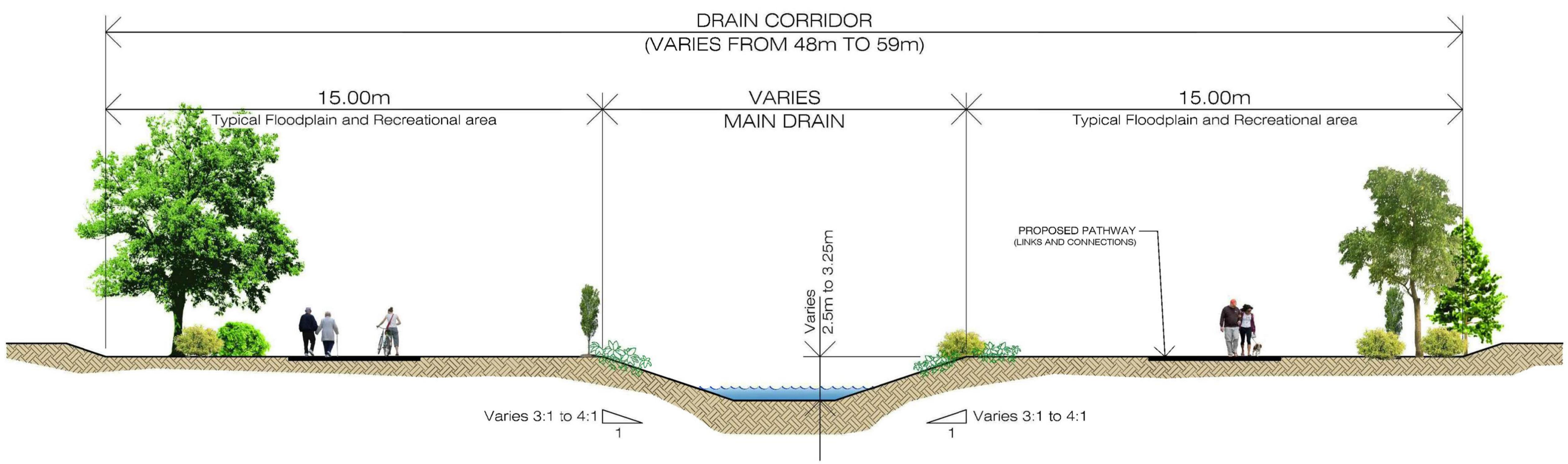
Recommended Alternative 3B



TYPICAL CROSS SECTION

HOWARD BOUFFARD PLANNING AREA
Master Drainage Study

Maximum Ponding Depths in Floodplain is 0.3m.

SCALE: N.T.S.

TYPICAL DRAIN CROSS SECTION

DATE: JUNE 2019
Dillon Proj.No. 18-8169-1000

Climate Change Impacts

- Alternatives were subject to an Urban Stress Test
  - Additional 42mm of rain over 24hrs

- Results in approximately 50% increase to storage requirements
  - Additional volume ranges from 51,000m^3 for Option 1A to 112,000m^3 for option 3B

- Can be addressed through depressing park lands and other green space
  - Ideal to locate parks along the drainage corridor
  - Stormwater benefits and connectivity to recreational areas along the corridor

- Does not necessarily have to increase size of Stormwater Pond

Anticipated Project Timeline

Summer 2019	October 2019	6 to 12 months	1 year	1 year	1 to 2 years
Complete Master Drainage Study	30-Day Public Review of EA Document	Municipal Financing of Preferred Solution	Detailed Design of Preferred Solution	Agency Approvals	Construction

Could be concurrent

* Steps beyond completion of the Master Drainage Study requires Council approval.

Estimated Construction Costs

	CAPITAL COSTS				BENEFITS		
	Construction	Engineering (15%)	Contingency (25%)	Total	# Ponds Eliminated	# Pump Stations Eliminated	Land Area Gained (Ha)*
Option 1A	$23.0	$3.5	$6.6	$33.1	5	3	10.8
Option 1B	$24.0	$3.6	$6.9	$34.5	8	5	17.1
Option 2A	$23.3	$3.5	$6.6	$33.4	5	3	10.8
Option 2B	$24.2	$3.6	$7.0	$34.8	8	5	17.1
Option 3A	$23.7	$3.6	$6.8	$34.1	11	6	17.0
Option 3B	$25.4	$3.8	$7.3	$36.5	14	8	23.2

* Approximate Land Area based on 2017 Environmental Assessment Addendum

- Excludes land acquisition costs
- Excludes areas for climate change resiliency

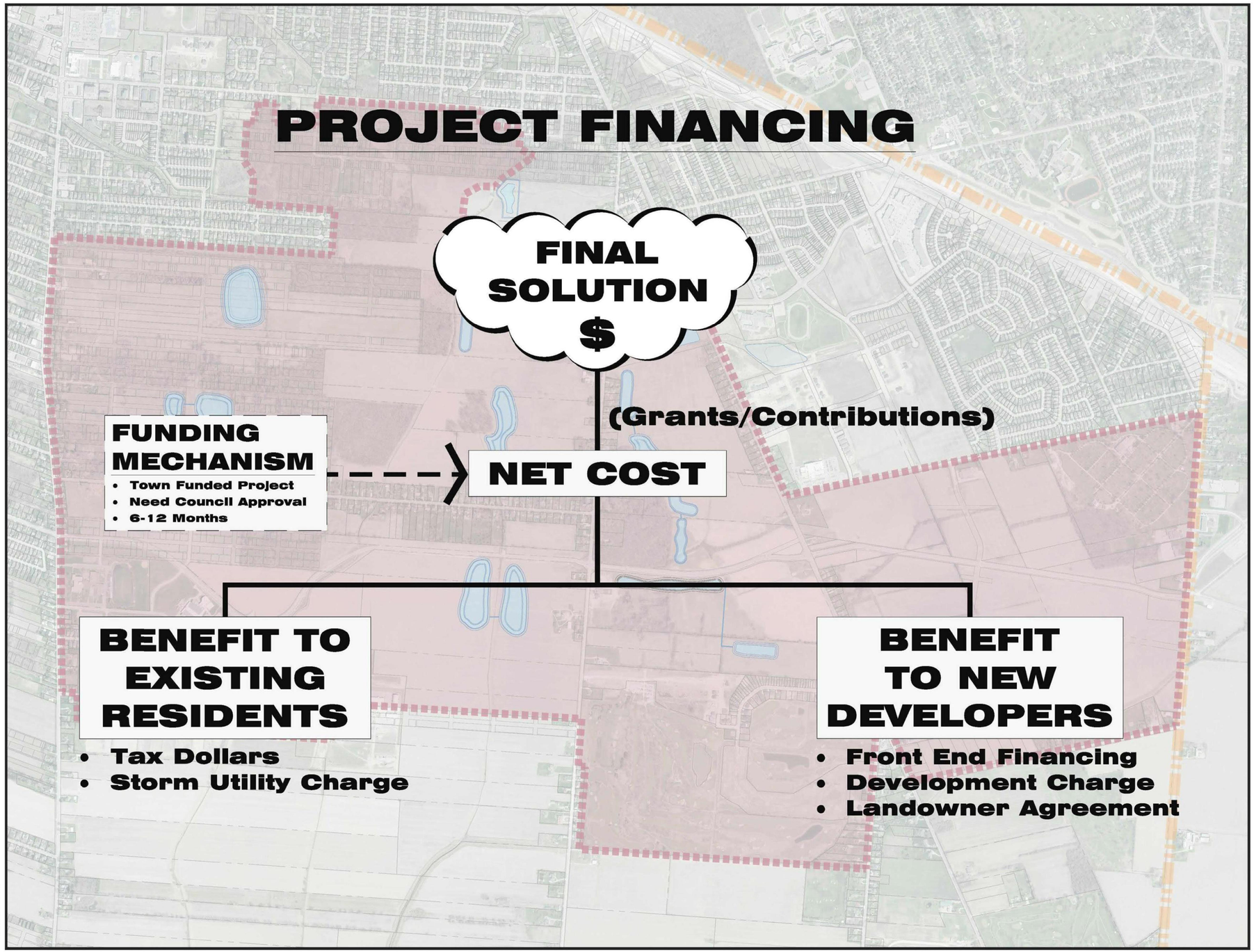
Estimated Construction Cost for Proposed Improvements reduced by:

→ MORE Revenue Resulting from more Developable Land

→ LESS Costs for Construction of Local Stormwater Ponds

→ LESS Costs for Local Pump Stations

Project Financing



HOWARD BOUFFARD PLANNING AREA
Master Drainage Study

PROJECT FINANCING

DATE: JUNE 2019
Dillon Proj.No. 18-8169-1000

File Location:
C:\Users\...\working directory\projects\ 2018\20dm\dm\dm8253\18169-03 psr figs.dwg
June, 25, 2019 10:02 AM

We Need Your Participation

Feedback from the public and the development community is vital as it will directly influence development of the preferred solution.

- What do you like about the proposed solution?
- What do you dislike about the proposed solution?
- Feedback regarding eliminating local stormwater ponds and pump stations
- Do you require your existing farm crossing to be replaced?

* Please provide us with your comments by July 15, 2019

Next Steps

	2019			2020		
	Summer	Fall	Winter	Spring	Summer	Fall
Review feedback from this meeting (PIC)		→				
Complete impact assessment on preferred solution		→	→			
Document Study in an EA Report and make available for public review		→	→			
Council Consideration of Next Steps			→	→		

Thank you for attending.

If you have any questions about this project, please fill out the comment sheets or contact either of the individuals listed below.

Project Website
http://www.lasalle.ca/hbmds

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