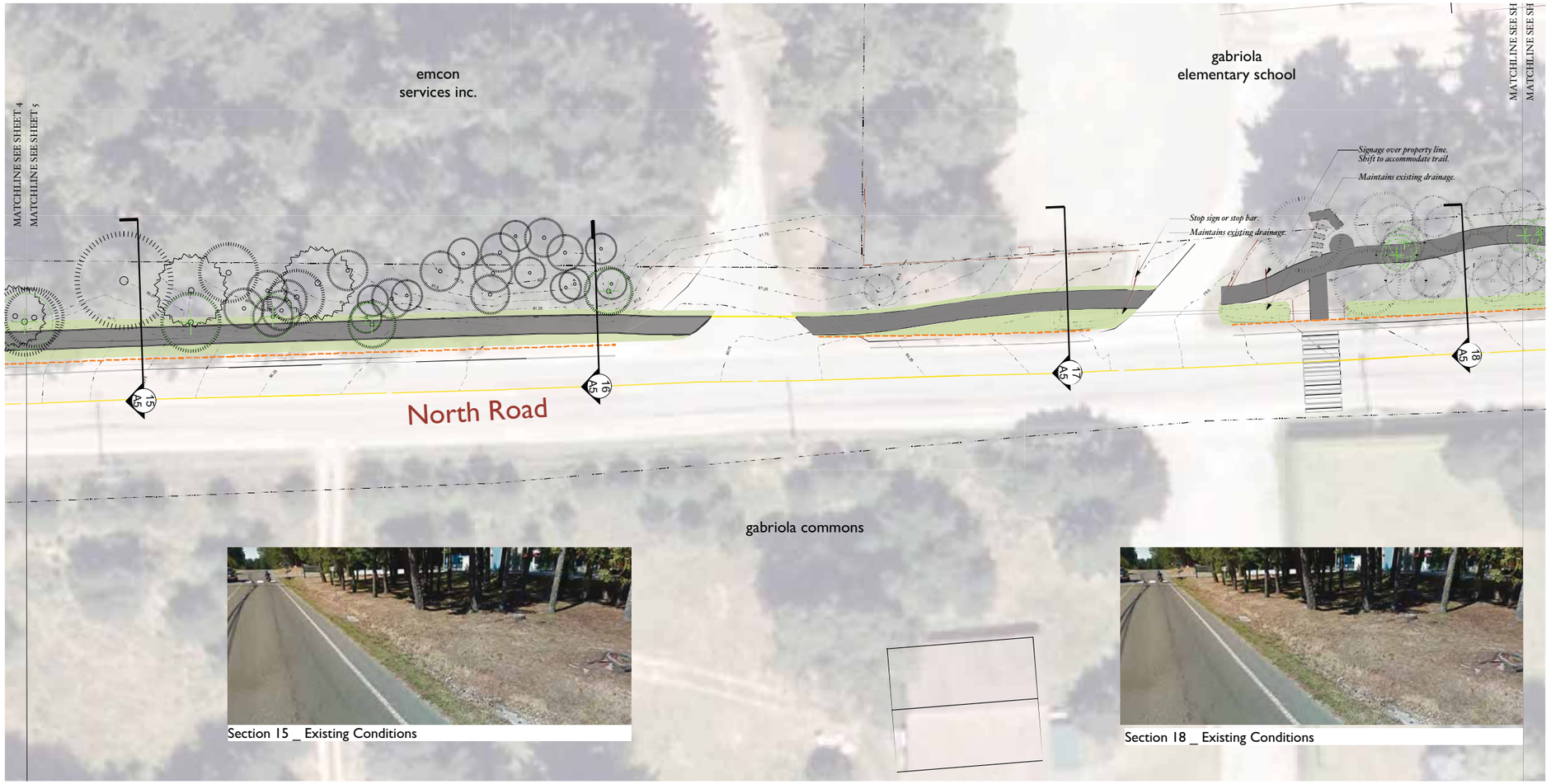
The Village Trail

Gabriola's Village Core Multi-Use Pathway

Concept Design Phase

Area 5



Section 15 _ Existing Conditions

Section 18 _ Existing Conditions

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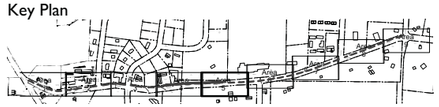

March 29, 2014

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Area 5 - Site Plan
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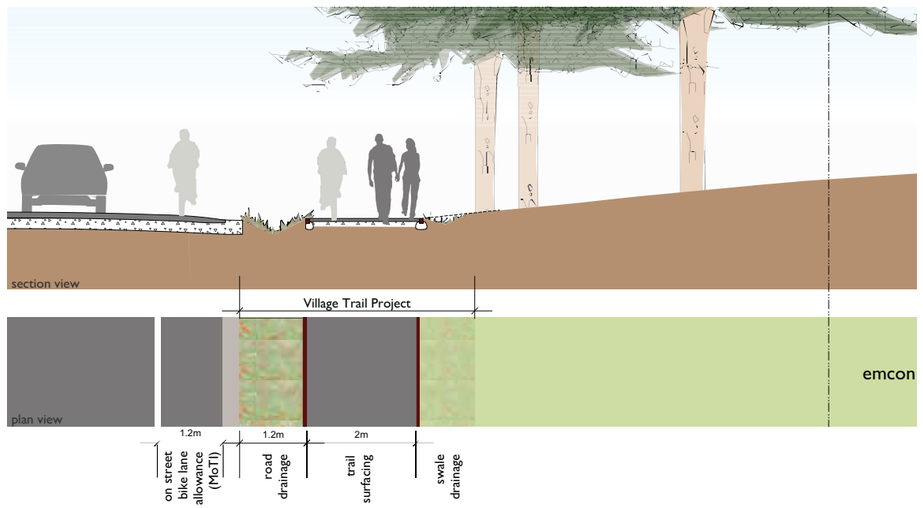

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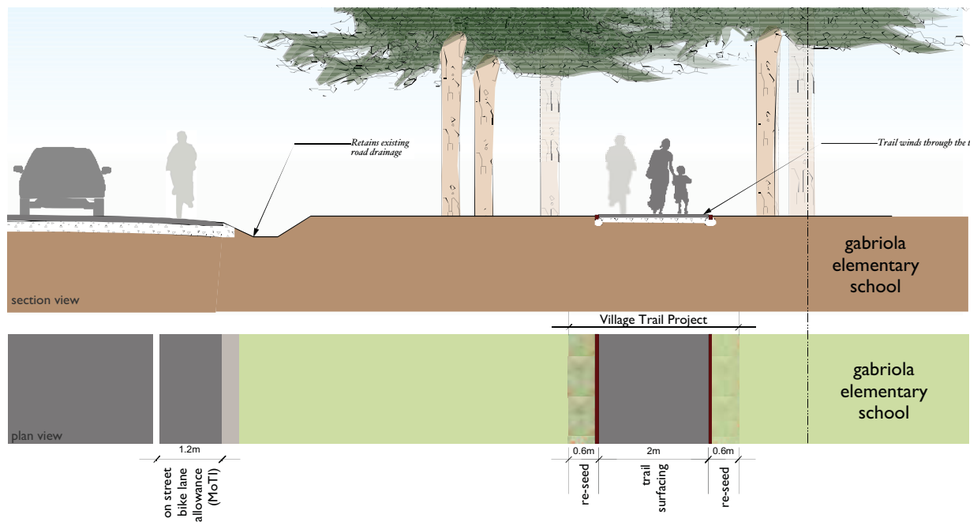

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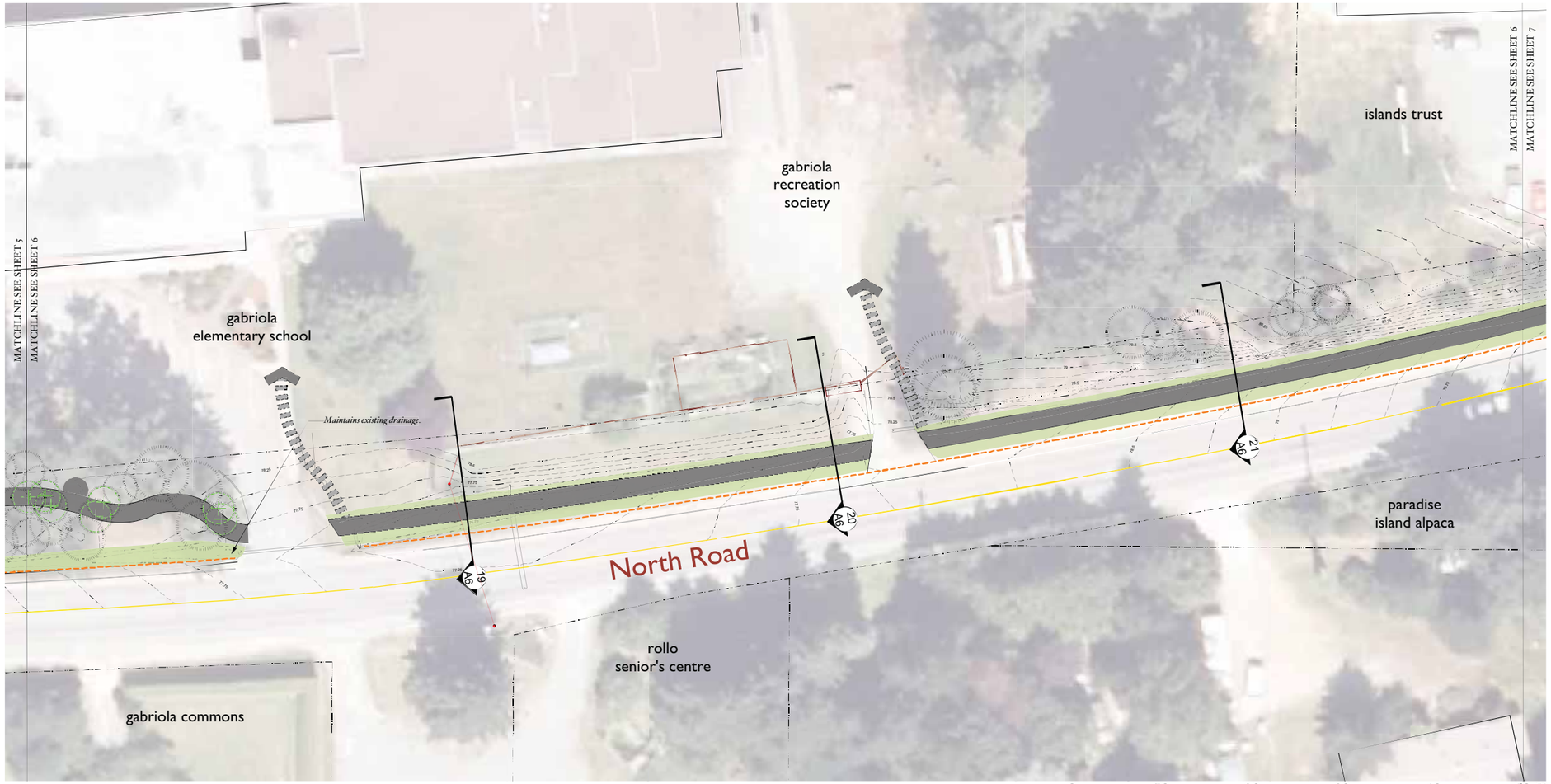
The Village Trail

Gabriola's Village Core Multi-Use Pathway

Concept Design Phase

Area 6



Area 6 - Site Plan
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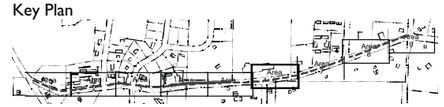

March 29, 2014

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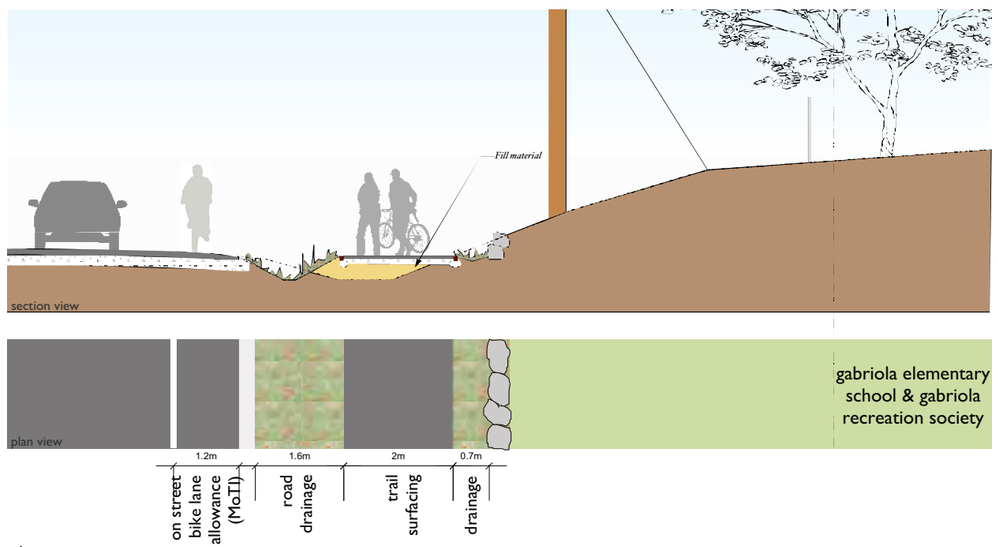
REGIONAL DISTRICT OF NANAIMO
RECREATION AND PARKS

Section 19 _ Existing Conditions



19 A6 Section 19
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Section 21 _ Existing Conditions

21 A6 Section 21
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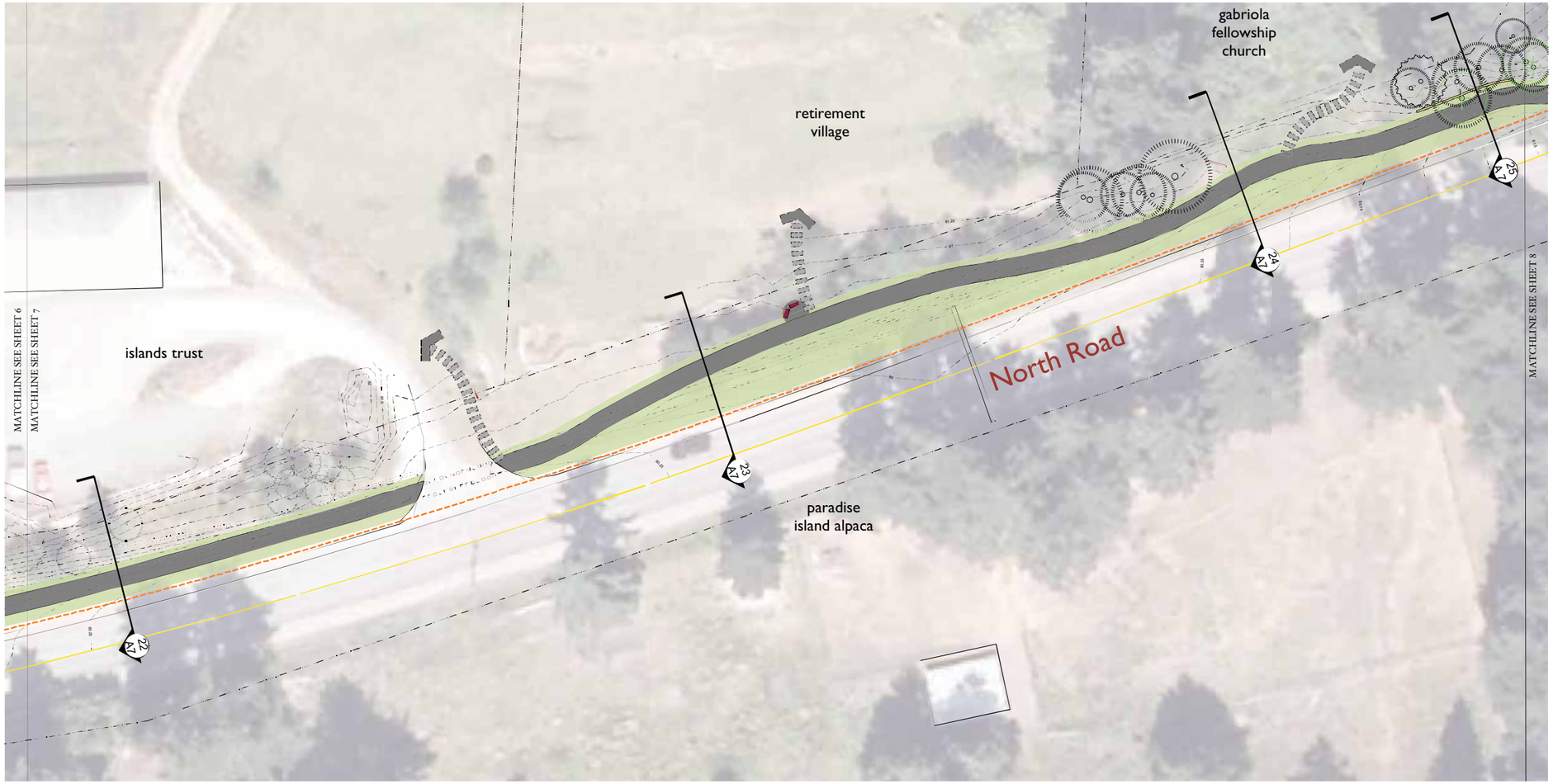
The Village Trail

Gabriola's Village Core Multi-Use Pathway

Concept Design Phase

Area 7



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1:250

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March 29, 2014

TOPOGRAPHICS
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REGIONAL DISTRICT OF NANAIMO
RECREATION AND PARKS

Section 23 _ Existing Conditions

19 A6 Section 23

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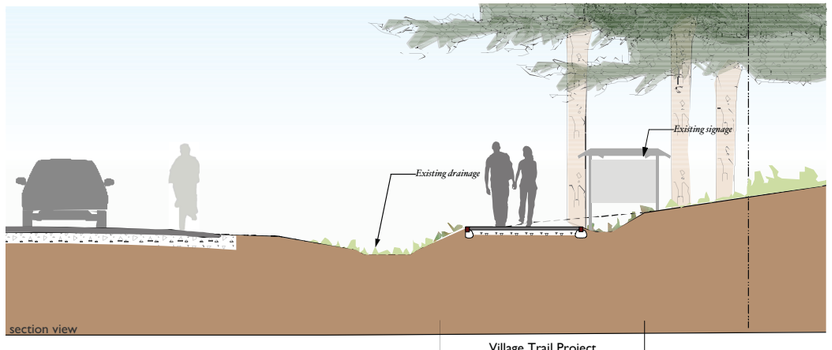
Section 24 _ Existing Conditions



21 A6 Section 24

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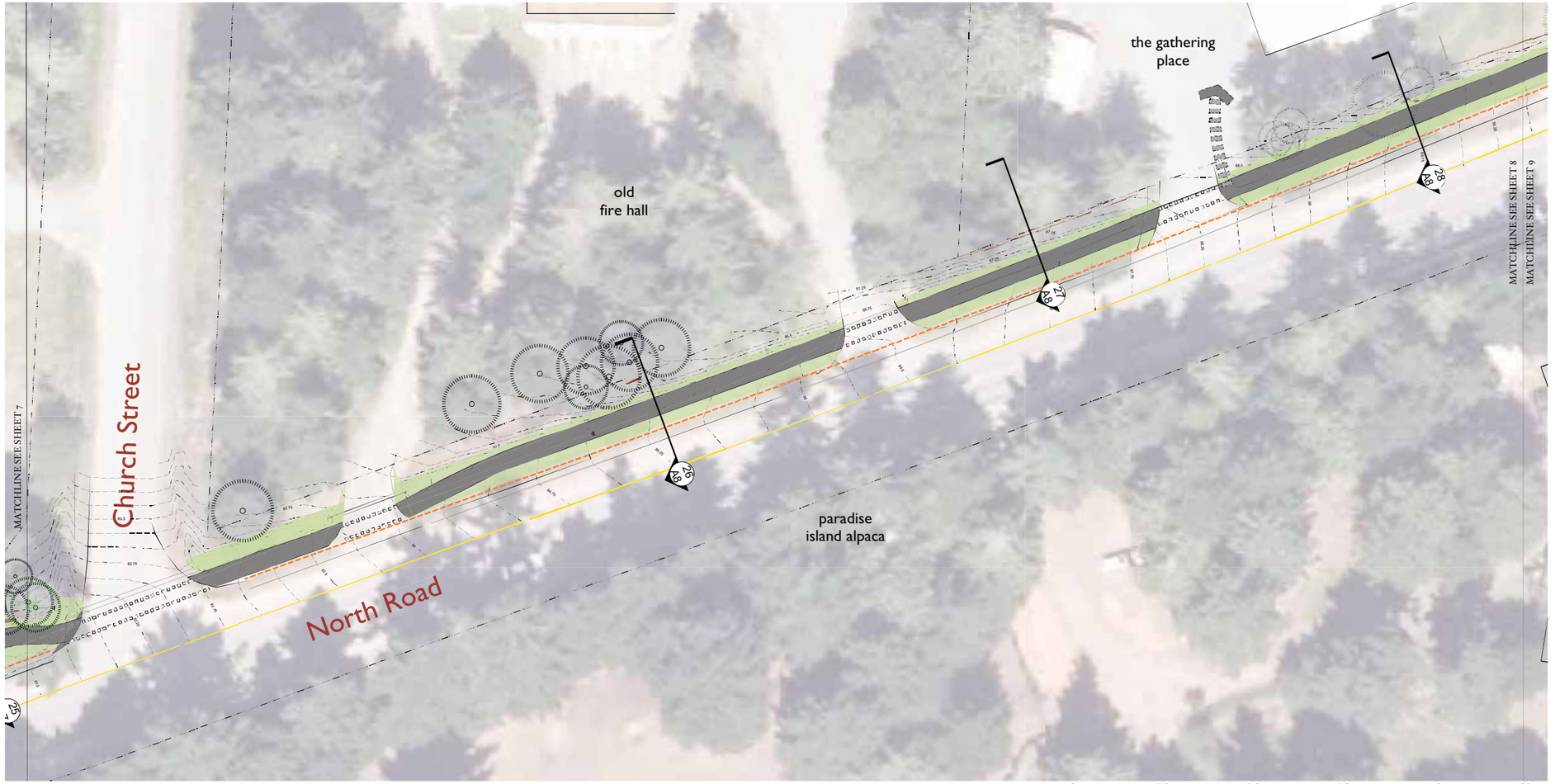
The Village Trail

Gabriola's Village Core Multi-Use Pathway

Concept Design Phase

Area 8



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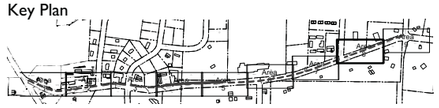

March 29, 2014

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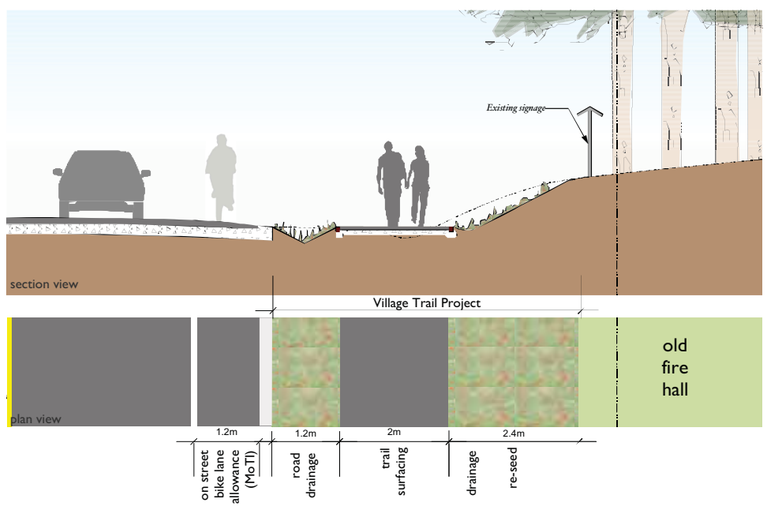
REGIONAL DISTRICT OF NANAIMO
RECREATION AND PARKS

Section 26 _ Existing Conditions



26 A8 Section 26
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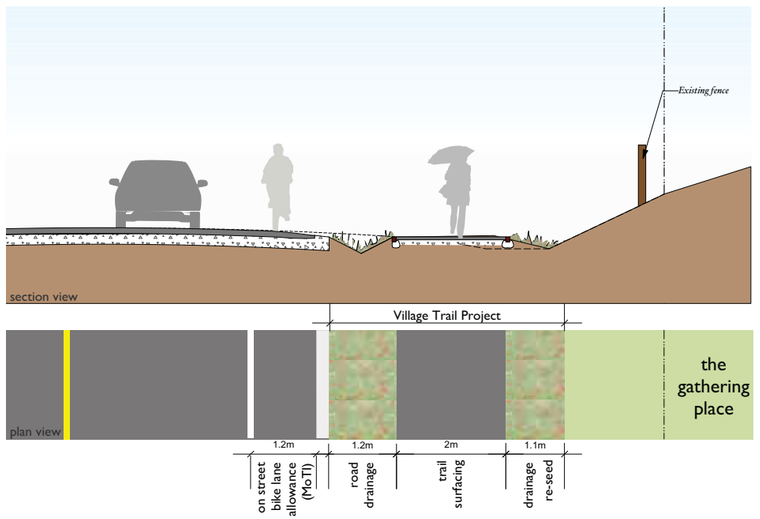
Section 27 _ Existing Conditions



27 A8 Section 27
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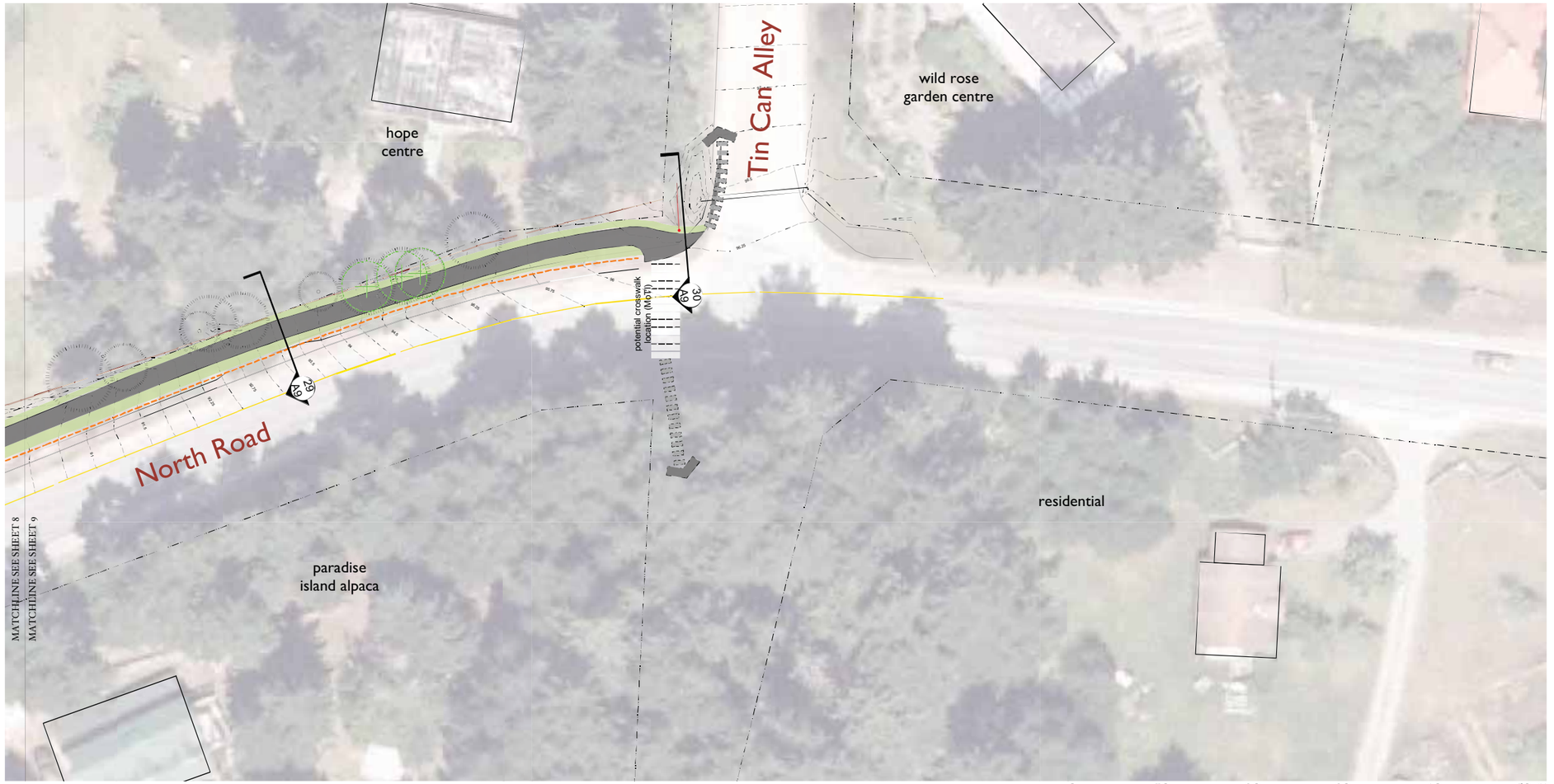
The Village Trail

Gabriola's Village Core Multi-Use Pathway

Concept Design Phase

Area 9



Area 9 - Site Plan

1:250

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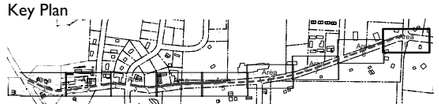

March 29, 2014

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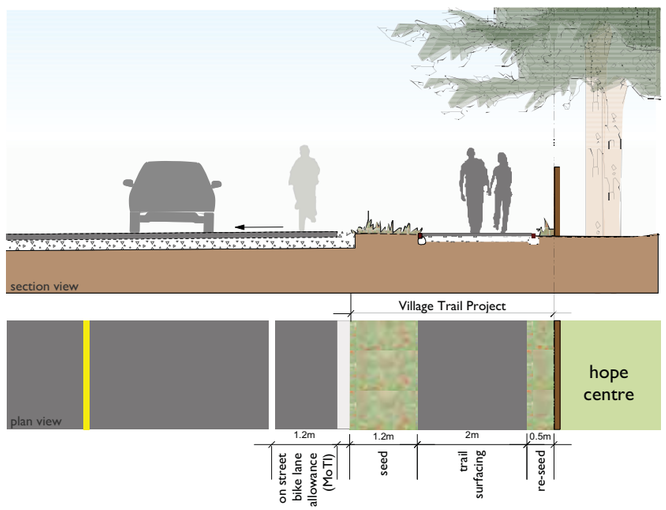
RECREATION AND PARKS

Section 29 _ Existing Conditions



29 A9 Section 29

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Surfacing Options

Surface Material		Cost Considerations	User Experience	Environmental Considerations
Compacted crushed gravel with fines.		Less expensive to install than asphalt. Higher maintenance than asphalt. Periodic replenishment and resurfacing required to maintain compact surface, with no ruts and puddles. Weeds and plant growth can occur. Durability: 2-5 years depending on maintenance. Tendency to allow ruts and puddles.	• Softer surface, preferred by runners. • Can be rougher for wheels. • Attractive material, although can be weedy. • Pleasant sound when walked on. 	• Can be more locally sourced. • Somewhat permeable.
Asphalt		More expensive to install than gravel. Maintenance includes patching cracks and potholes. Durability: estimated at 10-15 years before needing repairs.	• Smooth finish, good for wheels. • Can be painted with a edge stripe or other pavement markings for night-time visibility. 	• Contains petroleum products • High embodied energy. • Not permeable, trail drainage shoulder or swale necessary.

Edging Options for Village Core

No Edging _ Standard for east of Professional Centre

Option B_ Brick-like

Option C_ Concrete Pavers

Option A_ Irregular Concrete Pavers

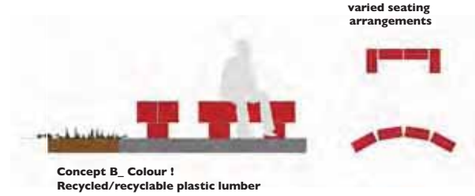
Slope Retention Options

Material		Cost Considerations	Environmental Considerations
Gabriola Sandstone Many styles are possible.		To support a guardrail and for durability, a well-crafted wall will be required. However, with inexpensive local sandstone material available, the cost is comparable or less expensive than concrete options.	Locally sourced - less carbon for transportation. May require a wider footprint for construction than concrete options- may require removal of more trees.
Concrete block Many styles are possible.		Easy to install, inexpensive material. Requires shipping to Gabriola.	Concrete is a high embodied energy material. Shipping to Gabriola is required. Likely a narrower construction footprint than stone wall options - potentially less damage to trees.
Cast in Place Concrete Wall Many styles are possible.			Concrete is a high embodied energy material. Shipping to Gabriola is required. Likely a narrower construction footprint than stone wall options - potentially less damage to trees.
Structure Post and beam structure. Non-slip, durable materials. Many design variations are possible.		Generally more costly than the retaining wall options. Costs dependant on final design and materials. Wood is problematic for durability, maintenance, and slip-resistance. Alternative decking materials include pre-cast concrete planks, and recycled plastic lumber.	Minimizes damage to tree roots. Maintains existing drainage pattern.

Seating Style Concepts

Concept A_ Gabriola-made Chunky Wood and Concrete

Modular for varied seating arrangements



Concept B_ Colour ! Recycled/recyclable plastic lumber

Concept C_ Custom made Wood and metal

Concept D_ Traditional Wood and metal

Guardrail Style Concepts

Option A_ Wood + Cable

Option B_ Wood + Metal Mesh

Option C_ Wood and metail rails

Option D_ Wood rails

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RECREATION AND PARKS