Howard/Bouffard Planning Area Master Drainage Study

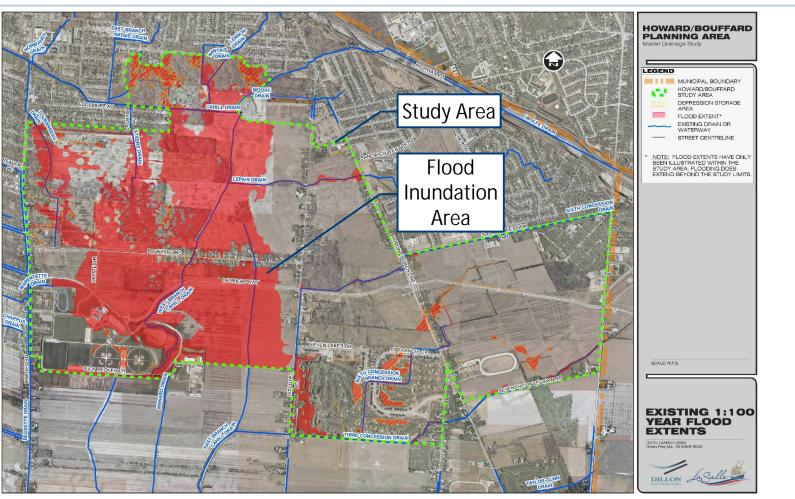
Municipal Class Environmental Assessment

Town of LaSalle Council Meeting November 28, 2023



Study Purpose

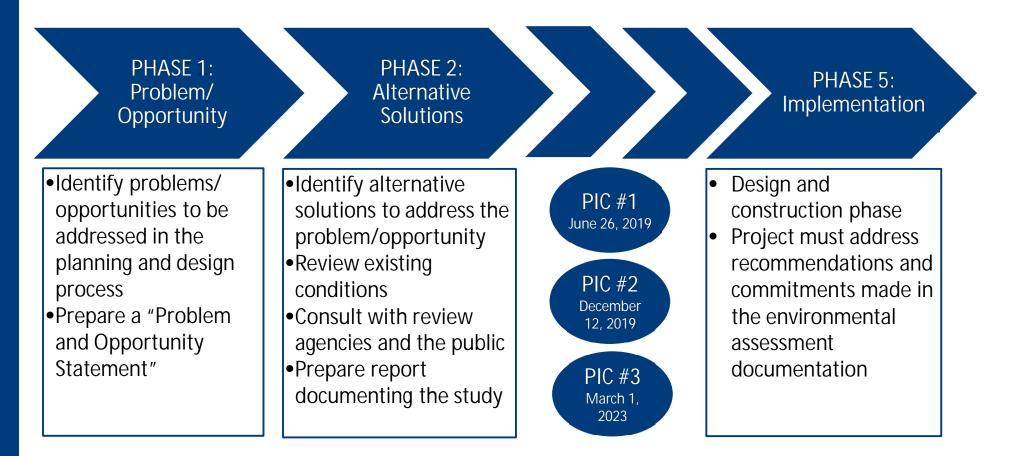




Significant portions of the Howard/Bouffard Planning Area are flooded during the 1-in-100 year, 24-hour rainfall event. The Essex Region Conservation Authority has indicated issuance of permits for development would be difficult until the flooding issues are addressed. This study has evaluated alternative solutions to address the existing flooding issues and support future development in this key growth area.

Class Environmental Assessment Process

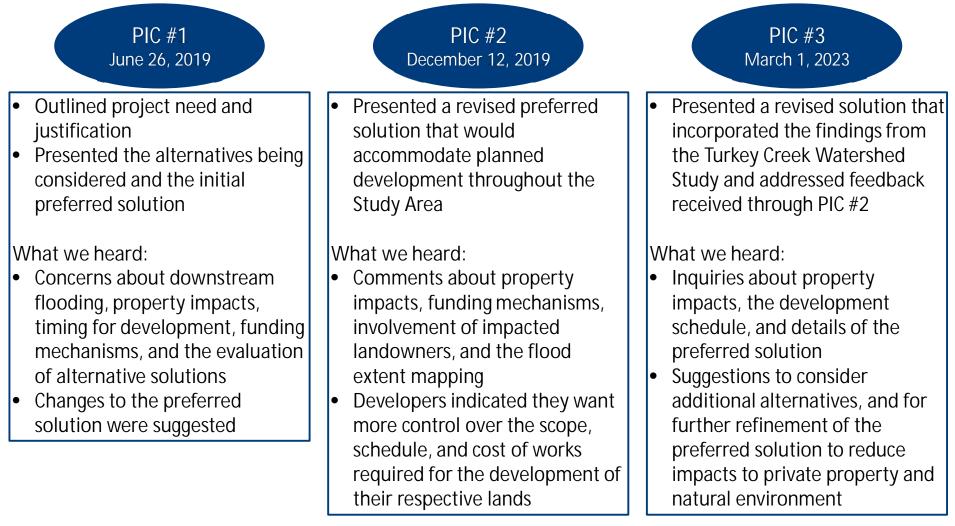




This study followed Master Plan approach #2 under the Municipal Class Environmental Assessment (EA; 2023), which includes Phases 1 and 2 of the process.

Consultation Summary





Following PIC #3, the preferred solution was further refined. Mitigation measures and commitments for future work have been developed to address anticipated impacts.

Alternative Solutions (Presented at PIC #3)



| | Alternative Solution | Description |
|----------------|--|---|
| Alternative 1* | Do Nothing | Maintain status quo – no drainage solution to address spillover |
| Alternative 2 | Consolidate Stormwater to Regional Facility | Update of previous preferred solution (as presented at PIC #2) |
| Alternative 3 | Local Stormwater Management Ponds | Builds on the solution presented in a previous study (2017 EA Addendum) |

A comparative evaluation of the three alternative solutions was completed to identify the level of preference for each solution in comparison to the others. The criteria used in the evaluation were grouped under the following categories:

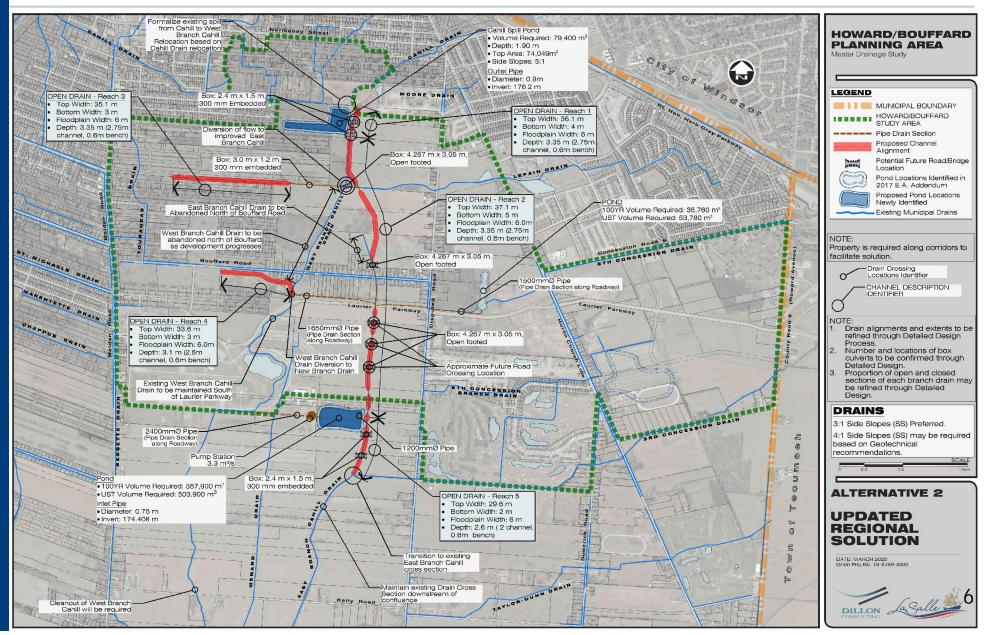
- Natural Environment
- Socio-Economic Environment
- Cultural Heritage

- Engineering
- Cost
- Timing of Implementation.

*Alternative 1 does not address the problem/opportunity; however, it must be considered as part of the Class EA process.

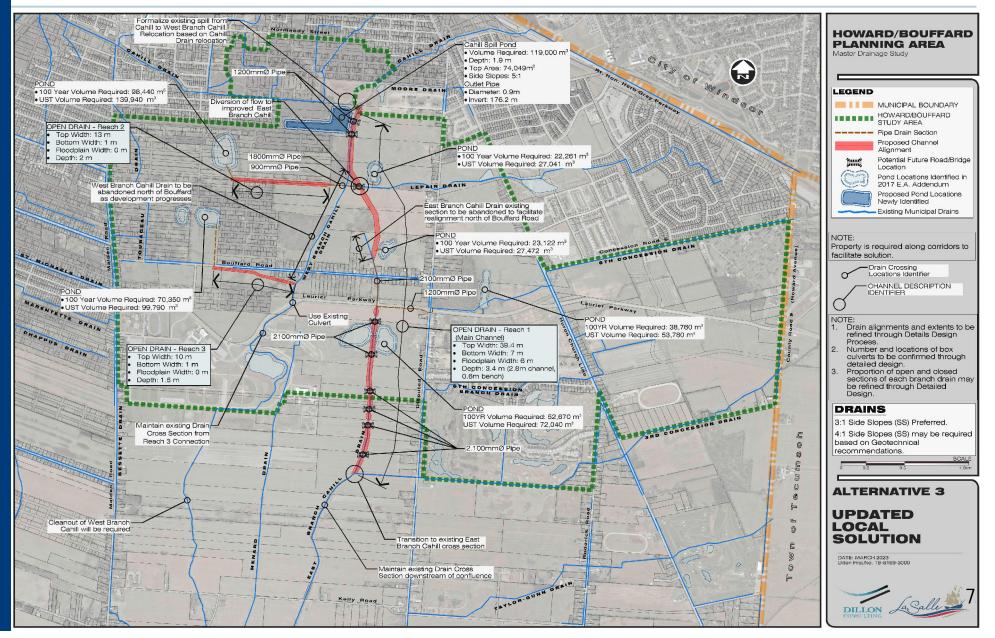
Alternative 2 – Regional Facility





Alternative 3 – Local SWM Ponds





Evaluation Summary



| Category | Preferred Solution Determined by Evaluation | | | | |
|-------------------------------|---|--|--|--|--|
| Natural Environment | Alternative 1 – Do Nothing | | | | |
| Socio-Economic Environment | Alternative 3 – Local SWM Ponds | | | | |
| Cultural Heritage | Alternative 1 – Do Nothing | | | | |
| Engineering | Alternative 3 – Local SWM Ponds | | | | |
| Cost | Alternative 1 – Do Nothing | | | | |
| Timing of Implementation | Alternative 3 – Local SWM Ponds | | | | |

Based on the evaluation of alternatives, it was determined that Alternative 3 – Local SWM Ponds is the preferred solution.



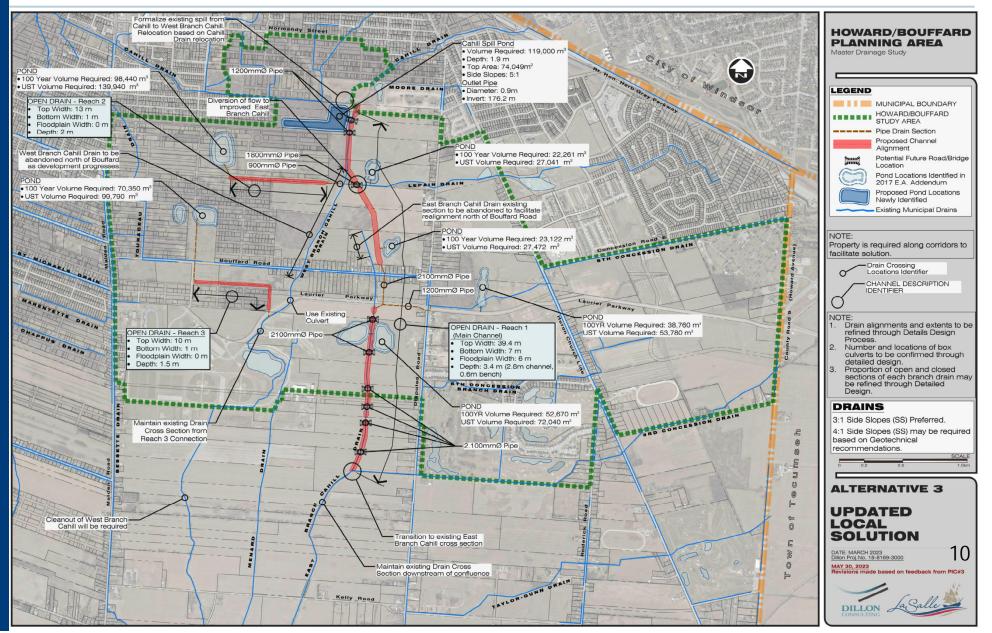
Alternative 1 (Do Nothing) is least preferred as it does not address the existing flooding issues and development would not be permitted to proceed within the flood inundation area.

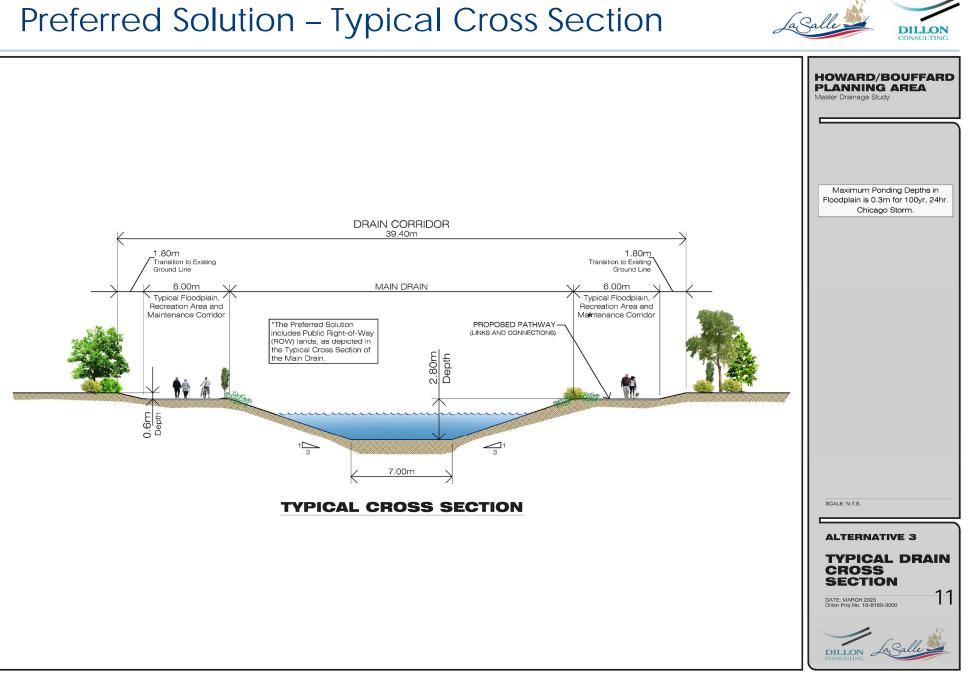
When compared to Alternative 2 (Regional Solution), the following key advantages of Alternative 3 (Local SWM Ponds) were identified:

- Lesser anticipated impact on both terrestrial and aquatic ecosystems
- Greater potential for positive impacts to aquatic ecosystems through creation of new open channel with direct connection to existing fish habitat
- Reduced amount of private property to be acquired
- Less, smaller enclosures and channels
- Does not require a regional pond and pump station
- Construction and engineering costs are estimated to be \$36 million lower
- Lower operation and maintenance costs
- Less time to implement
- Gives developers more control over SWM solutions for developed lands.

Preferred Solution (Refined Following PIC #3)





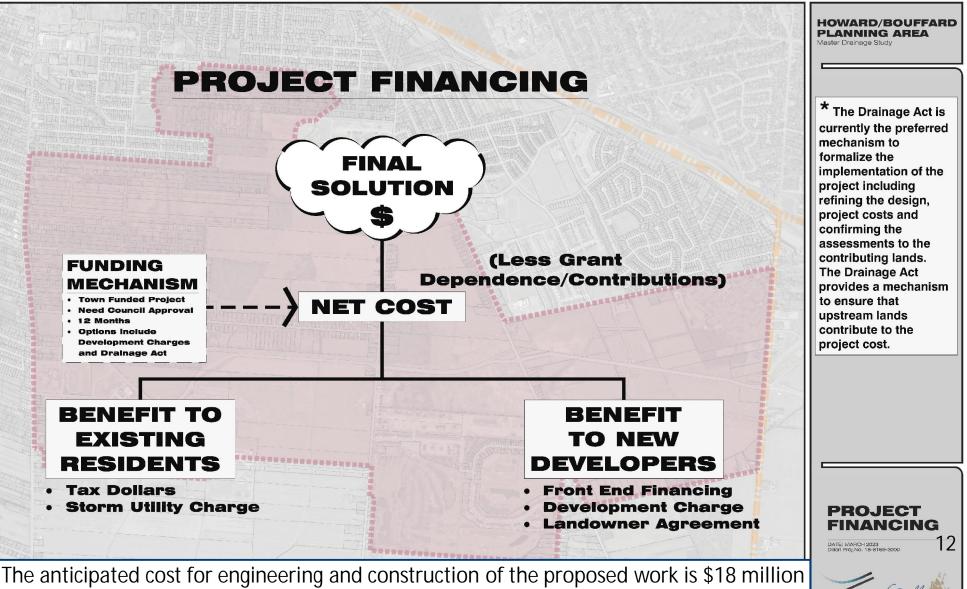




Project Financing



DILLON



(2023 dollars). This cost excludes property acquisition and applicable taxes.

Anticipated Project Timeline



| | Q4 2023 | Q1 2024 | Q2 2024 | Q3 2024 | Q4 2024 | Q1 2025 | Q2 2025 | Q3 2025 | Q4 2025 |
|--|------------|------------|---|------------|------------|------------|------------|------------|------------|
| 1. Final Master Drainage Study (Public Process) | х | х | Master Drainage Study Report public review: January 10 to February 9, 2024 | | | | | view: | |
| 2. Financing Solutions Drainage Act Agreements Development Charges (Public Process) | | Х | Х | Х | Х | | | | |
| 3. Preliminary Development Plans | | | | Х | Х | х | Х | | |
| 4. Agency Approvals | | | | | | х | Х | | |
| 5. Tender and Construction | | | | | | | | Х | Х |
| 6. Development Design and Construction | | | | | | | Х | Х | Х |

Notes:

• All works beyond Final Master Drainage Study require Council approval

• Preliminary schedule shown is based on no objections throughout the various public processes

• Development Approval to begin in 2025

• Tender and Construction extends beyond Q4 2025.

Thank you

QUESTIONS

