WEST DON RIVER IN E.T. SETON PARK MAJOR MAINTENANCE PROJECT

Public Information Centre Meeting #1 Handout - February 25, 2021

PROJECT OVERVIEW

- Erosion issues along West Don River in E.T. Seton Park posing a **risk to sanitary sewer, trail, and parkland**
- **3 Priority Areas:**

  Area 1 - Adjacent to parking lot **Area 2** - South of trail fork **Area 3** - Adjacent to archery range
- **3 concept alternatives** developed for each priority area to address the risks
- **1 preliminary preferred alternative** chosen for each site

YOUR FEEDBACK

WE'RE LOOKING FOR YOUR FEEDBACK ON:

✔ **Concept alternatives** ✔ **Evaluation criteria** ✔ **Preliminary preferred alternative**

Send us your comments using the Comment Form by March 14, 2021:

CLICK HERE FOR THE COMMENT FORM

STAY CONNECTED

- Visit our website for project updates: www.trca.ca/seton-park
- Sign up for the Project Mailing List
- Contact the **Project Manager:**

Divya Sasi

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Toronto and Region Conservation Authority

PRIORITY AREA 1 - ADJACENT TO PARKING LOT

EROSION RISKS

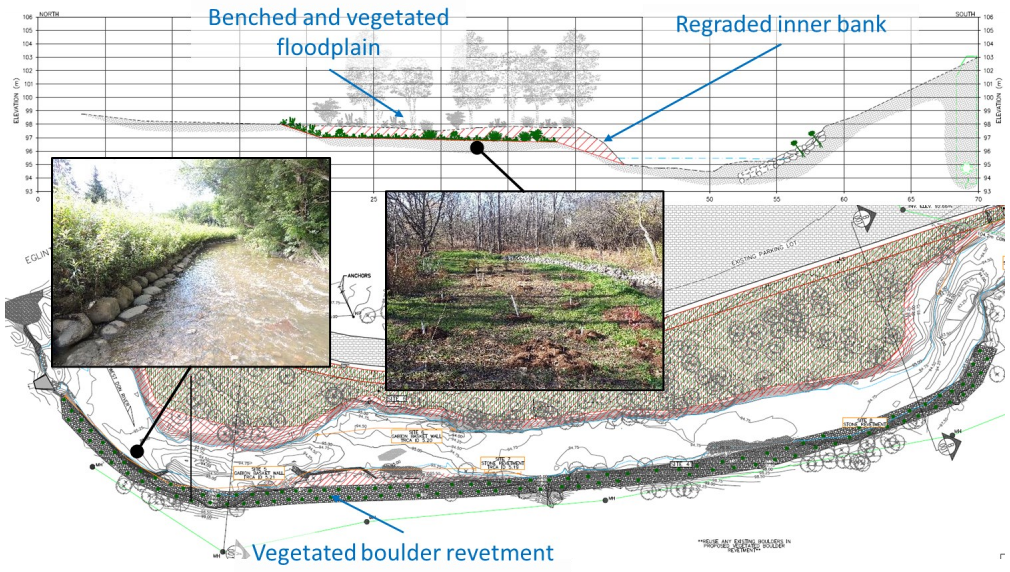
- Gabion basket retaining wall protecting sewer on outer bank (across stream from parking lot) has collapsed
- Gabion basket retaining wall on inner bank (adjacent to parking lot) has failed
- Collapsed stormwater culvert on inner bank

CONCEPT ALTERNATIVES

CONCEPT ALTERNATIVE 1

VEGETATED BOULDER REVETMENT & BENCHING OF INNER BANK

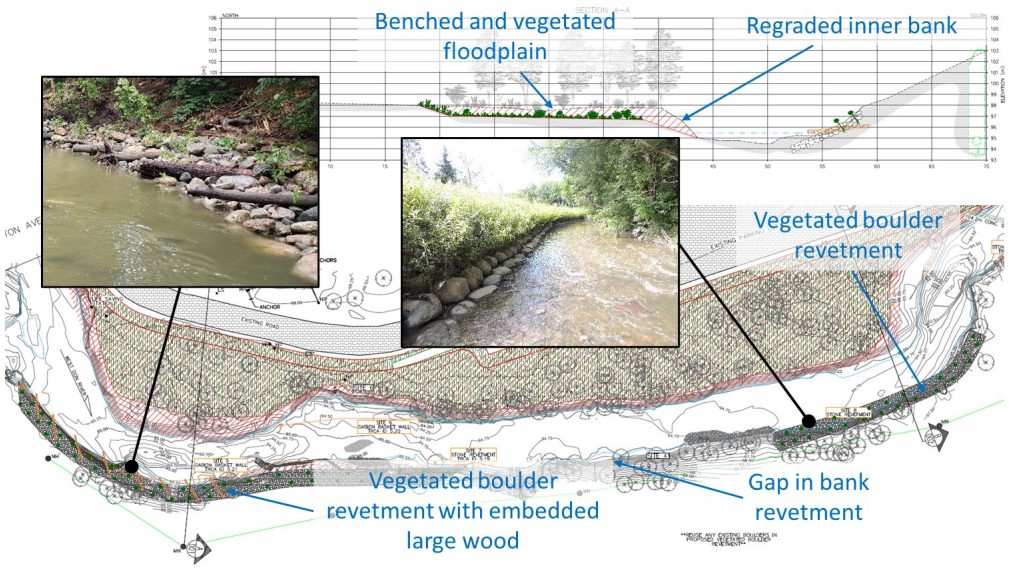
- Vegetated boulder revetment along entire outer bank (across stream from parking lot)
- Floodplain adjacent to parking lot will be cut along entire length and replanted with native trees and shrubs
- Regraded inner bank (adjacent to parking lot)



CONCEPT ALTERNATIVE 2

TRUNCATED VEGETATED BOULDER REVETMENT & BENCHING OF INNER BANK

- Two vegetated boulder revetment along outer bank (across stream from parking lot) separated by gap
- Large woody debris installed in revetment
- Floodplain adjacent to parking lot will be cut along entire length and replanted
- Regraded inner bank (adjacent to parking lot)

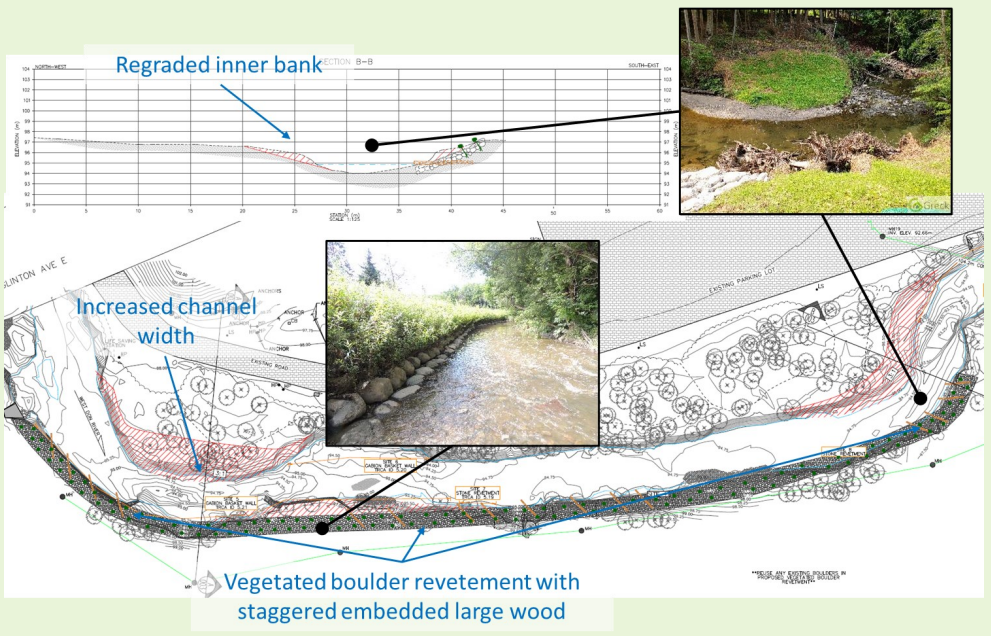


PRELIMINARY PREFERRED ALTERNATIVE

CONCEPT ALTERNATIVE 3

LOCALIZED CUT/BENCHING OF INNER BANK & VEGETATED BOULDER REVETMENT

- Vegetated boulder revetment along entire outer bank (across stream from parking lot)
- Large woody debris installed in the revetment
- Floodplain adjacent to parking lot will be cut only in two small areas
- Regraded inner bank (adjacent to parking lot)



For supporting documents, please visit the project website: www.trca.ca/seton-park

PRIORITY AREA 2 - SOUTH OF TRAIL FORK

EROSION RISKS

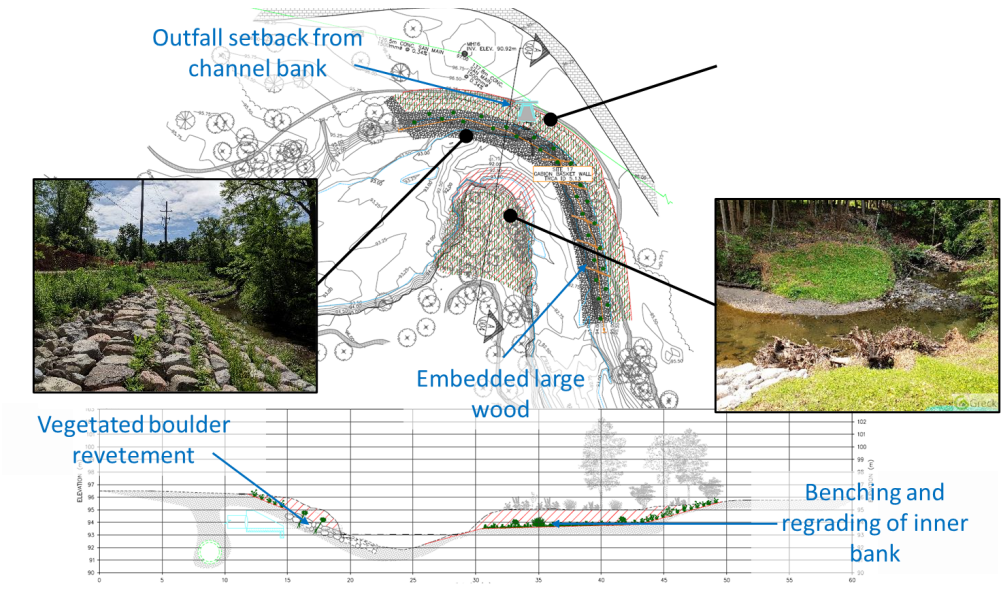
- Gabion basket retaining wall on outer bank (adjacent to trail) has collapsed and failed
- Stormwater outfall on outer bank collapsed and undermined
- Sanitary sewer maintenance hole on outer bank at risk

CONCEPT ALTERNATIVES

CONCEPT ALTERNATIVE 1

VEGETATED BOULDER REVETMENT & BENCHING

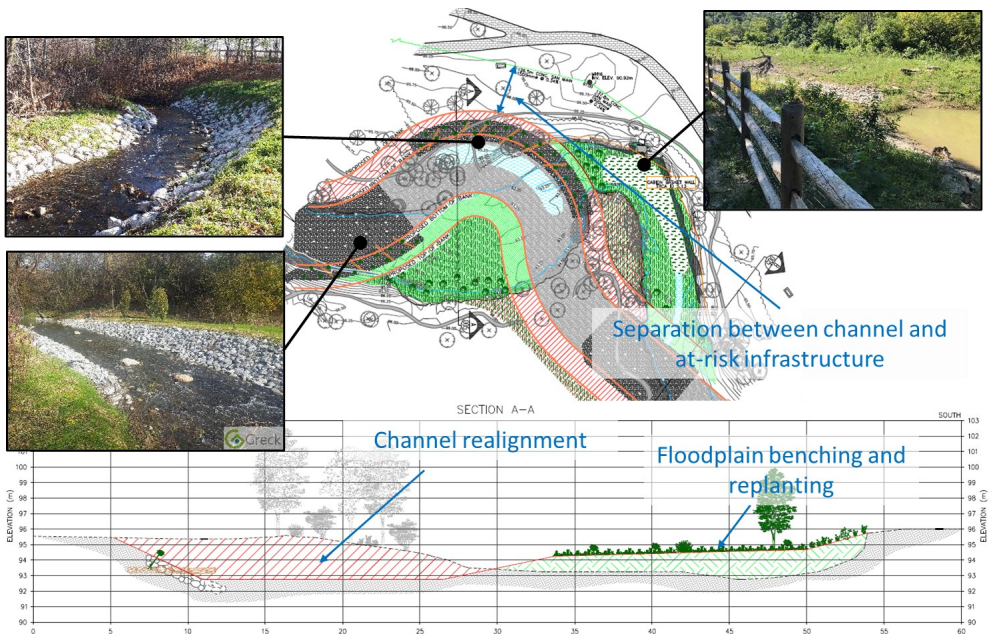
- Vegetated boulder revetment with large woody debris along outer bank (adjacent to trail)
- Collapsed stormwater outfall repaired and set back
- Inner bank (across stream from trail) is benched and regraded



CONCEPT ALTERNATIVE 2

UP-VALLEY MEANDER TRANSLATION

- Shifts the meander 40 m up-valley to move the watercourse away from at-risk infrastructure
- Vegetated boulder revetment with large woody debris along portions of both banks
- Stormwater outfall will outlet into outflow channel and then connect to realigned watercourse
- Floodplain (across stream from trail) will be benched and replanted

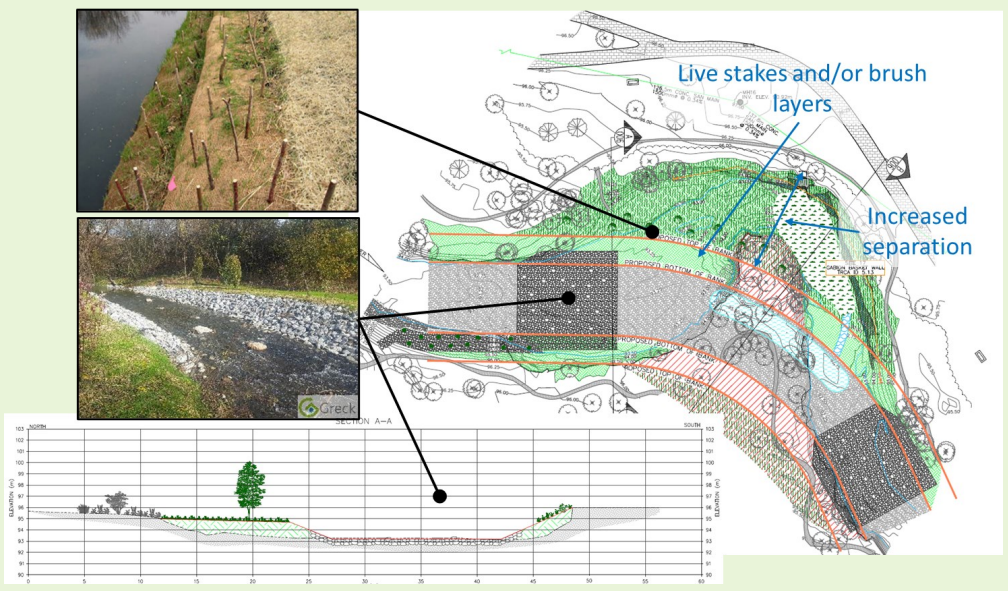


PRELIMINARY PREFERRED ALTERNATIVE

CONCEPT ALTERNATIVE 3

CHANNEL REALIGNMENT WITH GRADE CONTROLS

- Realigns the channel west to move the watercourse away from at-risk infrastructure
- Two boulder riffles (grade controls) on bed of watercourse to maintain channel bed stability
- Live stakes and/or brush layer bioengineering treatment to stabilize banks



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PRIORITY AREA 3 - ADJACENT TO ARCHERY RANGE

EROSION RISKS

- Gabion basket retaining wall and sheet pile wall protecting Don River Tail is failing
- Private stormwater outfall adjacent to the trail is undermined
- Sanitary sewer crossings at risk of being exposed in the watercourse

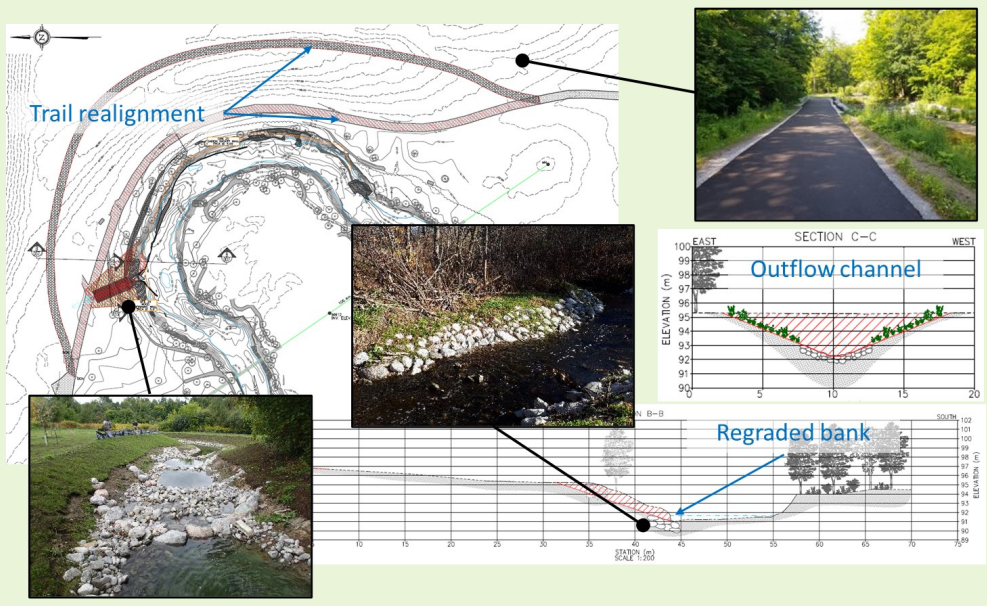
CONCEPT ALTERNATIVES

PRELIMINARY PREFERRED ALTERNATIVE

CONCEPT ALTERNATIVE 1

TRAIL REALIGNMENT WITH REPOSITIONING OF PRIVATE OUTFALL

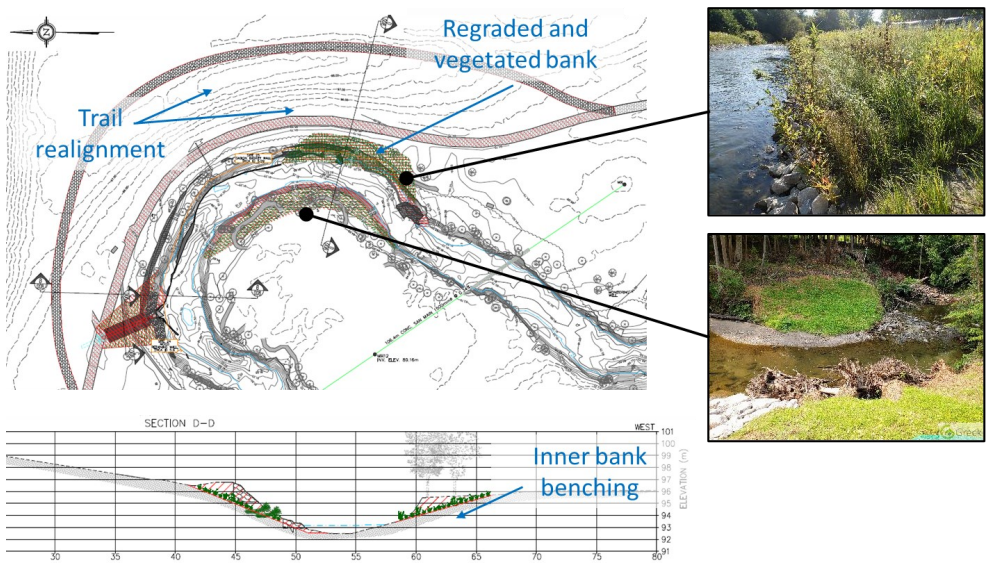
- Don River trail realigned to the east, away from the watercourse (increase in trail length by 100 m)
- Stormwater outfall repositioned by 20 m to current trail location with some bank regrading



CONCEPT ALTERNATIVE 2

TRAIL REALIGNMENT WITH REPOSITIONING OF PRIVATE OUTFALL & CHANNEL ENHANCEMENT

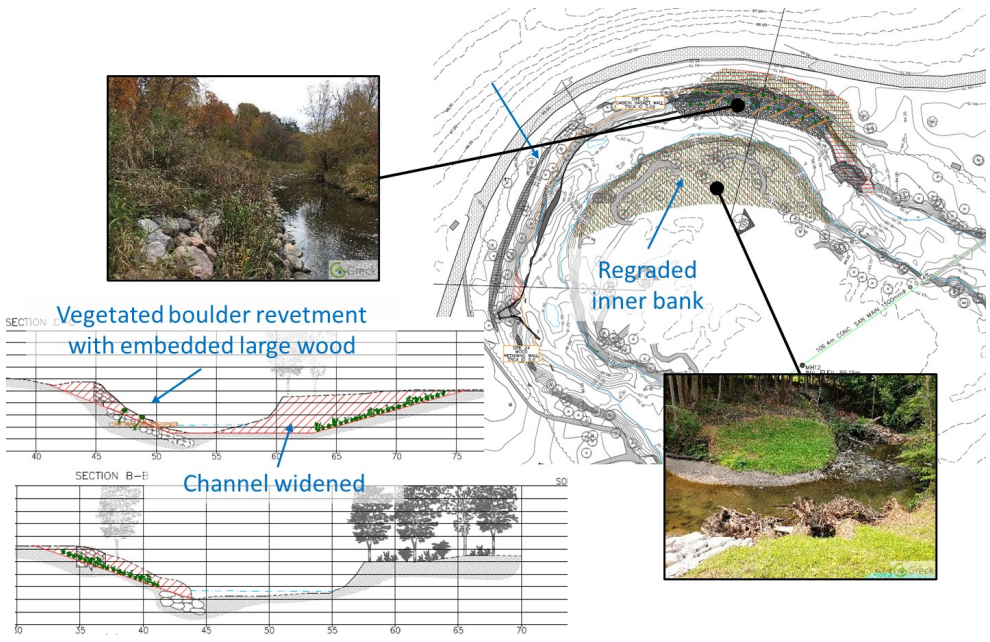
- Don River trail realigned to the east, away from the watercourse (increase in trail length by 100 m)
- Stormwater outfall repositioned by 20 m to current trail location and bank regrading around the outfall
- Portion of outer bank (adjacent to trail) regraded and planted while portion of inner bank (across stream from trail) benched



CONCEPT ALTERNATIVE 3

VEGETATED BOULDER REVETMENT

- Vegetated boulder revetment with embedded large woody debris along outer bank (adjacent to trail)
- Boulder toe protection for stormwater outfall
- Inner bank (across stream from trail) regraded and channel widened



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SUMMARY OF EVALUATION

CRITERIA & LEGEND

Objective	Criteria
Physical and Natural Environment	Flooding
	Erosion
	Terrestrial Habitat
	Aquatic Habitat
Social/Cultural Environment	Aesthetic Value
	Benefit to Community
	Archaeological Features
Technical Criteria	Regulatory Agency Acceptance
	Impact on Existing Infrastructure
	Maintenance Requirements
Financial Criteria	Capital Costs
	Maintenance Costs
Constructability	Complexity of Treatment
Public Safety	Potential Risks to Trail and Park Users
Combined Rank:	

+H	Most positive, or least negative impact; easiest to implement; lowest cost
+M	Moderate positive impact, moderate implementation; moderate cost
+L	Minor positive impact; lesser ease of implementation; high cost
+L	Neutral or no impact; no implementation; no associated cost
-N	Overall negative impact/effect

PRIORITY AREA 1

Do Nothing	Concept 1 Vegetated Boulder Revetment and Benching of Inner Bank	Concept 2 Truncated Vegetated Boulder Revetment and Benching of Inner Bank	Concept 3 Localized Cut/Benching of Inner Bank Vegetated Boulder Revetment
NIL	+H	+H	+M
-N	+H	+M	+H
NIL	-N	-N	NIL
NIL	+L	+L	+M
-N	NIL	NIL	+M
NIL	NIL	NIL	+L
TBD	TBD	TBD	TBD
NIL	+L	+L	+H
-N	+H	+M	+H
-N	+L	+L	+M
NIL	+L	+M	+H
NIL	+M	+L	+M
+L	NIL	NIL	NIL
NIL	-N	-N	NIL
4	2	3	1

PRELIMINARY PREFERRED ALTERNATIVE

CONCEPT ALTERNATIVE 3

LOCALIZED CUT/BENCHING OF INNER BANK & VEGETATED BOULDER REVETMENT

- Vegetated boulder revetment along entire outer bank (across stream from parking lot)
- Large woody debris installed in the revetment
- Floodplain adjacent to parking lot will be cut only in two small areas
- Regraded inner bank (adjacent to parking lot)

PRIORITY AREA 2

Do Nothing	Concept 1 Vegetated Boulder Revetment and Benching	Concept 2 Up-valley Meander Translation	Concept 3 Channel Realignment with Grade Controls
NIL	+L	+H	+M
-N	+H	+H	+H
NIL	+L	-N	-N
NIL	NIL	+L	+L
NIL	+L	+L	+L
NIL	+L	+L	+L
TBD	TBD	TBD	TBD
NIL	+M	+L	+L
-N	+L	+M	+H
-N	+L	+L	+H
NIL	+H	+L	+M
-N	+L	+M	+M
NIL	NIL	NIL	NIL
-N	+L	+M	+M
4	3	2	1

PRELIMINARY PREFERRED ALTERNATIVE

CONCEPT ALTERNATIVE 3

CHANNEL REALIGNMENT WITH GRADE CONTROLS

- Realigns the channel west to move the watercourse away from at-risk infrastructure
- Two boulder riffles (grade controls) on bed of watercourse to maintain channel bed stability
- Live stakes and/or brush layer bioengineering treatment to stabilize banks

PRIORITY AREA 3

Do Nothing	Concept 1 Trail Realignment and Repositioning of Private Outfall	Concept 2 Trail Realignment with Repositioning Private outfall and Channel Enhancement	Concept 3 Vegetated Boulder Revetment
NIL	+L	+M	+H
-N	-N	-N	+M
NIL	+L	NIL	NIL
NIL	+H	+L	+L
NIL	NIL	+L	+M
NIL	+L	+L	NIL
TBD	TBD	TBD	TBD
NIL	+H	+L	+L
-N	+H	+H	+L
-N	+M	+M	+L
NIL	+H	+M	+M
NIL	+M	+M	+L
NIL	NIL	NIL	NIL
NIL	+L	+L	NIL
4	1	2	3

PRELIMINARY PREFERRED ALTERNATIVE

CONCEPT ALTERNATIVE 1

TRAIL REALIGNMENT WITH REPOSITIONING OF PRIVATE OUTFALL

- Don River trail realigned to the east, away from the watercourse (increase in trail length by 100 m)
- Stormwater outfall repositioned by 20 m to current trail location with some bank regrading