



# Committee of the Whole

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**Committee of the Whole**  
to be held at  
City of Penticton, Council Chambers  
171 Main Street, Penticton, B.C.

**Tuesday, May 2, 2017**  
**Recessed from the Regular Council Meeting at 1:00 p.m.**

1. **Call Committee of the Whole to Order**
2. **Adoption of Agenda**
3. **Delegations and Staff Presentations:**
  - 3.1 Proclamation – National Hospice Palliative Care Week  
May 7 – 13, 2017 1
  - 3.2 RDOS – Amendment of Solid Waste Management Plan  
Cameron Baughen, RDOS Solid Waste Management Coordinator 2-3
  - 3.3 Penticton Creek Restoration Master Plan and 2017 Project Delegation  
Ian Chapman, City Engineer and Bryn White, Chair of Penticton Creek Restoration Committee 4-27
4. **Adjourn to Regular Meeting of Council**

# Proclamation

penticton.ca

## National Hospice Palliative Care Week May 7-13, 2017

**WHEREAS** we are often afraid to talk about end of life care issues because it is about the unknown; and

**WHEREAS** Hospice Palliative Care is about living your life, and living it well, right to the end; and

**WHEREAS** palliative care is care that aims to relieve suffering, while improving the quality of living and dying, and to lessen loneliness and grief for those living with chronic and life-limiting illnesses; and

**WHEREAS** a patient does not have to be designated 'palliative' to benefit from palliative care. You can start a discussion about protecting their quality of life as soon as possible; and

**WHEREAS** Moog & Friends Hospice House is stewarded by The Penticton and District Hospice Society to provide compassionate care, support, and education to ease the journey of grief and dying; and

**WHEREAS** the dedicated staff and volunteers at the Moog & Friends Hospice House work hard to create a community where no one grieves or dies alone.

**Now, Therefore** I, Andrew Jakubeit, Mayor of the City of Penticton, DO HEREBY PROCLAIM May 7-13, 2017 as "**National Hospice Palliative Care Week**" in the City of Penticton.

A handwritten signature in black ink, appearing to read "Andrew Jakubeit", is written over a horizontal line.

Mayor Andrew Jakubeit

March 29, 2017

File No.: 0620.07  
Solid Waste Management Plan

Mayor Andrew Jakubeit  
City of Penticton  
171 Main Street  
Penticton, BC V2A 5A9

APR 05 2017

Dear Mayor Jakubeit:

**Re: Amendment of Solid Waste Management Plan and Request for Delegation**

The Regional District of Okanagan-Similkameen has commenced the process to amend the Regional Solid Waste Management Plan. The Regional District is requesting permission to appear as a delegation to a Penticton City Council meeting to present on this amendment process.

The main purpose of the amendment is to choose a site for a Regional Compost facility at one of two potential locations. One potential site is located within the Penticton Indian Band Reserve near Highway 3A and the other location is beside the District of Summerland Landfill. These sites were determined to be the preferred sites for a Regional composting operation for residential and commercial food scraps, wastewater treatment sludge, yard waste and wood waste.

Public consultation will be focused on the following potential projects:

- Siting of a Regional Compost site within the Locatee area at 2760 Marron Valley Road;
- Siting of a Regional Compost site adjacent to the Summerland Landfill;
- Development of a turned windrow operation at the Summerland Landfill for just residentially collected food waste from the Summerland area;
- Development of a turned windrow operation at the Oliver Landfill for just residentially collected food waste from Oliver, Osoyoos and Electoral Areas 'A' and 'C';
- Supply and use of carts for the residential collection of waste and compostables in Municipalities outside Penticton and RDOS Electoral Areas;
- Use of a biocover at the Campbell Mountain Landfill for the mitigation of landfill gas;
- Any concerns raised by the public related to current Solid Waste services.

At some point, the Regional District will discuss banning organics entering the Campbell Mountain Landfill following the development of a facility that can compost food waste. This facility would affect residents and businesses within the City of Penticton. Additionally, the facility would have the potential to accept wastewater treatment sludge from the City of Penticton for composting. An intent of the public consultation is to assist the Board in determining public acceptance of this type of change.

The Regional District has currently scheduled an Open House on April 24<sup>th</sup> at the Penticton Library Auditorium from 6 pm to 9 pm. A presentation is planned that will focus on the work being done at the Campbell Mountain Landfill at 7 pm.

If you have any questions or wish to set a delegation date, please contact Cameron Baughen, RDOS Solid Waste Management Coordinator, at 250-490-4203 or [cbaughen@rdos.bc.ca](mailto:cbaughen@rdos.bc.ca).

Sincerely,



Karla Kozakevich,  
RDOS Chair

APR 02 2017



# Penticton Creek Update Presentation to Penticton City Council May 2nd, 2017





## Updates in this presentation address:

- Overview of background work.
- The Penticton Creek Master Plan.
- Construction work planned for this Summer.



## Background: Objectives for Penticton Creek

- Return Penticton Creek to a more healthy stream state - restore fish and riparian habitat.
- Address existing failing flood protection infrastructure, and meet or exceed existing flood protection measures.
- Improve aesthetic and social values.
- Increase economic contributions to the local community.
- Be consistent the Downtown Plan - Penticton Creek is an important natural amenity.
- Be consistent with OCP promotion of critical species habitat and the restoration of fish stocks in Okanagan Lake.
- Respect First Nations cultural and heritage values.
- Build on success of the 2015 Showcase Project.



## **Penticton Creek Master Plan Goal:**

Feasible, multi-stage plan that encompasses the restoration objectives of the creek (ecological, economic, infrastructure), reflects multi-stakeholder values, and First Nations Rights and Title. All arranged in achievable, short term and long term efforts.

Master Plan guided by the Penticton Creek Restoration Committee.



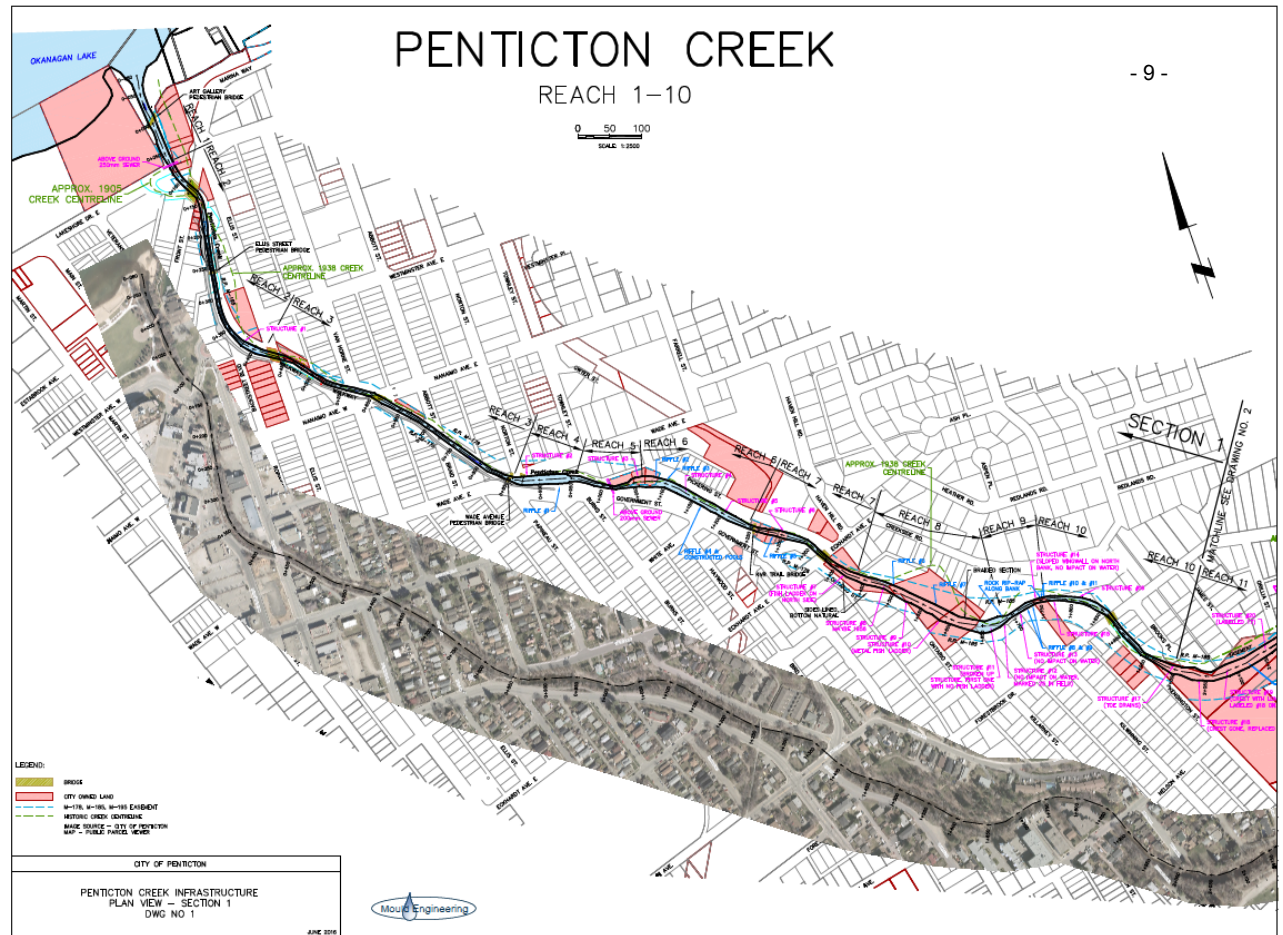
## Contents

- Design flow criteria – maximum flow of water that must be accommodated.
- Convenient, logical sections (reaches) for analysis and reporting.
- Inventory of current creek channel characteristics - physical features that influence flood risk and fish habitat by reach.
- Incorporates a report on PIB Cultural Heritage Inventory Mapping by reach.
- Provides results of hydraulic analysis and identifies restoration options by reach.
- Provides estimated costs by reach and identifies potential funding strategies.
- Provides a implementation strategy prioritized according to flood control and fish habitat improvement objectives.
- Incorporates lessons learned from the completed showcase section just upstream of Ellis Street bridge.



# Project Location & Organization

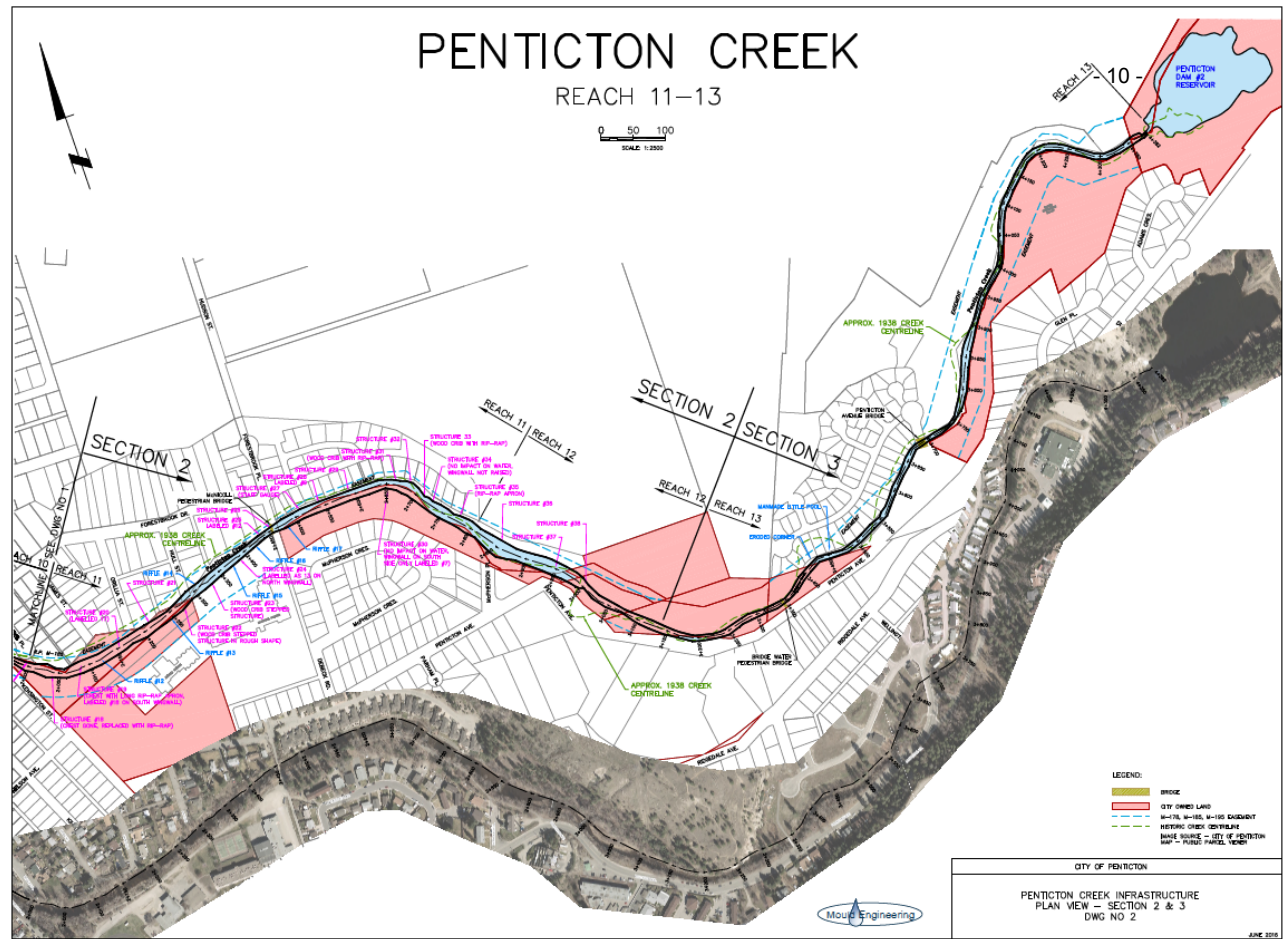
## Section 1





# Project Location & Organization

## Sections 2 & 3



**Physical Features:  
concrete lining (some deteriorating),  
bridges and utility structures.**



**Physical Features:  
rock riffles, concrete apron and  
crest, wooden cribbing and rip rap.**



## Flood Control – Considerations

- Provincial government standards for bridge clearance and bank freeboard have been accepted
  - Bank Freeboard
    - 0.6 m above the maximum daily flood
    - 0.3 m above the instantaneous flood
    - When raising water levels, numerous factors will need to be considered
  - Bridge Clearance
    - Improve bridge clearance where possible
    - With a debris management program, bank freeboard minimums are acceptable under bridges
- Raising the creek bed below a structure is an approved replacement option
- A low flow management strategy could be developed

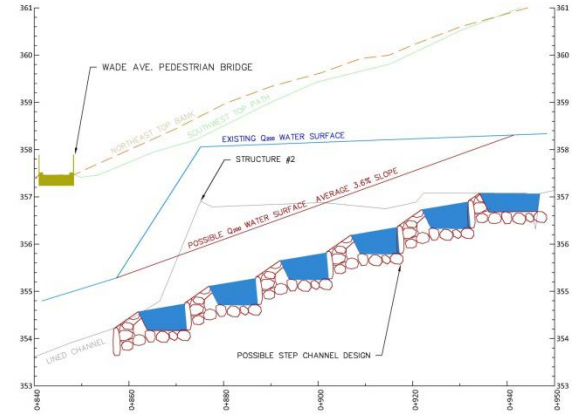
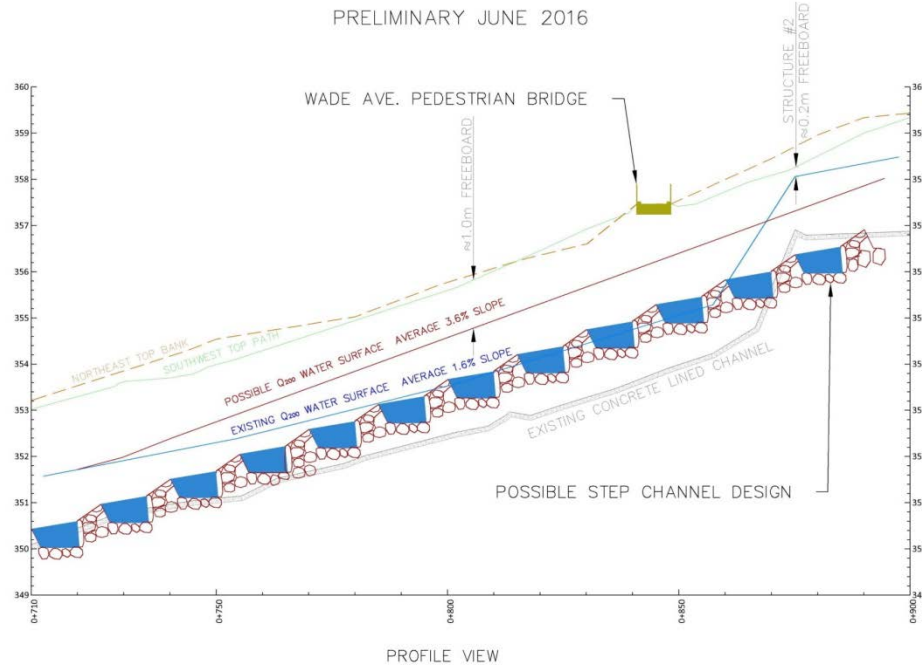
## Flood Control – Considerations

- Structure crests are locations of lowest freeboard along the channel



# Flood Control – Considerations

NANAIMO AVE. TO WADE AVE.  
PRELIMINARY JUNE 2016



Option 2 (rejected)

Option 1 (selected)



## Archaeological and Cultural issues

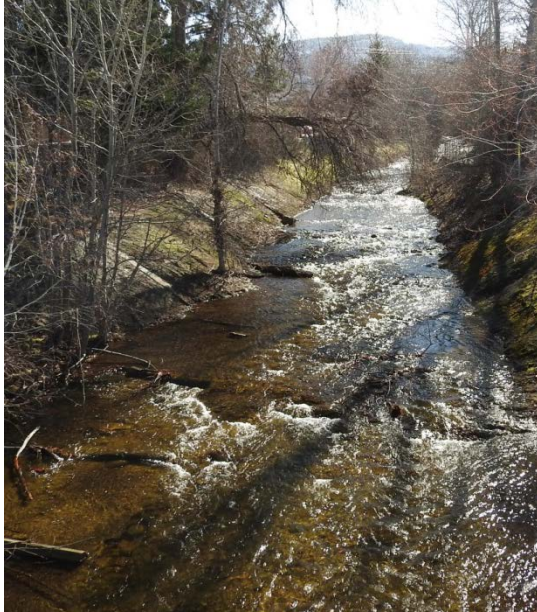
- PIB's consultant and staff conducted Cultural and Heritage Inventory Mapping (CHIM report) in late July 2016.
- Areas with cultural heritage value were defined by observed attributes including:
  - archaeological sites (observed archeological materials),
  - archaeological potential (areas demonstrating the potential for intact or intact buried landforms with archaeological potential),
  - culturally modified trees (bark stripped/trail marker trees)
  - native plants or plant communities (food, medicinal, fibre/building)
  - lithic resources (rocks used for making stone tools or for sweat baths)



## Cultural Heritage Values Observed

Cultural Heritage Feature	Number Identified
Archaeological Potential	18
Archaeological Potential (area)	4
Archaeological Site	2
Cut and Fill	2
Deer	2
Fortis Pipeline Crossing	1
Limited Potential	7
Plant Communities or Plants of Significance	9
Culturally Modified Tree	2
Petroform (stone fishing weir or swimming area)	1
Remnant Wetland	1
Spawning Gravels	1
Vesicular Basalt	4
Natural/Limited	1
<b>TOTAL</b>	<b>55</b>

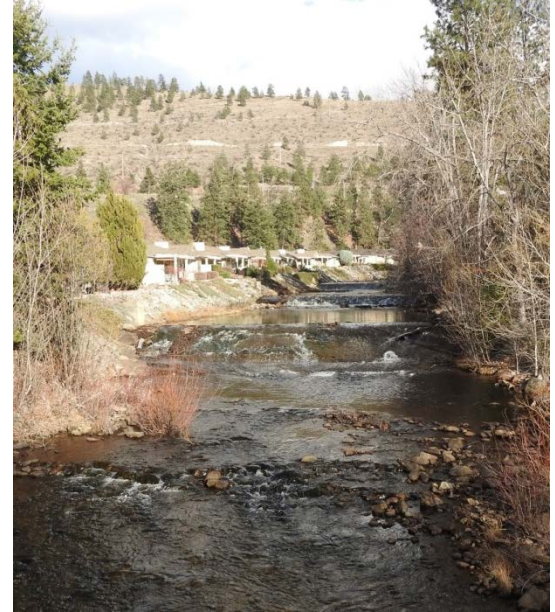
## Fish Habitat



Concrete lined

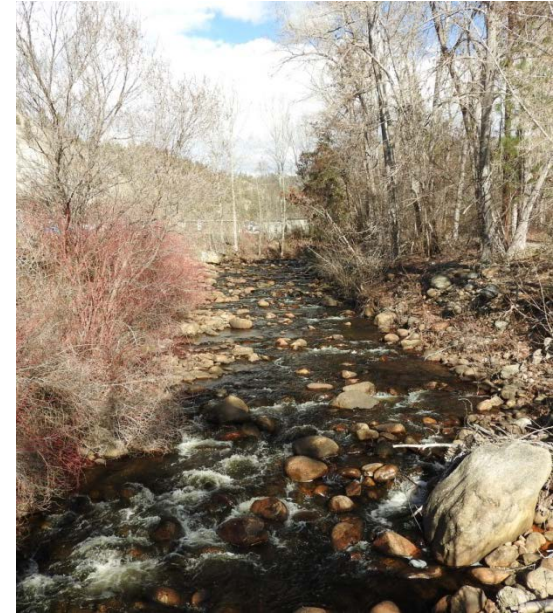


Stepped channel



Stepped Channel

## Fish Habitat



Natural run and habitat  
pond

## Fish Habitat Considerations

### Consider migration, spawning and rearing habitat

- Apply theoretical optimal ratios of habitat types and amount for abundance targets.
- Set initial targets based on other OK streams
- Prioritize fish habitat in the lower reaches.
- Water depth, velocity, gradient, elevation.
- Obstacles and barriers, reach limitations.
- Substrate composition, gravel, hydraulics.
- Cover - pools, boulders, woody debris, overhanging vegetation

**Riparian zone conditions** – width, vegetation type (native or introduced) and density/canopy cover



## Reach Prioritization – Flood and Fisheries

- Flood and Fish Habitat priorities do not consistently align.
- Estimated costs to address construction in each reach must be considered and will influence the order in which works might be constructed.

Priority	Flood Priorities	Fisheries Priorities
1	<b>Reach 3b*</b> Reach 13b Reach 4 + 5 Reach 11b	Reach 2b Reach 2a <b>Reach 3b*</b>
2	<b>Reach 3a*</b> Reach 11c Reach 11d Reach 12a	<b>Reach 3a*</b> Reach 1** Reach 4 + 5
3	Reach 12b <b>Reach 6*</b> <b>Reach 7*</b> Reach 11a	<b>Reach 6*</b> <b>Reach 7*</b> Reach 8 Reach 9 + 10a Reach 10b
4	Reach 13a Reach 9 + 10a Reach 8 Reach 13c	Reach 11a Reach 11b Reach 11c Reach 11d
5	Reach 10b Reach 2b Reach 2a Reach 1	Reach 12a Reach 12b Reach 13a Reach 13b Reach 13c

\* These Reaches indicate where flood and fisheries priorities align.

\*\*Final priority to be determined after collecting fisheries response data from previous projects. Reach 1 is currently passable.



## Construction Cost Estimates by Reach

- Costs include design and construction based on 2016 dollars but exclude any land acquisition.
- The total cost for the remaining 4.4km of creek is estimated to be in the order of \$30M.

Reach Number	Estimated Cost
1	\$2,200,000
2a	\$2,300,000
2b	\$2,350,000
3a Lower	\$ 630,000
3a Upper	\$1,350,000
3b	\$2,000,000
4	\$250,000
5	\$1,650,000
6	\$700,000
7	\$1,450,000
8	\$1,950,000
9	\$750,000

## Penticton Creek Master Plan.

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Reach Number	Estimated Cost
10a	\$850,000
10b	\$1,300,000
11a	\$850,000
11b	\$1,500,000
11c	\$1,800,000
11d	\$1,800,000
12a	\$950,000
12b	\$600,000
13a	\$550,000
13b	\$650,000
13c	\$550,000



## Funding Strategy

The costs associated with the restoration and flood infrastructure repair are too high for a single agency or source of funding so a program of diverse funding options needs to be sought.

Potential sources include:

- Outside Grant and Foundation Funds
- South Okanagan Conservation Fund
- Public Donations
- Establishing an Endowment
- Contributions from a Municipal storm utility
- Dedicated Municipal Reserve fund
- Property tax incentives





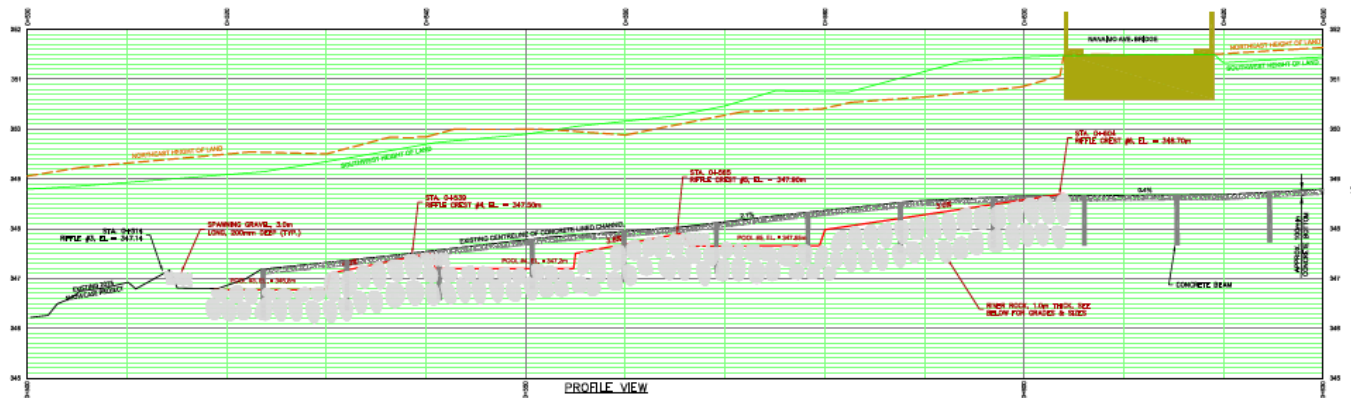
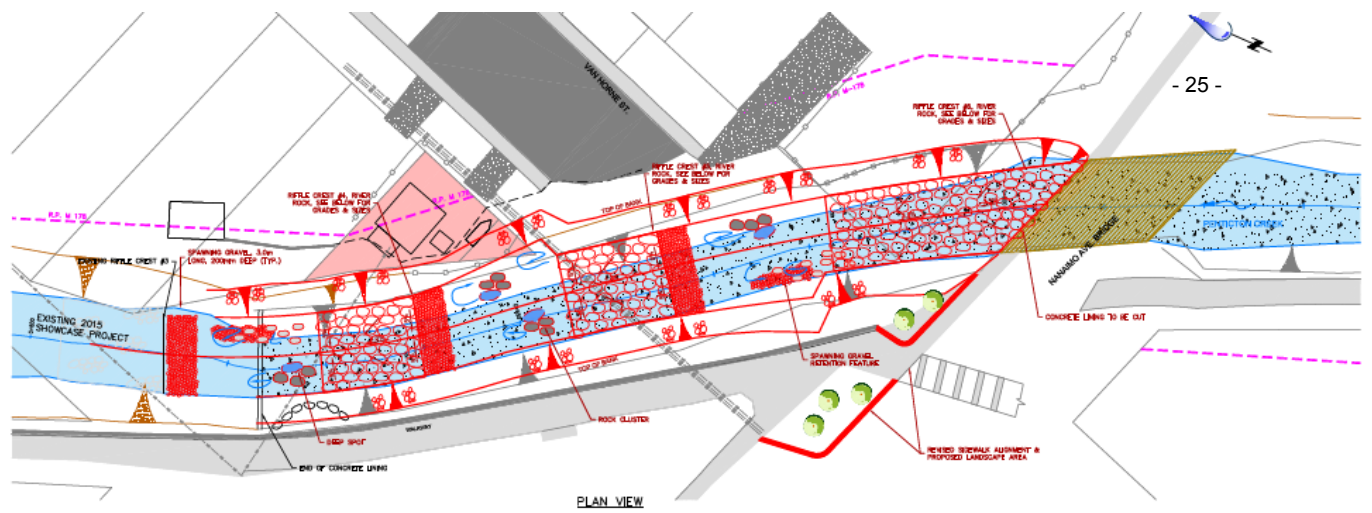
## 2017 Project - 3a Lower Section

- Detailed Design is in progress for the next section of Penticton Creek immediately upstream from the completed Showcase project up to Nanaimo Avenue Bridge crossing.
- The creek channel treatment will continue the same cross section as the showcase project with graded rip rap and installation of vegetation above the flood level.
- The Cultural Heritage Inventory Mapping did not identify any issues in the proposed section of creek.
- Public Consultation is proposed for the Saturday Market in mid May. Adjacent property owners have received preliminary notification and will be consulted individually with final plans.
- Construction is anticipated to commence in late July 2017 subject to receipt of permits and sufficient budget to meet the tendered prices. Work within the creek will be completed within the fisheries window which closes August 24<sup>th</sup>.
- Penticton parks department applying for TD Tree Days grant for replanting the riparian area.
- All work is anticipated to be complete by the end of September, 2017.



# Penticton Creek. 2017 Project

Will extend the third pool in the showcase project and add 3 Riffles and 2 Pools.





## Master Plan and 2017 Construction Schedule.

- City of Penticton Council Update: May 2, 2017
- PIB Council Update: TBA
- Public Presentation of Draft Master Plan: May 13, 2017 (tentative)
- Complete Master Plan: May 15, 2017 (tentative)
- Submit to City of Penticton Council for adoption: May 23, 2017 (tentative)
- Complete draft/final detailed design: April/May 2017
- Adjacent property owner consultation: April/May 2017
- Permit applications: April - June 2017
- Confirm funding and tender: June 1<sup>st</sup>, 2017
- Construction (subject to permits & approvals) July 22<sup>nd</sup> – August 24<sup>th</sup>, 2017
- Completion of work above creek perimeter September 30<sup>th</sup>, 2017



# QUESTIONS?